NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
CONTRACT NO. NAS 7-100

Technical Memorandum No. 33-99
Volume 2, Part A

Earth–Venus Trajectories, 1965-66

V. C. Clarke, Jr.
R. Y. Roth
W. E. Bollman
T. W. Hamilton
C. G. Pfeiffer

C. R. Gates, Chief
Systems Analysis Section

JET PROPULSION LABORATORY
CALIFORNIA INSTITUTE OF TECHNOLOGY
PASADENA, CALIFORNIA

April 15, 1963

Copyright © 1963
Jet Propulsion Laboratory
California Institute of Technology

TABLES

1. Trajectory parameters influencing tracking accuracy xix
2. Tracking station parameters influencing tracking accuracy xix

FIGURES

1. Heliocentric transfer geometry x
2. In-plane transfer geometry x
3. Determination of the hyperbolic-excess velocity vector V_{hL} xi
4. Vehicle flight plane xii
5. Impact parameter B xiii
6. The R, S, T target coordinate system xiii
7. The mapping of mid-course execution error xvi
8. Projection of three-dimensional error ellipsoid on the T-R plane . . xviii
9. Orientation of the X_i Cartesian coordinate system to describe uncertainties in the hyperbolic-excess velocity vector V_{hL} xviii
10. Generalized geometry for aiming point angles xxiii
11. Definition of σ_p and γ_p xxiii
12. Ascent trajectory profile xxiv

CONTENTS

I. Introduction vii
A. Heliocentric Conic Computation vii
B. Planetocentric Conic Computation vii
C. Differential Corrections vii
D. Mid-Course Guidance vii
E. Orbit Determination viii
F. Accuracy of Computations viii

II. Analytical Model for Interplanetary Trajectories ix
A. Heliocentric Motion ix
B. Launch Planet Escape Hyperbola xi
C. Differential Corrections xiii
D. Mid-Course Execution Accuracy xv
E. Orbit Determination Accuracy xviii

III. Explanation of Trajectory Tables xxi
A. Heliocentric Conic Group xxi
B. Planetocentric Conic Group xxiii
C. Differential Corrections Group xxv
D. Mid-Course Execution Accuracy Group xxvi
E. Orbit Determination Accuracy Group xxvii

IV. Constants xxviii

References xxix

Earth–Venus Trajectories, 1965-66 xxx

FOREWORD

This volume is one of a set of five giving key characteristics of Earth-to-Venus trajectories during the period 1964–1970. This period is divided into five 120-day launch intervals spaced about 19.2 months apart. During each interval, trajectory characteristics are given for flight times of from 70 to 220 days in 2-day steps. Thus each volume contains 9,120 trajectories.

The applicability of these books may be extended by noting the 8-year cyclic recurrence of Earth–Venus trajectories. Thus trajectories in 1972 are very nearly identical to 1964 trajectories; 1973 trajectories are very nearly identical to 1965 trajectories, etc. Simply by updating the trajectories by 8 years, the results may be reapplied.

It is intended that these books provide trajectory and guidance analysts with data, in volume, so that they may perform preliminary design studies, conduct investigations of the properties of ballistic interplanetary trajectories, and make interplanetary guidance and orbit determination analyses. While not exact, these trajectories are sufficiently accurate to be quite useful for the above purposes.

In generating such a large amount of data, it is impossible to check the correctness of each number. Should the reader detect any errors, the authors would appreciate being advised.

Companion volumes (Ref. 1) give the characteristics of Earth–Mars trajectories during the period 1964–1977.

I. INTRODUCTION

This report presents the results of extensive machine computations of three-dimensional ballistic interplanetary trajectories. The analytic model used to represent these trajectories is based upon two-body, inverse-square, force field mechanics. A brief explanation of the model is presented in Section II.

Basically, the trajectories are calculated in two distinct parts: (1) the heliocentric transfer ellipse and (2) the launch - planet - centered escape trajectories. Following these trajectories, differential corrections or error coefficients and guidance and tracking parameters are given.

A. Heliocentric Conic Computation

The heliocentric trajectory is obtained by specifying the launch date and flight time only. Given these, the positions of the launch planet on the launch date and the target planet on the arrival date may be obtained by interrogating the ephemerides. By assuming the planets to be massless, a unique heliocentric trajectory may then be computed which passes through the centers of the launch and target planets. Though this assumption may at first seem gross, experience has proved it to be perfectly reasonable for this purpose. After the solution has been obtained by an iterative procedure, the orbital elements, heliocentric position, and velocity vectors at launch and arrival are computed. Other heliocentric quantities of engineering interest are also computed.

B. Planetocentric Conic Computation

After the heliocentric orbit is obtained, the launch and arrival hyperbolic-excess velocity vectors are computed by subtracting the velocity vectors of the launch and target planets from the heliocentric launch and arrival velocity vectors of the probe. The launch hyperbolic-excess vector is, in fact, the most important result of these computations because it yields the energy and direction of fire required to achieve interplanetary transfer.

Further computations are done to exhibit properties of the near-Earth portion of the trajectories. Given the launch hyperbolic-excess vector, a launch site (Cape Canaveral), a launch azimuth, and certain properties of a typical interplanetary boost vehicle, and assuming a 100-nm parking orbit, quantities such as launch time, injection position and velocity vectors, parking orbit coast time, and injection time are computed. In essence, then, approximate trajectories are obtained from the launch pad to the target. The terminal portions of the trajectories are assumed to impact vertically on the target planet.

C. Differential Corrections

To augment the trajectory parameters, differential corrections or error coefficients relating variations in the launch hyperbolic-excess velocity vector to variations in target miss and flight time are computed. Actually, the variables at launch in these coefficients are the square of the hyperbolic-excess speed, or *vis viva* energy C_3, and the declination and right ascension of a unit vector **S**, collinear with the outgoing asymptote of the escape hyperbola. The target variables are the components of the impact parameter **B**, defined below, and the flight time. These coefficients are obtained by a numerical differencing technique developed by William Kizner of JPL.

Based upon these error coefficients, guidance and tracking parameters are calculated as described below.

D. Mid-Course Guidance

Interplanetary guidance is currently being accomplished by determining the orbit of the probe from radio tracking data and then applying one or more impulsive velocity corrections to null the predicted target error. The guidance task closely parallels the trajectory problem, for it is convenient to define the following guidance "phases":

1. Planetocentric phase, in which, after the launch vehicle has placed the probe on its escape hyperbola, the orbital elements of this trajectory are determined and the hyperbolic-excess velocity is corrected to the desired value.
2. Heliocentric phase, in which additional velocity corrections may be made to correct any error in orbit determination and/or maneuver execution in phase 1.
3. Approach phase, in which the probe is in the sphere of influence of the planet and the final vernier corrections may be made to trim the results of phase 2.

The preflight analysis of phase-1 guidance is primarily concerned with the statistical problem of determining how much propellant to carry aboard the spacecraft in

order to correct a "three-sigma" injection guidance error. These studies are well-documented elsewhere (Ref. 2–4) and will not be discussed here. Suffice it to say that correcting the hyperbolic-excess velocity is a reasonably good approximation to nulling the miss components at the planet. Such an analysis need only be concerned with the planetocentric phase of flight.

The analysis of the heliocentric phase is more complicated, since maneuvers there depend upon errors in applying the first midcourse maneuver (phase 1). In order to understand the effect of phase 1 errors, or to specify a tolerance on them, it is convenient to ask how a unit error in hyperbolic-excess velocity maps to miss at the target. This unit velocity error can be thought of as due to uncertainties in phase-1 maneuver execution and orbit determination. Conceptually, this analysis can be accomplished by letting a unit velocity error trace out a sphere at the tip of the hyperbolic-excess velocity vector and observing the semimajor and semiminor axes of the miss ellipse at the target (only two miss components are normally of interest). Mathematically, this is done by simply forming a matrix of the differential corrections, multiplying this matrix by its own transpose, diagonalizing the resulting symmetric matrix, and observing that the two diagonal terms are the desired semimajor and semiminor axes of the unit error ellipse.[1] It is easy to show that if the coordinate system chosen to describe the target error is collinear with these axes, the rows of the resulting differential correction matrix (which are gradient vectors) are orthogonal, and their norms are the magnitudes of the error-ellipse axes.

The approach guidance phase is not conveniently treated with this kind of analysis, and is not discussed further. Here, it can be assumed that the approach maneuvers are always negligibly small.

E. Orbit Determination

A spacecraft boosted toward Mars or Venus by the current generation of launch vehicles requires the accuracy obtainable using Earth-based radio guidance in order to accomplish most planet-oriented experiments. The steps in radio guidance are:

1. Track the transponder signal from the spacecraft from several stations located at a spread of latitudes to determine the orbit of the spacecraft.
2. Calculate the velocity changes required to alter the orbit to pass through the desired region at the target. The maneuver is then applied with a small rocket motor; the pointing direction and burning time (of the velocity increment) are calculated to perfectly correct the orbit if both the estimate of the orbit and the application of the maneuver are without error.
3. Track the spacecraft after the first maneuver for a sufficient interval to form a new estimate of the perturbed orbit.

This process of tracking and maneuvering may be repeated several times to achieve high accuracies at the target. There is, however, a limit to the process imposed by our uncertainties in the actual location of the target planet as well as the unpredictable forces acting on the spacecraft.

For extremely high accuracy at the target planet, on-board measurements must be used in conjunction with the Earth-based tracking in order to further reduce the above-mentioned uncertainties. It is not the function of this report to discuss on-board measurement systems but rather to describe the capabilities of current Earth-based radio guidance techniques when applied to interplanetary trajectories.

An adequate description of the accuracy to which orbits may be determined and maneuvers executed for the case of several corrective maneuvers is beyond the scope of this report. The results presented here may be strictly interpreted as corresponding to the accuracy capabilities for a single mid-course maneuver occurring anywhere between 1 and 14 days after injection. The relative contribution to the target uncertainty caused by orbit determination errors and mid-course execution errors depends directly upon the size of the correction required on a particular flight. For this reason, then, two error sources are considered separately. While our results do correspond to the single maneuver case, they are very valuable in providing a general description of the way in which these errors vary over the selected set of trajectories. Such utilization of the results is discussed later herein.

F. Accuracy of Computations

Extensive accuracy studies were performed to verify the adequacy of these trajectories for preliminary design use. Both Mars and Venus trajectories were computed on the JPL precision-integrating trajectory program using

[1] It should be apparent to readers familiar with statistical concepts that this is equivalent to mapping a three-dimensional gaussian distribution of velocity errors, with unit standard deviation along each axis, to a two-dimensional gaussian distribution of position errors at the target.

initial conditions obtained from the approximate trajectories contained herein. Of 56 Mars cases run, 29 missed the target by less than 500,000 km; 16 missed by between 500,000 and 1,000,000 km; and 5 missed by between 1,000,000 and 1,500,000 km. The worst case missed by 3,500,000 km. For the flight time errors, 16 varied between 1 and 2 days; 14 varied between 2 and 3 days; and 9 were greater than 3 days. The worst case was 7.2 days. No systematic properties of these errors were noted except that they appear to get worse for the higher-energy trajectories.

For Venus, the accuracy was considerably better, averaging 322,000-km miss error and 0.67-day flight time errors. Based on these comparisons, the model used to generate the trajectories contained herein is considered to be adequate and the results suitable for preliminary mission design studies. These results are very useful for initializing the precision trajectory search program.

When used for the stated purposes, these trajectories provide an excellent source of data obtained at considerably less time and expense than precision cases.

II. ANALYTICAL MODEL FOR INTERPLANETARY TRAJECTORIES

The analytical model consists of three distinct phases of two-body motion: (1) an escape hyperbola near the launch planet, (2) elliptical[2] motion under the attraction of the Sun, and (3) terminal hyperbolic motion near the target planet.

A. Heliocentric Motion

Solution of the heliocentric elliptic motion is obtained first under the following assumptions:

1. The launch and target planets move in orbits about the Sun as given in the national ephemerides. Their velocity components are obtained by using two-body conic formulas, mean orbital elements, and their tabular positions as listed in the ephemerides.
2. The launch and target planets are massless. Thus the only force acting on the probe is that of the Sun.
3. The position of the probe at launch into the heliocentric orbit is the center of the massless launch planet. Its position at arrival on the heliocentric orbit is the center of the massless target planet.

Thus for solution to the heliocentric phase of motion, the attractions of the launch and target planets are temporarily disregarded. The primary result to be obtained from the solution of the heliocentric transfer problem is the hyperbolic-excess velocity vector relative to the launch planet.

1. Determination of Planar Orientation

Since the launch and arrival positions of the probe are assumed to be the centers of the launch and target planets, they can immediately be determined, given the launch and arrival[3] times, by consulting the ephemeris. Further, the orientation of the heliocentric transfer plane can immediately be found. Let $\mathbf{R}_L$ be the Sun–launch planet position vector at launch time T_L, and let $\mathbf{R}_p$ be the Sun–target planet position vector at arrival time T_p (Fig. 1). Then, planar orientation is found from the unit normal W to the plane as follows:

$$\mathbf{W} = \frac{\mathbf{R}_L \times \mathbf{R}_p}{R_L R_p \sin \Psi} \tag{1}$$

[2] Hyperbolic heliocentric motion is not considered herein.

[3] Or, for convenience, the launch date and flight time can be specified.

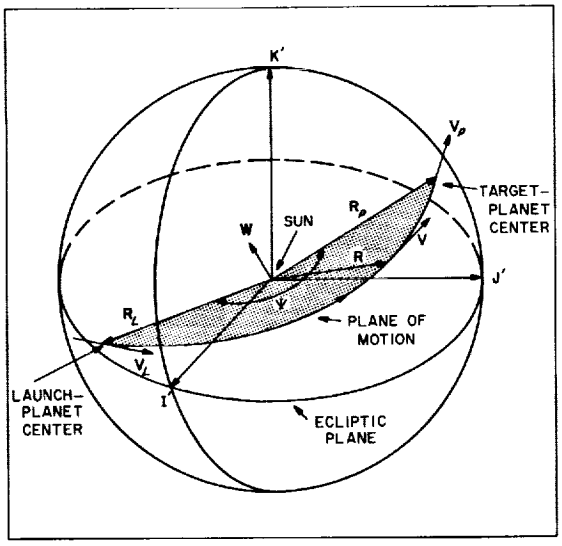


Fig. 1. Heliocentric transfer geometry

where the angle Ψ is defined below. The inclination[4] i to the ecliptic plane can be found by

$$\cos i = \mathbf{W} \cdot \mathbf{K}' \tag{2}$$

where $\mathbf{K}'$ is a unit vector pointing in the direction of the ecliptic north pole.

2. In-Plane Relations

The heliocentric central angle Ψ (Fig. 1) is also readily determined by utilizing the positions of the launch and target planets. This angle may be obtained from

$$\cos \Psi = \frac{\mathbf{R}_L \cdot \mathbf{R}_p}{|\mathbf{R}_L||\mathbf{R}_p|} \tag{3}$$

$$\sin \Psi = \text{sgn}\,[(\mathbf{R}_L \times \mathbf{R}_p) \cdot \mathbf{K}'](1 - \cos^2 \Psi)^{1/2} \tag{4}$$

The velocity vector $\mathbf{V}$ of the spacecraft anywhere along its path may be obtained from

$$\mathbf{V} = \frac{V}{R}[(\mathbf{W} \times \mathbf{R}) \cos \Gamma + \mathbf{R} \sin \Gamma] \tag{5}$$

Here, $\mathbf{R}$ is the heliocentric position vector, $R = |\mathbf{R}|$, and V is the heliocentric speed obtained from

$$V = \sqrt{(GM_S)\left(\frac{2}{R} - \frac{1}{a}\right)} \tag{6}$$

[4] In this report, we are interested only in transfers which have the same rotational motion about the Sun as the planets; thus, $0 \leq i \leq \pi/2$.

and the path angle Γ is found from

$$\sin \Gamma = \left[\sqrt{\frac{R}{(1 - e^2)(2a - R)}}\right] e \sin v \tag{7}$$

In Eq. (6) and (7), GM_S is the universal gravitational constant times the mass of the Sun ($= 2.959122083 \times 10^{-4}$ au^3/day^2), a and e are the semimajor axis and eccentricity of the transfer ellipse, respectively, and v is the true anomaly of the probe given by

$$\cos v = \frac{a(1 - e^2) - R}{eR} \tag{8}$$

3. Lambert's Theorem

Now there are two unknowns in Eq. (5)–(8) which prevent their immediate evaluation. These two unknowns are the semimajor axis a and the eccentricity e. The determination of these quantities is the main problem. Battin (Ref. 5) has shown that the eccentricity is actually a function of the semimajor axis. Thus it is first necessary to determine a. The semimajor axis is related to the time of flight T_F by Lambert's Theorem, which states: *The transfer time between any two points on an ellipse is a function of the sum of the distances of each point from the focus, the distance between the points, and the semimajor axis of the ellipse.* Functionally, the theorem is stated as

$$T_F = T_F(R_L + R_p, C, a) \tag{9}$$

where the distance C between the launch planet at launch time and the target planet at arrival time is shown in Fig. 2 and is obtained from

$$C = |\mathbf{R}_p - \mathbf{R}_L| \tag{10}$$

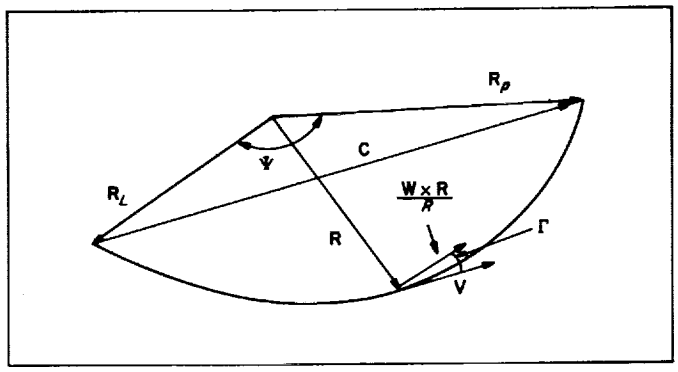


Fig. 2. In-plane transfer geometry

Since the time of flight T_F and the launch and arrival positions R_L and R_p are knowns, only the semimajor axis

remains to be found by iterative solution of Eq. (9). After the semimajor axis a is obtained, the heliocentric velocities of the probe at launch and arrival time $\mathbf{V}_L$ and $\mathbf{V}_p$ may be evaluated from Eq. (5) under the conditions $R = R_L$ and $R = R_p$. The path angles Γ_L, Γ_p and true anomalies[5] v_L, v_p at launch and arrival times may also be evaluated from Eq. (8) and (7) under the same conditions.

Finally, the desired end result, the hyperbolic-excess velocity $\mathbf{V}_{hL}$ relative to the launch planet may be found (Fig. 3) by

$$\mathbf{V}_{hL} = \mathbf{V}_L - \mathbf{V}_1 \tag{11}$$

where $\mathbf{V}_1$ is the velocity of the launch planet at launch time.

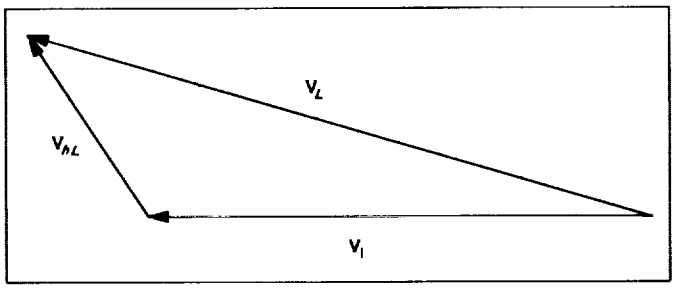


Fig. 3. Determination of the hyperbolic-excess velocity vector $\mathbf{V}_{hL}$

B. Launch Planet Escape Hyperbola

The key result from the solution of heliocentric transfer is the hyperbolic-excess velocity vector $\mathbf{V}_{hL}$ at launch. The reason for the importance of this vector is that it tells the direction in which the probe must be traveling relative to the launch planet when just leaving its gravitational influence. There are an infinite number of escape trajectories (all hyperbolas) which can have the same hyperbolic-excess velocity vector. However, only a portion of these are practical for use when related to existing launch sites and boost vehicle constraints. For example, it would be ridiculously costly in payload–and impractical–to shoot a vehicle straight up. Criteria for selection of a family of feasible escape trajectories are given below.

1. Assumptions

The solution of the escape phase of motion is obtained under the following assumptions: (1) The probe is acted on only by the gravitational force of the launch planet, and (2) the oblateness effects of the launch planet are neglected.

[5] The details of quadrant choice for these angles are found in Ref. 5.

The direction of the asymptote of the escape hyperbola is found by normalizing the hyperbolic-excess vector $\mathbf{V}_{hL}$. The injection energy[6] C_3 of the escape hyperbola is found by squaring the hyperbolic-excess speed, or

$$C_3 = V_{hL}^2 \tag{12}$$

Thus, in contrast to the heliocentric problem, the launch planet is now "massy," while the influence of the Sun is neglected. However, the hyperbolic-excess velocity vectors found by solving the heliocentric problem are used as a starting point to solve the escape problem.

2. Size and Shape of the Escape Hyperbola

As previously stated, only some of the infinite number of escape trajectories are practical. Two of the practical aspects of a set of trajectories are the sizes and shapes of the hyperbolas.

Size is basically determined by the energy C_3, which in turn is a function of boost vehicle capability. For boost vehicles in use (or shortly to be available) at this writing, values of energy less than or equal to 25 km²/sec² are considered reasonable. The larger the value of energy that the booster is required to deliver, the smaller the payload and launch period over which the vehicle may be fired.

The shape of the hyperbola is determined by its eccentricity, which is a function of both the energy and perifocal distance according to

$$e = 1 + \frac{R_p C_3}{GM} \tag{13}$$

where R_p is the perifocal distance and GM is the universal gravitational constant times the mass of the launch planet. From Eq. (13) it can be seen that for a fixed perifocal distance the eccentricity increases linearly with the energy. The value of perifocal distance is not arbitrary, but depends strongly on the boost vehicle trajectory. It has been shown (Ref. 6) that in the great majority of cases it is necessary and desirable to use a circular parking orbit as part of the preinjection phase of the escape trajectory. It is further an interesting fact that the altitude of the parking orbit determines the perifocal distance. If h is the parking orbit altitude and R_0 is the launch planet's radius, then, to an extremely close degree of approximation,

$$R_p = R_0 + h \tag{14}$$

[6] C_3 is actually twice the total energy per unit mass, i.e., the *vis viva* integral.

or the perifocal distance is equal to the launch-planet-centered radius of the parking orbit. In Ref. 6 it also has been shown that the lowest possible parking orbit (80–100 nm) allows greatest payload capability. Thus, using 100 nm for the parking orbit altitude, a practical value of perifocal distance is 6560 km. The perifocal distance will vary only slightly about this value for other parking orbit altitudes, or even for direct-ascent-type preinjection trajectories. Therefore, *both* the size and shape are essentially determined by the energy alone, which is found from Eq. (12).

Given the size and shape of the escape hyperbola, its planar orientation must be determined, and this can be done by considering two vectors: (1) the direction of the hyperbolic-excess vector, denoted by a unit vector **S**, and (2) a unit vector $\mathbf{R}_L^1$ directed from the center of the launch planet to the launch site. The vehicle's flight plane will essentially be determined by these two vectors, as shown in Fig. 4. A unit normal **W** to the launch-planet-centered flight plane is determined by

$$\mathbf{W} = \frac{\mathbf{R}_L^1 \times \mathbf{S}}{|\mathbf{R}_L^1 \times \mathbf{S}|} \tag{15}$$

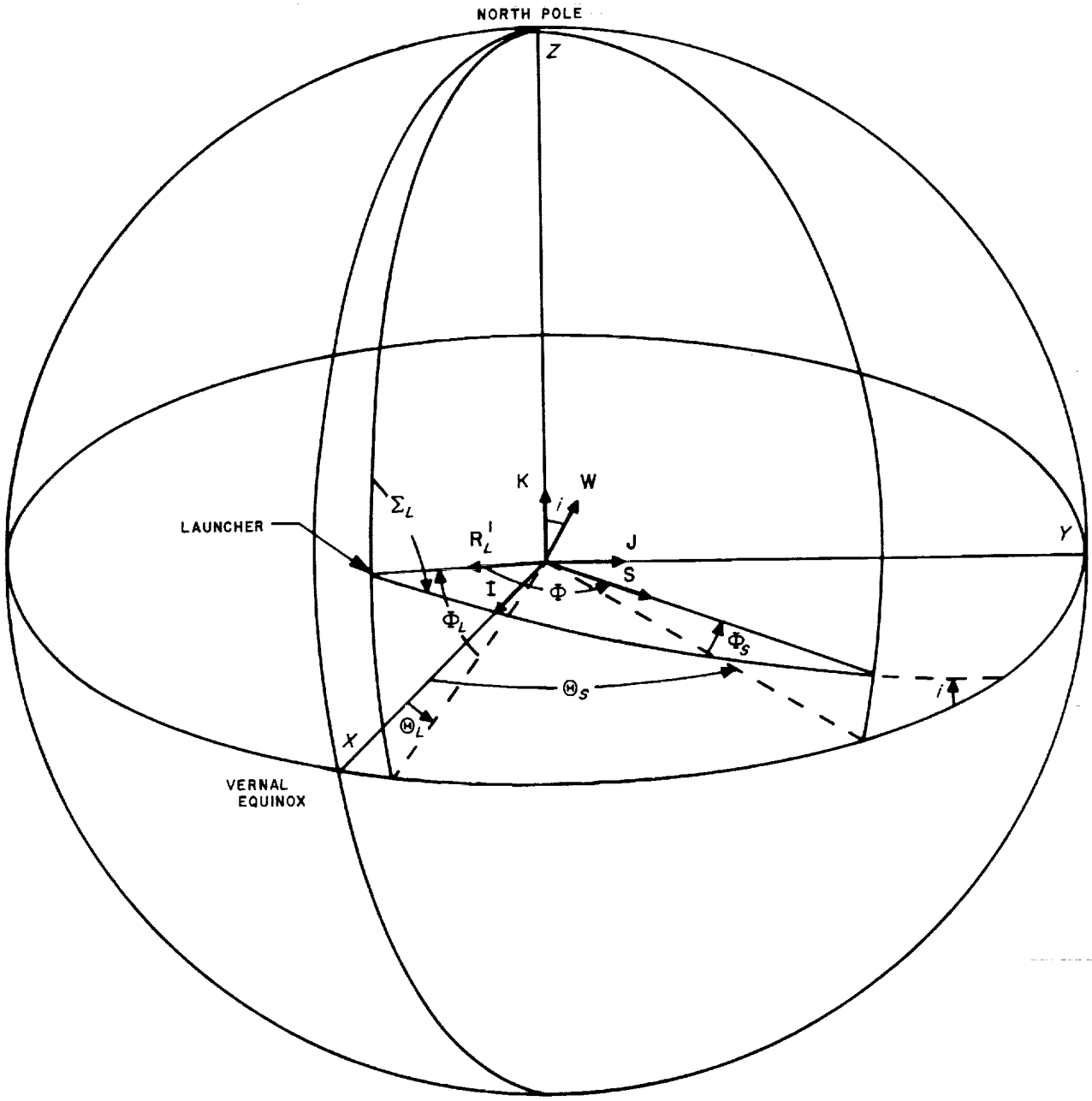


Fig. 4. Vehicle flight plane

quantities obtained from the conic trajectory. The basic idea is to compute a varied or perturbed trajectory and then difference it with the reference case. Let primed quantities denote variables on the perturbed trajectory. A small variation $\Delta \mathbf{V}_{hL}$ in the hyperbolic-excess velocity vector is equivalent to a small variation $\Delta \mathbf{V}_L$ in the launch heliocentric velocity vector. The launch heliocentric velocity on the perturbed trajectory is, then,

$$\mathbf{V}'_L = \mathbf{V}_L + \Delta \mathbf{V}_{hL} \tag{19}$$

where

$$\Delta \mathbf{V}_{hL} = (C_3)^{1/2} \Delta\Phi_S \left[-\sin \Phi_S \cos \Theta_S, -\sin \Phi_S \sin \Theta_S, \cos \Phi_S \right],$$

$$(C_3)^{1/2} \Delta\Theta_S \left[-\cos \Phi_S \sin \Theta_S, \cos \Phi_S \cos \Theta_S, 0 \right],$$

$$\frac{-\Delta C_3}{2 (C_3)^{1/2}} \left[\cos \Phi_S \cos \Theta_S, \cos \Phi_S \sin \Theta_S, \sin \Phi_S \right]$$

where $\Delta\Phi_S, \Delta\Theta_S$ are small angular variations (0.2 deg), and the energy variation is $\Delta C_3 = 0.005\, C_3$.

The semimajor axis a' is obtained from

$$a' = \frac{R_L}{2 - \dfrac{V'^2_L R_L}{GM_S}} \tag{20}$$

The radial rate $\dot{R}_L'$ is

$$\dot{R}'_L = \frac{\mathbf{V}'_L \cdot \mathbf{R}_L}{R_L} \tag{21}$$

The semilatus rectum p' and eccentricity e' are

$$p' = \frac{R_L^2 (V'^2_L - \dot{R}'^2_L)}{GM_S} \tag{22}$$

$$e' = \left(1 - \frac{p'}{a'}\right)^{1/2} \tag{23}$$

The eccentric anomaly at launch E'_L is

$$\sin E'_L = \frac{R_L \dot{R}'_L}{e' (a' G M_S)^{1/2}}$$

$$\cos E'_L = \frac{1}{e'}\left(1 - \frac{R_L}{a'}\right) \tag{24}$$

The mean anomaly at launch M'_L is obtained from

$$M'_L = E'_L - e' \sin E'_L \tag{25}$$

The mean orbital rate n' is

$$n' = \frac{(GM_S)^{1/2}}{a'^{3/2}} \tag{26}$$

The mean anomaly at the target M'_p is

$$M'_p = n' T_F + M'_L \tag{27}$$

The eccentric anomaly at the target E'_p is obtained from the expansion

$$E'_p = E_p + \left(\frac{1}{1 - e' \cos E_p}\right) \Delta M - \frac{1}{2}\left[\frac{e' \sin E_p}{(1 - e' \cos E_p)^3}\right] \Delta M^2 + \frac{1}{6}\left[\frac{3 e' \sin E_p)^2 - (1 - e' \cos E_p)(e' \cos E_p)}{(1 - e' \cos E_p)^5}\right] \Delta M^3 \tag{28}$$

if

$$\cos E_p \geqq 0$$

or

$$E'_p = E_p + \frac{e \cos E_p - 1 + \sqrt{(e \cos E_p - 1)^2 + (2e \sin E_p)\, \Delta M}}{e \sin E_p} \tag{29}$$

if

$$\cos E_p < 0$$

where

$$\Delta M = M'_p - (E_p - e' \sin E_p)$$

The true anomalies at launch and the target v'_L and v'_p are found from

$$\cos v'_L = \frac{p' - R_L}{e' R_L} \tag{30}$$

$0 < v'_L < \pi$ if $\dot{R}'_L$ is positive

$\pi < v'_L < 2\pi$ if $\dot{R}'_L$ is negative

$$\cos v'_p = \frac{\cos E'_p - e'}{1 - e' \cos E'_p}$$

$$\sin v'_p = \frac{(1 - e'^2)^{1/2} \sin E'_p}{1 - e' \cos E'_p} \tag{31}$$

The heliocentric central angle Ψ' is

$$\Psi' = v'_p - v'_L \tag{32}$$

The angular momentum $\mathbf{h}'$ is

$$\mathbf{h}' = \mathbf{R}_L \times \mathbf{V}'_L \tag{33}$$

with the constraint that the Z component of **W** is always positive.

Since $\mathbf{R}_L^1$ is a function of time, according to the rotation rate of the launch planet, the planar orientation must continually change. In effect, this says that the launch azimuth is a continuous function of launch time.

A detailed description of the geometrical aspects of the launch planet ascent trajectory is not given here but may be found in Ref. 6.

C. Differential Corrections

The calculation of differential corrections for interplanetary trajectories may be accomplished in several ways and depends on choice of independent and dependent variables. In this report, a numerical differencing scheme is used. Basically, the independent variables—the injection energy C_3, declination Φ_S, and right ascension Θ_S of the outgoing asymptote **S** of the escape hyperbola—are varied, one at a time, to produce variations in the dependent variables—the components of the impact parameter **B** and the time-of-flight T_F.

The impact parameter **B** is defined as a vector originating at the center of the target planet and directed perpendicular to the incoming asymptote of the target-centered approach hyperbola (Fig. 5). The impact parameter **B** is resolved into two components which lie in a plane normal to the incoming asymptote **S**. The orientations of the reference axes in this plane are arbitrary, but one is usually selected to lie in a fixed plane. Thus, define a unit vector **T**, lying in the *ecliptic* plane according to

$$\mathbf{T} = \frac{\mathbf{S} \times \mathbf{K}'}{|\mathbf{S} \times \mathbf{K}'|} \tag{16}$$

where **K′** is a unit normal vector to the ecliptic plane. The remaining axis is then given by a unit vector **R**, defined by

$$\mathbf{R} = \mathbf{S} \times \mathbf{T} \tag{17}$$

Figure 6 illustrates the orientation of the **R**, **S**, **T** target coordinates.

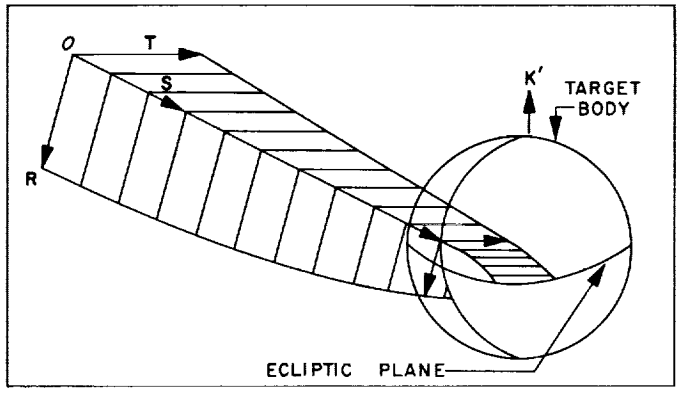


Fig. 6. The R, S, T target coordinate system

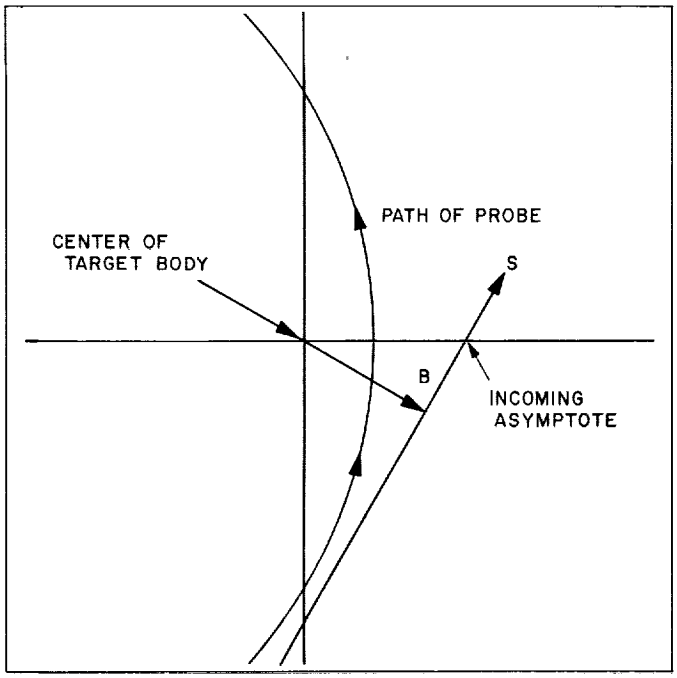


Fig. 5. Impact parameter B

The impact parameter **B** lies in the **R**–**T** plane and has miss components $\mathbf{B}\cdot\mathbf{T}$ and $\mathbf{B}\cdot\mathbf{R}$. $\mathbf{B}\cdot\mathbf{T} = \mathbf{B}\cdot\mathbf{R} = 0$ denotes vertical impact on the target. Thus, $\mathbf{B}\cdot\mathbf{T}$, $\mathbf{B}\cdot\mathbf{R}$, and T_F are the three target-dependent variables. If Q_i represents a set of generalized independent variables, such as injection position and velocity or other convenient variables, then the partial derivatives $\partial\mathbf{B}\cdot\mathbf{T}/\partial Q_i$, $\partial\mathbf{B}\cdot\mathbf{R}/\partial Q_i$, $\partial T_F/\partial Q_i$ are first-order differential corrections or error coefficients relating miss at the target and flight time errors to the independent variables.

A convenient set of independent variables for interplanetary trajectories is the *vis viva* injection energy C_3, the declination Φ_S, and the right ascension Θ_S of the asymptote of the escape hyperbola. These variables essentially describe the launch hyperbolic-excess velocity vector since

$$\mathbf{V}_{hL} = (C_3)^{1/2}(\cos\Phi_S \cos\Theta_S,\ \cos\Phi_S \sin\Theta_S,\ \sin\Phi_S) \tag{18}$$

As stated above, the differential corrections are calculated by a numerical differencing method which uses

The heliocentric position vector at the target is

$$\mathbf{R}'_p = R'_p\left(\frac{\mathbf{R}_L}{R_L}\cos\Psi' + \frac{\mathbf{h}'\times\mathbf{R}_L}{h'R_L}\sin\Psi'\right) \tag{34}$$

where

$$R'_p = a'(1 - e'\cos E'_p) \tag{35}$$

A vector in the direction of perihelion with magnitude e' is

$$\boldsymbol{\varepsilon}' = \frac{\mathbf{V}'_L\times\mathbf{h}'}{GM_S} - \frac{\mathbf{R}_L}{R_L} \tag{36}$$

The heliocentric velocity at the target is

$$\mathbf{V}'_p = \frac{\mathbf{h}'}{p'}\times\left(\frac{\mathbf{R}'_p}{R_p} + \boldsymbol{\varepsilon}'\right) \tag{37}$$

The hyperbolic-excess velocity at the target is

$$\mathbf{V}'_{hp} = \mathbf{V}'_p - \mathbf{V}_2 \tag{38}$$

The difference between the heliocentric position vectors on the perturbed and reference trajectories is

$$\Delta\mathbf{R}'_p = \mathbf{R}'_p - \mathbf{R}_p \tag{39}$$

The impact parameter **B** is

$$\mathbf{B} = -\frac{(\Delta\mathbf{R}'_p\cdot\mathbf{V}'_{hp})\,\mathbf{V}'_{hp}}{V'^2_{hp}} + \Delta\mathbf{R}'_p$$

The flight time error is

$$\Delta T_F = \frac{\Delta\mathbf{R}'_p\cdot\mathbf{V}'_{hp}}{V'^2_{hp}} \tag{40}$$

The partial derivatives are formed by dividing $\Delta\Theta_S$, $\Delta\Phi_S$, and ΔC_3 into the miss components $\mathbf{B}\cdot\mathbf{T}$, $\mathbf{B}\cdot\mathbf{R}$, and flight time error ΔT_F. In addition to the component partials, the quantity $\partial B/\partial Q_i$ is defined by

$$\frac{\partial B}{\partial Q_i} = \left[\left(\frac{\partial\mathbf{B}\cdot\mathbf{T}}{\partial Q_i}\right)^2 + \left(\frac{\partial\mathbf{B}\cdot\mathbf{R}}{\partial Q_i}\right)^2\right]^{1/2} \tag{41}$$

The three partials, $\partial B/\partial\Theta_S$, $\partial B/\partial\Phi_S$, $\partial B/\partial C_3$, are important measures of the error sensitivity of a trajectory.

The effect of uncertainty in the knowledge of the astronomical unit-to-kilometer conversion factor on target miss and flight time may be determined by the following formulae,

$$\begin{aligned}\frac{\partial\mathbf{B}\cdot\mathbf{T}}{\partial au} &= \frac{-2C_3}{au}\frac{\partial\mathbf{B}\cdot\mathbf{T}}{\partial C_3}\\ \frac{\partial\mathbf{B}\cdot\mathbf{R}}{\partial au} &= \frac{-2C_3}{au}\frac{\partial\mathbf{B}\cdot\mathbf{R}}{\partial C_3}\end{aligned} \tag{42}$$

from whence

$$\frac{\partial B}{\partial au} = \frac{2C_3}{au}\frac{\partial B}{\partial C_3} \tag{43}$$

and

$$\frac{\partial T_F}{\partial au} = \frac{-2C_3}{au}\frac{\partial T_F}{\partial C_3} \tag{44}$$

where au is the astronomical unit-to-kilometer conversion factor.

The effect of solar radiation pressure acting on the probe may also be evaluated as follows: In Eq. (19) let $\Delta\mathbf{V}_{hL} = 0$, but in Eq. (20), (22), (24), (26), (36), vary GM_S by adding an increment ΔGM_S. This procedure gives rise to a varied trajectory from which the impact parameter **B** and flight time error ΔT_F may be obtained. The partials $\partial B/\partial GM_S$ and $\partial T_F/\partial GM_S$ may then be calculated. Since the acceleration caused by solar radiation pressure acts opposite to the gravitational attraction of the Sun, radiation pressure has the effect of decreasing the Sun's gravitational attraction, or decreasing GM_S. A decrease, $\Delta GM_S = -2.4\times10^6\ \mathrm{km^3/sec^2}$ corresponds to the solar radiation pressure acting on a 300-kg spacecraft having a perfectly reflecting area of 3.6 square meters. Thus the miss, always being a positive number, is obtained by $\Delta B_{sp} = 2.4\times10^6\,\partial B/\partial GM_S$, and the corresponding flight time error is $\Delta T_{F_{sp}} = -2.4\times10^6\,\partial T_F/\partial GM_S$, which is sign sensitive.

D. Mid-Course Execution Accuracy

The effect of mid-course execution errors on target accuracy can be rather simply described if it is assumed that the guidance maneuver is made on the asymptote of the escape hyperbola and that the velocity errors are spherically distributed (that is, the three-dimensional statistical distribution of velocity errors is composed of three orthogonal, independent velocity errors, each with the same variance). The mapping of these errors to the target (Fig. 7) results in a three-dimensional ellipsoid of position errors, which is the "one-sigma ellipsoid." The semiaxes are the respective standard deviations of the position errors. As pointed out above, this ellipsoid can be thought of as the locus of target errors that results from a unit velocity error at the mid-course point tracing out a sphere.

Let the differential corrections discussed above be expressed in matrix form as

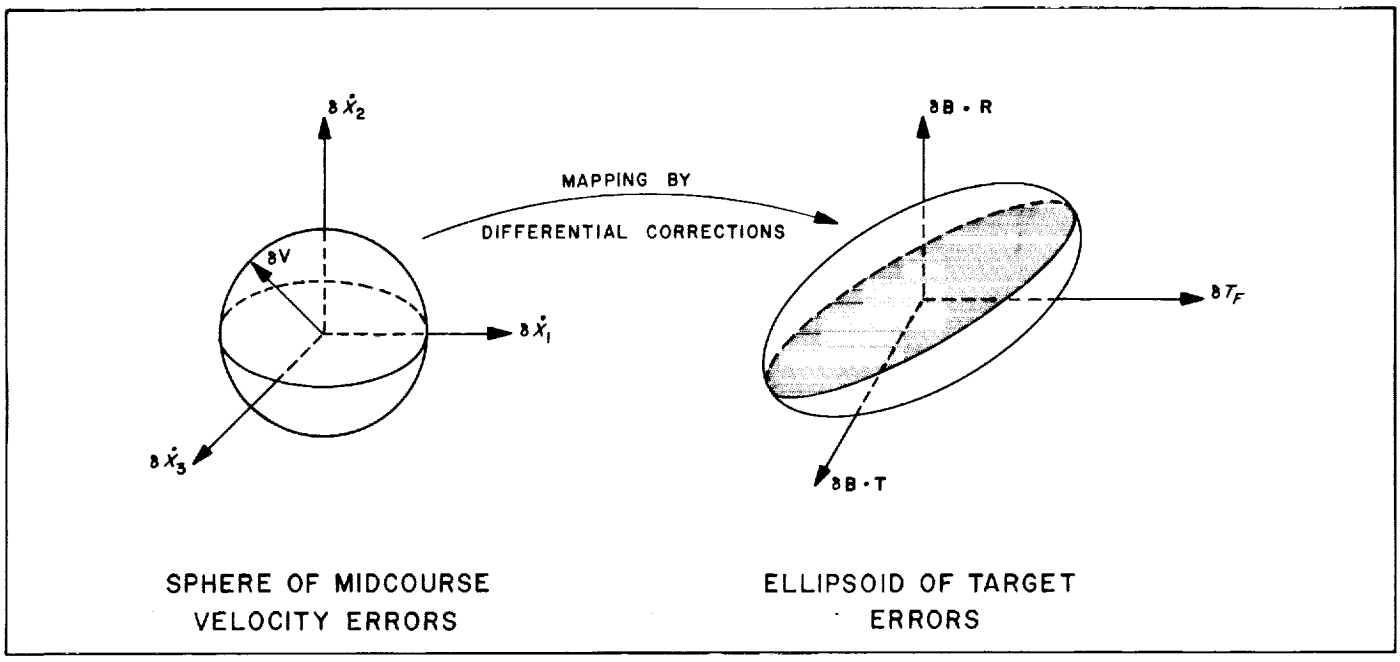


Fig. 7. The mapping of mid-course execution error

$$K = \begin{bmatrix} \frac{\partial \mathbf{B}\cdot\mathbf{T}}{\partial \Phi_S} & \frac{\partial \mathbf{B}\cdot\mathbf{T}}{\partial \Theta_S} & \frac{\partial \mathbf{B}\cdot\mathbf{T}}{\partial C_3} \\ \frac{\partial \mathbf{B}\cdot\mathbf{R}}{\partial \Phi_S} & \frac{\partial \mathbf{B}\cdot\mathbf{R}}{\partial \Theta_S} & \frac{\partial \mathbf{B}\cdot\mathbf{R}}{\partial C_3} \\ \frac{\partial T_F}{\partial \Phi_S} & \frac{\partial T_F}{\partial \Theta_S} & \frac{\partial T_F}{\partial C_3} \end{bmatrix} \tag{45}$$

Now define a Cartesian coordinate system X_1, X_2, X_3 such that

$$\left.\begin{aligned} \delta\dot{X}_1 &= V_{hL}\delta\Phi_S \\ \delta\dot{X}_2 &= -\left(V_{hL}\cos\Phi_S\right)\delta\Theta_S \\ \delta\dot{X}_3 &= \delta V_{hL} = \frac{\delta C_3}{2V_{hL}} \end{aligned}\right\} \tag{46}$$

Then a new matrix F can be formed,

$$F = \begin{bmatrix} \frac{\partial \mathbf{B}\cdot\mathbf{T}}{\partial \dot{X}_1} & \frac{\partial \mathbf{B}\cdot\mathbf{T}}{\partial \dot{X}_2} & \frac{\partial \mathbf{B}\cdot\mathbf{T}}{\partial \dot{X}_3} \\ \frac{\partial \mathbf{B}\cdot\mathbf{R}}{\partial \dot{X}_1} & \frac{\partial \mathbf{B}\cdot\mathbf{R}}{\partial \dot{X}_2} & \frac{\partial \mathbf{B}\cdot\mathbf{R}}{\partial \dot{X}_3} \\ \frac{\partial T_F}{\partial \dot{X}_1} & \frac{\partial T_F}{\partial \dot{X}_2} & \frac{\partial T_F}{\partial \dot{X}_3} \end{bmatrix} \tag{47}$$

where

$$\left.\begin{aligned} \frac{\partial \mathbf{B}\cdot\mathbf{T}}{\partial \dot{X}_1} &= \frac{1}{V_{hL}}\frac{\partial \mathbf{B}\cdot\mathbf{T}}{\partial \Phi_S} \\ \frac{\partial \mathbf{B}\cdot\mathbf{T}}{\partial \dot{X}_2} &= \frac{-1}{V_{hL}\cos\Phi_S}\frac{\partial \mathbf{B}\cdot\mathbf{T}}{\partial \Theta_S} \\ \frac{\partial \mathbf{B}\cdot\mathbf{T}}{\partial \dot{X}_3} &= 2V_{hL}\frac{\partial \mathbf{B}\cdot\mathbf{T}}{\partial C_3} \\ \frac{\partial \mathbf{B}\cdot\mathbf{R}}{\partial \dot{X}_1} &= \frac{1}{V_{hL}}\frac{\partial \mathbf{B}\cdot\mathbf{R}}{\partial \Phi_S} \\ \frac{\partial \mathbf{B}\cdot\mathbf{R}}{\partial \dot{X}_2} &= \frac{-1}{V_{hL}\cos\Phi_S}\frac{\partial \mathbf{B}\cdot\mathbf{R}}{\partial \Theta_S} \\ \frac{\partial \mathbf{B}\cdot\mathbf{R}}{\partial \dot{X}_3} &= 2V_{hL}\frac{\partial \mathbf{B}\cdot\mathbf{R}}{\partial C_3} \\ \frac{\partial T_F}{\partial \dot{X}_1} &= \frac{1}{V_{hL}}\frac{\partial T_F}{\partial \Phi_S} \\ \frac{\partial T_F}{\partial \dot{X}_2} &= \frac{-1}{V_{hL}\cos\Phi_S}\frac{\partial T_F}{\partial \Theta_S} \\ \frac{\partial T_F}{\partial \dot{X}_3} &= 2V_{hL}\frac{\partial T_F}{\partial C_3} \end{aligned}\right\} \tag{48}$$

Let the spherical distribution of midcourse velocity errors be described in the X_1, X_2, X_3 system as

$$\delta\dot{X}_1^2 + \delta\dot{X}_2^2 + \delta\dot{X}_3^2 = \sigma_v^2 \tag{49}$$

where σ_v will be taken equal to 0.1 meters/sec. The resultant one-sigma ellipsoid of target errors is described by the quadratic form,

$$\delta\mathbf{M}\,\Lambda^{-1}\,\delta\mathbf{M}^T = 1 \tag{50}$$

where

$$\Lambda = \sigma_v^2 FF^T = \begin{bmatrix} \lambda_{11} & \lambda_{12} & \lambda_{13} \\ & \lambda_{22} & \lambda_{23} \\ \text{symmetric} & & \lambda_{33} \end{bmatrix} \tag{51}$$

and

$$\delta\mathbf{M} = (\delta\mathbf{B}\cdot\mathbf{T},\ \delta\mathbf{B}\cdot\mathbf{R},\ \delta T_F)$$

The elements of the Λ matrix are:

$$\begin{aligned}
\lambda_{11} &= \sigma_v^2\left[\frac{1}{C_3}\left(\frac{\partial\mathbf{B}\cdot\mathbf{T}}{\partial\Phi_S}\right)^2 + \frac{1}{C_3\cos^2\Phi_S}\left(\frac{\partial\mathbf{B}\cdot\mathbf{T}}{\partial\Theta_S}\right)^2 + 4C_3\left(\frac{\partial\mathbf{B}\cdot\mathbf{T}}{\partial C_3}\right)^2\right] \\
\lambda_{12} &= \sigma_v^2\left[\frac{1}{C_3}\left(\frac{\partial\mathbf{B}\cdot\mathbf{T}}{\partial\Phi_S}\right)\left(\frac{\partial\mathbf{B}\cdot\mathbf{R}}{\partial\Phi_S}\right) + \frac{1}{C_3\cos^2\Phi_S}\left(\frac{\partial\mathbf{B}\cdot\mathbf{T}}{\partial\Theta_S}\right)\times\left(\frac{\partial\mathbf{B}\cdot\mathbf{R}}{\partial\Theta_S}\right) + 4C_3\left(\frac{\partial\mathbf{B}\cdot\mathbf{T}}{\partial C_3}\right)\left(\frac{\partial\mathbf{B}\cdot\mathbf{R}}{\partial C_3}\right)\right] \\
\lambda_{13} &= \sigma_v^2\left[\frac{1}{C_3}\left(\frac{\partial\mathbf{B}\cdot\mathbf{T}}{\partial\Phi_S}\right)\left(\frac{\partial T_F}{\partial\Phi_S}\right) + \frac{1}{C_3\cos^2\Phi_S}\left(\frac{\partial\mathbf{B}\cdot\mathbf{T}}{\partial\Theta_S}\right)\left(\frac{\partial T_F}{\partial\Theta_S}\right) + 4C_3\left(\frac{\partial\mathbf{B}\cdot\mathbf{T}}{\partial C_3}\right)\left(\frac{\partial T_F}{\partial C_3}\right)\right] \\
\lambda_{22} &= \sigma_v^2\left[\frac{1}{C_3}\left(\frac{\partial\mathbf{B}\cdot\mathbf{R}}{\partial\Phi_S}\right)^2 + \frac{1}{C_3\cos^2\Phi_S}\left(\frac{\partial\mathbf{B}\cdot\mathbf{R}}{\partial\Theta_S}\right)^2 + 4C_3\left(\frac{\partial\mathbf{B}\cdot\mathbf{R}}{\partial C_3}\right)^2\right] \\
\lambda_{23} &= \sigma_v^2\left[\frac{1}{C_3}\left(\frac{\partial\mathbf{B}\cdot\mathbf{R}}{\partial\Phi_S}\right)\left(\frac{\partial T_F}{\partial\Phi_S}\right) + \frac{1}{C_3\cos^2\Phi_S}\left(\frac{\partial\mathbf{B}\cdot\mathbf{R}}{\partial\Theta_S}\right)\left(\frac{\partial T_F}{\partial\Theta_S}\right) + 4C_3\left(\frac{\partial\mathbf{B}\cdot\mathbf{R}}{\partial C_3}\right)\left(\frac{\partial T_F}{\partial C_3}\right)\right] \\
\lambda_{33} &= \sigma_v^2\left[\frac{1}{C_3}\left(\frac{\partial T_F}{\partial\Phi_S}\right)^2 + \frac{1}{C_3\cos^2\Phi_S}\left(\frac{\partial T_F}{\partial\Theta_S}\right)^2 + 4C_3\left(\frac{\partial T_F}{\partial C_3}\right)^2\right]
\end{aligned} \tag{52}$$

The quantities in the Λ matrix can be interpreted as standard deviations (sigmas) and correlation coefficients (rhos) according to

$$\left.\begin{aligned}
\sigma_T &= (\lambda_{11})^{1/2} \\
\sigma_R &= (\lambda_{22})^{1/2} \\
\sigma_F &= (\lambda_{33})^{1/2} \\
\rho_{RT} &= \frac{\lambda_{12}}{(\lambda_{11}\lambda_{22})^{1/2}} \\
\rho_{TF} &= \frac{\lambda_{13}}{(\lambda_{11}\lambda_{33})^{1/2}} \\
\rho_{RF} &= \frac{\lambda_{23}}{(\lambda_{22}\lambda_{33})^{1/2}}
\end{aligned}\right\} \tag{53}$$

Then the Λ matrix becomes

$$\Lambda = \begin{bmatrix} \sigma_T^2 & \rho_{RT}\,\sigma_R\,\sigma_T & \rho_{TF}\,\sigma_F\,\sigma_T \\ & \sigma_R^2 & \rho_{RF}\,\sigma_R\,\sigma_F \\ \text{symmetric} & & \sigma_F^2 \end{bmatrix} \tag{54}$$

It is often of interest when describing only miss components to consider

$$\sigma_B = (\sigma_R^2 + \sigma_T^2)^{1/2} \tag{55}$$

and to diagonalize the upper 2×2 portion of the Λ (the miss component elements) to get

$$\Lambda^* = L\Lambda L^T = \begin{bmatrix} \sigma_1^2 & 0 & \rho_{13}\,\sigma_1\,\sigma_3 \\ & \sigma_2^2 & \rho_{23}\,\sigma_2\,\sigma_3 \\ \text{symmetric} & & \sigma_3^2 \end{bmatrix} \tag{56}$$

where the matrix L is given by

$$L = \begin{bmatrix} \cos\theta & \sin\theta & 0 \\ -\sin\theta & \cos\theta & 0 \\ 0 & 0 & 1 \end{bmatrix} \tag{57}$$

The angle θ is positive when turned counterclockwise from the T axis, and has been chosen such that $\sigma_1 \geqq \sigma_2$. This is accomplished by

$$\theta = \frac{1}{2}\tan^{-1}\left[\frac{2\rho_{RT}}{\left(\frac{\sigma_T}{\sigma_R}\right) - \left(\frac{\sigma_R}{\sigma_T}\right)}\right] \tag{58}$$

where θ is in first quadrant if ρ_{RT} is positive and θ is in second quadrant if ρ_{RT} is negative. Notice that $\sigma_3 = \sigma_F$. The two-dimensional error ellipse described by σ_1, σ_2, and θ is the projection of all points of the three-dimensional ellipsoid of position errors (discussed in Section IIE) onto the T–R plane, as shown in Fig. 8.

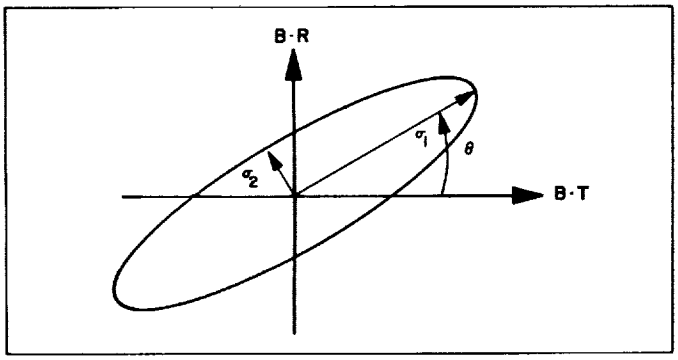


Fig. 8. Projection of three-dimensional error ellipsoid on the T-R plane

E. Orbit Determination Accuracy

In this section the analytic model used for describing orbit determination accuracy (tracking error) for interplanetary trajectories is discussed, and the factors upon which the tracking error depends are reviewed. The dominant error sources are defined for the easterly launchings from Cape Canaveral using tracking coverage supplied by NASA's Deep Space Instrumentation Facility (DSIF). Probable generalization to other situations is suggested. Finally, the method of describing target errors is presented along with all formulae relating the tracking errors to the target error parameters chosen.

1. Method of Describing Orbit Determination Accuracy

As discussed in Section IID, the uncertainties in our knowledge of an interplanetary trajectory are well described in terms of the direction and magnitude of the geocentric hyperbolic-excess velocity vector, $\mathbf{V}_{hL}$. Figure 9 defines the right-handed Cartesian coordinate system we have adopted for describing uncertainties in $\mathbf{V}_{hL}$. The X_3 axis is along $\mathbf{V}_{hL}$; the X_1 axis is in the direction of a positive differential change in asymptote declination Φ_S; and the X_2 axis completes the system.

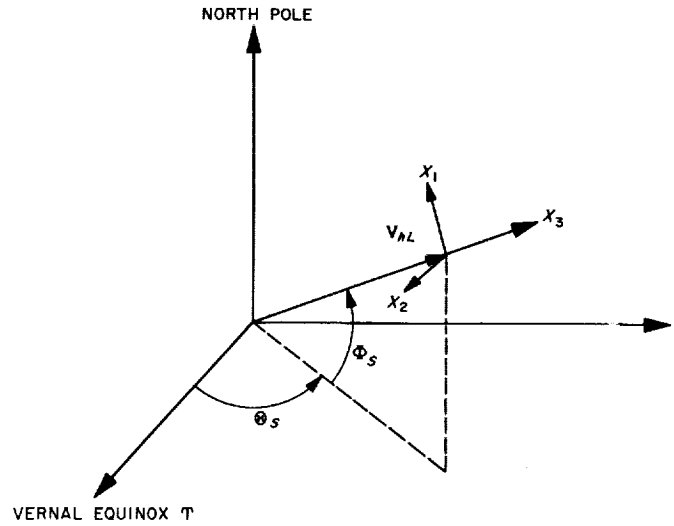


Fig. 9. Orientation of the X_i Cartesian coordinate system to describe uncertainties in the hyperbolic-excess velocity vector $\mathbf{V}_{hL}$

Let $\dot{\mathbf{X}}$ represent the vector of velocity *errors* in the X_i system just described; $\dot{\mathbf{X}} = (\delta\dot{X}_1, \delta\dot{X}_2, \delta\dot{X}_3)^T$, where T indicates the transpose. The average of any function of $\dot{\mathbf{X}}$, $f(\dot{\mathbf{X}})$, over an *ensemble* of randomly generated tracking runs may assist in describing our statistical knowledge of $\dot{\mathbf{X}}$ based on tracking noise, station location, and physical constant uncertainties. The ensemble average is usually written $Ef(\dot{\mathbf{X}})$ or as $\tilde{f}(\dot{\mathbf{X}})$. When $\dot{\mathbf{X}}$ has a Gaussian (normal) probability density function, the distribution can be described completely by specifying $E\dot{\mathbf{X}}$ and $E[(\dot{\mathbf{X}} - \tilde{\dot{\mathbf{X}}})(\dot{\mathbf{X}} - \tilde{\dot{\mathbf{X}}})^T]$, the mean and covariance of $\dot{\mathbf{X}}$, respectively.

When all parameters influencing our knowledge of $\dot{\mathbf{X}}$ have been considered, $E\dot{\mathbf{X}}$ should be zero and then the description of our uncertainties in $\dot{\mathbf{X}}$ can be adequately given by Covar $\dot{\mathbf{X}}$, defined above. For convenience, the symbol $\Lambda_{\dot{\mathbf{X}}}$, for Covar $\dot{\mathbf{X}}$, is introduced.

$$\Lambda_{\dot{\mathbf{X}}} = \text{Covar}\,\dot{\mathbf{X}} = E\left[(\dot{\mathbf{X}} - \tilde{\dot{\mathbf{X}}})(\dot{\mathbf{X}} - \tilde{\dot{\mathbf{X}}})^T\right] \tag{59}$$

Note that

$$\Lambda_{\dot{X}} = \begin{pmatrix} \overbrace{\delta\dot{X}_1\delta\dot{X}_1} & \overbrace{\delta\dot{X}_1\delta\dot{X}_2} & \overbrace{\delta\dot{X}_1\delta\dot{X}_3} \\ \overbrace{\delta\dot{X}_2\delta\dot{X}_1} & \overbrace{\delta\dot{X}_2\delta\dot{X}_2} & \overbrace{\delta\dot{X}_2\delta\dot{X}_3} \\ \overbrace{\delta\dot{X}_3\delta\dot{X}_1} & \overbrace{\delta\dot{X}_3\delta\dot{X}_2} & \overbrace{\delta\dot{X}_3\delta\dot{X}_3} \end{pmatrix} \qquad (60)$$

is a 3×3 real symmetric matrix. The diagonal terms are the variances of the three components, and the off-diagonal terms measure the correlation between the three components.

Before describing how $\Lambda_{\dot{X}}$ has been "mapped" into target error uncertainties, a discussion is given of the dependence of $\Lambda_{\dot{X}}$ upon the relevant factors describing near-Earth tracking as well as the typical errors assumed in preparing the estimates given in this report.

2. Accuracy of Near-Earth Tracking

By expressing the accuracy of near-Earth tracking in terms of $\dot{\mathbf{X}}$ and its associated covariance $\Lambda_{\dot{X}}$, the dependence upon almost all trajectory parameters has been eliminated. The remaining relevant trajectory parameters are listed in Table 1.

Table 1. Trajectory parameters influencing tracking accuracy

1. Launch site	
2. Launch azimuth Σ_L	Depends on launch time.
3. Injection region	Depends on time in parking orbit; short or long coast less than 1 revolution is current practice.
4. Declination of V_{hL}, Φ_S	Depends on target position at arrival date and injection energy, C_3.
5. Magnitude of $V_{hL} = V_{hL} = (C_3)^{1/2}$	

Note the limited number of trajectory parameters on which $\Lambda_{\dot{X}}$ depends. Table 2 summarizes the key tracking station parameters which influence accuracy in the geocentric tracking phase.

The first three factors listed in Table 2 define the tracking configuration, whereas the last three are station performance factors. Usually, tracking accuracy studies are carried out with the tracking configuration relatively fixed, and the influence of the station performance factors are determined.

The final source of tracking error is uncertainty in physical constants. The influence of GM–Earth errors is somewhat smaller than the above-mentioned errors and should be reduced to negligible contribution in the next two years. Sections IIC and IIIC describe how the uncertainty in the astronomical unit affects the target error; this error

Table 2. Tracking station parameters influencing tracking accuracy

1. Station locations	A spread of latitudes is very desirable.
2. Total tracking time	
3. Tracking data types	Range R, range rate $\dot{R}$, and angles are most commonly taken.
4. Delay in acquiring first data	Delay is measured from the injection region as well as station acquisition delays.
5. Tracking data accuracies	Expressed in terms of equivalent uncorrelated noise at a given sampling rate.
6. Uncertainty in tracking station locations	Important when high data accuracies are available. Longitude errors usually are most important.

can be important for very long flights, but should also be reduced to a negligible contribution in the next two years. Errors in the target's mass cause minor variations in flight time T_F and negligible effect on **B**. The last important target error source currently recognized is the uncertainty in the effect of the standard solar radiation pressure on spacecraft trajectory. The source of uncertainty is that effective reflecting area (largely solar panels) is not perfectly known. Techniques for the accurate measurement of this quantity are currently under development. Our studies show that unless this error is held below 5% it will be the dominant error source on many of our flights. Sections IIC and IIIC describe the calculation of the standard solar radiation pressure on a typical spacecraft deriving electrical power from the Sun.

The tracking accuracies reported here are representative of those available from tracking with the DSIF stations in South Africa, Australia, and the United States. Launch azimuths between 90 and 114 deg east of north were considered. Data accuracies of 0.02 m/sec in $\dot{R}$ and 0.05 deg in angle sampled every 10 minutes were assumed; no range measurements were assumed. Station location errors were assumed to be uncorrelated with standard deviations of 0.001 deg in latitude, 0.0005 deg in longitude, and 30 meters in radius. Each station was allowed 10 minutes to acquire the spacecraft transponder, and tracking was simulated in the first 24 hours so that at least one pass was available to each station. The transfer of transmitting assignment from one station to another (simultaneous transmission was not allowed) followed a pattern which has been found to be near-optimum.

The $\Lambda_{\dot{X}}$ matrix used in these calculations was assumed to be independent of the trajectory parameters listed in Table 1. This approximation is good for the range of energies and asymptotic declinations considered to be

most feasible. In the future these approximations will be refined as necessary. The $\Lambda_{\dot{X}}$ used for orbit determination accuracy in this report is given in Section IIIE. The target accuracies calculated here are typical for any reasonable multistation tracking configuration, with the data types and accuracies corresponding to this conservative representation of DSIF capabilities.

3. Calculation of Target Errors

The representation of tracking accuracy in the geocentric phase in terms of $\Lambda_{\dot{X}}$, the covariance of the $\mathbf{V}_{hL}$ in a particular rectangular coordinate system, was developed earlier in this section. In order to express the effect of these uncertainties in $\mathbf{V}_{hL}$ in terms of target error, two steps must be performed. First, a set of coordinates $\mathbf{M}_1$ at the target planet for expressing the errors ($\mathbf{M}_1$ cannot exceed 3 dimensions) must be chosen. (A convenient set with desirable linearity properties is the **T–R–S** system defined previously.) The matrix U_1, which maps $\dot{\mathbf{X}}$ to the desired $\mathbf{M}_1$, is then determined.

$$\mathbf{M}_1 = U_1\dot{\mathbf{X}} = \begin{pmatrix} \delta\mathbf{B}\cdot\mathbf{T} \\ \delta\mathbf{B}\cdot\mathbf{R} \\ \delta S \end{pmatrix} \tag{61}$$

The covariance of $\mathbf{M}_1$ is given by

$$\text{Covar}\,[\mathbf{M}_1] = \overbrace{\mathbf{M}_1\mathbf{M}_1^T} = U_1\Lambda_{\dot{X}}U_1^T = \Lambda_{\mathbf{M}_1} \tag{62}$$

The determination of U_1 for the coordinates chosen follows the lines of Section IID. It is presumed that the K-matrix is given, where

$$K = \begin{bmatrix} \dfrac{\partial\mathbf{B}\cdot\mathbf{T}}{\partial\Phi_S} & \dfrac{\partial\mathbf{B}\cdot\mathbf{T}}{\partial\Theta_S} & \dfrac{\partial\mathbf{B}\cdot\mathbf{T}}{\partial C_3} \\ \dfrac{\partial\mathbf{B}\cdot\mathbf{R}}{\partial\Phi_S} & \dfrac{\partial\mathbf{B}\cdot\mathbf{R}}{\partial\Theta_S} & \dfrac{\partial\mathbf{B}\cdot\mathbf{R}}{\partial C_3} \\ \dfrac{\partial T_F}{\partial\Phi_S} & \dfrac{\partial T_F}{\partial\Theta_S} & \dfrac{\partial T_F}{\partial C_3} \end{bmatrix} \tag{45}$$

By postmultiplying K by

$$A = \begin{bmatrix} \dfrac{1}{V_{hL}} & 0 & 0 \\ 0 & \dfrac{-1}{V_{hL}\cos\Phi_S} & 0 \\ 0 & 0 & 2V_{hL} \end{bmatrix} \tag{63}$$

the F matrix is obtained.

$$F = KA \tag{47}$$

The F matrix must now be adjusted to transform into the **T–R–S** coordinates used for $\mathbf{M}_1$. This transformation B is simply

$$B = \begin{bmatrix} 1 & 0 & 0 \\ 0 & 1 & 0 \\ 0 & 0 & -V_{hp} \end{bmatrix} \tag{64}$$

since $\delta S = -V_{hp}\delta T_L$. Thus our U_1 matrix is given by

$$U_1 = B\,(KA) = BF \tag{65}$$

Now the mapping given in Eq. (62) to obtain $\Lambda_{\mathbf{M}_1}$ is applied. Since all of the coordinates of $\mathbf{M}_1$ have the same dimensions (length squared), the one-sigma ellipsoid described by the quadratic form

$$\delta\mathbf{M}_1\,\Lambda_{\mathbf{M}_1}^{-1}\,\delta\mathbf{M}_1^T = 1 \tag{66}$$

has physical significance. The three principal axes of this ellipsoid are the square roots of the 3-eigenvalues of the $\Lambda_{\mathbf{M}_1}$ matrix. The formulas used are standard and are not reproduced here. The projection of the three-dimensional ellipsoid on to the **T–R** plane is an ellipse. Its major and minor semiaxes and orientation of the major axis are calculated by the same procedure used in Section IID. It is often convenient to write $\Lambda_{\mathbf{M}_1}$ in an alternate form:

$$\Lambda_{\mathbf{M}_1} = \begin{bmatrix} \sigma_T^2 & \rho_{RT}\sigma_T\sigma_R & \rho_{TS}\sigma_T\sigma_S \\ \rho_{RT}\sigma_R\sigma_T & \sigma_R^2 & \rho_{RS}\sigma_R\sigma_S \\ \rho_{TS}\sigma_S\sigma_T & \rho_{RS}\sigma_S\sigma_R & \sigma_S^2 \end{bmatrix} \tag{67}$$

It can be seen that $\Lambda_{\mathbf{M}_1}$ is completely described by σ_T, σ_R, σ_S, ρ_{TS}, ρ_{RS}, ρ_{TR}, because of its symmetry.

III. EXPLANATION OF TRAJECTORY TABLES

Tabular listings of pertinent quantities of the heliocentric and planetocentric trajectories, differential corrections, guidance, and orbit determination parameters are given at 1-day launch date intervals and 2-day flight time intervals over the selected launch period. The launch period is selected to encompass the minimum energy transfer dates obtained from Ref. 7 and 8. A summary of the characteristics of these trajectories is given in Ref. 7.

Each trajectory begins with a header giving launch date, flight time (in days), and arrival date. All the heliocentric transfer trajectories are calculated assuming launch into the heliocentric orbit at 0 hours of the launch date and arrival at 0 hours of the arrival date. Later, however, when the launch-planet ascent trajectories are computed, the actual launch times during the launch day for each launch azimuth are given.

Each page lists four trajectories, each of which is divided into five basic print groups: HELIOCENTRIC CONIC, PLANETOCENTRIC CONIC, DIFFERENTIAL CORRECTIONS, MID-COURSE EXECUTION ACCURACY, and ORBIT DETERMINATION ACCURACY. Each quantity is assigned an identifying alphabetic symbol of no more than three letters. The definitions of the symbols and quantities they represent are given below. All pertinent quantities are referenced to the mean equinox and equator, or ecliptic, of *launch* date.

A. Heliocentric Conic Group

The HELIOCENTRIC CONIC group gives the characteristics of the heliocentric transfer ellipse, such as the position and velocity vectors at launch and arrival, some orbital elements, and other quantities of engineering interest. The printout array is as follows:

HELIOCENTRIC CONIC DISTANCE

RL LAL LOL VL GAL AZL HCA SMA ECC INC V1

RP LAP LOP VP GAP AZP TAL TAP RCA APO V2

RC GL GP ZAL ZAP ETS ZAE ETE ZAC ETC CLP

After the words HELIOCENTRIC CONIC, the heliocentric arc DISTANCE traveled by the spacecraft from launch to arrival is printed. The quantities are defined as follows (all angles are in deg; distances are in millions of km; speeds are in km/sec):

Line 1

RL, $R_L = |\mathbf{R}_L|$ — the heliocentric radius of the launch planet at 0 hours of the launch date.

LAL, β_L — the celestial latitude of the launch planet at 0 hours of the launch date.

LOL, λ_L — the celestial longitude of the launch planet at 0 hours of the launch date.

VL, $V_L = |\mathbf{V}_L|$ — the heliocentric speed of the probe at 0 hours of the launch date.

GAL, Γ_L — the path angle of the probe at 0 hours of the launch date, i.e., the complement of the angle between the position and velocity vectors, $\mathbf{R}_L$ and $\mathbf{V}_L$, defined by

$$\sin \Gamma_L = \frac{\mathbf{R}_L \cdot \mathbf{V}_L}{R_L V_L} \qquad -\frac{\pi}{2} \leq \Gamma_L \leq \frac{\pi}{2}$$

AZL, Σ_L — the azimuth angle of the probe at 0 hours of the launch date, i.e., the angle, measured in a plane perpendicular to the radius vector $\mathbf{R}_L$, between the projection of the ecliptic north and the projection of the velocity vector $\mathbf{V}_L$ on the plane perpendicular to $\mathbf{R}_L$, defined by

$$\cos \Sigma_L = \frac{\mathbf{V}_L \cdot \Psi^1}{V_L \cos \Gamma_L} \qquad 0 \leq \Sigma_L \leq 2\pi$$

$$\sin \Sigma_L = \frac{(\mathbf{R}_L \times \mathbf{V}_L) \cdot \Psi^1}{|\mathbf{R}_L \times \mathbf{V}_L|}$$

where $\Psi^1 = (\mathbf{K}' - \mathbf{R}_L^1 \sin \beta_L) \sec \beta_L$, where the superscript 1 denotes a unit vector.

HCA, Ψ — the heliocentric central angle, or angle between the position vector $\mathbf{R}_L$, of the launch planet at 0 hours of the launch date and the position vector $\mathbf{R}_p$, of the target planet at 0 hours of the arrival date. This angle is defined by Eq. (3) and (4) and illustrated in Fig. 1.

SMA, a — the semimajor axis of the heliocentric transfer ellipse.

ECC, e — the eccentricity of the heliocentric transfer ellipse.

INC, i — the inclination of the heliocentric transfer ellipse.

VI, $V_1 = |\mathbf{V}_1|$ — the heliocentric speed of the launch planet at 0 hours of the launch date.

Line 2

RP, $R_p = |\mathbf{R}_p|$ — the heliocentric radius of the target planet at 0 hours of the arrival date.

LAP, β_p — the celestial latitude of the target planet at 0 hours of the arrival date.

LOP, λ_p — the celestial longitude of the target planet at 0 hours of the arrival date.

VP, $V_p = |\mathbf{V}_p|$ — the heliocentric speed of the probe at 0 hours of the arrival date.

GAP, Γ_p — the path angle of the probe at 0 hours of the arrival date, defined the same as Γ_L except that $\mathbf{R}_p$ and $\mathbf{V}_p$ are substituted for $\mathbf{R}_L$ and $\mathbf{V}_L$.

AZP, Σ_p — the azimuth angle of the probe at 0 hours of the arrival date, defined the same as Σ_L except that $\mathbf{R}_p$ and $\mathbf{V}_p$ are substituted for $\mathbf{R}_L$ and $\mathbf{V}_L$.

TAL, v_L — the true anomaly of the probe in the heliocentric transfer ellipse at 0 hours of the launch date.

TAP, v_p — the true anomaly of the probe in the heliocentric transfer ellipse at 0 hours of the arrival date.

RCA, R_{CA} — the perihelion distance of the heliocentric transfer ellipse. This distance is printed even though the probe may not transit perihelion.

APO, R_A — the aphelion distance of the heliocentric transfer ellipse. This distance is printed even though the probe may not transit aphelion.

V2, $V_2 = |\mathbf{V}_2|$ — the heliocentric speed of the target planet at 0 hours of the arrival date.

Line 3

RC, R_C — the communication distance, or distance between the launch and target planets at 0 hours of *the arrival date.*

GL, γ_L — the angle between the launch hyperbolic-excess velocity vector $\mathbf{V}_{hL}$ and its projection on the orbital plane of the launch planet, defined by

$$\sin \gamma_L = \frac{\mathbf{W}_1 \cdot \mathbf{V}_{hL}}{V_{hL}} \qquad -\frac{\pi}{2} \leq \gamma_L \leq \frac{\pi}{2}$$

where $\mathbf{W}_1$ is a unit normal to the launch planet's orbital plane. This angle is useful in describing the direction in which the probe leaves the launch planet.

GP, γ_p — the angle between the incoming arrival hyperbolic-excess velocity vector $\mathbf{V}_{hp}$, and its projection on the target planet's orbital plane, defined by

$$\sin \gamma_p = \frac{\mathbf{W}_2 \cdot \mathbf{V}_{hp}}{V_{hp}} \qquad -\frac{\pi}{2} \leq \gamma_p \leq \frac{\pi}{2}$$

where $\mathbf{W}_2$ is a unit normal to the target planet's orbital plane. This angle is useful in determining whether the probe is approaching from above or below the target planet. If γ_p is positive, the probe approaches from below —if negative, from above.

ZAL, ζ_L — the angle between the outgoing launch asymptote (or hyperbolic-excess velocity vector) and the launch *heliocentric* radius vector $\mathbf{R}_L$ at launch time. This is the Sun–launch-planet–probe angle and is a good approximation to the launch-planet–probe–Sun angle as the probe leaves the launch planet. It is an important quantity in the design of attitude control systems which use the Sun and launch planet as optical references. The quantity ζ_L is defined as follows:

$$\cos \zeta_L = \frac{\mathbf{V}_{hL} \cdot \mathbf{R}_L^1}{V_{hL}} \qquad 0 \leq \zeta_L \leq \pi$$

The next six quantities, all angles, have the same general definition. They are important in the design of the near-target trajectory and are used in determining the aiming point for interplanetary flyby trajectories. Consider the target-centered geometry of Fig. 10.

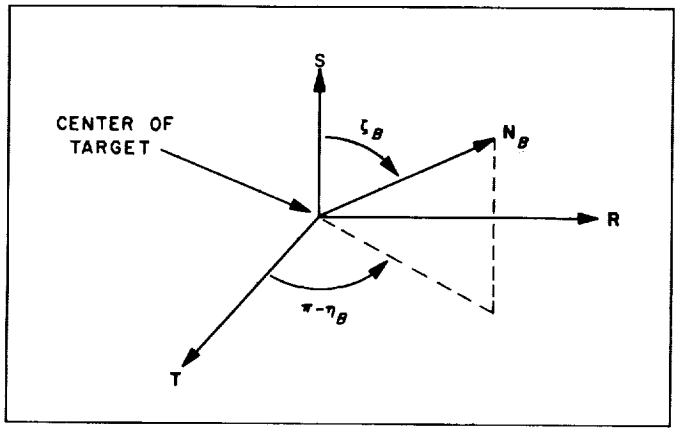


Fig. 10. Generalized geometry for aiming point angles

In this diagram, the reference coordinate system is the same target **R**, **S**, **T** system defined in Section IIC. A unit vector $\mathbf{N}_B$ (subscript B for body) is directed from the target center to another celestial body. The angular quantity ζ_B is the angle subtended at the target center between the incoming asymptote **S** and the target–celestial body line $\mathbf{N}_B$. Thus

$$\cos \zeta_B = \mathbf{S} \cdot \mathbf{N}_B = \frac{\mathbf{V}_{hp} \cdot \mathbf{N}_B}{V_{hp}} \qquad 0 \leq \zeta_B \leq \pi$$

since

$$\mathbf{S} = \frac{\mathbf{V}_{hv}}{V_{hp}}$$

The angle η_B is the supplement of the angle between the **T** direction and the projection of $\mathbf{N}_B$ on the **R** – **T** plane, defined by

$$\sin \eta_B = \frac{-\mathbf{R} \cdot \mathbf{N}_B}{\sin \zeta_B} \qquad 0 \leq \eta_B \leq 2\pi$$

$$\cos \eta_B = \frac{-\mathbf{T} \cdot \mathbf{N}_B}{\sin \zeta_B}$$

These quantities are computed for three celestial bodies: the Sun (ζ_S and η_S), the Earth (ζ_E and η_E), and the star Canopus (ζ_C and η_C). Thus,

ZAP, ζ_S (or ζ_p) — the Sun–target–probe angle. Actually, this angle should be symbolized ZAS, but, for historical reasons, is not. This angle is useful in that it indicates the direction of the probe's approach to the target. If $\zeta_S < \pi/2$, the probe approaches from the target planet's dark side. If $\zeta_S > \pi/2$, it approaches from the light side.

ETS, η_S — defined as above.

ZAE, ζ_E — the Earth–target–probe angle. This angle is useful in locating the Earth as the probe approaches the target.

ETE, η_E — defined as above.

ZAC, ζ_C — the Canopus–target–probe angle.

ETC, η_C — defined as above.

CLP, σ_p — the angle between the projection of the incoming asymptote **S** on the target planet's orbital plane and the target–Sun line at arrival time, defined by

$$\cos \sigma_p = -\mathbf{R}_p^1 \cdot \mathbf{S}_{pr} \qquad -\pi \leq \sigma_p \leq \pi$$

$$\sin \sigma_p = -\mathbf{S}_{pr} \cdot (\mathbf{W}_2 \times \mathbf{R}_p^1)$$

where $\mathbf{S}_{pr}$ is the projection of **S** on the target's orbital plane given by

$$\mathbf{S}_{pr} = \frac{\mathbf{S} - \mathbf{W}_2 (\mathbf{S} \cdot \mathbf{W}_2)}{|\mathbf{S} - \mathbf{W}_2 (\mathbf{S} \cdot \mathbf{W}_2)|}$$

Recall that $\mathbf{W}_2$ is the unit normal vector to the target's orbital plane. This angle is illustrated in Fig. 11.

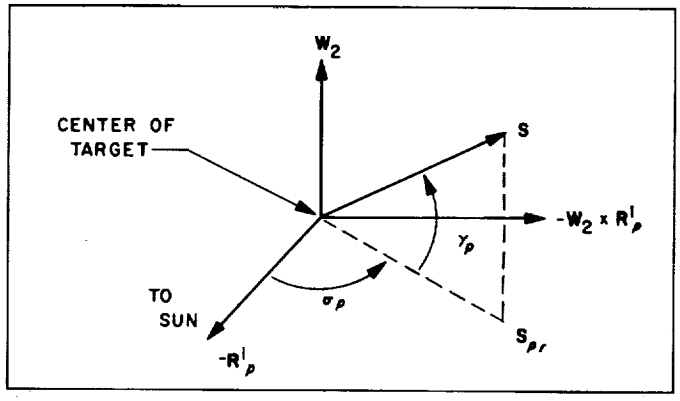


Fig. 11. Definition of σ_p and γ_p

B. Planetocentric Conic Group

The second group, PLANETOCENTRIC CONIC, gives the characteristics of primarily the launch-planet ascent trajectories, but also includes the hyperbolic-excess vector at the target. Injection conditions are given for three launch azimuths, assuming both short and long parking orbits. As explained in Ref. 6, there may be two launch times per day for each launch azimuth, resulting in a short and long parking orbit. The injection conditions for each set are given in geocentric space-fixed spherical coordinates and, by assuming a 100-nm parking orbit altitude and typical boost vehicle trajectory characteristics, the longitude of injection is calculated, along with the latitude and longitude of ignition of final burn out of the parking orbit.

A special case may arise when the declination of the outgoing asymptote of the escape hyperbola is greater than the launch site latitude (Cape Canaveral). In this case, owing to geometrical restrictions, it may not be possible to fire in a symmetrical band of azimuths about due east, as explained in Ref. 6. This band of restricted azimuths may eliminate part or all of the selected launch azimuths, 90, 100, and 110 deg. When this happens, only those trajectories with permissible azimuths are printed, in addition to the limiting azimuths, or the most northerly and southerly azimuths, that are possible.

The ascent trajectory profile is as shown in Fig. 12. Its characteristics are defined as follows:

Φ_1 the arc subtended at Earth's center during ascent from launch into parking orbit.

t_1 the time from launch to parking-orbit injection.

Φ_2 the arc subtended at Earth's center during final burn out of the parking orbit, to injection.

t_2 the time of final burn.

$k_{\dot{\Phi}}$ the inverse parking orbital rate, equal to $1/\dot{\Phi}_c$.

v_1 the true anomaly in the hyperbolic orbit at injection.

R_p the perifocal distance of the escape hyperbola, taken equal to the Earth-centered radius of the parking orbit.

ϕ_L the longitude of the launch site.

θ_L the latitude of the launch site.

The values of these quantities for all trajectories contained herein are:

$\Phi_1 =$ 17 deg

$t_1 =$ 500 sec

$\Phi_2 =$ 8 deg

$t_2 =$ 100 sec

$k_{\dot{\Phi}} =$ 14.689 sec/deg

$v_1 =$ 3.7 deg

$R_p =$ 6560 km

$\phi_L =$ 28.317 deg

$\theta_L =$ 279.457 deg

An inherent assumption here is that these quantities are relatively invariant with injection energy. This is a reasonable assumption and will affect the injection coordinates only slightly.

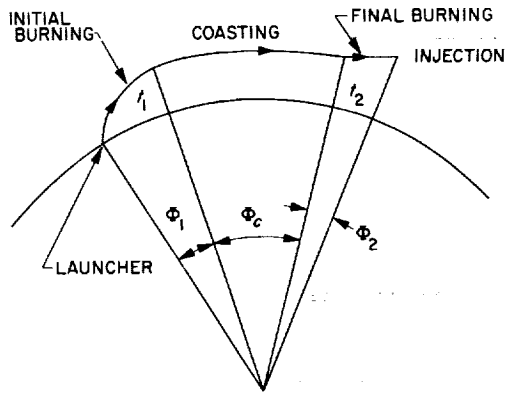


Fig. 12. Ascent trajectory profile

The print array for the PLANETOCENTRIC CONIC group is:

C3	VHL	DLA	RAL	RAD	VEL	PTH	VHP	DPA	RAP	ECC
LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG

The quantities are defined as follows (all angles are in deg; distances are in km; speeds are in km/sec, launch-injection (L-I)time and parking orbit coast time (PO CST TIM) are in sec; launch time and injection time are in hr, min, and sec, GMT):

Line 1

C3, C_3 — the *vis viva* integral (Moulton), or twice the total energy per unit mass, expressed in km²/sec² and defined by $C_3 = V^2_{hL}$.

VHL, V_{hL} — the launch hyperbolic-excess speed.

DLA, Φ_S — the declination of the outgoing asymptote of the escape hyperbola defined in Eq. (18).

RAL, Θ_S — the right ascension of the outgoing asymptote of the escape hyperbola defined in Eq. (18).

RAD, $R = |\mathbf{R}|$ — the launch-planet-centered injection radius.

VEL, $V = |\mathbf{V}|$ — the inertial injection speed.

PTH, Γ — the injection path angle defined by

$$\sin\Gamma = \frac{\mathbf{V}\cdot\mathbf{R}}{VR} \qquad -\frac{\pi}{2} \leq \Gamma \leq \frac{\pi}{2}$$

VHP, V_{hp} — the hyperbolic-excess speed at the target.

DPA, Φ_{Sp} — the declination of the incoming asymptote at the target. The reference coordinate system here is vernal equinox, Earth equatorial, mean of *launch* date

RAP, Θ_{Sp} — the right ascension of the incoming asymptote at the target. Same reference coordinates as for Φ_{Sp}.

ECC, e — the eccentricity of the escape hyperbola.

Line 2

LNCH AZMTH, Σ_L — the launch azimuth measured in a plane tangent to the surface of the launch planet at the launch site, positive east of true north.

LNCH TIME, T_L — the launch time. For the range of launch azimuths given herein, launch time may cross 0 hours, or midnight. In this case, the launch date may be advanced to the following day for times after midnight, or it may be retarded to the previous day for times before midnight, whichever the reader wishes.

L-I TIME, t_{LI} — the launch-to-injection time.

INJ LAT, ϕ — the injection latitude (or declination Φ).

INJ LONG, θ — the injection longitude, measured positive east of Greenwich, $0 \leq \theta \leq 2\pi$.

INJ RT ASC, Θ — the injection right ascension.

INJ AZMTH, Σ — the injection azimuth, or angle between the projection of the velocity vector **V**, on the local horizontal plane and the projection of true north on this plane, measured positive east of true north.

INJ TIME, T_I — the injection time. The same comment applies to this quantity regarding launch date as applied to the launch time. However, both times must be consistent. For example, if launch time is on the previous day, injection time may fall on the launch date shown, or it may be on the following day.

PO CST TIM, t_c — the coast time in the parking orbit, in sec.

INJ 2 LAT, ϕ_2 — the latitude of the start of final burn out of the parking orbit.

INJ 2 LONG, θ_2 — the longitude of the start of final burn out of the parking orbit, $0 \leq \theta_2 \leq 2\pi$.

The quantities T_I, R, Φ, Θ, V, Γ, Σ form a consistent set of injection conditions; i.e., they are the time and the space-fixed spherical coordinates which can be used to initialize an integrating trajectory program.

C. Differential Corrections Group

The DIFFERENTIAL CORRECTIONS group is comprised of sixteen error coefficients relating variations in

injection energy C_3, declination Φ_S, and right ascension Θ_S, of the outgoing asymptote of the escape hyperbola, the astronomical unit, and solar radiation pressure to variations in the miss components $\mathbf{B}\cdot\mathbf{T}$, $\mathbf{B}\cdot\mathbf{R}$, and the flight time. These coefficients are very useful in gaging the error sensitivity of an interplanetary trajectory. The printout array for this group is as follows:

DIFFERENTIAL CORRECTIONS

TDE	TRA	TC3	BAU
RDE	RRA	RC3	FAU
FDE	FRA	FC3	BSP
BDE	BRA	BC3	FSP

The symbols are defined as follows:

Line 1

TDE, $\frac{\partial \mathbf{B}\cdot\mathbf{T}}{\partial \Phi_S}$ the partial derivative of the **T** component of the impact parameter **B**, with respect to the declination of the launch escape asymptote Φ_S, in megakilometers/deg.

TRA, $\frac{\partial \mathbf{B}\cdot\mathbf{T}}{\partial \Theta_S}$ the partial derivative of the **T** component of the impact-parameter **B**, with respect to the right ascension of the launch escape asymptote Θ_S, in megakilometers/deg.

TC3, $\frac{\partial \mathbf{B}\cdot\mathbf{T}}{\partial C_3}$ the partial derivative of the **T** component of the impact parameter **B**, with respect to the injection energy C_3, in megakilometers/km²/sec².

BAU, $\frac{\partial B}{\partial au}$ the partial derivative of the magnitude of the impact parameter **B**, with respect to the astronomical unit-to-kilometer conversion factor. This derivative is dimensionless and indicates the target miss caused by an uncertainty in the value of the astronomical unit.

Line 2

RDE, $\frac{\partial \mathbf{B}\cdot\mathbf{R}}{\partial \Phi_S}$ the partial derivative of the **R** component of the impact parameter **B**, with respect to the declination of the launch escape asymptote Φ_S, in megakilometers/deg.

RRA, $\frac{\partial \mathbf{B}\cdot\mathbf{R}}{\partial \Theta_S}$ the partial derivative of the **R** component of the impact parameter **B**, with respect to the right ascension of the launch escape asymptote Θ_S, in megakilometers/deg.

RC3, $\frac{\partial \mathbf{B}\cdot\mathbf{R}}{\partial C_3}$ the partial derivative of the **R** component of the impact parameter **B**, with respect to the injection energy C_3, in megakilometers/km²/sec².

FAU, $\frac{\partial T_F}{\partial au}$ the partial derivative of the flight time T_F, with respect to the astronomical unit-to-kilometer conversion factor. This derivative has dimensions of sec/km and indicates the error in flight time caused by an uncertainty in the value of the astronomical unit.

Line 3

FDE, $\frac{\partial T_F}{\partial \Phi_S}$ the partial derivative of flight time T_F, with respect to the declination of the launch escape asymptote Φ_S, in days/deg.

FRA, $\frac{\partial T_F}{\partial \Theta_S}$ the partial derivative of flight time T_F, with respect to the right ascension of the launch escape asymptote Θ_S, in days/deg.

FC3, $\frac{\partial T_F}{\partial C_3}$ the partial derivative of flight time T_F, with respect to the injection energy C_3, in days/km²/sec².

BSP, ΔB_{sp} the target miss (in km) caused by solar radiation pressure acting on a 300-kg spacecraft having an effective perfectly reflecting area of 3.6 square meters.

Line 4

BDE, $\frac{\partial B}{\partial \Phi_S}$ the partial derivative of the magnitude of the impact parameter **B**, with respect to the declination of the launch escape asymptote Φ_S, in megakilometers/deg.

BRA, $\frac{\partial B}{\partial \Theta_S}$ the partial derivative of the magnitude of the impact parameter **B**, with respect to the right ascension of the launch escape asymptote Θ_S, in megakilometers/deg.

BC3, $\frac{\partial B}{\partial C_3}$ the partial derivative of the magnitude of the impact parameter **B**, with respect to the injection energy C_3, in megakilometers/km²/sec².

FSP, $\Delta T_{F_{sp}}$ the flight time error (in sec) caused by solar radiation pressure acting on a 300-kg spacecraft having an effective perfectly reflecting area of 3.6 square meters.

Line 2

CRT, ρ_{RT} the linear correlation coefficient relating errors in $\mathbf{B}\cdot\mathbf{R}$ to errors in $\mathbf{B}\cdot\mathbf{T}$, dimensionless.

CRS, ρ_{RS} the linear correlation coefficient relating errors in $\mathbf{B}\cdot\mathbf{R}$ to errors in S, dimensionless.

CST, ρ_{TS} the linear correlation coefficient relating errors in $\mathbf{B}\cdot\mathbf{T}$ to errors in S, dimensionless.

The third line contains the three semiaxes of the one-sigma position ellipsoid described by $\mathbf{M}_1\Lambda^{-1}\mathbf{M}^T = 1$.

Line 3

LSA, $\sqrt{\epsilon_{max}}$ the largest semiaxis of the position ellipsoid, in km. (ϵ_{max} is the largest eigenvalue of $\Lambda_{\mathbf{M}_1}$, in km².)

MSA, $\sqrt{\epsilon_{mid}}$ the middle semiaxis of the position ellipsoid, in km. (ϵ_{mid} is the second-largest, or middle, eigenvalue of $\Lambda_{\mathbf{M}_1}$, in km².)

SSA, $\sqrt{\epsilon_{min}}$ the smallest semiaxis of the position ellipsoid, in km. (ϵ_{min} is the smallest eigenvalue of $\Lambda_{\mathbf{M}_1}$, in km².)

The fourth line describes the projection of the above position ellipsoid on the T-R plane. This projection is an ellipse with major and minor semiaxes and orientation as described below:

Line 4

EL1 the major semiaxis of the target error ellipsoid projected onto the T-R plane, in km.

EL2 the minor semiaxis of the target error ellipsoid projected onto the T-R plane, in km.

ALF, α the angle measured counterclockwise from the T-axis to the major semiaxis direction, in deg ($0 \geqq \alpha \geqq 180$ deg).

The $\Lambda_{\dot{\mathbf{X}}}$ matrix used in generating the results for this report is

$$\Lambda_{\dot{\mathbf{X}}} = \begin{pmatrix} 100 \times 10^{-10} & 0 & 0 \\ 0 & 9 \times 10^{-10} & 0 \\ 0 & 0 & .09 \times 10^{-10} \end{pmatrix} \left(\frac{\text{km}}{\text{sec}}\right)^2$$

In all cases LSA >> SSA, so that the information contained in lines 3 and 4 of the printout is very useful in visualizing the error ellipsoid. The general shape of the ellipsoid is a thin elliptical "pancake." When MSA << LSA, the "pancake" degenerates to approach a pencil shape. By inspecting the "shadow" of the pancake or pencil shape on the T-R plane, its orientation may be visualized.

If it is desired to estimate the flight time T_F, this can easily be done by the relation

$$\sigma_F = \frac{1}{V_{hp}}\sigma_S$$

The correlation coefficients between T_F and $\mathbf{B}\cdot\mathbf{T}$ are those given by CST; those between T_F and $\mathbf{B}\cdot\mathbf{R}$ are given by CRS.

IV. CONSTANTS

Constants used in trajectory calculations at the Jet Propulsion Laboratory are given in Ref. 9. For purposes of ready reference those constants used in the calculations contained herein are given below.

Gravitational Constants

1. Sun

$$GM_S = 2.959122083 \times 10^{-4}\ \text{au}^3/\text{day}^2$$

2. Earth

$$GM_E = 3.986032 \times 10^5\ \text{km}^3/\text{sec}^2$$

Astronomical Unit-to-Kilometer Conversion Factor

$$1\ \text{au} = 149.599 \times 10^6\ \text{km}$$

Earth's Rotation Rate

$$\omega_E = 4.1780742 \times 10^{-3}\ \text{deg/sec}$$

D. Mid-Course Execution Accuracy Group

The MID-COURSE EXECUTION ACCURACY group gives the parameters of the "one-sigma" three-dimensional ellipsoid of target errors, resulting from a spherically distributed mid-course guidance execution error with σ_v equal to 0.1 m/sec (see Eq. 49). It is assumed here that a single mid-course guidance maneuver is applied during the time the spacecraft is essentially traveling radially outward from the launch planet. This time is approximately from several hours to several days after launch and is a practical period in which to perform a mid-course maneuver. These quantities are quoted in the useful **R**, **S**, **T** coordinate system discussed above.

The print array for this group is:

MID-COURSE EXECUTION ACCURACY

SGT	SGR	SG3
RRT	RRF	RTF
SGB	R23	R13
SG1	SG2	THA

The quantities are defined as follows:

Line 1

SGT, σ_T the standard deviation of position errors along the **T** axis, in km.

SGR, σ_R the standard deviation of position errors along the **R** axis, in km.

SG3, σ_3 the standard deviation of flight time errors, in sec.

Line 2

RRT, ρ_{RT} the linear correlation coefficient relating position errors in the **R** and **T** directions (dimensionless).

RRF, ρ_{RF} the linear correlation coefficient relating position errors in the **R** direction and flight-time errors (dimensionless).

RTF, ρ_{TF} the linear correlation coefficient relating position errors in the **T** direction and flight-time errors (dimensionless).

Line 3

SGB, σ_B the square root of the sum of the squares of σ_R and σ_T.

R23, ρ_{23} the linear correlation coefficient of σ_2 and σ_3 ($= \sigma_F$). The same remarks apply to this number as to ρ_{13}, except that the σ_2 direction replaces the σ_1 direction.

R13, ρ_{13} the linear correlation coefficient relating σ_1 and σ_3 ($= \sigma_F$). This number statistically relates position errors in the σ_1 direction to flight time errors. If $\rho_{13} = 1$, then a position error in the σ_1 direction will always be accompanied by a flight-time error which is linearly related to that position error; ρ_{13} is dimensionless.

Line 4

SG1, σ_1 the semimajor axis of the error ellipse formed by projecting the three-dimensional error ellipsoid onto the **T-R** plane (Fig. 8), in km.

SG2, σ_2 the semiminor axis of this error ellipse (Fig. 8), in km.

THA, θ the angle between the **T** axis and the direction of the σ_1 axis, measured in the **T-R** plane as shown in Fig. 8, in deg.

E. Orbit Determination Accuracy Group

The ORBIT DETERMINATION ACCURACY group is comprised of 12 numbers which describe the uncertainty in target coordinates due to tracking errors described in Section IIE. The printout array for this group is as follows:

ORBIT DETERMINATION ACCURACY

ST	SR	SS
CRT	CRS	CST
LSA	MSA	SSA
EL1	EL2	ALF

The first two lines describe the covariance of $\mathbf{M}_1$ by the method described in Section IIE (Eq. 67):

Line 1

ST, σ_T the standard deviation of errors in the coordinate $\mathbf{B} \cdot \mathbf{T}$, in km.

SR, σ_R the standard deviation of errors in the coordinate $\mathbf{B} \cdot \mathbf{R}$, in km.

SS, σ_S the standard deviation of errors in S, in km.

REFERENCES

1. Clarke, V. C., Jr., Roth, R. Y., Bollman, W. E., Hamilton, T. H., and Pfeiffer, C. G., *Earth–Mars Trajectories, 1964–77, Vols.* I–VII, Technical Memorandum No. 33-100, Jet Propulsion Laboratory, Pasadena, to be published.

2. Pfeiffer, C. G., *Simple Guidance for Deep-Space Booster Vehicles,* Technical Report No. 32-128, Jet Propulsion Laboratory, Pasadena, November 1961.

3. Noton, A. R. M., *The Statistical Analysis of Space Guidance Systems,* Technical Memorandum No. 33-15, Jet Propulsion Laboratory, Pasadena, June 15, 1960.

4. Noton, A. R. M., Cutting, E., and Barnes, F. L., *Analysis of Radio-Command Mid-Course Guidance,* Technical Report No. 32-28, Jet Propulsion Laboratory, Pasadena, September 8, 1960.

5. Battin, R. H., "The Determination of Round-Trip Planetary Reconnaissance Trajectories," *Journal of the Aero/Space Sciences,* Volume 26, No. 9, September 1959.

6. Clarke, V. C., Jr., *Design of Lunar and Interplanetary Ascent Trajectories,* Technical Report No. 32-30, Rev. 1, Jet Propulsion Laboratory, Pasadena, March 15, 1962.

7. Clarke, V. C., Jr., *A Summary of the Characteristics of Ballistic Interplanetary Trajectories, 1962–1977,* Technical Report No. 32-209, Jet Propulsion Laboratory, Pasadena, January 15, 1962.

8. Clarke, V. C., Jr., Roth, R. Y., Scholey, W. J., and Bollman, W. E., *Design Parameters for Ballistic Interplanetary Trajectories—Part I, One-Way Transfers to Mars and Venus,* Technical Report No. 32-77, Jet Propulsion Laboratory, Pasadena (to be published).

9. Clarke, V. C., Jr., *Constants and Related Data Used in Trajectory Calculations at the Jet Propulsion Laboratory,* Technical Report No. 32-273, Jet Propulsion Laboratory, Pasadena, May 1, 1962.

Earth–Venus Trajectories, 1965-66

Launch date interval: September 10 to October 19, 1965

This data presentation has been photographically reproduced (enlarged 10½ times) from microfilm generated by computer magnetic tape.

LAUNCH DATE SEP 10 1965 FLIGHT TIME 70.00 ARRIVAL DATE NOV 19 1965

HELIOCENTRIC CONIC DISTANCE 123.264

RL 150.63 LAL .00 LOL 347.08 VL 13.879 GAL 35.01 AZL 96.11 HCA 28.95 SMA 84.56 ECC .85949 INC 6.1133 V1 29.581
RP 108.52 LAP -2.95 LOP 15.89 VP 29.603 GAP -57.79 AZP 95.35 TAL 173.14 TAP 202.09 RCA 11.88 APO 157.23 V2 34.920
RC 96.371 GL -3.44 GP -3.51 ZAL 65.33 ZAP 37.94 ETS 172.35 ZAE 130.00 ETE 177.50 ZAC 36.13 ETC 26.98 CLP 37.80

PLANETOCENTRIC CONIC

C3 406.179 VHL 20.154 DLA -26.35 RAL 283.17 RAD 6572.1 VEL 22.967 PTH 3.27 VHP 31.485 DPA -20.78 RAP 230.51 ECC 7.6847

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 24 56	1802.76	-7.92	16.88	184.94	117.28	11 54 59	1202.8	-4.20	10.18
90.00	14 29 54	1195.85	11.32	342.66	194.55	116.13	14 49 50	595.9	14.74	335.65
100.00	12 17 6	1634.29	-11.36	2.69	183.12	117.84	12 44 20	1034.3	-7.54	355.98
100.00	16 20 25	839.55	14.80	318.20	196.31	116.27	16 34 25	239.6	18.21	311.07
110.00	12 34 47	1578.77	-18.33	354.56	179.19	119.37	13 1 6	978.8	-14.28	347.79
110.00	18 19 14	5755.87	21.90	271.62	200.05	116.93	19 55 9	5155.9	25.33	264.15

DIFFERENTIAL CORRECTIONS

TDE -.2826 TRA-2.1616 TC3 -.1064 BAU .5786
RDE-1.6063 RRA .2532 RC3 .0051 FAU .01056
FDE .0704 FRA .7472 FC3 -.0225 BSP 1910
BDE 1.6310 BRA 2.1763 BC3 .1066 FSP -44

MID-COURSE EXECUTION ACCURACY

SGT 812.9 SGR 464.1 SG3 22.0
RRT -.0723 RRF .0680 RTF -.6051
SGB 936.0 R23 -.0033 R13 .6055
SG1 813.9 SG2 462.3 THA 176.51

ORBIT DETERMINATION ACCURACY

ST 221.2 SR 457.3 SS 201.1
CRT .3135 CRS .2196 CST .9907
LSA 468.8 MSA 280.2 SSA 14.2
EL1 463.9 EL2 207.1 ALF 79.20

LAUNCH DATE SEP 10 1965 FLIGHT TIME 72.00 ARRIVAL DATE NOV 21 1965

HELIOCENTRIC CONIC DISTANCE 128.372

RL 150.63 LAL .00 LOL 347.08 VL 14.716 GAL 33.23 AZL 95.38 HCA 32.11 SMA 85.87 ECC .83567 INC 5.3804 V1 29.581
RP 108.48 LAP -2.86 LOP 19.08 VP 30.018 GAP -55.30 AZP 94.56 TAL 172.25 TAP 204.37 RCA 14.11 APO 157.62 V2 34.932
RC 94.116 GL -3.42 GP -3.59 ZAL 63.87 ZAP 36.42 ETS 171.95 ZAE 129.70 ETE 177.68 ZAC 34.75 ETC 28.33 CLP 36.27

PLANETOCENTRIC CONIC

C3 373.925 VHL 19.337 DLA -26.19 RAL 284.78 RAD 6572.0 VEL 22.254 PTH 3.25 VHP 30.396 DPA -21.35 RAP 232.18 ECC 7.1539

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 27 39	1807.07	-8.05	17.13	185.89	117.24	11 57 47	1207.1	-4.34	10.42
90.00	14 40 4	1175.13	11.93	341.45	195.80	115.87	14 59 40	575.1	15.32	334.41
100.00	12 20 49	1635.41	-11.39	2.75	184.12	117.82	12 48 4	1035.4	-7.58	356.04
100.00	16 29 36	822.03	15.32	317.16	197.50	115.98	16 43 18	222.0	18.69	309.99
110.00	12 39 30	1576.74	-18.26	354.44	180.25	119.41	13 5 47	976.7	-14.21	347.67
110.00	18 27 24	5741.50	22.34	270.74	201.16	116.57	20 3 5	5141.5	25.72	263.21

DIFFERENTIAL CORRECTIONS

TDE -.3095 TRA-2.1823 TC3 -.1140 BAU .5705
RDE-1.5586 RRA .2721 RC3 .0052 FAU .01053
FDE .0844 FRA .7756 FC3 -.0244 BSP 2033
BDE 1.5890 BRA 2.1992 BC3 .1141 FSP -48

MID-COURSE EXECUTION ACCURACY

SGT 849.7 SGR 470.9 SG3 23.7
RRT -.0783 RRF .0739 RTF -.6238
SGB 971.5 R23 -.0038 R13 .6243
SG1 850.9 SG2 468.8 THA 176.43

ORBIT DETERMINATION ACCURACY

ST 235.2 SR 462.6 SS 212.3
CRT .3356 CRS .2536 CST .9921
LSA 478.6 MSA 291.8 SSA 14.5
EL1 471.2 EL2 217.5 ALF 77.64

LAUNCH DATE SEP 10 1965 FLIGHT TIME 74.00 ARRIVAL DATE NOV 23 1965

HELIOCENTRIC CONIC DISTANCE 133.621

RL 150.63 LAL .00 LOL 347.08 VL 15.507 GAL 31.62 AZL 94.77 HCA 35.29 SMA 87.21 ECC .81131 INC 4.7658 V1 29.581
RP 108.45 LAP -2.75 LOP 22.27 VP 30.428 GAP -52.93 AZP 93.89 TAL 171.36 TAP 206.65 RCA 16.46 APO 157.97 V2 34.945
RC 91.865 GL -3.39 GP -3.67 ZAL 62.46 ZAP 34.94 ETS 171.52 ZAE 129.45 ETE 177.88 ZAC 33.37 ETC 29.83 CLP 34.77

PLANETOCENTRIC CONIC

C3 344.421 VHL 18.559 DLA -26.00 RAL 286.34 RAD 6571.9 VEL 21.581 PTH 3.22 VHP 29.344 DPA -21.92 RAP 233.89 ECC 6.6683

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 29 50	1812.08	-8.21	17.41	186.74	117.20	12 0 2	1212.1	-4.50	10.70
90.00	14 50 21	1152.81	12.59	340.14	196.98	115.57	15 9 34	552.8	15.94	333.06
100.00	12 24 1	1637.10	-11.45	2.85	185.03	117.80	12 51 18	1037.1	-7.64	356.13
100.00	16 38 51	803.02	15.89	316.03	198.61	115.66	16 52 14	203.0	19.21	308.82
110.00	12 43 48	1575.02	-18.20	354.34	181.22	119.44	13 10 3	975.0	-14.15	347.58
110.00	18 35 33	5725.90	22.81	269.77	202.17	116.18	20 10 59	5125.9	26.14	262.19

DIFFERENTIAL CORRECTIONS

TDE -.3359 TRA-2.2045 TC3 -.1219 BAU .5618
RDE-1.5102 RRA .2895 RC3 .0053 FAU .01051
FDE .0991 FRA .8046 FC3 -.0264 BSP 2161
BDE 1.5471 BRA 2.2234 BC3 .1220 FSP -53

MID-COURSE EXECUTION ACCURACY

SGT 888.2 SGR 477.1 SG3 25.5
RRT -.0846 RRF .0803 RTF -.6419
SGB 1008.2 R23 -.0043 R13 .6424
SG1 889.5 SG2 474.7 THA 176.36

ORBIT DETERMINATION ACCURACY

ST 250.1 SR 467.2 SS 224.2
CRT .3557 CRS .2853 CST .9934
LSA 488.8 MSA 303.3 SSA 14.7
EL1 478.2 EL2 228.4 ALF 75.96

LAUNCH DATE SEP 10 1965 FLIGHT TIME 76.00 ARRIVAL DATE NOV 25 1965

HELIOCENTRIC CONIC DISTANCE 139.004

RL 150.63 LAL .00 LOL 347.08 VL 16.254 GAL 30.15 AZL 94.24 HCA 38.46 SMA 88.60 ECC .78662 INC 4.2402 V1 29.581
RP 108.41 LAP -2.64 LOP 25.47 VP 30.830 GAP -50.69 AZP 93.32 TAL 170.47 TAP 208.93 RCA 18.90 APO 158.29 V2 34.957
RC 89.619 GL -3.34 GP -3.76 ZAL 61.09 ZAP 33.48 ETS 171.06 ZAE 129.27 ETE 178.11 ZAC 32.00 ETC 31.52 CLP 33.29

PLANETOCENTRIC CONIC

C3 317.388 VHL 17.815 DLA -25.80 RAL 287.85 RAD 6571.8 VEL 20.945 PTH 3.19 VHP 28.326 DPA -22.49 RAP 235.63 ECC 6.2234

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 31 31	1817.59	-8.38	17.73	187.50	117.15	12 1 48	1217.6	-4.67	11.01
90.00	15 0 41	1129.04	13.29	338.74	198.07	115.24	15 19 30	529.0	16.58	331.61
100.00	12 26 44	1639.26	-11.52	2.97	185.84	117.78	12 54 4	1039.3	-7.71	356.25
100.00	16 48 8	782.60	16.48	314.81	199.63	115.29	17 1 11	182.6	19.76	307.55
110.00	12 47 41	1573.55	-18.16	354.25	182.10	119.47	13 13 54	973.5	-14.09	347.49
110.00	18 43 41	5709.11	23.31	268.73	203.09	115.74	20 18 51	5109.1	26.58	261.09

DIFFERENTIAL CORRECTIONS

TDE -.3614 TRA-2.2276 TC3 -.1301 BAU .5524
RDE-1.4613 RRA .3056 RC3 .0053 FAU .01049
FDE .1142 FRA .8341 FC3 -.0286 BSP 2292
BDE 1.5054 BRA 2.2484 BC3 .1302 FSP -58

MID-COURSE EXECUTION ACCURACY

SGT 928.2 SGR 482.9 SG3 27.4
RRT -.0914 RRF .0872 RTF -.6595
SGB 1046.3 R23 -.0049 R13 .6601
SG1 929.6 SG2 480.1 THA 176.29

ORBIT DETERMINATION ACCURACY

ST 265.9 SR 471.1 SS 236.6
CRT .3737 CRS .3147 CST .9945
LSA 499.6 MSA 314.3 SSA 14.9
EL1 485.0 EL2 239.5 ALF 74.12

LAUNCH DATE SEP 10 196. FLIGHT TIME 78.00 ARRIVAL DATE NOV 27 1965

HELIOCENTRIC CONIC DISTANCE 144.512

RL	150.63	LAL	.00	LOL	347.08	VL	38.959	GAL	28.78	AZL	93.78	HCA	41.64	SMA	90.00	ECC	.76177	INC	3.7829	VI	29.581
RP	108.37	LAP	-2.51	LOP	28.66	VP	31.222	GAP	-48.57	AZP	92.83	TAL	169.58	TAP	211.23	RCA	21.44	APO	158.56	V2	34.970
RC	87.380	GL	-3.29	GP	-3.86	ZAL	59.76	ZAP	32.05	ETS	170.54	ZAE	129.14	ETE	178.36	ZAC	30.65	ETC	33.40	CLP	31.84

PLANETOCENTRIC CONIC

C3 292.584 VHL 17.105 DLA -25.57 RAL 289.30 RAD 6571.7 VEL 20.344 PTH 3.16 VHP 27.341 DPA -23.06 RAP 237.41 ECC 5.8152

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 32 45	1823.43	-8.56	18.06	188.16	117.09	12 3 8	1223.4	-4.86	11.34
90.00	15 11 1	1103.94	14.01	337.26	199.07	114.86	15 29 25	503.9	17.25	330.07
100.00	12 29 1	1641.75	-11.59	3.12	186.56	117.75	12 56 23	1041.7	-7.79	356.39
100.00	16 57 26	760.86	17.11	313.50	200.56	114.89	17 10 7	160.9	20.33	306.18
110.00	12 51 10	1572.26	-18.11	354.18	182.89	119.50	13 17 22	972.3	-14.05	347.42
110.00	18 51 47	5691.14	23.84	267.60	203.92	115.26	20 26 38	5091.1	27.03	259.89

DIFFERENTIAL CORRECTIONS

TDE	-.3862	TRA	-2.2514	TC3	-.1385	BAU	.5423	SGT	969.7	SGR	488.0	SG3	29.4
RDE	-1.4120	RRA	.3204	RC3	.0052	FAU	.01049	RRT	-.0987	RRF	.0946	RTF	-.6765
FDE	.1298	FRA	.8643	FC3	-.0310	BSP	2434	SGB	1085.6	R23	-.0056	R13	.6771
BDE	1.4638	BRA	2.2741	BC3	.1386	FSP	-63	SG1	971.3	SG2	484.8	THA	176.21

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

ST	282.6	SR	474.3	SS	249.7
CRT	.3896	CRS	.3416	CST	.9954
LSA	511.3	MSA	324.9	SSA	15.1
EL1	491.7	EL2	251.0	ALF	72.13

LAUNCH DATE SEP 10 1965 FLIGHT TIME 80.00 ARRIVAL DATE NOV 29 1965

HELIOCENTRIC CONIC DISTANCE 150.138

RL	150.63	LAL	.00	LOL	347.08	VL	17.624	GAL	27.50	AZL	93.38	HCA	44.83	SMA	91.43	ECC	.73690	INC	3.3791	VI	29.581
RP	108.33	LAP	-2.38	LOP	31.86	VP	31.603	GAP	-46.54	AZP	92.40	TAL	168.70	TAP	213.53	RCA	24.06	APO	158.80	V2	34.983
RC	85.148	GL	-3.22	GP	-3.97	ZAL	58.48	ZAP	30.63	ETS	169.98	ZAE	129.07	ETE	178.64	ZAC	29.32	ETC	35.50	CLP	30.40

PLANETOCENTRIC CONIC

C3 269.799 VHL 16.426 DLA -25.33 RAL 290.70 RAD 6571.6 VEL 19.777 PTH 3.13 VHP 26.387 DPA -23.63 RAP 239.23 ECC 5.4402

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 33 34	1829.47	-8.75	18.41	188.74	117.04	12 4 4	1229.5	-5.05	11.68
90.00	15 21 20	1077.62	14.76	335.68	199.97	114.44	15 39 18	477.6	17.94	328.45
100.00	12 30 52	1644.48	-11.68	3.27	187.20	117.71	12 58 16	1044.5	-7.88	356.55
100.00	17 8 44	737.85	17.77	312.11	201.40	114.44	17 19 1	137.8	20.92	304.73
110.00	12 54 15	1571.10	-18.07	354.11	183.59	119.52	13 20 26	971.1	-14.01	347.36
110.00	18 59 49	5672.03	24.39	266.38	204.64	114.73	20 34 22	5072.0	27.51	258.61

DIFFERENTIAL CORRECTIONS

TDE	-.4098	TRA	-2.2756	TC3	-.1473	BAU	.5315	SGT	1012.8	SGR	492.6	SG3	31.7
RDE	-1.3622	RRA	.3339	RC3	.0050	FAU	.01050	RRT	-.1066	RRF	.1026	RTF	-.6930
FDE	.1459	FRA	.8952	FC3	-.0337	BSP	2586	SGB	1126.2	R23	-.0063	R13	.6936
BDE	1.4225	BRA	2.2999	BC3	.1473	FSP	-69	SG1	1014.5	SG2	489.0	THA	176.13

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

ST	300.1	SR	476.7	SS	263.3
CRT	.4035	CRS	.3663	CST	.9962
LSA	523.9	MSA	334.7	SSA	15.3
EL1	498.3	EL2	262.7	ALF	69.96

LAUNCH DATE SEP 10 1965 FLIGHT TIME 82.00 ARRIVAL DATE DEC 1 1965

HELIOCENTRIC CONIC DISTANCE 155.877

RL	150.63	LAL	.00	LOL	347.08	VL	18.252	GAL	26.30	AZL	93.02	HCA	48.01	SMA	92.87	ECC	.71213	INC	3.0179	VI	29.581
RP	108.29	LAP	-2.24	LOP	35.06	VP	31.971	GAP	-44.61	AZP	92.02	TAL	167.83	TAP	215.84	RCA	26.73	APO	159.01	V2	34.996
RC	82.926	GL	-3.13	GP	-4.08	ZAL	57.24	ZAP	29.25	ETS	169.35	ZAE	129.06	ETE	178.94	ZAC	28.03	ETC	37.85	CLP	28.98

PLANETOCENTRIC CONIC

C3 248.848 VHL 15.775 DLA -25.06 RAL 292.04 RAD 6571.5 VEL 19.240 PTH 3.09 VHP 25.462 DPA -24.20 RAP 241.08 ECC 5.0954

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 34 1	1835.61	-8.94	18.76	189.23	116.98	12 4 36	1235.6	-5.25	12.02
90.00	15 31 36	1050.15	15.53	334.03	200.78	113.98	15 49 6	450.2	18.64	326.74
100.00	12 32 19	1647.38	-11.77	3.44	187.74	117.68	12 59 46	1047.4	-7.98	356.71
100.00	17 15 59	713.62	18.44	310.63	202.13	113.95	17 27 52	113.6	21.52	303.19
110.00	12 56 58	1570.02	-18.04	354.04	184.21	119.54	13 23 8	970.0	-13.97	347.30
110.00	19 7 48	5651.78	24.96	265.09	205.26	114.15	20 42 0	5051.8	28.00	257.24

DIFFERENTIAL CORRECTIONS

TDE	-.4328	TRA	-2.3005	TC3	-.1563	BAU	.5201	SGT	1057.7	SGR	496.6	SG3	34.0
RDE	-1.3122	RRA	.3462	RC3	.0047	FAU	.01053	RRT	-.1151	RRF	.1112	RTF	-.7088
FDE	.1625	FRA	.9269	FC3	-.0366	BSP	2741	SGB	1168.5	R23	-.0071	R13	.7094
BDE	1.3818	BRA	2.3264	BC3	.1563	FSP	-75	SG1	1059.6	SG2	492.4	THA	176.05

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

ST	318.6	SR	478.4	SS	277.6
CRT	.4159	CRS	.3890	CST	.9968
LSA	537.8	MSA	343.6	SSA	15.5
EL1	505.0	EL2	274.5	ALF	67.57

LAUNCH DATE SEP 10 1965 FLIGHT TIME 84.00 ARRIVAL DATE DEC 3 1965

HELIOCENTRIC CONIC DISTANCE 161.720

RL	150.63	LAL	.00	LOL	347.08	VL	18.844	GAL	25.17	AZL	92.69	HCA	51.20	SMA	94.32	ECC	.68759	INC	2.6909	VI	29.581
RP	108.24	LAP	-2.10	LOP	38.25	VP	32.327	GAP	-42.76	AZP	91.69	TAL	166.96	TAP	218.17	RCA	29.47	APO	159.17	V2	35.010
RC	80.714	GL	-3.03	GP	-4.21	ZAL	56.04	ZAP	27.88	ETS	168.66	ZAE	129.11	ETE	179.28	ZAC	26.79	ETC	40.48	CLP	27.59

PLANETOCENTRIC CONIC

C3 229.566 VHL 15.151 DLA -24.78 RAL 293.32 RAD 6571.3 VEL 18.732 PTH 3.06 VHP 24.564 DPA -24.76 RAP 242.96 ECC 4.7781

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 34 6	1841.77	-9.13	19.11	189.63	116.92	12 4 48	1241.8	-5.44	12.37
90.00	15 41 46	1021.59	16.31	332.30	201.48	113.47	15 58 48	421.6	19.35	324.94
100.00	12 33 23	1650.39	-11.87	3.61	188.19	117.64	13 0 53	1050.4	-8.08	356.88
100.00	17 25 11	688.21	19.14	309.06	202.77	113.41	17 36 39	88.2	22.14	301.55
110.00	12 59 20	1568.99	-18.00	353.99	184.73	119.56	13 25 29	969.0	-13.93	347.24
110.00	19 15 43	5630.41	25.55	263.71	205.77	113.53	20 49 33	5030.4	28.50	255.77

DIFFERENTIAL CORRECTIONS

TDE	-.4544	TRA	-2.3251	TC3	-.1655	BAU	.5080	SGT	1104.0	SGR	500.1	SG3	36.5
RDE	-1.2621	RRA	.3573	RC3	.0043	FAU	.01057	RRT	-.1243	RRF	.1205	RTF	-.7241
FDE	.1796	FRA	.9594	FC3	-.0399	BSP	2916	SGB	1212.0	R23	-.0079	R13	.7247
BDE	1.3414	BRA	2.3524	BC3	.1655	FSP	-82	SG1	1106.2	SG2	495.2	THA	175.97

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

ST	337.9	SR	479.3	SS	292.5
CRT	.4263	CRS	.4095	CST	.9973
LSA	552.9	MSA	351.5	SSA	15.7
EL1	511.9	EL2	286.2	ALF	64.97

LAUNCH DATE SEP 10 1965 FLIGHT TIME 86.00 ARRIVAL DATE DEC 5 1965

HELIOCENTRIC CONIC DISTANCE 167.663

RL	150.63	LAL	.00	LOL	347.08	VL	19.403	GAL	24.10	AZL	92.39	HCA	54.40	SMA	95.77	ECC	.66335	INC	2.3917	VI	29.581
RP	108.20	LAP	-1.94	LOP	41.46	VP	32.671	GAP	-41.00	AZP	91.39	TAL	166.11	TAP	220.51	RCA	32.24	APO	159.31	VZ	35.023
RC	78.516	GL	-2.91	GP	-4.35	ZAL	54.88	ZAP	26.54	ETS	167.88	ZAE	129.23	ETE	179.66	ZAC	25.61	ETC	43.41	CLP	26.20

PLANETOCENTRIC CONIC

C3 211.811 VHL 14.554 DLA -24.48 RAL 294.56 RAD 6571.2 VEL 18.252 PTH 3.03 VHP 23.693 DPA -25.31 RAP 244.87 ECC 4.4859

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 33 51	1847.89	-9.32	19.46	189.94	116.86	12 4 38	1247.9	-5.64	12.71
90.00	15 51 52	991.97	17.10	330.49	202.07	112.92	16 8 23	392.0	20.06	323.06
100.00	12 34 4	1653.45	-11.96	3.79	188.55	117.60	13 1 38	1053.5	-8.18	357.05
100.00	17 34 19	661.64	19.85	307.41	203.29	112.82	17 45 20	61.6	22.77	299.83
110.00	13 1 19	1567.99	-17.97	353.93	185.17	119.58	13 27 27	968.0	-13.89	347.19
110.00	19 23 33	5607.91	26.15	262.23	206.17	112.84	20 57 1	5007.9	29.01	254.22

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TOE	-.4785	TRA	-2.3531	TC3	-.1755	BAU	.4970	SGT	1154.3	SGR	503.0	SG3	39.3	ST	359.1	SR	479.4	SS	308.3
RDE	-1.2118	RRA	.3674	RC3	.0037	FAU	.01061	RRT	-.1334	RRF	.1304	RTF	-.7387	CRT	.4374	CRS	.4289	CST	.9977
FDE	.1976	FRA	.9932	FC3	-.0433	BSP	3019	SGB	1259.1	R23	-.0095	R13	.7393	LSA	570.3	MSA	358.2	SSA	15.9
BDE	1.3028	BRA	2.3816	BC3	.1755	FSP	-88	SG1	1156.7	SG2	497.4	THA	175.92	ELI	519.7	EL2	297.9	ALF	61.91

LAUNCH DATE SEP 10 1965 FLIGHT TIME 88.00 ARRIVAL DATE DEC 7 1965

HELIOCENTRIC CONIC DISTANCE 173.699

RL	150.63	LAL	.00	LOL	347.08	VL	19.930	GAL	23.08	AZL	92.12	HCA	57.60	SMA	97.23	ECC	.63951	INC	2.1154	VI	29.581
RP	108.16	LAP	-1.79	LOP	44.66	VP	33.000	GAP	-39.31	AZP	91.13	TAL	165.27	TAP	222.87	RCA	35.05	APO	159.41	VZ	35.036
RC	76.333	GL	-2.77	GP	-4.50	ZAL	53.76	ZAP	25.21	ETS	167.01	ZAE	129.42	ETE	180.07	ZAC	24.51	ETC	46.68	CLP	24.83

PLANETOCENTRIC CONIC

C3 195.452 VHL 13.980 DLA -24.15 RAL 295.73 RAD 6571.1 VEL 17.798 PTH 2.99 VHP 22.847 DPA -25.86 RAP 246.82 ECC 4.2166

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 33 15	1853.94	-9.50	19.81	190.17	116.80	12 4 9	1253.9	-5.83	13.05
90.00	16 1 51	961.30	17.91	328.60	202.55	112.31	16 17 52	361.3	20.78	321.10
100.00	12 34 24	1656.54	-12.06	3.97	188.83	117.56	13 2 1	1056.5	-8.28	357.22
100.00	17 43 23	633.93	20.57	305.66	203.71	112.18	17 53 57	33.9	23.40	298.01
110.00	13 2 58	1566.99	-17.94	353.87	185.52	119.60	13 29 5	967.0	-13.86	347.13
110.00	19 31 19	5584.29	26.76	260.67	206.46	112.10	21 4 23	4984.3	29.52	252.57

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TOE	-.5023	TRA	-2.3819	TC3	-.1860	BAU	.4860	SGT	1207.2	SGR	505.2	SG3	42.2	ST	381.6	SR	478.7	SS	324.8
RDE	-1.1614	RRA	.3765	RC3	.0030	FAU	.01065	RRT	-.1431	RRF	.1410	RTF	-.7526	CRT	.4473	CRS	.4465	CST	.9979
FDE	.2163	FRA	1.0283	FC3	-.0472	BSP	3109	SGB	1308.7	R23	-.0113	R13	.7532	LSA	589.7	MSA	363.6	SSA	16.1
BDE	1.2654	BRA	2.4115	BC3	.1860	FSP	-95	SG1	1209.8	SG2	498.9	THA	175.87	ELI	528.3	EL2	309.2	ALF	58.53

LAUNCH DATE SEP 10 1965 FLIGHT TIME 90.00 ARRIVAL DATE DEC 9 1965

HELIOCENTRIC CONIC DISTANCE 179.825

RL	150.63	LAL	.00	LOL	347.08	VL	20.427	GAL	22.12	AZL	91.86	HCA	60.80	SMA	98.68	ECC	.61613	INC	1.8577	VI	29.581
RP	108.12	LAP	-1.62	LOP	47.87	VP	33.317	GAP	-37.70	AZP	90.91	TAL	164.45	TAP	225.25	RCA	37.88	APO	159.48	VZ	35.049
RC	74.169	GL	-2.62	GP	-4.66	ZAL	52.68	ZAP	23.91	ETS	166.02	ZAE	129.67	ETE	180.53	ZAC	23.49	ETC	50.30	CLP	23.48

PLANETOCENTRIC CONIC

C3 180.388 VHL 13.431 DLA -23.81 RAL 296.86 RAD 6570.9 VEL 17.370 PTH 2.96 VHP 22.026 DPA -26.41 RAP 248.79 ECC 3.9687

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 32 21	1859.94	-9.69	20.15	190.31	116.74	12 3 21	1259.9	-6.02	13.39
90.00	16 11 44	929.58	18.71	326.62	202.92	111.65	16 27 14	329.6	21.49	319.05
100.00	12 34 23	1659.67	-12.16	4.15	189.02	117.52	13 2 3	1059.7	-8.38	357.40
100.00	17 52 23	605.09	21.30	303.83	204.01	111.48	18 2 28	5.1	24.03	296.10
110.00	13 4 15	1566.01	-17.90	353.82	185.78	119.62	13 30 21	966.0	-13.82	347.08
110.00	19 39 0	5559.55	27.39	259.02	206.63	111.30	21 11 40	4959.5	30.03	250.82

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TOE	-.5584	TRA	-2.4437	TC3	-.2041	BAU	.4923	SGT	1286.7	SGR	506.7	SG3	45.5	ST	417.0	SR	476.8	SS	345.1
RDE	-1.1105	RRA	.3855	RC3	.0022	FAU	.01051	RRT	-.1460	RRF	.1508	RTF	-.7645	CRT	.4749	CRS	.4682	CST	.9981
FDE	.2402	FRA	1.0690	FC3	-.0505	BSP	2414	SGB	1382.9	R23	-.0195	R13	.7653	LSA	621.4	MSA	365.8	SSA	16.5
BDE	1.2430	BRA	2.4739	BC3	.2041	FSP	-93	SG1	1289.3	SG2	500.3	THA	176.12	ELI	546.6	EL2	320.1	ALF	52.90

LAUNCH DATE SEP 10 1965 FLIGHT TIME 92.00 ARRIVAL DATE DEC 11 1965

HELIOCENTRIC CONIC DISTANCE 186.022

RL	150.63	LAL	.00	LOL	347.08	VL	20.895	GAL	21.19	AZL	91.62	HCA	64.00	SMA	100.12	ECC	.59323	INC	1.6156	VI	29.581
RP	108.08	LAP	-1.45	LOP	51.07	VP	33.620	GAP	-36.14	AZP	90.71	TAL	163.65	TAP	227.65	RCA	40.73	APO	159.51	VZ	35.063
RC	72.025	GL	-2.44	GP	-4.83	ZAL	51.65	ZAP	22.63	ETS	164.90	ZAE	129.99	ETE	181.04	ZAC	22.59	ETC	54.29	CLP	22.13

PLANETOCENTRIC CONIC

C3 166.453 VHL 12.902 DLA -23.45 RAL 297.93 RAD 6570.8 VEL 16.964 PTH 2.92 VHP 21.227 DPA -26.94 RAP 250.79 ECC 3.7394

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 31 7	1865.74	-9.86	20.49	190.36	116.68	12 2 13	1265.7	-6.20	13.72
90.00	16 21 29	896.85	19.52	324.56	203.17	110.93	16 36 25	296.9	22.20	316.91
100.00	12 34 1	1662.70	-12.26	4.32	189.11	117.48	13 1 44	1062.7	-8.48	357.57
100.00	18 1 16	5863.16	22.03	279.82	204.19	110.73	19 38 59	5263.2	24.66	272.00
110.00	13 5 11	1564.96	-17.87	353.75	185.95	119.64	13 31 16	965.0	-13.79	347.02
110.00	19 46 35	5533.67	28.01	257.27	206.67	110.44	21 18 48	4933.7	30.53	248.98

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TOE	-.5029	TRA	-2.3942	TC3	-.1972	BAU	.4389	SGT	1285.3	SGR	508.2	SG3	48.6	ST	413.5	SR	475.1	SS	355.8
RDE	-1.0622	RRA	.3907	RC3	.0006	FAU	.01108	RRT	-.1755	RRF	.1675	RTF	-.7807	CRT	.4358	CRS	.4691	CST	.9975
FDE	.2495	FRA	1.0961	FC3	-.0576	BSP	4371	SGB	1382.2	R23	-.0063	R13	.7813	LSA	619.3	MSA	373.6	SSA	16.1
BDE	1.1752	BRA	2.4259	BC3	.1973	FSP	-124	SG1	1289.0	SG2	498.9	THA	175.33	ELI	536.9	EL2	329.4	ALF	53.86

LAUNCH DATE SEP 10 1965 FLIGHT TIME 94.00 ARRIVAL DATE DEC 13 1965

HELIOCENTRIC CONIC DISTANCE 192.303

RL 150.63 LAL .00 LOL 347.08 VL 21.337 GAL 20.32 AZL 91.39 HCA 67.21 SMA 101.55 ECC .57092 INC 1.3861 V1 29.581
RP 108.04 LAP -1.28 LOP 54.28 VP 33.910 GAP -34.65 AZP 90.54 TAL 162.86 TAP 230.07 RCA 43.57 APO 159.53 V2 35.076
RC 69.906 GL -2.24 GP -5.03 ZAL 50.66 ZAP 21.37 ETS 163.61 ZAE 130.39 ETE 181.61 ZAC 21.82 ETC 58.66 CLP 20.80

PLANETOCENTRIC CONIC

C3 153.643 VHL 12.395 DLA -23.06 RAL 298.94 RAD 6570.7 VEL 16.582 PTH 2.88 VHP 20.453 OPA -27.48 RAP 252.82 ECC 3.5286

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 29 33	1871.57	-10.04	20.82	190.33	116.62	12 0 45	1271.6	-6.39	14.05
90.00	16 31 9	865.04	20.33	322.41	203.30	110.15	16 45 32	263.0	22.89	314.67
100.00	12 33 17	1665.84	-12.35	4.50	189.12	117.44	13 1 3	1065.8	-8.58	357.74
100.00	18 10 6	5832.04	22.77	277.80	204.26	109.91	19 47 18	5232.0	25.28	269.89
110.00	13 5 46	1564.00	-17.83	353.70	186.04	119.66	13 31 50	964.0	-13.75	346.96
110.00	19 54 6	5506.64	28.64	255.42	206.59	109.51	21 25 53	4906.6	31.03	247.03

DIFFERENTIAL CORRECTIONS

TDE -.5396 TRA-2.4378 TC3 -.2118 BAU .4351
RDE-1.0120 RRA .3976 RC3 -.0008 FAU .01109
FDE .2723 FRA 1.1373 FC3 -.0625 BSP 4103
BDE 1.1469 BRA 2.4700 BC3 .2118 FSP -128

MID-COURSE EXECUTION ACCURACY

SGT 1355.7 SGR 508.7 SG3 52.3
RRT -.1841 RRF .1804 RTF -.7920
SGB 1448.0 R23 -.0120 R13 .7927
SG1 1359.4 SG2 498.6 THA 175.43

ORBIT DETERMINATION ACCURACY

ST 444.4 SR 471.6 SS 375.9
CRT .4517 CRS .4846 CST .9977
LSA 648.6 MSA 374.4 SSA 16.4
EL1 552.6 EL2 338.3 ALF 48.75

LAUNCH DATE SEP 10 1965 FLIGHT TIME 96.00 ARRIVAL DATE DEC 15 1965

HELIOCENTRIC CONIC DISTANCE 198.653

RL 150.63 LAL .00 LOL 347.08 VL 21.753 GAL 19.47 AZL 91.17 HCA 70.42 SMA 102.96 ECC .54921 INC 1.1671 V1 29.581
RP 108.00 LAP -1.10 LOP 57.49 VP 34.186 GAP -33.21 AZP 90.39 TAL 162.10 TAP 232.52 RCA 46.41 APO 159.51 V2 35.089
RC 67.813 GL -2.01 GP -5.24 ZAL 49.70 ZAP 20.14 ETS 162.13 ZAE 130.87 ETE 182.24 ZAC 21.19 ETC 63.37 CLP 19.48

PLANETOCENTRIC CONIC

C3 141.824 VHL 11.909 DLA -22.65 RAL 299.90 RAD 6570.5 VEL 16.222 PTH 2.85 VHP 19.700 OPA -28.00 RAP 254.88 ECC 3.3341

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 27 40	1877.36	-10.22	21.16	190.21	116.55	11 58 57	1277.4	-6.57	14.38
90.00	16 40 42	828.16	21.13	320.16	203.31	109.30	16 54 30	228.2	23.57	312.34
100.00	12 32 12	1669.03	-12.45	4.69	189.05	117.40	13 0 2	1069.0	-8.69	357.92
100.00	18 18 51	5799.76	23.50	275.68	204.20	109.02	19 55 30	5199.8	25.88	267.69
110.00	13 6 0	1563.09	-17.80	353.65	186.04	119.67	13 32 3	963.1	-13.72	346.91
110.00	20 1 33	5478.46	29.27	253.46	206.38	108.50	21 32 51	4878.5	31.31	244.97

DIFFERENTIAL CORRECTIONS

TDE -.5570 TRA-2.4625 TC3 -.2221 BAU .4211
RDE -.9626 RRA .4033 RC3 -.0026 FAU .01123
FDE .2934 FRA 1.1775 FC3 -.0685 BSP 4276
BDE 1.1121 BRA 2.4953 BC3 .2221 FSP -139

MID-COURSE EXECUTION ACCURACY

SGT 1414.1 SGR 508.6 SG3 56.2
RRT -.1983 RRF .1955 RTF -.8037
SGB 1502.8 R23 -.0140 R13 .8045
SG1 1418.2 SG2 497.1 THA 175.35

ORBIT DETERMINATION ACCURACY

ST 469.5 SR 467.4 SS 395.0
CRT .4549 CRS .4955 CST .9974
LSA 673.6 MSA 375.3 SSA 16.5
EL1 565.0 EL2 345.8 ALF 44.72

LAUNCH DATE SEP 10 1965 FLIGHT TIME 98.00 ARRIVAL DATE DEC 17 1965

HELIOCENTRIC CONIC DISTANCE 205.067

RL 150.63 LAL .00 LOL 347.08 VL 22.145 GAL 18.67 AZL 90.96 HCA 73.63 SMA 104.36 ECC .52813 INC .9564 V1 29.581
RP 107.96 LAP -.92 LOP 60.71 VP 34.450 GAP -31.82 AZP 90.27 TAL 161.36 TAP 234.99 RCA 49.24 APO 159.47 V2 35.101
RC 65.751 GL -1.75 GP -5.46 ZAL 48.79 ZAP 18.94 ETS 160.40 ZAE 131.42 ETE 182.94 ZAC 20.74 ETC 68.38 CLP 18.16

PLANETOCENTRIC CONIC

C3 130.929 VHL 11.442 DLA -22.22 RAL 300.81 RAD 6570.4 VEL 15.883 PTH 2.81 VHP 18.969 OPA -28.53 RAP 256.96 ECC 3.1548

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 25 26	1883.18	-10.39	21.49	190.01	116.49	11 56 49	1283.2	-6.75	14.70
90.00	16 50 10	792.17	21.92	317.82	203.19	108.38	17 3 22	192.2	24.23	309.91
100.00	12 30 46	1672.32	-12.56	4.88	188.89	117.35	12 58 38	1072.3	-8.79	358.11
100.00	18 27 31	5766.30	24.23	273.46	204.01	108.07	20 3 38	5166.3	26.47	265.38
110.00	13 5 51	1562.29	-17.78	353.60	185.95	119.69	13 31 54	962.3	-13.69	346.87
110.00	20 8 55	5449.09	29.88	251.40	206.04	107.42	21 39 44	4849.1	31.97	242.81

DIFFERENTIAL CORRECTIONS

TDE -.5740 TRA-2.4870 TC3 -.2326 BAU .4072
RDE -.9135 RRA .4085 RC3 -.0047 FAU .01138
FDE .3153 FRA 1.2196 FC3 -.0753 BSP 4445
BDE 1.0789 BRA 2.5203 BC3 .2326 FSP -150

MID-COURSE EXECUTION ACCURACY

SGT 1475.0 SGR 508.1 SG3 60.5
RRT -.2135 RRF .2120 RTF -.8148
SGB 1560.0 R23 -.0163 R13 .8156
SG1 1479.5 SG2 494.9 THA 175.26

ORBIT DETERMINATION ACCURACY

ST 495.7 SR 462.2 SS 415.0
CRT .4571 CRS .5050 CST .9971
LSA 700.5 MSA 375.0 SSA 16.6
EL1 579.3 EL2 351.8 ALF 40.65

LAUNCH DATE SEP 10 1965 FLIGHT TIME 100.00 ARRIVAL DATE DEC 19 1965

HELIOCENTRIC CONIC DISTANCE 211.541

RL 150.63 LAL .00 LOL 347.08 VL 22.514 GAL 17.90 AZL 90.75 HCA 76.84 SMA 105.73 ECC .50771 INC .7524 V1 29.581
RP 107.92 LAP -.73 LOP 63.92 VP 34.701 GAP -30.49 AZP 90.17 TAL 160.65 TAP 237.49 RCA 52.05 APO 159.40 V2 35.114
RC 63.722 GL -1.47 GP -5.72 ZAL 47.91 ZAP 17.77 ETS 158.40 ZAE 132.05 ETE 183.72 ZAC 20.47 ETC 73.62 CLP 16.85

PLANETOCENTRIC CONIC

C3 120.885 VHL 10.995 DLA -21.76 RAL 301.66 RAD 6570.3 VEL 15.563 PTH 2.77 VHP 18.259 OPA -29.04 RAP 259.07 ECC 2.9895

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 22 50	1889.11	-10.57	21.84	189.73	116.42	11 54 19	1289.1	-6.94	15.04
90.00	16 59 33	755.03	22.70	315.37	202.94	107.40	17 12 8	155.0	24.87	307.38
100.00	12 28 56	1675.78	-12.67	5.08	188.65	117.30	12 56 52	1075.8	-8.91	358.30
100.00	18 36 8	5731.64	24.94	271.13	203.70	107.04	20 11 40	5131.6	27.03	262.95
110.00	13 5 21	1561.66	-17.76	353.56	185.78	119.70	13 31 22	961.7	-13.67	346.83
110.00	20 16 13	5418.52	30.49	249.22	205.57	106.27	21 46 32	4818.5	32.41	240.53

DIFFERENTIAL CORRECTIONS

TDE -.5864 TRA-2.5074 TC3 -.2419 BAU .3911
RDE -.8650 RRA .4131 RC3 -.0073 FAU .01159
FDE .3376 FRA 1.2631 FC3 -.0830 BSP 4700
BDE 1.0451 BRA 2.5412 BC3 .2420 FSP -164

MID-COURSE EXECUTION ACCURACY

SGT 1534.8 SGR 507.1 SG3 65.0
RRT -.2310 RRF .2303 RTF -.8256
SGB 1616.4 R23 -.0182 R13 .8264
SG1 1539.8 SG2 491.8 THA 175.14

ORBIT DETERMINATION ACCURACY

ST 521.3 SR 456.1 SS 435.5
CRT .4560 CRS .5125 CST .9966
LSA 727.5 MSA 374.0 SSA 16.7
EL1 594.1 EL2 356.2 ALF 36.81

LAUNCH DATE SEP 10 1965 FLIGHT TIME 102.00 ARRIVAL DATE DEC 21 1965

HELIOCENTRIC CONIC DISTANCE 218.069

RL 150.63 LAL .00 LOL 347.08 VL 22.862 GAL 17.16 AZL 90.55 HCA 80.06 SMA 107.07 ECC .48796 INC .5535 VI 29.581
RP 107.89 LAP -.55 LOP 67.14 VP 34.940 GAP -29.20 AZP 90.10 TAL 159.96 TAP 240.02 RCA 54.82 APO 159.32 V2 35.126
RC 61.731 GL -1.14 GP -5.99 ZAL 47.08 ZAP 16.63 ETS 156.04 ZAE 132.77 ETE 184.60 ZAC 20.40 ETC 78.99 CLP 15.54

PLANETOCENTRIC CONIC

C3 111.632 VHL 10.566 DLA -21.27 RAL 302.46 RAD 6570.1 VEL 15.263 PTH 2.74 VHP 17.569 DPA -29.56 RAP 261.19 ECC 2.8372

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 19 53	1895.25	-10.76	22.19	189.37	116.35	11 51 28	1295.2	-7.13	15.39
90.00	17 8 52	716.72	23.46	312.82	202.56	106.33	17 20 49	116.7	25.47	304.73
100.00	12 26 43	1679.50	-12.78	5.29	188.32	117.25	12 54 43	1079.5	-9.03	358.51
100.00	18 44 42	5695.74	25.63	268.69	203.25	105.93	20 19 38	5095.7	27.57	260.42
110.00	13 4 27	1561.28	-17.74	353.54	185.53	119.71	13 30 28	961.3	-13.66	346.81
110.00	20 23 29	5386.73	31.07	246.93	204.96	105.02	21 53 15	4786.7	32.82	238.14

DIFFERENTIAL CORRECTIONS
TDE -.6013 TRA-2.5304 TC3 -.2522 BAU .3767
RDE -.8169 RRA .4175 RC3 -.0103 FAU .01180
FDE .3615 FRA 1.3094 FC3 -.0915 BSP 4877
BOE 1.0144 BRA 2.5646 BC3 .2524 FSP -177

MID-COURSE EXECUTION ACCURACY
SGT 1599.5 SGR 505.7 SG3 70.0
RRT -.2494 RRF .2502 RTF -.8356
SGB 1677.6 R23 -.0211 R13 .8365
SG1 1605.0 SG2 488.1 THA 175.03

ORBIT DETERMINATION ACCURACY
ST 549.3 SR 449.0 SS 457.2
CRT .4552 CRS .5190 CST .9962
LSA 757.6 MSA 371.7 SSA 16.9
EL1 612.0 EL2 358.8 ALF 32.98

LAUNCH DATE SEP 10 1965 FLIGHT TIME 104.00 ARRIVAL DATE DEC 23 1965

HELIOCENTRIC CONIC DISTANCE 224.647

RL 150.63 LAL .00 LOL 347.08 VL 23.189 GAL 16.45 AZL 90.36 HCA 83.28 SMA 108.39 ECC .46891 INC .3583 VI 29.581
RP 107.85 LAP -.36 LOP 70.36 VP 35.167 GAP -27.96 AZP 90.04 TAL 159.30 TAP 242.58 RCA 57.56 APO 159.21 V2 35.138
RC 59.781 GL -.79 GP -6.29 ZAL 46.28 ZAP 15.54 ETS 153.26 ZAE 133.57 ETE 185.58 ZAC 20.53 ETC 84.37 CLP 14.24

PLANETOCENTRIC CONIC

C3 103.111 VHL 10.154 DLA -20.75 RAL 303.20 RAD 6570.0 VEL 14.982 PTH 2.70 VHP 16.900 DPA -30.07 RAP 263.34 ECC 2.6969

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 16 31	1901.69	-10.95	22.56	188.93	116.28	11 48 13	1301.7	-7.34	15.75
90.00	17 18 8	677.19	24.19	310.16	202.05	105.19	17 29 25	77.2	26.04	301.98
100.00	12 24 6	1683.58	-12.91	5.53	187.92	117.20	12 52 10	1083.6	-9.16	358.74
100.00	18 53 14	5658.56	26.30	266.13	202.67	104.74	20 27 32	5058.6	28.07	257.77
110.00	13 3 8	1561.23	-17.74	353.54	185.21	119.71	13 29 10	961.2	-13.65	346.81
110.00	20 30 41	5353.68	31.63	244.51	204.22	103.70	21 59 55	4753.7	33.19	235.63

DIFFERENTIAL CORRECTIONS
TDE -.6126 TRA-2.5497 TC3 -.2613 BAU .3607
RDE -.7694 RRA .4217 RC3 -.0139 FAU .01205
FDE .3861 FRA 1.3576 FC3 -.1011 BSP 5119
BOE .9835 BRA 2.5843 BC3 .2617 FSP -193

MID-COURSE EXECUTION ACCURACY
SGT 1663.7 SGR 504.0 SG3 75.4
RRT -.2700 RRF .2722 RTF -.8453
SGB 1738.4 R23 -.0237 R13 .8462
SG1 1669.8 SG2 483.5 THA 174.89

ORBIT DETERMINATION ACCURACY
ST 576.8 SR 440.8 SS 479.6
CRT .4517 CRS .5236 CST .9955
LSA 788.0 MSA 368.6 SSA 17.0
EL1 630.6 EL2 359.8 ALF 29.46

LAUNCH DATE SEP 10 1965 FLIGHT TIME 106.00 ARRIVAL DATE DEC 25 1965

HELIOCENTRIC CONIC DISTANCE 231.270

RL 150.63 LAL .00 LOL 347.08 VL 23.497 GAL 15.77 AZL 90.17 HCA 86.50 SMA 109.68 ECC .45055 INC .1652 VI 29.581
RP 107.81 LAP -.17 LOP 73.58 VP 35.382 GAP -26.76 AZP 90.01 TAL 158.67 TAP 245.16 RCA 60.26 APO 159.09 V2 35.149
RC 57.879 GL -.38 GP -6.62 ZAL 45.53 ZAP 14.50 ETS 149.97 ZAE 134.46 ETE 186.69 ZAC 20.88 ETC 89.66 CLP 12.93

PLANETOCENTRIC CONIC

C3 95.267 VHL 9.760 DLA -20.19 RAL 303.88 RAD 6569.9 VEL 14.718 PTH 2.66 VHP 16.250 DPA -30.59 RAP 265.51 ECC 2.5678

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 12 45	1908.58	-11.16	22.96	188.41	116.19	11 44 34	1308.6	-7.55	16.14
90.00	17 27 21	636.38	24.89	307.37	201.41	103.96	17 37 57	36.4	26.56	299.10
100.00	12 21 3	1688.15	-13.05	5.79	187.44	117.13	12 49 12	1088.1	-9.31	359.00
100.00	19 1 44	5620.08	26.94	263.44	201.96	103.47	20 35 24	5020.1	28.53	255.00
110.00	13 1 25	1561.65	-17.76	353.56	184.80	119.70	13 27 27	961.7	-13.67	346.83
110.00	20 37 51	5319.34	32.16	241.97	203.33	102.28	22 6 31	4719.3	33.51	233.00

DIFFERENTIAL CORRECTIONS
TDE -.6224 TRA-2.5678 TC3 -.2698 BAU .3444
RDE -.7224 RRA .4258 RC3 -.0181 FAU .01233
FDE .4119 FRA 1.4085 FC3 -.1120 BSP 5376
BOE .9536 BRA 2.6029 BC3 .2704 FSP -210

MID-COURSE EXECUTION ACCURACY
SGT 1729.3 SGR 502.0 SG3 81.2
RRT -.2929 RRF .2965 RTF -.8545
SGB 1800.7 R23 -.0267 R13 .8554
SG1 1736.0 SG2 478.1 THA 174.74

ORBIT DETERMINATION ACCURACY
ST 604.9 SR 431.5 SS 503.0
CRT .4462 CRS .5266 CST .9948
LSA 819.7 MSA 364.7 SSA 17.0
EL1 650.5 EL2 359.1 ALF 26.18

LAUNCH DATE SEP 10 1965 FLIGHT TIME 108.00 ARRIVAL DATE DEC 27 1965

HELIOCENTRIC CONIC DISTANCE 237.932

RL 150.63 LAL .00 LOL 347.08 VL 23.786 GAL 15.12 AZL 89.97 HCA 89.72 SMA 110.93 ECC .43290 INC .0221 VI 29.581
RP 107.78 LAP .03 LOP 76.80 VP 35.585 GAP -25.60 AZP 90.00 TAL 158.07 TAP 247.79 RCA 62.91 APO 158.95 V2 35.160
RC 56.028 GL .06 GP -6.99 ZAL 44.83 ZAP 13.54 ETS 146.06 ZAE 135.44 ETE 187.95 ZAC 21.43 ETC 94.73 CLP 11.63

PLANETOCENTRIC CONIC

C3 88.052 VHL 9.384 DLA -19.60 RAL 304.51 RAD 6569.7 VEL 14.471 PTH 2.63 VHP 15.619 DPA -31.11 RAP 267.69 ECC 2.4491

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 8 32	1916.06	-11.39	23.40	187.82	116.10	11 40 28	1316.1	-7.79	16.57
90.00	17 36 33	5882.28	25.55	282.37	200.63	102.65	19 14 36	5282.3	27.04	274.01
100.00	12 17 33	1693.33	-13.21	6.09	186.88	117.06	12 45 47	1093.3	-9.48	359.29
100.00	19 10 13	5580.24	27.54	260.64	201.12	102.11	20 43 14	4980.2	28.93	252.11
110.00	12 59 15	1562.66	-17.79	353.62	184.32	119.68	13 25 18	962.7	-13.71	346.89
110.00	20 45 1	5283.67	32.64	239.30	202.31	100.77	22 13 5	4683.7	33.78	230.25

DIFFERENTIAL CORRECTIONS
TDE -.6317 TRA-2.5852 TC3 -.2779 BAU .3283
RDE -.6760 RRA .4302 RC3 -.0229 FAU .01264
FDE .4392 FRA 1.4623 FC3 -.1243 BSP 5624
BOE .9252 BRA 2.6208 BC3 .2789 FSP -228

MID-COURSE EXECUTION ACCURACY
SGT 1796.8 SGR 500.0 SG3 87.5
RRT -.3179 RRF .3233 RTF -.8632
SGB 1865.1 R23 -.0301 R13 .8642
SG1 1804.3 SG2 472.1 THA 174.57

ORBIT DETERMINATION ACCURACY
ST 633.8 SR 421.2 SS 527.5
CRT .4390 CRS .5278 CST .9939
LSA 852.9 MSA 359.9 SSA 17.1
EL1 672.1 EL2 356.8 ALF 23.13

LAUNCH DATE SEP 10 1965 FLIGHT TIME 110.00 ARRIVAL DATE DEC 29 1965

HELIOCENTRIC CONIC DISTANCE 244.631

RL	150.63	LAL	.00	LOL	347.08	VL	24.058	GAL	14.50	AZL	89.78	HCA	92.95	SMA	112.15	ECC	.41596	INC	.2166	VI	29.581
RP	107.75	LAP	.22	LOP	80.03	VP	35.778	GAP	-24.48	AZP	90.01	TAL	157.50	TAP	250.44	RCA	65.50	APO	158.80	V2	35.171
RC	54.237	GL	.56	GP	-7.39	ZAL	44.16	ZAP	12.67	ETS	141.44	ZAE	136.51	ETE	189.37	ZAC	22.17	ETC	99.50	CLP	10.32

PLANETOCENTRIC CONIC

C3	81.422	VHL	9.023	DLA	-18.96	RAL	305.07	RAD	6569.6	VEL	14.240	PTH	2.59	VHP	15.008	DPA	-31.64	RAP	269.89	ECC	2.3400

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 3 51	1924.31	-11.63	23.88	187.16	116.00	11 35 56	1324.3	-8.04	17.04
90.00	17 45 46	5838.75	26.16	279.33	199.72	101.24	19 23 5	5238.8	27.45	270.90
100.00	12 13 35	1699.32	-13.40	6.44	186.26	116.97	12 41 54	1099.3	-9.67	359.63
100.00	19 18 44	5538.98	28.10	257.70	200.14	100.65	20 51 3	4939.0	29.28	249.09
110.00	12 56 38	1564.42	-17.85	353.72	183.77	119.65	13 22 42	964.4	-13.77	346.99
110.00	20 52 10	5246.64	33.08	236.50	201.15	99.16	22 19 37	4646.6	33.99	227.38

DIFFERENTIAL CORRECTIONS

TDE	-.6395	TRA	-2.6012	TC3	-.2850	BAU	.3118
RDE	-.6301	RRA	.4349	RC3	-.0286	FAU	.01298
FDE	.4679	FRA	1.5193	FC3	-.1381	BSP	5888
BDE	.8978	BRA	2.6373	BC3	.2865	FSP	-249

MID-COURSE EXECUTION ACCURACY

SGT	1865.4	SGR	498.0	SG3	94.3
RRT	-.3455	RRF	.3530	RTF	-.8715
SGB	1930.7	R23	-.0340	R13	.8726
SG1	1873.8	SG2	465.2	THA	174.38

ORBIT DETERMINATION ACCURACY

ST	663.1	SR	409.6	SS	553.1
CRT	.4293	CRS	.5269	CST	.9930
LSA	887.4	MSA	354.3	SSA	17.2
EL1	694.8	EL2	353.0	ALF	20.31

LAUNCH DATE SEP 10 1965 FLIGHT TIME 112.00 ARRIVAL DATE DEC 31 1965

HELIOCENTRIC CONIC DISTANCE 251.361

RL	150.63	LAL	.00	LOL	347.08	VL	24.313	GAL	13.90	AZL	89.59	HCA	96.17	SMA	113.33	ECC	.39972	INC	.4094	VI	29.581
RP	107.72	LAP	.41	LOP	83.25	VP	35.960	GAP	-23.40	AZP	90.04	TAL	156.96	TAP	253.13	RCA	68.03	APO	158.63	V2	35.181
RC	52.511	GL	1.11	GP	-7.84	ZAL	43.55	ZAP	11.92	ETS	136.01	ZAE	137.66	ETE	191.00	ZAC	23.09	ETC	103.92	CLP	9.01

PLANETOCENTRIC CONIC

C3	75.336	VHL	8.680	DLA	-18.28	RAL	305.58	RAD	6569.5	VEL	14.024	PTH	2.56	VHP	14.415	DPA	-32.18	RAP	272.10	ECC	2.2398

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 58 40	1933.54	-11.91	24.42	186.44	115.88	11 30 54	1333.5	-8.33	17.57
90.00	17 55 1	5793.76	26.72	276.15	198.67	99.74	19 31 34	5193.8	27.79	267.65
100.00	12 9 6	1706.28	-13.61	6.85	185.57	116.87	12 37 32	1106.3	-9.90	.02
100.00	19 27 16	5496.25	28.59	254.62	199.02	99.11	20 58 53	4896.2	29.56	245.95
110.00	12 53 31	1567.10	-17.94	353.88	183.16	119.60	13 19 38	967.1	-13.86	347.14
110.00	20 59 20	5208.19	33.46	233.57	199.85	97.46	22 26 9	4608.2	34.13	224.39

DIFFERENTIAL CORRECTIONS

TDE	-.6473	TRA	-2.6169	TC3	-.2917	BAU	.2959
RDE	-.5847	RRA	.4402	RC3	-.0351	FAU	.01336
FDE	.4987	FRA	1.5801	FC3	-.1535	BSP	6137
BDE	.8723	BRA	2.6537	BC3	.2938	FSP	-271

MID-COURSE EXECUTION ACCURACY

SGT	1936.2	SGR	496.3	SG3	101.7
RRT	-.3757	RRF	.3857	RTF	-.8793
SGB	1998.8	R23	-.0386	R13	.8804
SG1	1945.7	SG2	457.7	THA	174.17

ORBIT DETERMINATION ACCURACY

ST	693.3	SR	396.7	SS	580.2
CRT	.4175	CRS	.5236	CST	.9920
LSA	923.8	MSA	347.8	SSA	17.3
EL1	719.3	EL2	347.5	ALF	17.70

LAUNCH DATE SEP 10 1965 FLIGHT TIME 114.00 ARRIVAL DATE JAN 2 1966

HELIOCENTRIC CONIC DISTANCE 258.118

RL	150.63	LAL	.00	LOL	347.08	VL	24.552	GAL	13.33	AZL	89.40	HCA	99.40	SMA	114.47	ECC	.38418	INC	.6046	VI	29.581
RP	107.69	LAP	.60	LOP	86.48	VP	36.132	GAP	-22.35	AZP	90.10	TAL	156.45	TAP	255.86	RCA	70.49	APO	158.45	V2	35.191
RC	50.858	GL	1.73	GP	-8.33	ZAL	42.98	ZAP	11.32	ETS	129.71	ZAE	138.90	ETE	192.88	ZAC	24.19	ETC	107.94	CLP	7.69

PLANETOCENTRIC CONIC

C3	69.756	VHL	8.352	DLA	-17.55	RAL	306.03	RAD	6569.3	VEL	13.824	PTH	2.52	VHP	13.842	DPA	-32.74	RAP	274.33	ECC	2.1480

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 52 56	1943.96	-12.22	25.03	185.65	115.75	11 25 20	1344.0	-8.65	18.16
90.00	18 4 19	5747.23	27.21	272.83	197.49	98.15	19 40 6	5147.2	28.06	264.27
100.00	12 4 3	1714.45	-13.86	7.32	184.82	116.75	12 32 38	1114.5	-10.16	.49
100.00	19 35 53	5451.97	29.03	251.40	197.77	97.47	21 6 44	4852.0	29.76	242.67
110.00	12 49 52	1570.92	-18.07	354.10	182.48	119.52	13 16 3	970.9	-14.00	347.39
110.00	21 6 33	5168.27	33.77	230.49	198.41	95.67	22 32 41	4568.3	34.18	221.27

DIFFERENTIAL CORRECTIONS

TDE	-.6566	TRA	-2.6340	TC3	-.2986	BAU	.2813
RDE	-.5396	RRA	.4466	RC3	-.0425	FAU	.01374
FDE	.5321	FRA	1.6454	FC3	-.1705	BSP	6331
BDE	.8499	BRA	2.6716	BC3	.3016	FSP	-293

MID-COURSE EXECUTION ACCURACY

SGT	2010.8	SGR	495.3	SG3	109.8
RRT	-.4085	RRF	.4217	RTF	-.8865
SGB	2070.9	R23	-.0443	R13	.8878
SG1	2021.4	SG2	449.7	THA	173.95

ORBIT DETERMINATION ACCURACY

ST	725.5	SR	382.5	SS	609.2
CRT	.4035	CRS	.5177	CST	.9910
LSA	963.1	MSA	340.3	SSA	17.4
EL1	746.2	EL2	340.3	ALF	15.26

LAUNCH DATE SEP 10 1965 FLIGHT TIME 116.00 ARRIVAL DATE JAN 4 1966

HELIOCENTRIC CONIC DISTANCE 264.898

RL	150.63	LAL	.00	LOL	347.08	VL	24.777	GAL	12.78	AZL	89.20	HCA	102.63	SMA	115.58	ECC	.36934	INC	.8035	VI	29.581
RP	107.66	LAP	.78	LOP	89.71	VP	36.293	GAP	-21.33	AZP	90.18	TAL	155.98	TAP	258.62	RCA	72.89	APO	158.26	V2	35.200
RC	49.288	GL	2.42	GP	-8.88	ZAL	42.46	ZAP	10.91	ETS	122.60	ZAE	140.20	ETE	195.03	ZAC	25.43	ETC	111.55	CLP	6.37

PLANETOCENTRIC CONIC

C3	64.646	VHL	8.040	DLA	-16.75	RAL	306.41	RAD	6569.2	VEL	13.638	PTH	2.49	VHP	13.286	DPA	-33.33	RAP	276.57	ECC	2.0639

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 46 36	1955.84	-12.57	25.72	184.81	115.59	11 19 12	1355.8	-9.02	18.84
90.00	18 13 43	5699.07	27.63	269.37	196.18	96.46	19 48 42	5099.1	28.24	260.76
100.00	11 58 26	1724.07	-14.16	7.89	184.01	116.61	12 27 10	1124.1	-10.47	1.03
100.00	19 44 34	5406.07	29.39	248.03	196.40	95.73	21 14 40	4806.1	29.87	239.26
110.00	12 45 40	1576.10	-18.24	354.40	181.75	119.42	13 11 56	976.1	-14.18	347.64
110.00	21 13 50	5126.81	34.00	227.28	196.85	93.78	22 39 16	4526.8	34.15	218.03

DIFFERENTIAL CORRECTIONS

TDE	-.6627	TRA	-2.6472	TC3	-.3029	BAU	.2855
RDE	-.4950	RRA	.4541	RC3	-.0510	FAU	.01418
FDE	.5674	FRA	1.7146	FC3	-.1899	BSP	6590
BDE	.8271	BRA	2.6859	BC3	.3072	FSP	-319

MID-COURSE EXECUTION ACCURACY

SGT	2083.6	SGR	495.3	SG3	118.6
RRT	-.4450	RRF	.4612	RTF	-.8935
SGB	2141.6	R23	-.0502	R13	.8949
SG1	2095.7	SG2	441.0	THA	173.68

ORBIT DETERMINATION ACCURACY

ST	756.6	SR	367.0	SS	639.3
CRT	.3842	CRS	.5078	CST	.9898
LSA	1002.5	MSA	332.3	SSA	17.4
EL1	772.7	EL2	331.8	ALF	12.99

LAUNCH DATE SEP 10 1965 FLIGHT TIME 126.00 ARRIVAL DATE JAN 14 1966

HELIOCENTRIC CONIC DISTANCE 299.017

RL	150.63	LAL	.00	LOL	347.08	VL	25.701	GAL	10.39	AZL	88.09	HCA	118.80	SMA	120.47	ECC	.30521	INC	1.9108	VI	29.581
RP	107.55	LAP	1.67	LOP	105.90	VP	36.965	GAP	-16.70	AZP	90.92	TAL	154.17	TAP	272.97	RCA	83.70	APO	157.24	V2	35.237
RC	43.015	GL	7.21	GP	-12.81	ZAL	40.83	ZAP	12.82	ETS	84.77	ZAE	146.86	ETE	212.16	ZAC	33.55	ETC	125.92	CLP	-.48

PLANETOCENTRIC CONIC

C3	45.171	VHL	6.721	DLA	-11.60	RAL	307.33	RAD	6568.7	VEL	12.905	PTH	2.35	VHP	10.792	DPA	-36.97	RAP	287.96	ECC	1.7434

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 4 7	2048.65	-15.23	31.24	180.07	114.17	10 38 16	1448.7	-11.84	24.20
90.00	19 3 32	5429.39	28.14	249.71	187.88	86.66	20 34 1	4829.4	27.37	241.13
100.00	11 19 36	1805.15	-16.57	12.70	179.42	115.24	11 49 41	1205.2	-13.03	5.69
100.00	20 30 45	5148.12	29.61	228.91	187.77	85.70	21 56 33	4548.1	28.70	220.23
110.00	12 14 34	1633.02	-20.11	357.76	177.55	118.24	12 41 47	1033.0	-16.18	350.84
110.00	21 52 16	4893.03	33.55	209.08	187.32	83.05	23 13 49	4293.0	32.23	200.10

DIFFERENTIAL CORRECTIONS

TDE	-.6853	TRA	-2.6977	TC3	-.2951	BAU	.1913												
RDE	-.2698	RRA	.5249	RC3	-.1152	FAU	.01701												
FDE	.7949	FRA	2.1416	FC3	-.3260	BSP	7973												
BDE	.7365	BRA	2.7483	BC3	.3168	FSP	-490												

MID-COURSE EXECUTION ACCURACY

SGT	2451.6	SGR	534.4	SG3	175.5														
RRT	-.6691	RRF	.7034	RTF	-.9234														
SGB	2509.2	R23	-.0931	R13	.9259														
SG1	2478.2	SG2	392.9	THA	171.49														

ORBIT DETERMINATION ACCURACY

ST	915.1	SR	267.8	SS	819.2														
CRT	.1547	CRS	.3365	CST	.9819														
LSA	1224.5	MSA	284.1	SSA	17.5														
EL1	916.2	EL2	264.3	ALF	2.83														

LAUNCH DATE SEP 10 1965 FLIGHT TIME 128.00 ARRIVAL DATE JAN 16 1966

HELIOCENTRIC CONIC DISTANCE 305.862

RL	150.63	LAL	.00	LOL	347.08	VL	25.851	GAL	9.98	AZL	87.83	HCA	122.04	SMA	121.32	ECC	.29431	INC	2.1693	VI	29.581
RP	107.53	LAP	1.84	LOP	109.14	VP	37.075	GAP	-15.86	AZP	91.15	TAL	153.91	TAP	275.95	RCA	85.61	APO	157.03	V2	35.242
RC	42.147	GL	8.52	GP	-13.93	ZAL	40.75	ZAP	14.05	ETS	79.09	ZAE	147.87	ETE	217.29	ZAC	35.52	ETC	125.42	CLP	-1.91

PLANETOCENTRIC CONIC

C3	42.336	VHL	6.507	DLA	-10.25	RAL	307.30	RAD	6568.6	VEL	12.795	PTH	2.33	VHP	10.352	DPA	-37.94	RAP	290.29	ECC	1.6967

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 52 55	2076.94	-16.01	32.95	179.09	113.67	10 27 32	1476.9	-12.67	25.86
90.00	19 14 27	5368.47	27.81	245.28	185.94	84.46	20 43 55	4768.5	26.75	236.78
100.00	11 9 11	1830.92	-17.31	14.25	178.47	114.76	11 39 41	1230.9	-13.83	7.19
100.00	20 40 53	5089.72	29.24	224.61	185.77	83.47	22 5 42	4489.7	28.02	216.02
110.00	12 5 52	1653.37	-20.76	358.98	176.67	117.79	12 33 26	1053.4	-16.88	352.00
110.00	22 0 40	4840.04	33.04	205.03	185.15	80.71	23 21 20	4240.0	31.41	196.19

DIFFERENTIAL CORRECTIONS

TDE	-.6916	TRA	-2.7067	TC3	-.2875	BAU	.1794												
RDE	-.2219	RRA	.5502	RC3	-.1334	FAU	.01766												
FDE	.8553	FRA	2.2466	FC3	-.3612	BSP	8222												
BDE	.7263	BRA	2.7620	BC3	.3170	FSP	-533												

MID-COURSE EXECUTION ACCURACY

SGT	2525.4	SGR	557.5	SG3	189.9														
RRT	-.7164	RRF	.7544	RTF	-.9283														
SGB	2586.2	R23	-.1055	R13	.9312														
SG1	2557.5	SG2	384.1	THA	170.80														

ORBIT DETERMINATION ACCURACY

ST	948.2	SR	245.0	SS	863.1														
CRT	.0505	CRS	.2454	CST	.9801														
LSA	1276.3	MSA	273.4	SSA	17.4														
EL1	948.3	EL2	244.7	ALF	.80														

LAUNCH DATE SEP 10 1965 FLIGHT TIME 130.00 ARRIVAL DATE JAN 18 1966

HELIOCENTRIC CONIC DISTANCE 312.707

RL	150.63	LAL	.00	LOL	347.08	VL	25.990	GAL	9.58	AZL	87.55	HCA	125.28	SMA	122.13	ECC	.28402	INC	2.4468	VI	29.581
RP	107.51	LAP	2.00	LOP	112.38	VP	37.177	GAP	-15.04	AZP	91.41	TAL	153.69	TAP	278.97	RCA	87.44	APO	156.81	V2	35.247
RC	41.430	GL	9.99	GP	-15.20	ZAL	40.78	ZAP	15.56	ETS	74.38	ZAE	148.59	ETE	223.04	ZAC	37.60	ETC	126.64	CLP	-3.36

PLANETOCENTRIC CONIC

C3	39.818	VHL	6.310	DLA	-8.77	RAL	307.18	RAD	6568.5	VEL	12.696	PTH	2.31	VHP	9.933	DPA	-39.03	RAP	292.66	ECC	1.6553

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 40 34	2109.81	-16.90	34.96	178.13	113.07	10 15 44	1509.8	-13.63	27.80
90.00	19 25 52	5304.65	27.31	240.68	183.93	82.21	20 54 16	4704.6	25.95	232.28
100.00	10 57 38	1861.16	-18.16	16.09	177.55	114.16	11 28 39	1261.2	-14.75	8.96
100.00	20 51 28	5028.53	28.68	220.15	183.70	81.18	22 15 17	4428.5	27.16	211.67
110.00	11 56 9	1677.92	-21.53	.47	175.83	117.21	12 24 7	1077.9	-17.71	353.42
110.00	22 9 27	4784.53	32.36	200.85	182.93	78.32	23 29 11	4184.5	30.41	192.17

DIFFERENTIAL CORRECTIONS

TDE	-.6954	TRA	-2.7116	TC3	-.2735	BAU	.1671												
RDE	-.1720	RRA	.5811	RC3	-.1540	FAU	.01840												
FDE	.9210	FRA	2.3571	FC3	-.4000	BSP	8570												
BDE	.7164	BRA	2.7732	BC3	.3139	FSP	-583												

MID-COURSE EXECUTION ACCURACY

SGT	2593.1	SGR	589.2	SG3	205.3														
RRT	-.7620	RRF	.8027	RTF	-.9332														
SGB	2659.2	R23	-.1179	R13	.9365														
SG1	2632.5	SG2	375.9	THA	169.97														

ORBIT DETERMINATION ACCURACY

ST	978.5	SR	223.8	SS	908.9														
CRT	-.0960	CRS	.1116	CST	.9780														
LSA	1328.2	MSA	263.3	SSA	17.2														
EL1	978.7	EL2	222.7	ALF	178.67														

LAUNCH DATE SEP 10 1965 FLIGHT TIME 132.00 ARRIVAL DATE JAN 20 1966

HELIOCENTRIC CONIC DISTANCE 319.549

RL	150.63	LAL	.00	LOL	347.08	VL	26.120	GAL	9.21	AZL	87.25	HCA	128.51	SMA	122.89	ECC	.27435	INC	2.7476	VI	29.581
RP	107.50	LAP	2.15	LOP	115.63	VP	37.271	GAP	-14.24	AZP	91.71	TAL	153.51	TAP	282.02	RCA	89.18	APO	156.61	V2	35.251
RC	40.873	GL	11.63	GP	-16.66	ZAL	40.94	ZAP	17.33	ETS	70.58	ZAE	148.92	ETE	229.32	ZAC	39.81	ETC	127.61	CLP	-4.84

PLANETOCENTRIC CONIC

C3	37.611	VHL	6.133	DLA	-7.13	RAL	306.98	RAD	6568.5	VEL	12.609	PTH	2.29	VHP	9.539	DPA	-40.28	RAP	295.07	ECC	1.6190

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 26 55	2148.05	-17.90	37.31	177.23	112.31	10 2 43	1548.0	-14.72	30.08
90.00	19 37 52	5237.61	26.60	235.90	181.88	79.91	21 5 10	4637.6	24.93	227.63
100.00	10 44 51	1896.64	-19.14	18.28	176.68	113.41	11 16 27	1296.6	-15.81	11.07
100.00	21 2 38	4964.24	27.92	215.52	181.61	78.86	22 25 22	4364.2	26.10	207.19
110.00	11 45 18	1707.38	-22.44	2.27	175.03	116.49	12 13 45	1107.4	-18.70	355.13
110.00	22 18 40	4726.27	31.47	196.54	180.69	75.91	23 37 26	4126.3	29.22	188.06

DIFFERENTIAL CORRECTIONS

TDE	-.7061	TRA	-2.7213	TC3	-.2614	BAU	.1586												
RDE	-.1184	RRA	.6194	RC3	-.1766	FAU	.01905												
FDE	.9966	FRA	2.4761	FC3	-.4384	BSP	8799												
BDE	.7160	BRA	2.7909	BC3	.3155	FSP	-632												

MID-COURSE EXECUTION ACCURACY

SGT	2665.1	SGR	631.9	SG3	221.8														
RRT	-.8027	RRF	.8464	RTF	-.9376														
SGB	2739.0	R23	-.1324	R13	.9414														
SG1	2713.9	SG2	370.0	THA	169.02														

ORBIT DETERMINATION ACCURACY

ST	1013.0	SR	207.1	SS	959.8														
CRT	-.2929	CRS	-.0808	CST	.9762														
LSA	1387.8	MSA	253.1	SSA	16.9														
EL1	1014.9	EL2	197.6	ALF	176.44														

LAUNCH DATE SEP 10 1965 FLIGHT TIME 118.00 ARRIVAL DATE JAN 6 1966

HELIOCENTRIC CONIC DISTANCE 271.697

RL	150.63	LAL	.00	LOL	347.08	VL	24.987	GAL	12.26	AZL	88.99	HCA	105.86	SMA	116.64	ECC	.35519	INC	1.0077	VI	29.581
RP	107.63	LAP	.97	LOP	92.95	VP	36.446	GAP	-20.35	AZP	90.28	TAL	155.55	TAP	261.41	RCA	75.21	APO	158.07	V2	35.209
RC	47.809	GL	3.18	GP	-9.50	ZAL	42.00	ZAP	10.73	ETS	114.85	ZAE	141.56	ETE	197.53	ZAC	26.82	ETC	114.75	CLP	5.03

PLANETOCENTRIC CONIC

C3	59.976	VHL	7.743	DLA	-15.89	RAL	306.74	RAD	6569.1	VEL	13.466	PTH	2.46	VHP	12.750	DPA	-33.95	RAP	278.82	ECC	1.9871

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 39 39	1969.46	-12.97	26.53	183.92	115.40	11 12 28	1369.5	-9.44	19.62
90.00	18 23 14	5649.17	27.96	265.76	194.75	94.68	19 57 23	5049.2	28.31	257.11
100.00	11 52 11	1735.42	-14.50	8.55	183.16	116.43	12 21 6	1135.4	-10.83	1.68
100.00	19 53 23	5358.44	29.66	244.52	194.89	93.90	21 22 42	4758.4	29.89	235.72
110.00	12 40 52	1582.90	-18.47	354.80	180.97	119.29	13 7 15	982.9	-14.42	348.02
110.00	21 21 11	5083.72	34.14	223.92	195.16	91.80	22 45 55	4483.7	34.01	214.68

DIFFERENTIAL CORRECTIONS

TDE	-.6678	TRA	-2.6594	TC3	-.3056	BAU	.2499												
RDE	-.4505	RRA	.4631	RC3	-.0608	FAU	.01467												
FDE	.6054	FRA	1.7885	FC3	-.2117	BSP	6854												
BDE	.8056	BRA	2.6994	BC3	.3116	FSP	-348												

MID-COURSE EXECUTION ACCURACY

SGT	2157.1	SGR	496.9	SG3	128.2						
RRT	-.4847	RRF	.5043	RTF	-.9001						
SGB	2213.6	R23	-.0569	R13	.9017						
SG1	2171.0	SG2	431.8	THA	173.37						

ORBIT DETERMINATION ACCURACY

ST	788.0	SR	350.0	SS	671.0
CRT	.3594	CRS	.4931	CST	.9884
LSA	1043.4	MSA	323.7	SSA	17.5
EL1	800.0	EL2	321.8	ALF	10.84

LAUNCH DATE SEP 10 1965 FLIGHT TIME 120.00 ARRIVAL DATE JAN 8 1966

HELIOCENTRIC CONIC DISTANCE 278.512

RL	150.63	LAL	.00	LOL	347.08	VL	25.184	GAL	11.76	AZL	88.78	HCA	109.10	SMA	117.66	ECC	.34171	INC	1.2186	VI	29.581
RP	107.61	LAP	1.15	LOP	96.18	VP	36.589	GAP	-19.39	AZP	90.40	TAL	155.15	TAP	264.25	RCA	77.45	APO	157.87	V2	35.217
RC	46.433	GL	4.03	GP	-10.18	ZAL	41.60	ZAP	10.82	ETS	106.79	ZAE	142.94	ETE	200.42	ZAC	28.33	ETC	117.57	CLP	3.68

PLANETOCENTRIC CONIC

C3	55.717	VHL	7.464	DLA	-14.95	RAL	306.99	RAD	6569.0	VEL	13.307	PTH	2.43	VHP	12.231	DPA	-34.61	RAP	281.08	ECC	1.9170

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 31 59	1985.15	-13.42	27.45	183.00	115.17	11 5 4	1385.1	-9.92	20.52
90.00	18 32 56	5597.41	28.19	261.99	193.19	92.80	20 6 13	4997.4	28.28	253.33
100.00	11 45 14	1748.81	-14.90	9.34	182.26	116.21	12 14 23	1148.8	-11.26	2.44
100.00	20 2 22	5308.98	29.83	240.85	193.27	91.98	21 30 51	4709.0	29.79	232.05
110.00	12 35 24	1591.63	-18.76	355.31	180.15	119.11	13 1 56	991.6	-14.73	348.50
110.00	21 28 41	5038.92	34.18	220.42	193.35	89.73	22 52 39	4438.9	33.77	211.20

DIFFERENTIAL CORRECTIONS

TDE	-.6700	TRA	-2.6681	TC3	-.3048	BAU	.2333												
RDE	-.4061	RRA	.4741	RC3	-.0721	FAU	.01523												
FDE	.6459	FRA	1.8871	FC3	-.2366	BSP	7183												
BDE	.7835	BRA	2.7098	BC3	.3132	FSP	-380												

MID-COURSE EXECUTION ACCURACY

SGT	2228.2	SGR	500.6	SG3	138.5						
RRT	-.5281	RRF	.5508	RTF	-.9065						
SGB	2283.8	R23	-.0639	R13	.9082						
SG1	2244.4	SG2	422.0	THA	172.98						

ORBIT DETERMINATION ACCURACY

ST	818.0	SR	331.6	SS	704.2
CRT	.3264	CRS	.4718	CST	.9868
LSA	1084.2	MSA	314.7	SSA	17.5
EL1	826.3	EL2	310.3	ALF	8.79

LAUNCH DATE SEP 10 1965 FLIGHT TIME 122.00 ARRIVAL DATE JAN 10 1966

HELIOCENTRIC CONIC DISTANCE 285.339

RL	150.63	LAL	.00	LOL	347.08	VL	25.368	GAL	11.28	AZL	88.56	HCA	112.33	SMA	118.64	ECC	.32889	INC	1.4380	VI	29.581
RP	107.58	LAP	1.33	LOP	99.42	VP	36.723	GAP	-18.47	AZP	90.55	TAL	154.79	TAP	267.12	RCA	79.62	APO	157.66	V2	35.224
RC	45.168	GL	4.97	GP	-10.96	ZAL	41.26	ZAP	11.19	ETS	98.84	ZAE	144.32	ETE	203.78	ZAC	29.96	ETC	120.02	CLP	2.31

PLANETOCENTRIC CONIC

C3	51.844	VHL	7.200	DLA	-13.94	RAL	307.18	RAD	6568.9	VEL	13.161	PTH	2.40	VHP	11.732	DPA	-35.32	RAP	283.36	ECC	1.8532

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 23 34	2003.28	-13.94	28.53	182.04	114.90	10 56 57	1403.3	-10.47	21.57
90.00	18 42 50	5543.65	28.31	258.06	191.52	90.84	20 15 14	4943.6	28.12	249.40
100.00	11 37 32	1764.61	-15.38	10.28	181.33	115.95	12 6 57	1164.6	-11.76	3.35
100.00	20 11 33	5257.55	29.89	237.03	191.54	89.97	21 39 11	4657.5	29.57	228.24
110.00	12 29 15	1602.62	-19.12	355.96	179.30	118.89	12 55 58	1002.6	-15.12	349.12
110.00	21 36 19	4992.30	34.11	216.78	191.43	87.57	22 59 32	4392.3	33.40	207.61

DIFFERENTIAL CORRECTIONS

TDE	-.6752	TRA	-2.6789	TC3	-.3042	BAU	.2189												
RDE	-.3614	RRA	.4877	RC3	-.0847	FAU	.01578												
FDE	.6911	FRA	1.9523	FC3	-.2636	BSP	7441												
BDE	.7659	BRA	2.7229	BC3	.3158	FSP	-414												

MID-COURSE EXECUTION ACCURACY

SGT	2303.2	SGR	507.4	SG3	149.9						
RRT	-.5735	RRF	.6001	RTF	-.9124						
SGB	2358.4	R23	-.0726	R13	.9143						
SG1	2322.1	SG2	412.3	THA	172.56						

ORBIT DETERMINATION ACCURACY

ST	850.3	SR	311.6	SS	740.1
CRT	.2851	CRS	.4418	CST	.9853
LSA	1129.0	MSA	304.9	SSA	17.5
EL1	855.6	EL2	296.9	ALF	6.78

LAUNCH DATE SEP 10 1965 FLIGHT TIME 124.00 ARRIVAL DATE JAN 12 1966

HELIOCENTRIC CONIC DISTANCE 292.176

RL	150.63	LAL	.00	LOL	347.08	VL	25.540	GAL	10.82	AZL	88.33	HCA	115.57	SMA	119.58	ECC	.31673	INC	1.6680	VI	29.581
RP	107.56	LAP	1.50	LOP	102.66	VP	36.848	GAP	-17.57	AZP	90.72	TAL	154.46	TAP	270.03	RCA	81.70	APO	157.45	V2	35.231
RC	44.025	GL	6.03	GP	-11.83	ZAL	41.00	ZAP	11.86	ETS	91.40	ZAE	145.65	ETE	207.67	ZAC	31.70	ETC	122.13	CLP	.92

PLANETOCENTRIC CONIC

C3	48.335	VHL	6.952	DLA	-12.82	RAL	307.29	RAD	6568.8	VEL	13.027	PTH	2.38	VHP	11.252	DPA	-36.10	RAP	285.65	ECC	1.7955

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 14 18	2024.29	-14.54	29.78	181.06	114.57	10 48 2	1424.3	-11.11	22.79
90.00	18 53 1	5487.71	28.29	253.97	189.75	88.79	20 24 29	4887.7	27.83	245.33
100.00	11 29 1	1783.24	-15.93	11.38	180.38	115.63	11 58 44	1183.2	-12.35	4.42
100.00	20 20 59	5203.99	29.82	233.05	189.70	87.87	21 47 43	4604.0	29.21	224.30
110.00	12 22 20	1616.28	-19.57	356.76	178.43	118.60	12 49 16	1016.3	-15.60	349.89
110.00	21 44 10	4943.72	33.90	213.00	189.41	85.35	23 6 34	4343.7	32.89	203.91

DIFFERENTIAL CORRECTIONS

TDE	-.6927	TRA	-2.6887	TC3	-.3359	BAU	.2264												
RDE	-.3163	RRA	.5043	RC3	-.0996	FAU	.01639												
FDE	.7403	FRA	2.0435	FC3	-.2936	BSP	8036												
BDE	.7615	BRA	2.7356	BC3	.3504	FSP	-451												

MID-COURSE EXECUTION ACCURACY

SGT	2389.2	SGR	518.5	SG3	162.1						
RRT	-.6096	RRF	.6513	RTF	-.9105						
SGB	2444.8	R23	-.1003	R13	.9131						
SG1	2410.6	SG2	407.3	THA	172.24						

ORBIT DETERMINATION ACCURACY

ST	889.3	SR	290.4	SS	778.3
CRT	.2389	CRS	.3989	CST	.9852
LSA	1181.0	MSA	292.6	SSA	18.4
EL1	892.3	EL2	281.0	ALF	4.95

LAUNCH DATE SEP 10 1965 FLIGHT TIME 134.00 ARRIVAL DATE JAN 22 1966

HELIOCENTRIC CONIC DISTANCE 326.385

RL 150.63 LAL .00 LOL 347.08 VL 26.241 GAL 8.86 AZL 86.92 HCA 131.75 SMA 123.62 ECC .26521 INC 3.0767 VI 29.581
RP 107.49 LAP 2.29 LOP 118.87 VP 37.359 GAP -13.47 AZP 92.05 TAL 153.35 TAP 285.11 RCA 90.83 APO 156.40 V2 35.254
RC 40.482 GL 13.47 GP -18.33 ZAL 41.26 ZAP 19.36 ETS 67.58 ZAE 148.76 ETE 235.96 ZAC 42.16 ETC 128.35 CLP -6.35

PLANETOCENTRIC CONIC

C3 35.715 VHL 5.976 DLA -5.31 RAL 306.68 RAD 6568.4 VEL 12.533 PTH 2.27 VHP 9.170 DPA -41.71 RAP 297.55 ECC 1.5878

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 11 47	2192.58	-19.03	40.09	176.40	111.37	9 48 20	1592.6	-15.96	32.76
90.00	19 50 37	5166.93	25.66	230.94	179.82	77.60	21 16 44	4566.9	23.69	222.82
100.00	10 30 37	1938.26	-20.24	20.87	175.88	112.48	11 2 55	1338.3	-17.02	13.56
100.00	21 14 28	4896.48	26.94	210.73	179.49	76.52	22 36 4	4296.5	24.81	202.57
110.00	11 33 8	1742.56	-23.49	4.46	174.32	115.58	12 2 10	1142.6	-19.85	357.21
110.00	22 28 27	4664.95	30.37	192.10	178.45	73.50	23 46 12	4064.9	27.81	183.84

DIFFERENTIAL CORRECTIONS

TDE -.7149 TRA-2.7273 TC3 -.2422 BAU .1505
RDE -.0606 RRA .6681 RC3 -.2017 FAU .01975
FDE 1.0790 FRA 2.5990 FC3 -.4787 BSP 9134
BDE .7174 BRA 2.8075 BC3 .3152 FSP -688

MID-COURSE EXECUTION ACCURACY

SGT 2729.4 SGR 687.6 SG3 239.1
RRT -.8390 RRF .8843 RTF -.9419
SGB 2814.7 R23 -.1462 R13 .9464
SG1 2790.8 SG2 365.9 THA 167.85

ORBIT DETERMINATION ACCURACY

ST 1044.3 SR 201.1 SS 1012.8
CRT -.5320 CRS -.3287 CST .9741
LSA 1448.0 MSA 244.4 SSA 16.4
EL1 1049.9 EL2 169.4 ALF 173.99

LAUNCH DATE SEP 10 1965 FLIGHT TIME 136.00 ARRIVAL DATE JAN 24 1966

HELIOCENTRIC CONIC DISTANCE 333.214

RL 150.63 LAL .00 LOL 347.08 VL 26.353 GAL 8.53 AZL 86.56 HCA 134.99 SMA 124.30 ECC .25665 INC 3.4409 VI 29.581
RP 107.48 LAP 2.43 LOP 122.12 VP 37.440 GAP -12.72 AZP 92.43 TAL 153.23 TAP 288.22 RCA 92.40 APO 156.20 V2 35.256
RC 40.263 GL 15.53 GP -20.26 ZAL 41.76 ZAP 21.68 ETS 65.29 ZAE 148.01 ETE 242.68 ZAC 44.67 ETC 128.86 CLP -7.89

PLANETOCENTRIC CONIC

C3 34.138 VHL 5.843 DLA -3.28 RAL 306.27 RAD 6568.3 VEL 12.470 PTH 2.26 VHP 8.830 DPA -43.37 RAP 300.13 ECC 1.5618

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 54 56	2244.56	-20.28	43.39	175.69	110.19	9 32 21	1644.6	-17.35	35.94
90.00	20 4 15	5092.13	24.46	225.79	177.78	75.28	21 29 8	4492.1	22.20	217.85
100.00	10 14 45	1987.11	-21.48	23.97	175.21	111.30	10 47 52	1387.1	-18.40	16.54
100.00	21 27 8	4824.82	25.70	205.76	177.40	74.19	22 47 33	4224.8	23.28	197.79
110.00	11 19 29	1784.47	-24.70	7.12	173.73	114.42	11 49 13	1184.5	-21.19	359.73
110.00	22 38 54	4600.22	29.03	187.54	176.23	71.10	23 55 34	4000.2	26.18	179.52

DIFFERENTIAL CORRECTIONS

TDE -.7274 TRA-2.7337 TC3 -.2197 BAU .1449
RDE .0036 RRA .7233 RC3 -.2291 FAU .02040
FDE 1.1714 FRA 2.7253 FC3 -.5173 BSP 9474
BDE .7274 BRA 2.8278 BC3 .3174 FSP -747

MID-COURSE EXECUTION ACCURACY

SGT 2790.1 SGR 759.2 SG3 257.0
RRT -.8693 RRF .9154 RTF -.9460
SGB 2891.6 R23 -.1594 R13 .9513
SG1 2868.4 SG2 365.0 THA 166.47

ORBIT DETERMINATION ACCURACY

ST 1076.0 SR 213.3 SS 1069.4
CRT -.7588 CRS -.5866 CST .9721
LSA 1513.4 MSA 237.1 SSA 15.7
EL1 1088.3 EL2 137.4 ALF 171.31

LAUNCH DATE SEP 10 1965 FLIGHT TIME 138.00 ARRIVAL DATE JAN 26 1966

HELIOCENTRIC CONIC DISTANCE 340.033

RL 150.63 LAL .00 LOL 347.08 VL 26.456 GAL 8.21 AZL 86.15 HCA 138.22 SMA 124.94 ECC .24863 INC 3.8488 VI 29.581
RP 107.48 LAP 2.56 LOP 125.37 VP 37.515 GAP -11.99 AZP 92.87 TAL 153.14 TAP 291.37 RCA 93.88 APO 156.00 V2 35.258
RC 40.219 GL 17.85 GP -22.50 ZAL 42.48 ZAP 24.31 ETS 63.60 ZAE 146.61 ETE 249.19 ZAC 47.39 ETC 129.18 CLP -9.45

PLANETOCENTRIC CONIC

C3 32.897 VHL 5.736 DLA -1.02 RAL 305.76 RAD 6568.3 VEL 12.420 PTH 2.24 VHP 8.523 DPA -45.29 RAP 302.84 ECC 1.5414

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 36 5	2305.39	-21.66	47.32	175.15	108.69	9 14 31	1705.4	-18.91	39.72
90.00	20 19 0	5012.63	22.98	220.43	175.79	72.99	21 42 33	4412.6	20.44	212.69
100.00	9 56 57	2044.53	-22.86	27.68	174.70	109.81	10 31 2	1444.5	-19.95	20.09
100.00	21 40 49	4748.72	24.19	200.61	175.37	71.88	22 59 58	4148.7	21.49	192.86
110.00	11 4 7	1834.31	-26.06	10.35	173.32	112.95	11 34 41	1234.3	-22.72	2.78
110.00	22 50 9	4531.70	27.43	182.85	174.08	68.75	24 5 41	3931.7	24.29	175.09

DIFFERENTIAL CORRECTIONS

TDE -.7350 TRA-2.7319 TC3 -.1832 BAU .1397
RDE .0754 RRA .7923 RC3 -.2596 FAU .02118
FDE 1.2691 FRA 2.8462 FC3 -.5573 BSP 10060
BDE .7388 BRA 2.8445 BC3 .3177 FSP -819

MID-COURSE EXECUTION ACCURACY

SGT 2834.3 SGR 849.1 SG3 274.6
RRT -.8948 RRF .9400 RTF -.9500
SGB 2958.8 R23 -.1691 R13 .9563
SG1 2936.0 SG2 366.0 THA 164.75

ORBIT DETERMINATION ACCURACY

ST 1099.8 SR 249.3 SS 1125.4
CRT -.9107 CRS -.7829 CST .9694
LSA 1575.9 MSA 233.3 SSA 14.7
EL1 1123.2 EL2 100.8 ALF 168.24

LAUNCH DATE SEP 10 1965 FLIGHT TIME 140.00 ARRIVAL DATE JAN 28 1966

HELIOCENTRIC CONIC DISTANCE 346.823

RL 150.63 LAL .00 LOL 347.08 VL 26.552 GAL 7.91 AZL 85.69 HCA 141.46 SMA 125.54 ECC .24110 INC 4.3118 VI 29.581
RP 107.48 LAP 2.68 LOP 128.62 VP 37.583 GAP -11.27 AZP 93.38 TAL 153.09 TAP 294.55 RCA 95.27 APO 155.81 V2 35.259
RC 40.350 GL 20.46 GP -25.11 ZAL 43.47 ZAP 27.28 ETS 62.42 ZAE 144.53 ETE 255.21 ZAC 50.34 ETC 129.31 CLP -11.05

PLANETOCENTRIC CONIC

C3 32.008 VHL 5.658 DLA 1.51 RAL 305.11 RAD 6568.3 VEL 12.385 PTH 2.24 VHP 8.255 DPA -47.54 RAP 305.75 ECC 1.5268

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 14 45	2376.81	-23.15	52.03	174.81	106.78	8 54 22	1776.8	-20.63	44.26
90.00	20 35 7	4927.42	21.18	214.84	173.88	70.75	21 57 15	4327.4	18.36	207.30
100.00	9 36 48	2112.17	-24.35	32.16	174.40	107.90	10 12 0	1512.2	-21.67	24.38
100.00	21 55 46	4667.29	22.36	195.25	173.42	69.63	23 13 33	4067.3	19.38	187.72
110.00	10 46 39	1893.53	-27.57	14.29	173.13	111.06	11 18 12	1293.5	-24.46	6.51
110.00	23 2 24	4458.70	25.53	178.02	172.02	66.46	24 16 43	3858.7	22.13	170.52

DIFFERENTIAL CORRECTIONS

TDE -.5622 TRA-2.5446 TC3 .0898 BAU .1434
RDE .1333 RRA .8494 RC3 -.3229 FAU .02686
FDE 1.2660 FRA 2.8456 FC3 -.7264 BSP 15158
BDE .5778 BRA 2.6826 BC3 .3352 FSP -1118

MID-COURSE EXECUTION ACCURACY

SGT 2642.0 SGR 944.5 SG3 281.7
RRT -.9346 RRF .9592 RTF -.9572
SGB 2805.7 R23 -.1445 R13 .9635
SG1 2787.6 SG2 318.5 THA 161.27

ORBIT DETERMINATION ACCURACY

ST 960.3 SR 291.5 SS 1103.2
CRT -.9877 CRS -.8795 CST .9418
LSA 1467.5 MSA 265.7 SSA 10.7
EL1 1002.7 EL2 43.6 ALF 163.28

LAUNCH DATE SEP 10 1965 FLIGHT TIME 142.00 ARRIVAL DATE JAN 30 1966

HELIOCENTRIC CONIC DISTANCE 353.637

RL	150.63	LAL	.00	LOL	347.08	VL	26.641	GAL	7.64	AZL	85.15	HCA	144.69	SMA	126.10	ECC	.23418	INC	4.8455	VI	29.581
RP	107.48	LAP	2.80	LOP	131.87	VP	37.646	GAP	-10.59	AZP	93.96	TAL	153.04	TAP	297.73	RCA	96.57	APO	155.63	VZ	35.259
RC	40.657	GL	23.38	GP	-28.13	ZAL	44.73	ZAP	30.62	ETS	61.68	ZAE	141.76	ETE	260.58	ZAC	53.57	ETC	129.31	CLP	-12.64

PLANETOCENTRIC CONIC

C3	31.602	VHL	5.622	DLA	4.32	RAL	304.34	RAD	6568.3	VEL	12.368	PTH	2.23	VHP	8.042	DPA	-50.15	RAP	308.99	ECC	1.9201

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 50 41	2461.24	-24.69	57.73	174.83	104.33	8 31 42	1861.2	-22.48	49.76
90.00	20 53 4	4836.55	19.03	209.04	172.20	68.63	22 13 41	4236.6	15.96	201.71
100.00	9 14 3	2192.33	-25.91	37.60	174.47	105.45	9 50 35	1592.3	-23.54	29.60
100.00	22 12 23	4580.70	20.20	189.73	171.70	67.49	23 28 44	3980.7	16.98	182.42
110.00	10 26 57	1964.18	-29.20	19.14	173.33	108.61	10 59 41	1364.2	-26.38	11.09
110.00	23 15 59	4381.61	23.34	173.10	170.18	64.29	24 29 0	3781.6	19.69	165.87

DIFFERENTIAL CORRECTIONS

TDE	-.8440	TRA	-2.8074	TC3	-.1946	BAU	.1544												
RDE	.2702	RRA	.9910	RC3	-.3092	FAU	.02008												
FDE	1.5408	FRA	3.1071	FC3	-.5502	BSP	9581												
BDE	.8862	BRA	2.9772	BC3	.3654	FSP	-873												

MID-COURSE EXECUTION ACCURACY

SGT	3003.7	SGR	1105.8	SG3	310.7						
RRT	-.9235	RRF	.9717	RTF	-.9561						
SGB	3200.7	R23	-.1893	R13	.9653						
SG1	3175.5	SG2	401.1	THA	160.91						

ORBIT DETERMINATION ACCURACY

ST	1217.0	SR	410.2	SS	1276.3						
CRT	-.9983	CRS	-.9583	CST	.9711						
LSA	1796.9	MSA	222.6	SSA	12.9						
EL1	1284.1	EL2	22.5	ALF	161.40						

LAUNCH DATE SEP 10 1965 FLIGHT TIME 144.00 ARRIVAL DATE FEB 1 1966

HELIOCENTRIC CONIC DISTANCE 360.412

RL	150.63	LAL	.00	LOL	347.08	VL	26.722	GAL	7.38	AZL	84.53	HCA	147.92	SMA	126.63	ECC	.22770	INC	5.4716	VI	29.581
RP	107.48	LAP	2.90	LOP	135.12	VP	37.703	GAP	-9.92	AZP	94.64	TAL	153.02	TAP	300.94	RCA	97.79	APO	155.46	VZ	35.258
RC	41.135	GL	26.67	GP	-31.66	ZAL	46.37	ZAP	34.40	ETS	61.31	ZAE	138.28	ETE	265.17	ZAC	57.15	ETC	129.21	CLP	-14.22

PLANETOCENTRIC CONIC

C3	31.701	VHL	5.630	DLA	7.48	RAL	303.38	RAD	6568.3	VEL	12.372	PTH	2.23	VHP	7.890	DPA	-53.18	RAP	312.71	ECC	1.5217

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 22 47	2561.64	-26.20	64.70	175.22	101.15	8 5 29	1961.6	-24.40	56.49
90.00	21 13 20	4737.73	16.46	202.92	170.75	66.63	22 32 18	4137.7	13.16	195.80
100.00	8 47 43	2287.70	-27.47	44.25	174.93	102.28	9 25 51	1687.7	-25.50	36.01
100.00	22 31 5	4486.90	17.65	183.93	170.20	65.48	23 45 52	3886.9	14.20	176.84
110.00	10 4 10	2048.46	-30.89	25.13	173.96	105.43	10 38 19	1448.5	-28.46	16.77
110.00	23 31 8	4298.91	20.81	168.02	168.55	62.25	24 42 47	3698.9	16.93	161.04

DIFFERENTIAL CORRECTIONS

TDE	-.8819	TRA	-2.8179	TC3	-.1567	BAU	.1570												
RDE	.3950	RRA	1.1173	RC3	-.3358	FAU	.01986												
FDE	1.6707	FRA	3.1829	FC3	-.5422	BSP	10223												
BDE	.9663	BRA	3.0313	BC3	.3705	FSP	-931												

MID-COURSE EXECUTION ACCURACY

SGT	3033.3	SGR	1272.6	SG3	322.5						
RRT	-.9353	RRF	.9810	RTF	-.9596						
SGB	3289.5	R23	-.1864	R13	.9704						
SG1	3262.7	SG2	418.6	THA	158.20						

ORBIT DETERMINATION ACCURACY

ST	1248.3	SR	529.2	SS	1337.8						
CRT	-.9978	CRS	-.9829	CST	.9699						
LSA	1891.1	MSA	226.7	SSA	11.2						
EL1	1355.4	EL2	32.1	ALF	157.06						

LAUNCH DATE SEP 10 1965 FLIGHT TIME 146.00 ARRIVAL DATE FEB 3 1966

HELIOCENTRIC CONIC DISTANCE 367.170

RL	150.63	LAL	.00	LOL	347.08	VL	26.798	GAL	7.14	AZL	83.78	HCA	151.15	SMA	127.11	ECC	.22170	INC	6.2215	VI	29.581
RP	107.48	LAP	3.00	LOP	138.37	VP	37.755	GAP	-9.26	AZP	95.45	TAL	153.02	TAP	304.17	RCA	98.93	APO	155.29	VZ	35.257
RC	41.780	GL	30.36	GP	-35.77	ZAL	48.43	ZAP	38.66	ETS	61.24	ZAE	134.08	ETE	269.04	ZAC	61.16	ETC	129.07	CLP	-15.76

PLANETOCENTRIC CONIC

C3	32.503	VHL	5.701	DLA	11.00	RAL	302.22	RAD	6568.3	VEL	12.405	PTH	2.24	VHP	7.822	DPA	-56.68	RAP	317.21	ECC	1.5349

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 50 4	2682.38	-27.50	73.29	176.12	97.03	7 34 46	2082.4	-26.24	64.85
90.00	21 36 49	4629.57	13.43	196.43	169.68	64.84	22 53 58	4029.6	9.95	189.50
100.00	8 16 55	2402.25	-28.86	52.48	175.91	98.16	8 56 58	1802.2	-27.43	43.97
100.00	22 52 38	4384.93	14.67	177.83	169.07	63.66	24 5 43	3784.9	11.01	170.95
110.00	9 37 40	2149.59	-32.48	32.58	175.19	101.29	10 13 30	1549.6	-30.58	23.87
110.00	23 48 23	4210.35	17.91	162.79	167.27	60.39	24 58 33	3610.4	13.84	156.05

DIFFERENTIAL CORRECTIONS

TDE	-.9481	TRA	-2.8471	TC3	-.1321	BAU	.1637												
RDE	.5544	RRA	1.2707	RC3	-.3529	FAU	.01872												
FDE	1.8104	FRA	3.2209	FC3	-.4987	BSP	10697												
BDE	1.0983	BRA	3.1178	BC3	.3768	FSP	-964												

MID-COURSE EXECUTION ACCURACY

SGT	3070.4	SGR	1471.3	SG3	329.1						
RRT	-.9435	RRF	.9872	RTF	-.9628						
SGB	3404.7	R23	-.1790	R13	.9755						
SG1	3375.7	SG2	443.3	THA	155.21						

ORBIT DETERMINATION ACCURACY

ST	1293.3	SR	680.3	SS	1399.7						
CRT	-.9911	CRS	-.9936	CST	.9702						
LSA	2010.2	MSA	231.9	SSA	9.5						
EL1	1459.1	EL2	80.1	ALF	152.37						

LAUNCH DATE SEP 10 1965 FLIGHT TIME 148.00 ARRIVAL DATE FEB 5 1966

HELIOCENTRIC CONIC DISTANCE 373.905

RL	150.63	LAL	.00	LOL	347.08	VL	26.866	GAL	6.92	AZL	82.86	HCA	154.37	SMA	127.56	ECC	.21617	INC	7.1420	VI	29.581
RP	107.49	LAP	3.08	LOP	141.62	VP	37.802	GAP	-8.63	AZP	96.45	TAL	153.04	TAP	307.41	RCA	99.99	APO	155.14	VZ	35.255
RC	42.583	GL	34.49	GP	-40.53	ZAL	50.97	ZAP	43.43	ETS	61.45	ZAE	129.16	ETE	272.29	ZAC	65.65	ETC	129.02	CLP	-17.18

PLANETOCENTRIC CONIC

C3	34.294	VHL	5.856	DLA	14.91	RAL	300.81	RAD	6568.4	VEL	12.477	PTH	2.26	VHP	7.872	DPA	-60.63	RAP	323.04	ECC	1.5644

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 10 40	2829.98	-28.27	84.01	177.58	91.72	6 57 50	2230.0	-27.73	75.39
90.00	22 4 57	4509.02	9.84	189.40	169.20	63.31	23 20 6	3909.0	6.18	182.63
100.00	7 40 4	2541.65	-29.77	62.74	177.51	92.84	8 22 25	1941.7	-29.06	54.01
100.00	23 18 14	4272.58	11.18	171.31	168.50	62.09	24 29 26	3672.6	7.36	164.61
110.00	9 6 18	2271.82	-33.73	41.89	177.15	95.92	9 44 10	1671.8	-32.54	32.86
110.00	0 12 24	4115.17	14.63	157.37	166.49	58.76	1 21 0	3515.2	10.38	150.83

DIFFERENTIAL CORRECTIONS

TDE	-1.0497	TRA	-2.8979	TC3	-.1184	BAU	.1714												
RDE	.7622	RRA	1.4532	RC3	-.3546	FAU	.01655												
FDE	1.9495	FRA	3.1983	FC3	-.4179	BSP	11103												
BDE	1.2972	BRA	3.2418	BC3	.3739	FSP	-967												

MID-COURSE EXECUTION ACCURACY

SGT	3111.7	SGR	1701.0	SG3	327.5						
RRT	-.9494	RRF	.9912	RTF	-.9660						
SGB	3546.3	R23	-.1665	R13	.9804						
SG1	3514.6	SG2	472.9	THA	152.02						

ORBIT DETERMINATION ACCURACY

ST	1352.6	SR	866.6	SS	1455.9						
CRT	-.9847	CRS	-.9980	CST	.9719						
LSA	2154.9	MSA	237.9	SSA	8.0						
EL1	1601.4	EL2	127.4	ALF	147.52						

LAUNCH DATE SEP 10 1965 FLIGHT TIME 150.00 ARRIVAL DATE FEB 7 1966

HELIOCENTRIC CONIC DISTANCE 380.615

RL 150.63 LAL .00 LOL 347.08 VL 26.929 GAL 6.72 AZL 81.69 HCA 157.58 SMA 127.98 ECC .21109 INC 8.3065 V1 29.581
RP 107.50 LAP 3.16 LOP 144.87 VP 37.844 GAP -8.01 AZP 97.69 TAL 153.07 TAP 310.65 RCA 100.97 APO 155.00 V2 35.252
RC 43.538 GL 39.07 GP -45.99 ZAL 54.04 ZAP 48.74 ETS 61.97 ZAE 123.50 ETE 275.14 ZAC 70.72 ETC 129.25 CLP -18.34

PLANETOCENTRIC CONIC

C3 37.586 VHL 6.131 DLA 19.21 RAL 299.07 RAD 6568.5 VEL 12.608 PTH 2.29 VHP 8.088 DPA -64.91 RAP 331.19 ECC 1.6186

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 21 8	3015.77	-27.90	97.58	179.50	84.94	6 11 24	2415.8	-28.31	88.93
90.00	22 40 36	4369.54	5.48	181.46	169.62	62.18	23 53 26	3769.5	1.72	174.81
100.00	6 54 22	2715.14	-29.66	75.62	179.66	86.07	7 39 37	2115.1	-29.89	66.82
100.00	23 50 3	4145.40	7.04	184.14	168.78	60.87	24 59 9	3545.4	3.10	157.57
110.00	8 28 19	2421.20	-34.17	53.52	179.89	89.06	9 8 40	1821.2	-33.92	44.28
110.00	0 36 32	4012.11	10.91	151.69	166.43	57.40	1 43 24	3412.1	6.54	145.33

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE-1.1969 TRA-2.9735 TC3 -.1069 BAU .1771 SGT 3150.9 SGR 1952.8 SG3 314.2 ST 1425.0 SR 1087.4 SS 1495.8
RDE 1.0368 RRA 1.6619 RC3 -.3359 FAU .01341 RRT -.9540 RRF .9937 RTF -.9694 CRT -.9805 CRS -.9996 CST .9747
FDE 2.0696 FRA 3.0882 FC3 -.3090 BSP 11657 SGB 3707.0 R23 -.1489 R13 .9851 LSA 2321.8 MSA 244.4 SSA 6.4
BDE 1.5835 BRA 3.4064 BC3 .3525 FSP -941 SG1 3672.7 SG2 502.5 THA 148.76 EL1 1784.4 EL2 170.5 ALF 142.80

LAUNCH DATE SEP 10 1965 FLIGHT TIME 152.00 ARRIVAL DATE FEB 9 1966

HELIOCENTRIC CONIC DISTANCE 387.294

RL 150.63 LAL .00 LOL 347.08 VL 26.987 GAL 6.53 AZL 80.16 HCA 160.78 SMA 128.37 ECC .20646 INC 9.8366 V1 29.581
RP 107.51 LAP 3.22 LOP 148.12 VP 37.882 GAP -7.42 AZP 99.30 TAL 153.10 TAP 313.88 RCA 101.86 APO 154.87 V2 35.249
RC 44.633 GL 44.08 GP -52.18 ZAL 57.68 ZAP 54.55 ETS 62.94 ZAE 117.10 ETE 277.96 ZAC 76.41 ETC 130.09 CLP -18.96

PLANETOCENTRIC CONIC

C3 43.361 VHL 6.585 DLA 23.86 RAL 296.90 RAD 6568.6 VEL 12.835 PTH 2.34 VHP 8.553 DPA -69.16 RAP 343.59 ECC 1.7136

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 13 5	3266.34	-25.12	115.36	181.27	76.47	5 7 31	2666.3	-26.73	107.06
90.00	23 31 21	4191.13	-.25	171.49	171.62	61.68	24 41 12	3591.1	-4.03	164.85
100.00	5 53 51	2941.43	-27.47	92.05	181.87	77.71	6 42 52	2341.4	-28.88	83.54
100.00	0 37 12	3991.27	1.86	155.63	170.45	60.16	1 43 43	3391.3	-2.12	149.11
110.00	7 40 40	2607.25	-33.03	67.90	183.10	80.63	8 24 7	2007.2	-33.97	58.79
110.00	1 6 52	3898.22	6.68	145.59	167.47	56.40	2 11 50	3298.2	2.21	139.35

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE-1.4326 TRA-3.1037 TC3 -.1061 BAU .1779 SGT 3208.4 SGR 2207.8 SG3 287.7 ST 1529.3 SR 1338.7 SS 1514.5
RDE 1.4082 RRA 1.8887 RC3 -.2880 FAU .00904 RRT -.9573 RRF .9949 RTF -.9733 CRT -.9793 CRS-1.0000 CST .9790
FDE 2.1577 FRA 2.8797 FC3 -.1806 BSP 12219 SGB 3894.6 R23 -.1273 R13 .9893 LSA 2522.4 MSA 248.9 SSA 5.1
BDE 2.0088 BRA 3.6333 BC3 .3069 FSP -872 SG1 3858.3 SG2 530.8 THA 145.89 EL1 2022.1 EL2 204.8 ALF 138.88

LAUNCH DATE SEP 10 1965 FLIGHT TIME 154.00 ARRIVAL DATE FEB 11 1966

HELIOCENTRIC CONIC DISTANCE 393.934

RL 150.63 LAL .00 LOL 347.08 VL 27.039 GAL 6.37 AZL 78.05 HCA 163.95 SMA 128.72 ECC .20228 INC11.9489 V1 29.581
RP 107.52 LAP 3.28 LOP 151.37 VP 37.915 GAP -6.84 AZP 101.50 TAL 153.12 TAP 317.08 RCA 102.68 APO 154.75 V2 35.244
RC 45.858 GL 49.42 GP -59.01 ZAL 61.91 ZAP 60.75 ETS 64.89 ZAE 109.98 ETE 281.50 ZAC 82.78 ETC 132.27 CLP -18.36

PLANETOCENTRIC CONIC

C3 53.656 VHL 7.325 DLA 28.75 RAL 294.14 RAD 6568.9 VEL 13.229 PTH 2.42 VHP 9.411 DPA -72.44 RAP 3.15 ECC 1.8830

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
84.84	1 0 13	3920.99	-13.22	158.50	178.80	64.24	2 5 34	3321.0	-16.58	151.40
95.16	2 26 6	3642.96	-13.20	138.13	178.79	64.23	3 26 49	3043.0	-16.57	131.03
100.00	4 13 57	3296.20	-20.10	115.77	182.02	67.39	5 8 53	2696.2	-22.99	108.16
100.00	1 55 3	3742.99	-6.52	141.96	175.26	60.76	2 57 26	3143.0	-10.37	135.29
110.00	6 36 53	2848.67	-28.96	85.50	185.72	70.99	7 24 22	2248.7	-31.27	77.06
110.00	1 48 36	3763.28	1.55	138.51	170.28	55.85	2 51 19	3163.3	-2.94	132.31

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE-1.8394 TRA-3.3398 TC3 -.1143 BAU .1709 SGT 3313.0 SGR 2414.6 SG3 248.0 ST 1693.9 SR 1595.8 SS 1505.8
RDE 1.9096 RRA 2.0987 RC3 -.2090 FAU .00360 RRT -.9596 RRF .9948 RTF -.9784 CRT -.9808 CRS -.9998 CST .9848
FDE 2.1974 FRA 2.5754 FC3 -.0581 BSP 12870 SGB 4099.6 R23 -.1023 R13 .9931 LSA 2760.5 MSA 250.2 SSA 3.9
BDE 2.6514 BRA 3.9445 BC3 .2382 FSP -764 SG1 4062.0 SG2 554.1 THA 144.26 EL1 2316.0 EL2 227.8 ALF 136.74

LAUNCH DATE SEP 10 1965 FLIGHT TIME 156.00 ARRIVAL DATE FEB 13 1966

HELIOCENTRIC CONIC DISTANCE 400.517

RL 150.63 LAL .00 LOL 347.08 VL 27.086 GAL 6.22 AZL 74.93 HCA 167.11 SMA 129.04 ECC .19854 INC15.0666 V1 29.581
RP 107.54 LAP 3.32 LOP 154.62 VP 37.944 GAP -6.29 AZP 104.70 TAL 153.13 TAP 320.24 RCA 103.42 APO 154.66 V2 35.239
RC 47.202 GL 54.87 GP -66.30 ZAL 66.69 ZAP 67.15 ETS 69.60 ZAE 102.18 ETE 287.72 ZAC 89.91 ETC 137.76 CLP -14.81

PLANETOCENTRIC CONIC

C3 73.252 VHL 8.559 DLA 33.58 RAL 290.54 RAD 6569.4 VEL 13.950 PTH 2.55 VHP 10.935 DPA -72.97 RAP 29.92 ECC 2.2055

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
71.15	23 2 22	4311.38	-12.62	187.46	180.84	58.63	24 14 13	3711.4	-16.69	180.75
108.85	3 51 16	3402.83	-12.61	119.81	180.82	58.62	4 47 58	2802.8	-16.67	113.10
71.15	23 2 22	4311.38	-12.62	187.46	180.84	58.63	24 14 13	3711.4	-16.69	180.75
108.85	3 51 16	3402.83	-12.61	119.81	180.82	58.62	4 47 58	2802.8	-16.67	113.10
110.00	4 47 4	3232.07	-18.02	109.84	184.12	60.45	5 40 56	2632.1	-21.82	102.76
110.00	3 9 40	3530.14	-7.32	126.30	177.42	56.52	4 8 31	2930.1	-11.68	119.91

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE-2.6620 TRA-3.8241 TC3 -.1362 BAU .1697 SGT 3559.7 SGR 2429.9 SG3 199.2 ST 2006.4 SR 1770.4 SS 1475.0
RDE 2.5278 RRA 2.1582 RC3 -.1071 FAU-.00282 RRT -.9597 RRF .9915 RTF -.9857 CRT -.9840 CRS -.9987 CST .9917
FDE 2.1918 FRA 2.2128 FC3 .0334 BSP 13505 SGB 4310.0 R23 -.0735 R13 .9962 LSA 3045.5 MSA 246.3 SSA 2.9
BDE 3.6709 BRA 4.3911 BC3 .1733 FSP -623 SG1 4272.3 SG2 568.8 THA 146.09 EL1 2665.2 EL2 237.6 ALF 138.63

LAUNCH DATE SEP 10 1965 FLIGHT TIME 158.00 ARRIVAL DATE FEB 15 1966

HELIOCENTRIC CONIC DISTANCE 407.008

RL 150.63 LAL .00 LOL 347.08 VL 27.129 GAL 6.11 AZL 69.87 HCA 170.20 SMA 129.33 ECC .19529 INC20.1313 VI 29.581
RP 107.55 LAP 3.36 LOP 157.87 VP 37.969 GAP -5.76 AZP 109.86 TAL 153.09 TAP 323.30 RCA 104.07 APO 154.58 V2 35.234
RC 48.656 GL 59.80 GP -73.38 ZAL 71.90 ZAP 73.40 ETS 84.35 ZAE 93.60 ETE 303.95 ZAC 98.04 ETC 153.90 CLP -2.68

PLANETOCENTRIC CONIC

C3 115.398 VHL 10.742 DLA 37.72 RAL 285.72 RAD 6570.2 VEL 15.386 PTH 2.75 VHP 13.718 DPA -69.26 RAP 54.82 ECC 2.8992

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
63.96	22 2 50	4531.91	-10.00	203.19	182.56	53.44	23 18 22	3931.9	-14.69	196.97
116.04	4 12 23	3381.63	-9.99	116.33	182.55	53.43	5 8 45	2781.6	-14.68	110.11
63.96	22 2 50	4531.91	-10.00	203.19	182.56	53.44	23 18 22	3931.9	-14.69	196.97
116.04	4 12 23	3381.63	-9.99	116.33	182.55	53.43	5 8 45	2781.6	-14.68	110.11
63.96	22 2 50	4531.91	-10.00	203.19	182.56	53.44	23 18 22	3931.9	-14.69	196.97
116.04	4 12 23	3381.63	-9.99	116.33	182.55	53.43	5 8 45	2781.6	-14.68	110.11

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE-4.7587 TRA-4.9213 TC3 -.1833 BAU .2865 SGT 4196.3 SGR 1623.4 SG3 148.8 ST 2726.4 SR 1391.8 SS 1449.8
RDE 2.5628 RRA 1.2954 RC3 -.0295 FAU-.01034 RRT -.9311 RRF .9583 RTF -.9957 CRT -.9830 CRS -.9922 CST .9982
FDE 2.1813 FRA 1.8675 FC3 .0776 BSP 14085 SGB 4499.4 R23 -.0399 R13 .9986 LSA 3379.3 MSA 229.8 SSA 2.1
BDE 5.4050 BRA 5.0889 BC3 .1857 FSP -473 SG1 4464.9 SG2 556.5 THA 159.86 EL1 3052.6 EL2 228.0 ALF 153.19

LAUNCH DATE SEP 10 1965 FLIGHT TIME 160.00 ARRIVAL DATE FEB 17 1966

HELIOCENTRIC CONIC DISTANCE 413.310

RL 150.63 LAL .00 LOL 347.08 VL 27.167 GAL 6.04 AZL 60.37 HCA 173.15 SMA 129.59 ECC .19268 INC29.6308 VI 29.581
RP 107.57 LAP 3.38 LOP 161.12 VP 37.991 GAP -5.29 AZP 119.45 TAL 152.95 TAP 326.10 RCA 104.62 APO 154.56 V2 35.227
RC 50.208 GL 62.57 GP -76.99 ZAL 77.30 ZAP 79.16 ETS 133.21 ZAE 83.70 ETE 354.00 ZAC 108.12 ETC 204.64 CLP 33.40

PLANETOCENTRIC CONIC

C3 226.498 VHL 15.050 DLA 39.62 RAL 279.24 RAD 6571.3 VEL 18.650 PTH 3.05 VHP 19.276 DPA -61.07 RAP 70.49 ECC 4.7276

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
61.04	21 22 50	4689.63	-5.42	212.67	182.67	50.69	22 41 0	4089.6	-10.45	206.80
118.96	4 0 42	3457.92	-5.41	119.05	182.66	50.69	4 58 20	2857.9	-10.43	113.18
61.04	21 22 50	4689.63	-5.42	212.67	182.67	50.69	22 41 0	4089.6	-10.45	206.80
118.96	4 0 42	3457.92	-5.41	119.05	182.66	50.69	4 58 20	2857.9	-10.43	113.18
61.04	21 22 50	4689.63	-5.42	212.67	182.67	50.69	22 41 0	4089.6	-10.45	206.80
118.96	4 0 42	3457.92	-5.41	119.05	182.66	50.69	4 58 20	2857.9	-10.43	113.18

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE-7.6623 TRA-4.9361 TC3 -.2194 BAU .8120 SGT 3859.7 SGR 2538.2 SG3 106.3 ST 3007.6 SR 1621.5 SS 1516.7
RDE-3.9602 RRA-4.0232 RC3 -.1543 FAU-.02144 RRT .9754 RRF -.9867 RTF -.9978 CRT .9914 CRS .9949 CST .9995
FDE 2.3015 FRA 1.6742 FC3 .0819 BSP 14391 SGB 4619.5 R23 .0053 R13 -.9997 LSA 3733.7 MSA 186.6 SSA 1.5
BDE 8.6252 BRA 6.3680 BC3 .2682 FSP -341 SG1 4595.5 SG2 470.0 THA 33.07 EL1 3411.7 EL2 186.6 ALF 28.22

LAUNCH DATE SEP 10 1965 FLIGHT TIME 162.00 ARRIVAL DATE FEB 19 1966

HELIOCENTRIC CONIC DISTANCE 419.065

RL 150.63 LAL .00 LOL 347.08 VL 27.201 GAL 6.07 AZL 38.61 HCA 175.66 SMA 129.83 ECC .19127 INC51.3888 VI 29.581
RP 107.60 LAP 3.39 LOP 164.37 VP 38.009 GAP -4.96 AZP 141.31 TAL 152.48 TAP 328.14 RCA 104.99 APO 154.66 V2 35.220
RC 51.850 GL 58.16 GP -67.76 ZAL 82.31 ZAP 83.86 ETS 173.61 ZAE 70.37 ETE 33.57 ZAC 123.58 ETC 246.44 CLP 73.59

PLANETOCENTRIC CONIC

C3 619.055 VHL 24.881 DLA 34.72 RAL 271.14 RAD 6572.6 VEL 27.209 PTH 3.40 VHP 31.983 DPA -46.17 RAP 77.72 ECC11.1881

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
69.02	21 32 8	4671.30	-.82	207.71	179.97	55.29	22 49 59	4071.3	-5.36	201.53
110.98	2 46 44	3684.36	-.81	133.94	179.96	55.29	3 48 9	3084.4	-5.35	127.76
69.02	21 32 8	4671.30	-.82	207.71	179.97	55.29	22 49 59	4071.3	-5.36	201.53
110.98	2 46 44	3684.36	-.81	133.94	179.96	55.29	3 48 9	3084.4	-5.35	127.76
69.02	21 32 8	4671.30	-.82	207.71	179.97	55.29	22 49 59	4071.3	-5.36	201.53
110.98	2 46 44	3684.36	-.81	133.94	179.96	55.29	3 48 9	3084.4	-5.35	127.76

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE-6.5219 TRA-1.7500 TC3 -.1327 BAU 2.7044 SGT 1712.4 SGR 4150.4 SG3 79.7 ST 1509.2 SR 3054.0 SS 1881.1
RD-12.8543 RRA-8.9276 RC3 -.2986 FAU-.05062 RRT .9362 RRF -.9995 RTF -.9429 CRT .9887 CRS 1.0000 CST .9899
FDE 2.8713 FRA 1.9221 FC3 .0708 BSP 13887 SGB 4489.8 R23 -.0290 R13 -.9993 LSA 3886.0 MSA 206.2 SSA 1.7
BDE14.4142 BRA 9.0975 BC3 .3268 FSP -256 SG1 4454.6 SG2 560.9 THA 68.52 EL1 3400.5 EL2 203.4 ALF 63.86

LAUNCH DATE SEP 10 1965 FLIGHT TIME 164.00 ARRIVAL DATE FEB 21 1966

HELIOCENTRIC CONIC DISTANCE 431.069

RL 150.63 LAL .00 LOL 347.08 VL 27.232 GAL 5.03 AZL 171.09 HCA 183.44 SMA 130.03 ECC .18046 INC81.0938 VI 29.581
RP 107.62 LAP 3.39 LOP 167.61 VP 38.023 GAP -3.11 AZP 8.92 TAL 155.97 TAP 339.41 RCA 106.57 APO 153.50 V2 35.212
RC 53.572 GL -46.38 GP 51.86 ZAL 85.60 ZAP 87.35 ETS 188.83 ZAE 72.19 ETE 322.73 ZAC 113.08 ETC 108.19 CLP 85.71

PLANETOCENTRIC CONIC

C31370.311 VHL 37.018 DLA -69.53 RAL 257.02 RAD 6573.1 VEL 38.621 PTH 3.55 VHP 47.696 DPA 71.72 RAP 44.82 ECC23.5518

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
23.40	6 0 19	2448.65	-1.19	78.07	167.45	159.53	6 41 8	1848.6	6.30	75.68
156.60	16 25 54	698.13	-1.18	288.58	167.47	159.53	16 37 32	98.1	6.31	286.19
23.40	6 0 19	2448.65	-1.19	78.07	167.45	159.53	6 41 8	1848.6	6.30	75.68
156.60	16 25 54	698.13	-1.18	288.58	167.47	159.53	16 37 32	98.1	6.31	286.19
23.40	6 0 19	2448.65	-1.19	78.07	167.45	159.53	6 41 8	1848.6	6.30	75.68
156.60	16 25 54	698.13	-1.18	288.58	167.47	159.53	16 37 32	98.1	6.31	286.19

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE10.4270 TRA -.2634 TC3 -.1589 BAU 5.7657 SGT 2000.4 SGR 3411.8 SG3 74.0 ST 1614.7 SR 2417.9 SS 2626.6
RD-15.3836 RRA 3.1346 RC3 .2717 FAU-.10422 RRT -.9334 RRF .9983 RTF -.9494 CRT -.9886 CRS -.9997 CST .9919
FDE-4.0713 FRA .7120 FC3 .0658 BSP 12609 SGB 3955.0 R23 -.0418 R13 .9986 LSA 3912.7 MSA 207.6 SSA 3.0
BDE18.5843 BRA 3.1457 BC3 .3147 FSP -240 SG1 3905.0 SG2 627.2 THA 119.53 EL1 2900.4 EL2 203.0 ALF 123.62

LAUNCH DATE SEP 10 1965 FLIGHT TIME 166.00 ARRIVAL DATE FEB 23 1966

HELIOCENTRIC CONIC DISTANCE 435.757

RL	150.63	LAL	.00	LOL	347.08	VL	27.258	GAL	5.28	AZL	131.92	HCA	185.07	SMA	130.22	ECC	.18113	INC	41.9149
RP	107.64	LAP	3.38	LOP	170.86	VP	38.035	GAP	-3.05	AZP	48.20	TAL	154.77	TAP	339.84	RCA	106.63	APO	153.81
RC	55.368	GL	-61.52	GP	73.91	ZAL	81.76	ZAP	85.28	ETS	207.92	ZAE	89.58	ETE	335.62	ZAC	90.76	ETC	122.40

V1	29.581																		
V2	35.204																		
CLP	72.73																		

PLANETOCENTRIC CONIC

C3	425.496	VHL	20.628	DLA	-84.59	RAL	293.80	RAD	6572.2	VEL	23.384	PTH	3.29	VHP	26.485	DPA	75.94	RAP	317.30
ECC	8.0026																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
6.15	7 52 28	2407.74	3.46	86.14	203.46	174.58	8 32 35	1807.7	11.43	85.79
173.85	19 27 14	5887.69	3.46	257.46	203.49	174.58	21 5 22	5287.7	11.43	257.10
6.15	7 52 28	2407.74	3.46	86.14	203.46	174.58	8 32 35	1807.7	11.43	85.79
173.85	19 27 14	5887.69	3.46	257.46	203.49	174.58	21 5 22	5287.7	11.43	257.10
6.15	7 52 28	2407.74	3.46	86.14	203.46	174.58	8 32 35	1807.7	11.43	85.79
173.85	19 27 14	5887.69	3.46	257.46	203.49	174.58	21 5 22	5287.7	11.43	257.10

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	7.5506	TRA	-.8455	TC3	-.2240	BAU	1.9281	SGT	3384.0	SGR	3509.9	SG3	93.3	ST	2226.5	SR	1541.5	SS	1363.4
RDE	-4.4104	RRA	1.0586	RC3	.2544	FAU	-.03474	RRT	-.9514	RRF	.9873	RTF	-.9878	CRT	-.9523	CRS	-.9828	CST	.9923
FDE	-1.9159	FRA	.3031	FC3	.0707	BSP	14889	SGB	4875.5	R23	.0074	R13	.9998	LSA	3006.5	MSA	391.8	SSA	1.5
BDE	8.7443	BRA	1.3548	BC3	.3389	FSP	-287	SG1	4816.0	SG2	759.5	THA	133.90	EL1	2679.7	EL2	390.7	ALF	145.77

LAUNCH DATE SEP 10 1965 FLIGHT TIME 168.00 ARRIVAL DATE FEB 25 1966

HELIOCENTRIC CONIC DISTANCE 441.697

RL	150.63	LAL	.00	LOL	347.08	VL	27.281	GAL	5.31	AZL	115.69	HCA	187.78	SMA	130.38	ECC	.18023	INC	25.6854
RP	107.67	LAP	3.36	LOP	174.10	VP	38.043	GAP	-2.70	AZP	64.52	TAL	154.39	TAP	342.17	RCA	106.88	APO	153.88
RC	57.230	GL	-63.37	GP	82.45	ZAL	76.94	ZAP	83.31	ETS	253.00	ZAE	99.62	ETE	17.43	ZAC	79.21	ETC	163.03

V1	29.581																		
V2	35.195																		
CLP	27.61																		

PLANETOCENTRIC CONIC

C3	173.471	VHL	13.171	DLA	-82.02	RAL	344.61	RAD	6570.9	VEL	17.170	PTH	2.94	VHP	16.765	DPA	66.34	RAP	296.48
ECC	3.8549																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
9.07	11 20 45	2289.93	11.22	83.97	253.01	171.87	11 58 55	1689.9	19.14	83.19
170.93	22 44 19	5774.68	11.23	258.07	253.03	171.87	24 20 34	5174.7	19.14	257.29
9.07	11 20 45	2289.93	11.22	83.97	253.01	171.87	11 58 55	1689.9	19.14	83.19
170.93	22 44 19	5774.68	11.23	258.07	253.03	171.87	24 20 34	5174.7	19.14	257.29
9.07	11 20 45	2289.93	11.22	83.97	253.01	171.87	11 58 55	1689.9	19.14	83.19
170.93	22 44 19	5774.68	11.23	258.07	253.03	171.87	24 20 34	5174.7	19.14	257.29

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-3.8092	TRA	-1.5048	TC3	-.2526	BAU	.6024	SGT	5043.6	SGR	692.4	SG3	129.5	ST	2179.1	SR	666.8	SS	959.5
RDE	1.5313	RRA	.0325	RC3	.0604	FAU	-.01217	RRT	-.4838	RRF	.4906	RTF	-.9996	CRT	-.7894	CRS	-.8018	CST	.9998
FDE	1.1779	FRA	.4464	FC3	.0607	BSP	16090	SGB	5090.9	R23	.0000	R13	.9996	LSA	2440.4	MSA	398.1	SSA	1.7
BDE	4.1054	BRA	1.5051	BC3	.2597	FSP	-414	SG1	5054.8	SG2	604.6	THA	176.14	EL1	2244.0	EL2	397.6	ALF	165.97

LAUNCH DATE SEP 10 1965 FLIGHT TIME 170.00 ARRIVAL DATE FEB 27 1966

HELIOCENTRIC CONIC DISTANCE 447.962

RL	150.63	LAL	.00	LOL	347.08	VL	27.301	GAL	5.31	AZL	108.10	HCA	190.78	SMA	130.52	ECC	.17911	INC	18.1035
RP	107.70	LAP	3.33	LOP	177.34	VP	38.049	GAP	-2.26	AZP	72.20	TAL	154.22	TAP	345.00	RCA	107.14	APO	153.90
RC	59.152	GL	-60.50	GP	81.07	ZAL	72.15	ZAP	82.10	ETS	293.38	ZAE	106.19	ETE	55.06	ZAC	72.05	ETC	198.81

V1	29.581																		
V2	35.186																		
CLP	-27.72																		

PLANETOCENTRIC CONIC

C3	94.186	VHL	9.705	DLA	-77.22	RAL	343.97	RAD	6569.8	VEL	14.681	PTH	2.66	VHP	12.179	DPA	59.31	RAP	291.92
ECC	2.5501																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
14.56	11 28 55	2164.51	18.89	78.94	249.51	166.47	12 5 0	1564.5	26.65	77.27
165.44	22 31 0	5663.51	18.89	258.36	249.52	166.47	24 5 24	5063.5	26.66	256.69
14.56	11 28 55	2164.51	18.89	78.94	249.51	166.47	12 5 0	1564.5	26.65	77.27
165.44	22 31 0	5663.51	18.89	258.36	249.52	166.47	24 5 24	5063.5	26.66	256.69
14.56	11 28 55	2164.51	18.89	78.94	249.51	166.47	12 5 0	1564.5	26.65	77.27
165.44	22 31 0	5663.51	18.89	258.36	249.52	166.47	24 5 24	5063.5	26.66	256.69

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-2.9128	TRA	-1.4079	TC3	-.1527	BAU	.1928	SGT	4141.6	SGR	3115.5	SG3	185.1	ST	2056.0	SR	1129.8	SS	1009.2
RDE	-1.1269	RRA	-1.1408	RC3	.0110	FAU	-.00082	RRT	.9741	RRF	-.9900	RTF	-.9952	CRT	.9355	CRS	.9659	CST	.9951
FDE	1.2641	FRA	.7526	FC3	.0075	BSP	16308	SGB	5182.6	R23	-.0093	R13	-.9993	LSA	2529.1	MSA	354.2	SSA	2.4
BDE	3.1232	BRA	1.8121	BC3	.1531	FSP	-590	SG1	5151.6	SG2	566.0	THA	36.75	EL1	2319.1	EL2	353.8	ALF	27.91

LAUNCH DATE SEP 10 1965 FLIGHT TIME 172.00 ARRIVAL DATE MAR 1 1966

HELIOCENTRIC CONIC DISTANCE 454.328

RL	150.63	LAL	.00	LOL	347.08	VL	27.318	GAL	5.29	AZL	103.84	HCA	193.89	SMA	130.64	ECC	.17808	INC	13.8379
RP	107.73	LAP	3.29	LOP	180.58	VP	38.052	GAP	-1.81	AZP	76.55	TAL	154.10	TAP	347.99	RCA	107.38	APO	153.90
RC	61.127	GL	-56.29	GP	76.94	ZAL	67.68	ZAP	81.76	ETS	313.98	ZAE	111.10	ETE	73.28	ZAC	66.70	ETC	214.88

V1	29.581																		
V2	35.176																		
CLP	-50.62																		

PLANETOCENTRIC CONIC

C3	61.166	VHL	7.821	DLA	-72.54	RAL	338.73	RAD	6569.1	VEL	13.510	PTH	2.47	VHP	9.631	DPA	53.90	RAP	289.93
ECC	2.0066																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
19.93	11 18 56	2054.12	24.90	72.72	240.33	160.68	11 53 10	1454.1	32.41	70.02
160.07	21 59 13	5574.06	24.90	257.53	240.35	160.68	23 32 7	4974.1	32.42	254.82
19.93	11 18 56	2054.12	24.90	72.72	240.33	160.68	11 53 10	1454.1	32.41	70.02
160.07	21 59 13	5574.06	24.90	257.53	240.35	160.68	23 32 7	4974.1	32.42	254.82
19.93	11 18 56	2054.12	24.90	72.72	240.33	160.68	11 53 10	1454.1	32.41	70.02
160.07	21 59 13	5574.06	24.90	257.53	240.35	160.68	23 32 7	4974.1	32.42	254.82

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-1.6448	TRA	-1.0540	TC3	-.1016	BAU	.1414	SGT	2846.2	SGR	4363.5	SG3	255.0	ST	1431.1	SR	1571.8	SS	994.7
RDE	-1.2484	RRA	-1.7451	RC3	.1399	FAU	.00821	RRT	.9689	RRF	-.9968	RTF	-.9823	CRT	.9287	CRS	.9868	CST	.9764
FDE	1.1516	FRA	1.1562	FC3	-.1162	BSP	16409	SGB	5209.7	R23	-.0071	R13	-.9990	LSA	2312.7	MSA	399.7	SSA	3.2
BDE	2.0650	BRA	2.0387	BC3	.1729	FSP	-815	SG1	5175.7	SG2	593.6	THA	57.22	EL1	2087.8	EL2	399.6	ALF	47.89

LAUNCH DATE SEP 10 1965 FLIGHT TIME 174.00 ARRIVAL DATE MAR 3 1966

HELIOCENTRIC CONIC DISTANCE 460.727

RL 150.63 LAL .00 LOL 347.08 VL 27.332 GAL 5.28 AZL 101.12 HCA 197.04 SMA 130.74 ECC .17724 INC11.1174 VI 29.581
RP 107.76 LAP 3.24 LOP 183.82 VP 38.052 GAP -1.35 AZP 79.36 TAL 154.00 TAP 351.04 RCA 107.57 APO 153.91 V2 35.166
RC 63.151 GL -51.81 GP 72.96 ZAL 63.63 ZAP 82.26 ETS 326.46 ZAE 115.00 ETE 83.82 ZAC 62.26 ETC 223.00 CLP -62.63

PLANETOCENTRIC CONIC

C3 44.585 VHL 6.677 DLA -68.03 RAL 334.17 RAD 6568.7 VEL 12.882 PTH 2.35 VHP 8.040 DPA 49.41 RAP 288.48 ECC 1.7338

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
25.15	11 11 53	1961.91	29.00	65.78	231.23	154.67	11 44 35	1361.9	36.17	61.97
154.85	21 29 50	5509.58	29.01	256.07	231.25	154.67	23 1 40	4909.6	36.17	252.25
25.15	11 11 53	1961.91	29.00	65.78	231.23	154.67	11 44 35	1361.9	36.17	61.97
154.85	21 29 50	5509.58	29.01	256.07	231.25	154.67	23 1 40	4909.6	36.17	252.25
25.15	11 11 53	1961.91	29.00	65.78	231.23	154.67	11 44 35	1361.9	36.17	61.97
154.85	21 29 50	5509.58	29.01	256.07	231.25	154.67	23 1 40	4909.6	36.17	252.25

DIFFERENTIAL CORRECTIONS
TDE-1.0210 TRA -.7270 TC3 -.1156 BAU .2024
RDE -.9966 RRA-2.0756 RC3 .3194 FAU .01664
FDE 1.0736 FRA 1.6383 FC3 -.3230 BSP 16391
BDE 1.4268 BRA 2.1992 BC3 .3396 FSP -1077

MID-COURSE EXECUTION ACCURACY
SGT 1889.8 SGR 4854.8 SG3 336.3
RRT .9395 RRF -.9978 RTF -.9523
SGB 5209.7 R23 -.0001 R13 -.9987
SG1 5174.1 SG2 607.4 THA 69.62

ORBIT DETERMINATION ACCURACY
ST 1008.9 SR 1664.5 SS 1011.2
CRT .8715 CRS .9894 CST .9334
LSA 2149.9 MSA 434.3 SSA 4.1
EL1 1897.3 EL2 434.1 ALF 60.46

LAUNCH DATE SEP 10 1965 FLIGHT TIME 176.00 ARRIVAL DATE MAR 5 1966

HELIOCENTRIC CONIC DISTANCE 467.132

RL 150.63 LAL .00 LOL 347.08 VL 27.344 GAL 5.28 AZL 99.23 HCA 200.21 SMA 130.82 ECC .17663 INC 9.2290 VI 29.581
RP 107.80 LAP 3.18 LOP 187.05 VP 38.050 GAP -.89 AZP 81.33 TAL 153.89 TAP 354.10 RCA 107.71 APO 153.92 V2 35.155
RC 65.219 GL -47.42 GP 69.35 ZAL 59.99 ZAP 83.53 ETS 335.75 ZAE 118.19 ETE 91.72 ZAC 58.31 ETC 228.23 CLP -71.38

PLANETOCENTRIC CONIC

C3 35.171 VHL 5.930 DLA -63.73 RAL 330.62 RAD 6568.4 VEL 12.512 PTH 2.27 VHP 6.967 DPA 45.50 RAP 287.10 ECC 1.5788

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
30.18	11 9 10	1884.82	31.46	58.58	223.03	148.74	11 40 35	1284.8	38.20	53.73
149.82	21 4 15	5466.92	31.47	254.45	223.05	148.74	22 35 22	4866.9	38.20	249.60
30.18	11 9 10	1884.82	31.46	58.58	223.03	148.74	11 40 35	1284.8	38.20	53.73
149.82	21 4 15	5466.92	31.47	254.45	223.05	148.74	22 35 22	4866.9	38.20	249.60
30.18	11 9 10	1884.82	31.46	58.58	223.03	148.74	11 40 35	1284.8	38.20	53.73
149.82	21 4 15	5466.92	31.47	254.45	223.05	148.74	22 35 22	4866.9	38.20	249.60

DIFFERENTIAL CORRECTIONS
TDE -.6862 TRA -.4098 TC3 -.1808 BAU .2531
RDE -.7900 RRA-2.2749 RC3 .5070 FAU .02497
FDE 1.0471 FRA 2.1771 FC3 -.6147 BSP 16376
BDE 1.0465 BRA 2.3115 BC3 .5383 FSP -1369

MID-COURSE EXECUTION ACCURACY
SGT 1133.9 SGR 5060.1 SG3 424.5
RRT .8399 RRF -.9979 RTF -.8554
SGB 5185.6 R23 .0093 R13 -.9984
SG1 5150.3 SG2 604.6 THA 79.19

ORBIT DETERMINATION ACCURACY
ST 715.3 SR 1674.0 SS 1052.5
CRT .7564 CRS .9897 CST .8422
LSA 2054.8 MSA 446.4 SSA 5.0
EL1 1765.6 EL2 443.6 ALF 70.83

LAUNCH DATE SEP 10 1965 FLIGHT TIME 178.00 ARRIVAL DATE MAR 7 1966

HELIOCENTRIC CONIC DISTANCE 473.530

RL 150.63 LAL .00 LOL 347.08 VL 27.352 GAL 5.29 AZL 97.84 HCA 203.40 SMA 130.88 ECC .17626 INC 7.8366 VI 29.581
RP 107.83 LAP 3.10 LOP 190.28 VP 38.046 GAP -.43 AZP 82.80 TAL 153.75 TAP 357.15 RCA 107.81 APO 153.95 V2 35.143
RC 67.327 GL -43.26 GP 66.01 ZAL 56.74 ZAP 85.50 ETS 343.48 ZAE 120.81 ETE 98.68 ZAC 54.63 ETC 232.29 CLP -78.87

PLANETOCENTRIC CONIC

C3 29.362 VHL 5.419 DLA -59.69 RAL 327.89 RAD 6568.2 VEL 12.277 PTH 2.21 VHP 6.208 DPA 41.94 RAP 285.63 ECC 1.4832

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
34.98	11 10 0	1818.98	32.66	51.49	215.87	143.17	11 40 19	1219.0	38.91	45.76
145.02	20 41 40	5441.92	32.67	253.07	215.89	143.16	22 12 22	4841.9	38.92	247.33
34.98	11 10 0	1818.98	32.66	51.49	215.87	143.17	11 40 19	1219.0	38.91	45.76
145.02	20 41 40	5441.92	32.67	253.07	215.89	143.16	22 12 22	4841.9	38.92	247.33
34.98	11 10 0	1818.98	32.66	51.49	215.87	143.17	11 40 19	1219.0	38.91	45.76
145.02	20 41 40	5441.92	32.67	253.07	215.89	143.16	22 12 22	4841.9	38.92	247.33

DIFFERENTIAL CORRECTIONS
TDE -.4808 TRA -.0892 TC3 -.2937 BAU .2883
RDE -.6583 RRA-2.3981 RC3 .6733 FAU .03285
FDE 1.0741 FRA 2.7589 FC3 -.9687 BSP 16218
BDE .8152 BRA 2.3998 BC3 .7346 FSP -1666

MID-COURSE EXECUTION ACCURACY
SGT 628.3 SGR 5124.6 SG3 517.0
RRT .3294 RRF -.9979 RTF -.3520
SGB 5163.0 R23 .0200 R13 -.9980
SG1 5128.8 SG2 592.7 THA 87.66

ORBIT DETERMINATION ACCURACY
ST 511.6 SR 1660.4 SS 1112.1
CRT .5158 CRS .9892 CST .6358
LSA 2014.8 MSA 442.7 SSA 5.9
EL1 1682.8 EL2 432.5 ALF 80.32

LAUNCH DATE SEP 10 1965 FLIGHT TIME 180.00 ARRIVAL DATE MAR 9 1966

HELIOCENTRIC CONIC DISTANCE 479.915

RL 150.63 LAL .00 LOL 347.08 VL 27.359 GAL 5.31 AZL 96.76 HCA 206.59 SMA 130.93 ECC .17612 INC 6.7626 VI 29.581
RP 107.87 LAP 3.02 LOP 193.51 VP 38.040 GAP .03 AZP 83.95 TAL 153.60 TAP .19 RCA 107.87 APO 153.98 V2 35.132
RC 69.470 GL -39.37 GP 62.83 ZAL 53.84 ZAP 88.06 ETS 350.24 ZAE 122.93 ETE 105.29 ZAC 51.10 ETC 235.78 CLP -85.74

PLANETOCENTRIC CONIC

C3 25.570 VHL 5.057 DLA -55.91 RAL 325.77 RAD 6568.0 VEL 12.122 PTH 2.17 VHP 5.655 DPA 38.61 RAP 284.06 ECC 1.4208

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
39.54	11 13 37	1760.87	32.93	44.72	209.76	138.11	11 42 58	1160.9	38.70	38.29
140.46	20 21 8	5431.24	32.94	252.14	209.77	138.10	21 51 39	4831.2	38.71	245.72
39.54	11 13 37	1760.87	32.93	44.72	209.76	138.11	11 42 58	1160.9	38.70	38.29
140.46	20 21 8	5431.24	32.94	252.14	209.77	138.10	21 51 39	4831.2	38.71	245.72
39.54	11 13 37	1760.87	32.93	44.72	209.76	138.11	11 42 58	1160.9	38.70	38.29
140.46	20 21 8	5431.24	32.94	252.14	209.77	138.10	21 51 39	4831.2	38.71	245.72

DIFFERENTIAL CORRECTIONS
TDE -.3344 TRA .2400 TC3 -.4437 BAU .3170
RDE -.5716 RRA-2.4540 RC3 .8143 FAU .04050
FDE 1.1372 FRA 3.3488 FC3-1.3712 BSP 16135
BDE .6623 BRA 2.4658 BC3 .9273 FSP -1973

MID-COURSE EXECUTION ACCURACY
SGT 761.8 SGR 5070.6 SG3 607.4
RRT -.6552 RRF -.9977 RTF .6383
SGB 5127.5 R23 .0316 R13 -.9974
SG1 5095.4 SG2 572.7 THA 95.69

ORBIT DETERMINATION ACCURACY
ST 406.1 SR 1623.4 SS 1175.3
CRT .0432 CRS .9880 CST .1966
LSA 1999.1 MSA 430.1 SSA 6.7
EL1 1623.5 EL2 405.7 ALF 89.34

LAUNCH DATE SEP 10 1965 FLIGHT TIME 182.00 ARRIVAL DATE MAR 11 1966

HELIOCENTRIC CONIC DISTANCE 486.284

RL 150.63 LAL .00 LOL 347.08 VL 27.363 GAL 5.35 AZL 95.90 HCA 209.79 SMA 130.96 ECC .17622 INC 5.9048 V1 29.581
RP 107.90 LAP 2.93 LOP 196.74 VP 38.032 GAP .48 AZP 84.87 TAL 153.41 TAP 3.20 RCA 107.88 APO 154.03 V2 35.120
RC 71.643 GL -35.76 GP 59.75 ZAL 51.26 ZAP 91.11 ETS 356.25 ZAE 124.60 ETE 111.76 ZAC 47.64 ETC 238.94 CLP -92.21

PLANETOCENTRIC CONIC

C3 23.002 VHL 4.796 DLA -52.39 RAL 324.10 RAD 6567.9 VEL 12.016 PTH 2.14 VHP 5.246 DPA 35.41 RAP 282.42 ECC 1.3786

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
43.89	11 19 28	1707.89	32.56	38.33	204.62	133.61	11 47 56	1107.9	37.87	31.41
136.11	20 1 56	5432.30	32.57	251.81	204.63	133.60	21 32 28	4832.3	37.88	244.89
43.89	11 19 28	1707.89	32.56	38.33	204.62	133.61	11 47 56	1107.9	37.87	31.41
136.11	20 1 56	5432.30	32.57	251.81	204.63	133.60	21 32 28	4832.3	37.88	244.89
43.89	11 19 28	1707.89	32.56	38.33	204.62	133.61	11 47 56	1107.9	37.87	31.41
136.11	20 1 56	5432.30	32.57	251.81	204.63	133.60	21 32 28	4832.3	37.88	244.89

DIFFERENTIAL CORRECTIONS
TDE -.2172 TRA .5735 TC3 -.6240 BAU .3408
RDE -.5154 RRA-2.4644 RC3 .9158 FAU .04740
FDE 1.2319 FRA 3.9354 FC3-1.7841 BSP 16035
BDE .5593 BRA 2.5302 BC3 1.1081 FSP -2265

MID-COURSE EXECUTION ACCURACY
SGT 1298.3 SGR 4941.7 SG3 693.5
RRT -.9010 RRF -.9975 RTF .8914
SGB 5109.4 R23 .0429 R13 -.9967
SG1 5080.0 SG2 547.8 THA 103.48

ORBIT DETERMINATION ACCURACY
ST 425.5 SR 1572.9 SS 1242.1
CRT -.4902 CRS .9865 CST -.3408
LSA 2006.6 MSA 413.8 SSA 7.5
EL1 1587.5 EL2 367.5 ALF 97.98

LAUNCH DATE SEP 10 1965 FLIGHT TIME 184.00 ARRIVAL DATE MAR 13 1966

HELIOCENTRIC CONIC DISTANCE 492.633

RL 150.63 LAL .00 LOL 347.08 VL 27.365 GAL 5.40 AZL 95.20 HCA 212.99 SMA 130.97 ECC .17656 INC 5.2001 V1 29.581
RP 107.94 LAP 2.83 LOP 199.96 VP 38.022 GAP .93 AZP 85.63 TAL 153.20 TAP 6.19 RCA 107.85 APO 154.10 V2 35.108
RC 73.845 GL -32.41 GP 56.71 ZAL 48.96 ZAP 94.57 ETS 1.61 ZAE 125.85 ETE 118.12 ZAC 44.24 ETC 241.86 CLP -98.35

PLANETOCENTRIC CONIC

C3 21.229 VHL 4.607 DLA -49.11 RAL 322.77 RAD 6567.9 VEL 11.942 PTH 2.13 VHP 4.945 DPA 32.30 RAP 280.76 ECC 1.3494

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
48.04	11 27 17	1657.89	31.75	32.31	200.35	129.66	11 54 55	1057.9	36.63	25.05
131.96	19 43 30	5443.45	31.76	252.11	200.36	129.65	21 14 14	4843.4	36.64	244.85
48.04	11 27 17	1657.89	31.75	32.31	200.35	129.66	11 54 55	1057.9	36.63	25.05
131.96	19 43 30	5443.45	31.76	252.11	200.36	129.65	21 14 14	4843.4	36.64	244.85
48.04	11 27 17	1657.89	31.75	32.31	200.35	129.66	11 54 55	1057.9	36.63	25.05
131.96	19 43 30	5443.45	31.76	252.11	200.36	129.65	21 14 14	4843.4	36.64	244.85

DIFFERENTIAL CORRECTIONS
TDE -.1138 TRA .9062 TC3 -.8240 BAU .3629
RDE -.4745 RRA-2.4293 RC3 .9777 FAU .05344
FDE 1.3451 FRA 4.4812 FC3-2.1793 BSP 15985
BDE .4879 BRA 2.5928 BC3 1.2786 FSP -2533

MID-COURSE EXECUTION ACCURACY
SGT 1886.7 SGR 4738.4 SG3 769.3
RRT -.9557 RRF -.9972 RTF .9488
SGB 5100.2 R23 .0533 R13 -.9959
SG1 5073.7 SG2 518.8 THA 111.06

ORBIT DETERMINATION ACCURACY
ST 535.9 SR 1505.1 SS 1304.5
CRT -.7835 CRS .9844 CST -.6621
LSA 2024.0 MSA 396.8 SSA 8.2
EL1 1565.2 EL2 320.2 ALF 106.29

LAUNCH DATE SEP 10 1965 FLIGHT TIME 186.00 ARRIVAL DATE MAR 15 1966

HELIOCENTRIC CONIC DISTANCE 498.960

RL 150.63 LAL .00 LOL 347.08 VL 27.366 GAL 5.46 AZL 94.61 HCA 216.19 SMA 130.97 ECC .17713 INC 4.6076 V1 29.581
RP 107.98 LAP 2.72 LOP 203.18 VP 38.011 GAP 1.37 AZP 86.28 TAL 152.95 TAP 9.14 RCA 107.77 APO 154.17 V2 35.095
RC 76.070 GL -29.29 GP 53.69 ZAL 46.91 ZAP 98.32 ETS 6.36 ZAE 126.69 ETE 124.30 ZAC 40.90 ETC 244.52 CLP-104.15

PLANETOCENTRIC CONIC

C3 20.002 VHL 4.472 DLA -46.04 RAL 321.70 RAD 6567.8 VEL 11.890 PTH 2.11 VHP 4.728 DPA 29.25 RAP 279.13 ECC 1.3292

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
52.04	11 36 55	1608.99	30.65	26.59	196.84	126.22	12 3 44	1009.0	35.14	19.12
127.96	19 25 21	5463.71	30.66	253.07	196.85	126.20	20 56 25	4863.7	35.15	245.59
52.04	11 36 55	1608.99	30.65	26.59	196.84	126.22	12 3 44	1009.0	35.14	19.12
127.96	19 25 21	5463.71	30.66	253.07	196.85	126.20	20 56 25	4863.7	35.15	245.59
52.04	11 36 55	1608.99	30.65	26.59	196.84	126.22	12 3 44	1009.0	35.14	19.12
127.96	19 25 21	5463.71	30.66	253.07	196.85	126.20	20 56 25	4863.7	35.15	245.59

DIFFERENTIAL CORRECTIONS
TDE -.0162 TRA 1.2332 TC3-1.0324 BAU .3840
RDE -.4423 RRA-2.3604 RC3 .9983 FAU .05825
FDE 1.4699 FRA 4.9670 FC3-2.5212 BSP 15991
BDE .4426 BRA 2.6631 BC3 1.4362 FSP -2764

MID-COURSE EXECUTION ACCURACY
SGT 2456.4 SGR 4483.1 SG3 831.8
RRT -.9743 RRF -.9968 RTF .9688
SGB 5111.9 R23 .0619 R13 -.9949
SG1 5088.6 SG2 487.8 THA 118.38

ORBIT DETERMINATION ACCURACY
ST 683.7 SR 1424.8 SS 1361.8
CRT -.9048 CRS .9818 CST -.8076
LSA 2051.1 MSA 380.6 SSA 8.9
EL1 1557.7 EL2 266.2 ALF 114.22

LAUNCH DATE SEP 10 1965 FLIGHT TIME 188.00 ARRIVAL DATE MAR 17 1966

HELIOCENTRIC CONIC DISTANCE 505.266

RL 150.63 LAL .00 LOL 347.08 VL 27.364 GAL 5.54 AZL 94.10 HCA 219.39 SMA 130.96 ECC .17793 INC 4.0997 V1 29.581
RP 108.02 LAP 2.60 LOP 206.40 VP 37.998 GAP 1.81 AZP 86.83 TAL 152.67 TAP 12.07 RCA 107.66 APO 154.26 V2 35.082
RC 78.316 GL -26.41 GP 50.70 ZAL 45.06 ZAP 102.28 ETS 10.52 ZAE 127.15 ETE 130.22 ZAC 37.61 ETC 246.91 CLP-109.61

PLANETOCENTRIC CONIC

C3 19.170 VHL 4.378 DLA -43.19 RAL 320.84 RAD 6567.8 VEL 11.855 PTH 2.10 VHP 4.578 DPA 26.24 RAP 277.59 ECC 1.3155

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
55.92	11 48 24	1559.99	29.37	21.07	194.00	123.21	12 14 24	960.0	33.51	13.46
124.08	19 7 2	5492.72	29.38	254.69	194.01	123.20	20 38 35	4892.7	33.52	247.08
55.92	11 48 24	1559.99	29.37	21.07	194.00	123.21	12 14 24	960.0	33.51	13.46
124.08	19 7 2	5492.72	29.38	254.69	194.01	123.20	20 38 35	4892.7	33.52	247.08
55.92	11 48 24	1559.99	29.37	21.07	194.00	123.21	12 14 24	960.0	33.51	13.46
124.08	19 7 2	5492.72	29.38	254.69	194.01	123.20	20 38 35	4892.7	33.52	247.08

DIFFERENTIAL CORRECTIONS
TDE .0806 TRA 1.5519 TC3-1.2364 BAU .4041
RDE -.4152 RRA-2.2683 RC3 .9787 FAU .06147
FDE 1.6007 FRA 5.3794 FC3-2.7761 BSP 16005
BDE .4230 BRA 2.7484 BC3 1.5769 FSP -2932

MID-COURSE EXECUTION ACCURACY
SGT 2990.1 SGR 4195.7 SG3 879.0
RRT -.9823 RRF -.9963 RTF .9777
SGB 5152.2 R23 .0679 R13 -.9939
SG1 5131.8 SG2 457.3 THA 125.32

ORBIT DETERMINATION ACCURACY
ST 842.8 SR 1337.0 SS 1414.3
CRT -.9572 CRS .9785 CST -.8772
LSA 2089.0 MSA 366.2 SSA 9.6
EL1 1566.7 EL2 208.1 ALF 121.73

LAUNCH DATE SEP 10 1965 FLIGHT TIME 190.00 ARRIVAL DATE MAR 19 1966

HELIOCENTRIC CONIC DISTANCE 511.547

RL	150.63	LAL	.00	LOL	347.08	VL	27.361	GAL	5.63	AZL	93.66	HCA	222.59	SMA	130.94	ECC	.17897	INC	3.6568	V1	29.581
RP	108.06	LAP	2.47	LOP	209.62	VP	37.984	GAP	2.25	AZP	87.31	TAL	152.36	TAP	14.95	RCA	107.51	APO	154.37	V2	35.069
RC	80.581	GL	-23.72	GP	47.74	ZAL	43.40	ZAP	106.33	ETS	14.13	ZAE	127.25	ETE	135.77	ZAC	34.42	ETC	248.97	CLP	-114.72

PLANETOCENTRIC CONIC

C3	18.638	VHL	4.317	DLA	-40.52	RAL	320.16	RAD	6567.8	VEL	11.833	PTH	2.10	VHP	4.486	DPA	23.30	RAP	276.19	ECC	1.3067

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
59.72	12 1 50	1509.00	27.97	15.64	191.72	120.60	12 26 59	909.0	31.80	7.95
120.28	18 48 8	5530.45	27.98	256.99	191.73	120.58	20 20 19	4930.4	31.82	249.30
59.72	12 1 50	1509.00	27.97	15.64	191.72	120.60	12 26 59	909.0	31.80	7.95
120.28	18 48 8	5530.45	27.98	256.99	191.73	120.58	20 20 19	4930.4	31.82	249.30
59.72	12 1 50	1509.00	27.97	15.64	191.72	120.60	12 26 59	909.0	31.80	7.95
120.28	18 48 8	5530.45	27.98	256.99	191.73	120.58	20 20 19	4930.4	31.82	249.30

DIFFERENTIAL CORRECTIONS

TDE	.1763	TRA	1.8571	TC3	-1.4300	BAU	.4259
RDE	-.3849	RRA	-2.1560	RC3	.9365	FAU	.06359
FDE	1.7156	FRA	5.6932	FC3	-2.9537	BSP	16184
BDE	.4233	BRA	2.8456	BC3	1.7094	FSP	-3063

MID-COURSE EXECUTION ACCURACY

SGT	3476.9	SGR	3883.5	SG3	908.1				
RRT	-.9865	RRF	-.9955	RTF	.9824				
SGB	5212.5	R23	.0704	R13	-.9930				
SG1	5195.1	SG2	426.1	THA	131.80				

ORBIT DETERMINATION ACCURACY

ST	1001.0	SR	1239.6	SS	1454.3				
CRT	-.9821	CRS	.9743	CST	-.9146				
LSA	2128.0	MSA	353.4	SSA	10.2				
EL1	1586.4	EL2	147.3	ALF	128.81				

LAUNCH DATE SEP 10 1965 FLIGHT TIME 192.00 ARRIVAL DATE MAR 21 1966

HELIOCENTRIC CONIC DISTANCE 517.804

RL	150.63	LAL	.00	LOL	347.08	VL	27.356	GAL	5.74	AZL	93.27	HCA	225.79	SMA	130.90	ECC	.18024	INC	3.2650	V1	29.581
RP	108.10	LAP	2.34	LOP	212.83	VP	37.968	GAP	2.69	AZP	87.72	TAL	152.01	TAP	17.81	RCA	107.31	APO	154.50	V2	35.056
RC	82.862	GL	-21.22	GP	44.85	ZAL	41.89	ZAP	110.42	ETS	17.23	ZAE	127.06	ETE	140.88	ZAC	31.35	ETC	250.65	CLP	-119.47

PLANETOCENTRIC CONIC

C3	18.344	VHL	4.283	DLA	-38.01	RAL	319.62	RAD	6567.7	VEL	11.821	PTH	2.09	VHP	4.441	DPA	20.44	RAP	274.96	ECC	1.3019

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
63.50	12 17 34	1454.26	26.52	10.13	189.93	118.30	12 41 48	854.3	30.08	2.41
116.50	18 28 5	5577.74	26.53	260.03	189.94	118.28	20 1 3	4977.7	30.09	252.30
63.50	12 17 34	1454.26	26.52	10.13	189.93	118.30	12 41 48	854.3	30.08	2.41
116.50	18 28 5	5577.74	26.53	260.03	189.94	118.28	20 1 3	4977.7	30.09	252.30
63.50	12 17 34	1454.26	26.52	10.13	189.93	118.30	12 41 48	854.3	30.08	2.41
116.50	18 28 5	5577.74	26.53	260.03	189.94	118.28	20 1 3	4977.7	30.09	252.30

DIFFERENTIAL CORRECTIONS

TDE	.2734	TRA	2.1494	TC3	-1.6041	BAU	.4478
RDE	-.3543	RRA	-2.0346	RC3	.8726	FAU	.06427
FDE	1.8177	FRA	5.9122	FC3	-3.0330	BSP	16434
BDE	.4475	BRA	2.9596	BC3	1.8261	FSP	-3136

MID-COURSE EXECUTION ACCURACY

SGT	3916.7	SGR	3566.1	SG3	920.2				
RRT	-.9886	RRF	-.9945	RTF	.9851				
SGB	5297.0	R23	.0692	R13	-.9922				
SG1	5282.0	SG2	398.8	THA	137.71				

ORBIT DETERMINATION ACCURACY

ST	1155.1	SR	1139.8	SS	1485.6				
CRT	-.9942	CRS	.9688	CST	-.9369				
LSA	2173.2	MSA	342.8	SSA	10.8				
EL1	1620.4	EL2	87.3	ALF	135.38				

LAUNCH DATE SEP 10 1965 FLIGHT TIME 194.00 ARRIVAL DATE MAR 23 1966

HELIOCENTRIC CONIC DISTANCE 524.035

RL	150.63	LAL	.00	LOL	347.08	VL	27.350	GAL	5.87	AZL	92.91	HCA	228.99	SMA	130.86	ECC	.18175	INC	2.9189	V1	29.581
RP	108.14	LAP	2.20	LOP	216.04	VP	37.951	GAP	3.13	AZP	88.09	TAL	151.63	TAP	20.63	RCA	107.08	APO	154.64	V2	35.043
RC	85.157	GL	-18.89	GP	42.06	ZAL	40.53	ZAP	114.45	ETS	19.88	ZAE	126.61	ETE	145.48	ZAC	28.43	ETC	251.90	CLP	-123.88

PLANETOCENTRIC CONIC

C3	18.248	VHL	4.272	DLA	-35.67	RAL	319.20	RAD	6567.7	VEL	11.817	PTH	2.09	VHP	4.438	DPA	17.68	RAP	273.94	ECC	1.3003

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
67.34	12 36 7	1393.34	25.05	4.37	188.56	116.27	12 59 21	793.3	28.36	356.63
112.66	18 6 10	5636.18	25.06	263.91	188.56	116.26	19 40 6	5036.2	28.37	256.17
67.34	12 36 7	1393.34	25.05	4.37	188.56	116.27	12 59 21	793.3	28.36	356.63
112.66	18 6 10	5636.18	25.06	263.91	188.56	116.26	19 40 6	5036.2	28.37	256.17
67.34	12 36 7	1393.34	25.05	4.37	188.56	116.27	12 59 21	793.3	28.36	356.63
112.66	18 6 10	5636.18	25.06	263.91	188.56	116.26	19 40 6	5036.2	28.37	256.17

DIFFERENTIAL CORRECTIONS

TDE	.3722	TRA	2.4294	TC3	-1.7542	BAU	.4699
RDE	-.3222	RRA	-1.9102	RC3	.7959	FAU	.06368
FDE	1.9009	FRA	6.0403	FC3	-3.0214	BSP	16758
BDE	.4923	BRA	3.0905	BC3	1.9263	FSP	-3155

MID-COURSE EXECUTION ACCURACY

SGT	4310.9	SGR	3255.2	SG3	916.9				
RRT	-.9895	RRF	-.9932	RTF	.9868				
SGB	5401.9	R23	.0643	R13	-.9915				
SG1	5388.7	SG2	376.5	THA	143.02				

ORBIT DETERMINATION ACCURACY

ST	1303.6	SR	1040.4	SS	1507.5				
CRT	-.9993	CRS	.9618	CST	-.9515				
LSA	2223.2	MSA	334.2	SSA	11.3				
EL1	1667.6	EL2	31.1	ALF	141.41				

LAUNCH DATE SEP 10 1965 FLIGHT TIME 196.00 ARRIVAL DATE MAR 25 1966

HELIOCENTRIC CONIC DISTANCE 530.239

RL	150.63	LAL	.00	LOL	347.08	VL	27.342	GAL	6.01	AZL	92.60	HCA	232.19	SMA	130.81	ECC	.18350	INC	2.5956	V1	29.581
RP	108.18	LAP	2.05	LOP	219.24	VP	37.933	GAP	3.57	AZP	88.41	TAL	151.22	TAP	23.41	RCA	106.80	APO	154.81	V2	35.030
RC	87.465	GL	-16.72	GP	39.39	ZAL	39.28	ZAP	118.38	ETS	22.14	ZAE	125.98	ETE	149.57	ZAC	25.68	ETC	252.64	CLP	-127.95

PLANETOCENTRIC CONIC

C3	18.321	VHL	4.280	DLA	-33.47	RAL	318.88	RAD	6567.7	VEL	11.820	PTH	2.09	VHP	4.471	DPA	15.04	RAP	273.14	ECC	1.3015

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
71.36	12 58 32	1322.41	23.58	358.04	187.55	114.47	13 20 35	722.4	26.67	350.30
108.64	17 41 12	5708.99	23.59	268.86	187.56	114.46	19 16 21	5109.0	26.69	261.12
71.36	12 58 32	1322.41	23.58	358.04	187.55	114.47	13 20 35	722.4	26.67	350.30
108.64	17 41 12	5708.99	23.59	268.86	187.56	114.46	19 16 21	5109.0	26.69	261.12
110.00	16 56 38	5845.52	19.04	277.00	185.10	118.94	18 34 4	5245.5	22.75	269.83
110.00	18 42 16	5521.92	28.29	255.47	189.70	110.04	20 14 18	4921.9	30.75	248.13

DIFFERENTIAL CORRECTIONS

TDE	.4728	TRA	2.6981	TC3	-1.8775	BAU	.4919
RDE	-.2891	RRA	-1.7879	RC3	.7130	FAU	.06200
FDE	1.9636	FRA	6.0864	FC3	-2.9296	BSP	17156
BDE	.5542	BRA	3.2367	BC3	2.0083	FSP	-3129

MID-COURSE EXECUTION ACCURACY

SGT	4661.4	SGR	2958.7	SG3	900.3				
RRT	-.9896	RRF	-.9915	RTF	.9878				
SGB	5521.1	R23	.0566	R13	-.9910				
SG1	5509.3	SG2	360.8	THA	147.71				

ORBIT DETERMINATION ACCURACY

ST	1445.6	SR	943.9	SS	1520.7				
CRT	-.9994	CRS	.9528	CST	-.9616				
LSA	2277.3	MSA	327.3	SSA	11.8				
EL1	1726.3	EL2	26.7	ALF	146.86				

LAUNCH DATE SEP 10 1965 FLIGHT TIME 198.00 ARRIVAL DATE MAR 27 1966

HELIOCENTRIC CONIC DISTANCE 536.416
RL 150.63 LAL .00 LOL 347.08 VL 27.333 GAL 6.17 AZL 92.30 HCA 235.39 SMA 130.74 ECC .18550 INC 2.3040 VI 29.581
RP 108.22 LAP 1.90 LOP 222.45 VP 37.915 GAP 4.01 AZP 88.69 TAL 150.77 TAP 26.16 RCA 106.49 APO 154.99 V2 35.016
RC 89.783 GL -14.69 GP 36.87 ZAL 38.14 ZAP 122.16 ETS 24.07 ZAE 125.20 ETE 153.16 ZAC 23.13 ETC 252.79 CLP-131.71
PLANETOCENTRIC CONIC
C3 18.547 VHL 4.307 DLA -31.40 RAL 318.65 RAD 6567.8 VEL 11.829 PTH 2.10 VHP 4.535 DPA 12.54 RAP 272.57 ECC 1.3052

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
75.83	13 27 4	1233.75	22.13	350.57	186.86	112.87	13 47 38	633.7	25.03	342.85
104.17	17 10 50	5803.40	22.14	275.38	186.87	112.86	18 47 34	5203.4	25.04	267.66
75.83	13 27 4	1233.75	22.13	350.57	186.86	112.87	13 47 38	633.7	25.03	342.85
104.17	17 10 50	5803.40	22.14	275.38	186.87	112.86	18 47 34	5203.4	25.04	267.66
110.00	16 4 50	721.28	13.39	308.43	182.13	121.75	16 16 51	121.3	17.49	301.72
110.00	19 32 15	5363.86	31.46	245.26	190.36	104.11	21 1 39	4763.9	33.08	236.41

DIFFERENTIAL CORRECTIONS
TDE .5779 TRA 2.9604 TC3-1.9677 BAU .5119
RDE -.2572 RRA-1.6733 RC3 .6251 FAU .05910
FDE 2.0124 FRA 6.0714 FC3-2.7585 BSP 17527
BDE .6325 BRA 3.4006 BC3 2.0646 FSP -3048

MID-COURSE EXECUTION ACCURACY
SGT 4975.6 SGR 2685.1 SG3 874.2
RRT -.9889 RRF -.9894 RTF .9883
SGB 5653.9 R23 .0478 R13 -.9905
SG1 5642.9 SG2 352.5 THA 151.79

ORBIT DETERMINATION ACCURACY
ST 1584.3 SR 854.1 SS 1529.2
CRT -.9954 CRS .9415 CST -.9691
LSA 2339.7 MSA 321.9 SSA 12.2
EL1 1798.4 EL2 71.8 ALF 151.73

LAUNCH DATE SEP 10 1965 FLIGHT TIME 200.00 ARRIVAL DATE MAR 29 1966

HELIOCENTRIC CONIC DISTANCE 542.564
RL 150.63 LAL .00 LOL 347.08 VL 27.323 GAL 6.34 AZL 92.03 HCA 238.58 SMA 130.67 ECC .18774 INC 2.0342 VI 29.581
RP 108.26 LAP 1.74 LOP 225.64 VP 37.895 GAP 4.45 AZP 88.94 TAL 150.29 TAP 28.87 RCA 106.14 APO 155.20 V2 35.003
RC 92.112 GL -12.80 GP 34.51 ZAL 37.09 ZAP 125.77 ETS 25.74 ZAE 124.35 ETE 156.26 ZAC 20.78 ETC 252.22 CLP-135.19
PLANETOCENTRIC CONIC
C3 18.914 VHL 4.349 DLA -29.46 RAL 318.49 RAD 6567.8 VEL 11.845 PTH 2.10 VHP 4.627 DPA 10.20 RAP 272.23 ECC 1.3113

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
81.52	14 8 40	1104.24	20.71	340.27	186.46	111.43	14 27 4	504.2	23.44	332.57
98.48	16 28 2	654.09	20.72	307.22	186.46	111.42	16 38 56	54.1	23.45	299.52
100.00	15 56 55	753.72	17.32	313.07	184.93	114.75	16 9 29	153.7	20.51	305.73
100.00	17 22 28	5767.88	24.19	273.56	187.81	108.11	18 58 35	5167.9	26.44	265.49
110.00	15 33 22	827.92	9.50	314.24	180.50	122.99	15 47 10	227.9	13.78	307.75
110.00	20 2 30	5266.44	32.85	238.00	190.28	100.03	21 30 16	4666.4	33.89	228.92

DIFFERENTIAL CORRECTIONS
TDE .6826 TRA 3.2126 TC3-2.0351 BAU .5328
RDE -.2229 RRA-1.5644 RC3 .5454 FAU .05592
FDE 2.0343 FRA 5.9942 FC3-2.5595 BSP 18007
BDE .7181 BRA 3.5733 BC3 2.1069 FSP -2954

MID-COURSE EXECUTION ACCURACY
SGT 5250.7 SGR 2431.9 SG3 839.4
RRT -.9875 RRF -.9866 RTF .9887
SGB 5786.5 R23 .0379 R13 -.9901
SG1 5776.0 SG2 348.4 THA 155.33

ORBIT DETERMINATION ACCURACY
ST 1714.0 SR 768.6 SS 1526.9
CRT -.9871 CRS .9266 CST -.9747
LSA 2399.8 MSA 317.7 SSA 12.5
EL1 1875.1 EL2 112.5 ALF 156.03

LAUNCH DATE SEP 10 1965 FLIGHT TIME 202.00 ARRIVAL DATE MAR 31 1966

HELIOCENTRIC CONIC DISTANCE 548.681
RL 150.63 LAL .00 LOL 347.08 VL 27.311 GAL 6.54 AZL 91.78 HCA 241.77 SMA 130.59 ECC .19025 INC 1.7823 VI 29.581
RP 108.31 LAP 1.57 LOP 228.84 VP 37.875 GAP 4.90 AZP 89.16 TAL 149.79 TAP 31.56 RCA 105.75 APO 155.43 V2 34.990
RC 94.449 GL -11.04 GP 32.31 ZAL 36.13 ZAP 129.19 ETS 27.19 ZAE 123.44 ETE 158.93 ZAC 18.66 ETC 250.80 CLP-138.40
PLANETOCENTRIC CONIC
C3 19.418 VHL 4.407 DLA -27.63 RAL 318.41 RAD 6567.8 VEL 11.866 PTH 2.10 VHP 4.744 DPA 8.01 RAP 272.11 ECC 1.3196

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	14 23 18	1063.48	15.16	334.84	184.52	114.21	14 41 1	463.5	18.30	327.57
90.00	16 12 43	707.26	23.64	312.19	187.81	106.06	16 24 30	107.3	25.61	304.08
100.00	15 1 59	938.47	11.74	323.95	182.81	117.69	15 17 37	338.5	15.35	317.03
100.00	18 16 44	5595.54	27.32	261.72	188.85	102.63	19 49 59	4995.5	28.78	253.22
110.00	15 9 43	914.18	6.27	318.83	179.52	123.67	15 24 57	314.2	10.65	312.48
110.00	20 25 29	5192.60	33.59	232.37	190.09	96.77	21 52 2	4592.6	34.16	223.17

DIFFERENTIAL CORRECTIONS
TDE .7901 TRA 3.4606 TC3-2.0748 BAU .5523
RDE -.1893 RRA-1.4653 RC3 .4706 FAU .05223
FDE 2.0405 FRA 5.8788 FC3-2.3287 BSP 18494
BDE .8124 BRA 3.7581 BC3 2.1275 FSP -2836

MID-COURSE EXECUTION ACCURACY
SGT 5494.8 SGR 2203.9 SG3 799.8
RRT -.9854 RRF -.9832 RTF .9888
SGB 5920.3 R23 .0285 R13 -.9898
SG1 5910.0 SG2 349.0 THA 158.36

ORBIT DETERMINATION ACCURACY
ST 1838.4 SR 690.6 SS 1519.3
CRT -.9739 CRS .9076 CST -.9791
LSA 2463.0 MSA 314.3 SSA 12.7
EL1 1958.3 EL2 147.1 ALF 159.79

LAUNCH DATE SEP 10 1965 FLIGHT TIME 204.00 ARRIVAL DATE APR 2 1966

HELIOCENTRIC CONIC DISTANCE 554.768
RL 150.63 LAL .00 LOL 347.08 VL 27.299 GAL 6.75 AZL 91.55 HCA 244.96 SMA 130.50 ECC .19302 INC 1.5453 VI 29.581
RP 108.35 LAP 1.40 LOP 232.04 VP 37.854 GAP 5.35 AZP 89.35 TAL 149.25 TAP 34.21 RCA 105.31 APO 155.69 V2 34.977
RC 96.794 GL -9.40 GP 30.29 ZAL 35.23 ZAP 132.42 ETS 28.48 ZAE 122.53 ETE 161.21 ZAC 16.77 ETC 248.38 CLP-141.37
PLANETOCENTRIC CONIC
C3 20.056 VHL 4.478 DLA -25.91 RAL 318.39 RAD 6567.8 VEL 11.893 PTH 2.11 VHP 4.883 DPA 5.97 RAP 272.20 ECC 1.3301

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	13 35 40	1229.41	10.30	344.60	183.04	116.52	13 56 9	629.4	13.78	337.65
90.00	17 0 10	5844.73	26.08	279.75	188.73	101.44	18 37 34	5244.7	27.40	271.33
100.00	14 30 20	1052.87	8.04	330.43	181.84	118.89	14 47 53	452.9	11.84	323.70
100.00	18 48 10	5496.51	28.59	254.64	189.24	99.12	20 19 47	4896.5	29.56	245.96
110.00	14 50 39	989.12	3.43	322.77	179.00	124.03	15 7 8	389.1	7.87	316.50
110.00	20 44 21	5133.02	33.97	227.76	189.97	94.06	22 9 54	4533.0	34.16	218.52

DIFFERENTIAL CORRECTIONS
TDE .9005 TRA 3.7059 TC3-2.0896 BAU .5706
RDE -.1567 RRA-1.3759 RC3 .4030 FAU .04829
FDE 2.0338 FRA 5.7360 FC3-2.0845 BSP 18981
BDE .9141 BRA 3.9531 BC3 2.1281 FSP -2703

MID-COURSE EXECUTION ACCURACY
SGT 5710.9 SGR 2000.1 SG3 757.3
RRT -.9825 RRF -.9790 RTF .9889
SGB 6051.1 R23 .0201 R13 -.9895
SG1 6040.8 SG2 352.6 THA 160.95

ORBIT DETERMINATION ACCURACY
ST 1957.3 SR 620.5 SS 1507.3
CRT -.9551 CRS .8838 CST -.9826
LSA 2528.0 MSA 311.4 SSA 12.9
EL1 2045.8 EL2 175.9 ALF 163.03

LAUNCH DATE SEP 10 1965 FLIGHT TIME 206.00 ARRIVAL DATE APR 4 1966

HELIOCENTRIC CONIC DISTANCE 560.821

RL	150.63	LAL	.00	LOL	347.08	VL	27.285	GAL	6.98	AZL	91.32	HCA	248.15	SMA	130.41	ECC	.19607	INC	1.3205	VI	29.581
RP	108.39	LAP	1.23	LOP	235.23	VP	37.832	GAP	5.80	AZP	89.51	TAL	148.68	TAP	36.83	RCA	104.84	APO	155.98	V2	34.964
RC	99.145	GL	-7.86	GP	28.43	ZAL	34.39	ZAP	135.45	ETS	29.66	ZAE	121.62	ETE	163.15	ZAC	15.15	ETC	244.81	CLP	-144.13

PLANETOCENTRIC CONIC

C3	20.831	VHL	4.564	DLA	-24.29	RAL	318.41	RAD	6567.8	VEL	11.925	PTH	2.12	VHP	5.043	DPA	4.10	RAP	272.49	ECC	1.3428

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	13 5 58	1340.68	6.86	350.96	182.41	117.54	13 28 18	740.7	10.49	344.17
90.00	17 30 6	5751.58	27.17	273.15	189.24	98.30	19 5 57	5151.6	28.04	264.59
100.00	14 6 44	1144.50	5.00	335.53	181.40	119.51	14 25 48	544.5	8.89	328.91
100.00	19 12 1	5422.99	29.27	249.28	189.55	96.37	20 42 23	4823.0	29.84	240.52
110.00	14 34 44	1056.67	.85	326.30	178.82	124.17	14 52 21	456.7	5.32	320.07
110.00	21 0 29	5083.59	34.14	223.91	189.96	91.79	22 25 13	4483.6	34.01	214.66

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TDE	1.0142	TRA	3.9510	TC3	-2.0815	BAU	.5875	SGT	5902.9	SGR	1819.4	SG3	713.6	ST	2071.1	SR	558.3	SS	1491.6
RDE	-.1251	RRA	-1.2963	RC3	.3429	FAU	.04422	RRT	-.9786	RRF	-.9740	RTF	.9888	CRT	-.9297	CRS	.8541	CST	-.9855
FDE	2.0165	FRA	5.5767	FC3	-1.8378	BSP	19448	SGB	6176.9	R23	.0132	R13	-.9892	LSA	2594.3	MSA	308.9	SSA	13.0
BDE	1.0219	BRA	4.1583	BC3	2.1095	FSP	-2560	SG1	6166.5	SG2	358.1	THA	163.16	EL1	2135.7	EL2	199.4	ALF	165.80

LAUNCH DATE SEP 10 1965 FLIGHT TIME 208.00 ARRIVAL DATE APR 6 1966

HELIOCENTRIC CONIC DISTANCE 566.839

RL	150.63	LAL	.00	LOL	347.08	VL	27.271	GAL	7.23	AZL	91.11	HCA	251.34	SMA	130.31	ECC	.19942	INC	1.1056	VI	29.581
RP	108.43	LAP	1.05	LOP	238.41	VP	37.810	GAP	6.26	AZP	89.65	TAL	148.09	TAP	39.43	RCA	104.32	APO	156.30	V2	34.951
RC	101.502	GL	-6.43	GP	26.73	ZAL	33.61	ZAP	138.29	ETS	30.77	ZAE	120.74	ETE	164.80	ZAC	13.82	ETC	239.96	CLP	-146.70

PLANETOCENTRIC CONIC

C3	21.747	VHL	4.663	DLA	-22.77	RAL	318.49	RAD	6567.9	VEL	11.964	PTH	2.13	VHP	5.222	DPA	2.38	RAP	272.97	ECC	1.3579

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 43 25	1431.35	3.98	356.07	182.25	118.06	13 7 16	831.3	7.70	349.37
90.00	17 53 15	5681.62	27.76	268.11	189.72	95.84	19 27 56	5081.6	28.28	259.48
100.00	13 47 44	1223.74	2.33	339.90	181.33	119.81	14 8 8	623.7	6.28	333.34
100.00	19 31 36	5364.46	29.63	244.96	189.90	94.13	21 1 1	4764.5	29.89	236.17
110.00	14 21 10	1118.94	-1.54	329.54	178.92	124.15	14 39 49	518.9	2.96	323.34
110.00	21 14 40	5042.02	34.18	220.66	190.09	89.87	22 38 42	4442.0	33.79	211.44

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TDE	1.1341	TRA	4.2004	TC3	-2.0470	BAU	.6010	SGT	6075.5	SGR	1660.7	SG3	670.5	ST	2182.7	SR	504.4	SS	1475.7
RDE	-.0958	RRA	-1.2268	RC3	.2880	FAU	.03987	RRT	-.9738	RRF	-.9680	RTF	.9886	CRT	-.8973	CRS	.8184	CST	-.9879
FDE	1.9963	FRA	5.4129	FC3	-1.5872	BSP	19824	SGB	6298.4	R23	.0080	R13	-.9888	LSA	2665.0	MSA	306.5	SSA	13.2
BDE	1.1382	BRA	4.3759	BC3	2.0672	FSP	-2403	SG1	6287.8	SG2	364.7	THA	165.04	EL1	2229.6	EL2	217.9	ALF	168.17

LAUNCH DATE SEP 10 1965 FLIGHT TIME 210.00 ARRIVAL DATE APR 8 1966

HELIOCENTRIC CONIC DISTANCE 572.820

RL	150.63	LAL	.00	LOL	347.08	VL	27.256	GAL	7.51	AZL	90.90	HCA	254.52	SMA	130.21	ECC	.20308	INC	.8988	VI	29.581
RP	108.46	LAP	.87	LOP	241.60	VP	37.788	GAP	6.73	AZP	89.76	TAL	147.47	TAP	41.99	RCA	103.76	APO	156.65	V2	34.939
RC	103.862	GL	-5.09	GP	25.18	ZAL	32.88	ZAP	140.94	ETS	31.84	ZAE	119.90	ETE	166.21	ZAC	12.81	ETC	233.84	CLP	-149.10

PLANETOCENTRIC CONIC

C3	22.812	VHL	4.776	DLA	-21.34	RAL	318.61	RAD	6567.9	VEL	12.008	PTH	2.14	VHP	5.418	DPA	.80	RAP	273.62	ECC	1.3754

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 25 7	1510.34	1.43	.48	182.40	118.28	12 50 17	910.3	5.20	353.83
90.00	18 12 28	5625.79	28.08	264.06	190.25	93.84	19 46 14	5025.8	28.31	255.40
100.00	13 31 52	1294.92	-.09	343.80	181.56	119.89	13 53 27	694.9	3.89	337.28
100.00	19 48 24	5316.45	29.81	241.41	190.36	92.27	21 17 1	4716.5	29.81	232.60
110.00	14 9 24	1177.23	-3.76	332.59	179.27	124.00	14 29 2	577.2	.73	326.38
110.00	21 27 21	5006.91	34.14	217.92	190.38	88.25	22 50 48	4406.9	33.52	208.73

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TDE	1.2543	TRA	4.4496	TC3	-2.0010	BAU	.6147	SGT	6225.5	SGR	1519.7	SG3	627.9	ST	2285.4	SR	457.0	SS	1454.6
RDE	-.0665	RRA	-1.1645	RC3	.2430	FAU	.03590	RRT	-.9680	RRF	-.9610	RTF	.9884	CRT	-.8559	CRS	.7742	CST	-.9899
FDE	1.9642	FRA	5.2412	FC3	-1.3624	BSP	20264	SGB	6408.3	R23	.0036	R13	-.9885	LSA	2730.4	MSA	304.2	SSA	13.2
BDE	1.2561	BRA	4.5994	BC3	2.0157	FSP	-2260	SG1	6397.5	SG2	371.2	THA	166.66	EL1	2319.0	EL2	232.9	ALF	170.19

LAUNCH DATE SEP 10 1965 FLIGHT TIME 212.00 ARRIVAL DATE APR 10 1966

HELIOCENTRIC CONIC DISTANCE 578.761

RL	150.63	LAL	.00	LOL	347.08	VL	27.240	GAL	7.80	AZL	90.70	HCA	257.70	SMA	130.10	ECC	.20707	INC	.6984	VI	29.581
RP	108.50	LAP	.68	LOP	244.78	VP	37.765	GAP	7.21	AZP	89.85	TAL	146.83	TAP	44.54	RCA	103.16	APO	157.03	V2	34.926
RC	106.225	GL	-3.85	GP	23.77	ZAL	32.20	ZAP	143.43	ETS	32.90	ZAE	119.10	ETE	167.40	ZAC	12.18	ETC	226.64	CLP	-151.35

PLANETOCENTRIC CONIC

C3	24.036	VHL	4.903	DLA	-19.99	RAL	318.76	RAD	6568.0	VEL	12.059	PTH	2.16	VHP	5.633	DPA	-.64	RAP	274.43	ECC	1.3956

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 9 44	1581.62	-.87	4.46	182.82	118.30	12 36 6	981.6	2.92	357.83
90.00	18 29 3	5580.04	28.24	260.72	190.88	92.17	20 2 3	4980.0	28.24	252.06
100.00	13 18 18	1360.37	-2.30	347.40	182.02	119.81	13 40 58	760.4	1.68	340.87
100.00	20 3 11	5276.53	29.88	238.44	190.93	90.71	21 31 7	4676.5	29.66	229.64
110.00	13 59 8	1232.40	-5.85	335.49	179.82	123.74	14 19 40	632.4	-1.38	329.26
110.00	21 38 50	4977.27	34.06	215.61	190.82	86.88	23 1 47	4377.3	33.25	206.46

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TDE	1.3790	TRA	4.7043	TC3	-1.9388	BAU	.6265	SGT	6358.9	SGR	1395.7	SG3	586.9	ST	2383.4	SR	416.7	SS	1432.5
RDE	-.0387	RRA	-1.1102	RC3	.2041	FAU	.03204	RRT	-.9611	RRF	-.9531	RTF	.9881	CRT	-.8056	CRS	.7222	CST	-.9915
FDE	1.9290	FRA	5.0723	FC3	-1.1539	BSP	20669	SGB	6510.2	R23	.0001	R13	-.9882	LSA	2795.5	MSA	301.8	SSA	13.3
BDE	1.3795	BRA	4.8335	BC3	1.9495	FSP	-2119	SG1	6499.3	SG2	377.3	THA	168.05	EL1	2407.2	EL2	244.4	ALF	171.90

LAUNCH DATE SEP 10 1965 FLIGHT TIME 214.00 ARRIVAL DATE APR 12 1966

DISTANCE 584.659

HELIOCENTRIC CONIC

RL 150.63 LAL .00 LOL 347.08 VL 27.224 GAL 8.12 AZL 90.50 HCA 260.88 SMA 129.98 ECC .21141 INC .5030 V1 29.581
RP 108.54 LAP .50 LOP 247.96 VP 37.742 GAP 7.70 AZP 89.92 TAL 146.18 TAP 47.06 RCA 102.50 APO 157.46 V2 34.914
RC 108.588 GL -2.69 GP 22.49 ZAL 31.55 ZAP 145.76 ETS 33.99 ZAE 118.35 ETE 168.41 ZAC 11.93 ETC 218.79 CLP-153.47

PLANETOCENTRIC CONIC

C3 25.433 VHL 5.043 DLA -18.72 RAL 318.94 RAD 6568.0 VEL 12.117 PTH 2.17 VHP 5.864 DPA -1.94 RAP 275.38 ECC 1.4186

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 56 32	1647.34	-2.98	8.13	183.46	118.17	12 24 0	1047.3	.81	1.50
90.00	18 43 42	5542.11	28.31	257.95	191.62	90.78	20 16 4	4942.1	28.12	249.29
100.00	13 6 31	1421.52	-4.37	350.76	182.69	119.60	13 30 13	821.5	-.39	344.23
100.00	20 16 24	5243.17	29.89	235.96	191.62	89.40	21 43 48	4643.2	29.48	227.18
110.00	13 50 5	1285.05	-7.84	338.28	180.56	123.38	14 11 30	685.0	-3.39	332.01
110.00	21 49 21	4952.40	33.95	213.68	191.42	85.74	23 11 53	4352.4	32.99	204.57

DIFFERENTIAL CORRECTIONS

TDE 1.5075 TRA 4.9650 TC3-1.8643 BAU .6366
RDE -.0119 RRA-1.0625 RC3 .1712 FAU .02836
FDE 1.8909 FRA 4.9080 FC3 -.9655 BSP 21064
BDE 1.5075 BRA 5.0774 BC3 1.8721 FSP -1985

MID-COURSE EXECUTION ACCURACY

SGT 6476.2 SGR 1286.3 SG3 548.0
RRT -.9530 RRF -.9440 RTF .9878
SGB 6602.7 R23 -.0025 R13 -.9879
SG1 6591.6 SG2 382.7 THA 169.24

ORBIT DETERMINATION ACCURACY

ST 2475.7 SR 382.6 SS 1409.2
CRT -.7460 CRS .6621 CST -.9929
LSA 2858.6 MSA 299.2 SSA 13.2
EL1 2492.2 EL2 253.1 ALF 173.35

LAUNCH DATE SEP 10 1965 FLIGHT TIME 216.00 ARRIVAL DATE APR 14 1966

DISTANCE 590.511

HELIOCENTRIC CONIC

RL 150.63 LAL .00 LOL 347.08 VL 27.207 GAL 8.47 AZL 90.31 HCA 264.06 SMA 129.86 ECC .21613 INC .3111 V1 29.581
RP 108.58 LAP .31 LOP 251.14 VP 37.719 GAP 8.21 AZP 89.97 TAL 145.50 TAP 49.56 RCA 101.80 APO 157.93 V2 34.903
RC 110.951 GL -1.61 GP 21.32 ZAL 30.93 ZAP 147.94 ETS 35.13 ZAE 117.65 ETE 169.28 ZAC 12.07 ETC 210.89 CLP-155.47

PLANETOCENTRIC CONIC

C3 27.020 VHL 5.198 DLA -17.53 RAL 319.15 RAD 6568.1 VEL 12.182 PTH 2.19 VHP 6.113 DPA -3.13 RAP 276.46 ECC 1.4447

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 45 4	1708.84	-4.95	11.57	184.28	117.92	12 13 33	1108.8	-1.18	4.93
90.00	18 56 51	5510.58	28.31	255.64	192.48	89.62	20 28 42	4910.6	27.96	246.99
100.00	12 56 12	1479.28	-6.30	353.96	183.55	119.28	13 20 52	879.3	-2.35	347.40
100.00	20 28 23	5215.38	29.85	233.90	192.45	88.32	21 55 19	4615.4	29.30	225.13
110.00	13 42 3	1335.63	-9.72	340.98	181.46	122.93	14 4 19	735.6	-5.31	334.66
110.00	21 59 2	4931.79	33.83	212.08	192.17	84.80	23 21 14	4331.8	32.74	203.01

DIFFERENTIAL CORRECTIONS

TDE 1.6414 TRA 5.2350 TC3-1.7774 BAU .6441
RDE .0135 RRA-1.0211 RC3 .1428 FAU .02483
FDE 1.8526 FRA 4.7523 FC3 -.7955 BSP 21404
BDE 1.6415 BRA 5.3337 BC3 1.7631 FSP -1855

MID-COURSE EXECUTION ACCURACY

SGT 6580.7 SGR 1189.7 SG3 511.4
RRT -.9439 RRF -.9339 RTF .9876
SGB 6687.4 R23 -.0044 R13 -.9876
SG1 6676.1 SG2 387.3 THA 170.28

ORBIT DETERMINATION ACCURACY

ST 2563.6 SR 354.4 SS 1385.9
CRT -.6781 CRS .5949 CST -.9941
LSA 2920.7 MSA 296.3 SSA 13.2
EL1 2575.0 EL2 259.3 ALF 174.59

LAUNCH DATE SEP 10 1965 FLIGHT TIME 218.00 ARRIVAL DATE APR 16 1966

DISTANCE 596.312

HELIOCENTRIC CONIC

RL 150.63 LAL .00 LOL 347.08 VL 27.189 GAL 8.85 AZL 90.12 HCA 267.24 SMA 129.74 ECC .22126 INC .1207 V1 29.581
RP 108.61 LAP .12 LOP 254.32 VP 37.696 GAP 8.73 AZP 89.99 TAL 144.81 TAP 52.05 RCA 101.03 APO 158.45 V2 34.892
RC 113.313 GL -.61 GP 20.26 ZAL 30.35 ZAP 149.99 ETS 36.35 ZAE 116.99 ETE 170.02 ZAC 12.56 ETC 203.51 CLP-157.37

PLANETOCENTRIC CONIC

C3 28.816 VHL 5.368 DLA -16.40 RAL 319.38 RAD 6568.2 VEL 12.255 PTH 2.20 VHP 6.378 DPA -4.19 RAP 277.65 ECC 1.4742

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 34 58	1767.01	-6.80	14.85	185.28	117.55	12 4 25	1167.0	-3.05	8.17
90.00	19 8 47	5484.50	28.29	253.73	193.45	88.67	20 40 11	4884.5	27.80	245.10
100.00	12 47 6	1534.31	-8.12	357.03	184.56	118.87	13 12 40	934.3	-4.21	350.43
100.00	20 39 21	5192.43	29.79	232.19	193.39	87.42	22 5 53	4592.4	29.12	223.45
110.00	13 34 55	1384.48	-11.51	343.63	182.52	122.41	13 58 0	784.5	-7.16	337.24
110.00	22 8 1	4915.03	33.72	210.78	193.05	84.04	23 29 56	4315.0	32.53	201.75

DIFFERENTIAL CORRECTIONS

TDE 1.7839 TRA 5.5181 TC3-1.6773 BAU .6477
RDE .0372 RRA -.9855 RC3 .1178 FAU .02131
FDE 1.8179 FRA 4.6087 FC3 -.6403 BSP 21648
BDE 1.7843 BRA 5.6054 BC3 1.6814 FSP -1724

MID-COURSE EXECUTION ACCURACY

SGT 6675.5 SGR 1104.5 SG3 477.4
RRT -.9337 RRF -.9229 RTF .9872
SGB 6766.3 R23 -.0056 R13 -.9872
SG1 6755.0 SG2 390.8 THA 171.19

ORBIT DETERMINATION ACCURACY

ST 2649.7 SR 331.4 SS 1364.6
CRT -.6043 CRS .5231 CST -.9951
LSA 2984.4 MSA 293.0 SSA 13.2
EL1 2657.3 EL2 263.2 ALF 175.64

LAUNCH DATE SEP 10 1965 FLIGHT TIME 220.00 ARRIVAL DATE APR 18 1966

DISTANCE 602.057

HELIOCENTRIC CONIC

RL 150.63 LAL .00 LOL 347.08 VL 27.171 GAL 9.25 AZL 89.93 HCA 270.41 SMA 129.62 ECC .22683 INC .0656 V1 29.581
RP 108.64 LAP -.07 LOP 257.49 VP 37.673 GAP 9.27 AZP 90.00 TAL 144.11 TAP 54.52 RCA 100.22 APO 159.02 V2 34.881
RC 115.673 GL .32 GP 19.29 ZAL 29.80 ZAP 151.91 ETS 37.68 ZAE 116.37 ETE 170.66 ZAC 13.36 ETC 197.01 CLP-159.18

PLANETOCENTRIC CONIC

C3 30.846 VHL 5.554 DLA -15.35 RAL 319.63 RAD 6568.2 VEL 12.338 PTH 2.22 VHP 6.662 DPA -5.16 RAP 278.95 ECC 1.5077

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 26 3	1822.47	-8.53	18.01	186.42	117.10	11 56 25	1222.5	-4.83	11.28
90.00	19 19 42	5463.16	28.24	252.17	194.54	87.89	20 50 45	4863.2	27.65	243.56
100.00	12 39 0	1587.09	-9.84	.00	185.73	118.37	13 5 27	987.1	-5.98	353.35
100.00	20 49 26	5173.77	29.73	230.81	194.46	86.70	22 15 40	4573.8	28.95	222.09
110.00	13 28 33	1431.86	-13.23	346.23	183.72	121.81	13 52 25	831.9	-8.93	339.77
110.00	22 16 22	4901.77	33.62	209.76	194.07	83.45	23 38 4	4301.8	32.35	200.76

DIFFERENTIAL CORRECTIONS

TDE 1.9276 TRA 5.8085 TC3-1.5760 BAU .6512
RDE .0608 RRA -.9536 RC3 .0977 FAU .01823
FDE 1.7790 FRA 4.4705 FC3 -.5116 BSP 21963
BDE 1.9286 BRA 5.8863 BC3 1.5790 FSP -1611

MID-COURSE EXECUTION ACCURACY

SGT 6755.1 SGR 1027.8 SG3 445.3
RRT -.9224 RRF -.9109 RTF .9870
SGB 6832.9 R23 -.0067 R13 -.9870
SG1 6821.5 SG2 393.1 THA 171.98

ORBIT DETERMINATION ACCURACY

ST 2726.2 SR 312.4 SS 1341.0
CRT -.5236 CRS .4452 CST -.9959
LSA 3040.4 MSA 289.5 SSA 13.1
EL1 2731.2 EL2 265.7 ALF 176.53

LAUNCH DATE SEP 11 1965 FLIGHT TIME 70.00 ARRIVAL DATE NOV 20 1965

HELIOCENTRIC CONIC DISTANCE 123,726

RL	150.59	LAL	.00	LOL	348.05	VL	14.021	GAL	34.21	AZL	95.90	HCA	29.56	SMA	84.75	ECC	.85379	INC	5.9000	V1	29.589
RP	108.50	LAP	-2.91	LOP	17.49	VP	29.669	GAP	-57.15	AZP	95.14	TAL	173.02	TAP	202.59	RCA	12.39	APO	157.10	V2	34.926
RC	95.243	GL	-3.43	GP	-3.55	ZAL	65.26	ZAP	37.63	ETS	172.23	ZAE	130.29	ETE	177.61	ZAC	35.05	ETC	27.98	CLP	37.49

PLANETOCENTRIC CONIC

C3 396.820 VHL 19.920 DLA -26.24 RAL 284.32 RAD 6572.1 VEL 22.762 PTH 3.27 VHP 31.198 DPA -21.20 RAP 231.81 ECC 7.5307

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 23 1	1809.23	-8.12	17.25	185.84	117.22	11 53 10	1209.2	-4.41	10.54
90.00	14 33 11	1184.86	11.65	342.02	195.67	115.99	14 52 56	584.9	15.05	334.99
100.00	12 15 53	1638.52	-11.49	2.93	184.06	117.79	12 43 11	1038.5	-7.68	356.21
100.00	16 23 1	830.81	15.06	317.68	197.39	116.13	16 36 51	230.8	18.45	310.53
110.00	12 34 16	1580.80	-18.40	354.68	180.17	119.33	13 0 37	980.8	-14.35	347.90
110.00	18 21 7	5749.33	22.10	271.22	201.08	116.77	19 56 56	5149.3	25.51	263.72

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY				ORBIT DETERMINATION ACCURACY			
TDE -.2983	TRA-2.1435	TC3 -.1070	BAU .5685			SGT 813.4	SGR 463.9	SG3 22.2		ST 223.7	SR 456.3	SS 202.4	
RDE-1.5840	RRA .2647	RC3 .0050	FAU .01063			RRT -.0736	RRF .0691	RTF -.6057		CRT .3314	CRS .2440	CST .9914	
FDE .0777	FRA .7448	FC3 -.0232	BSP 1911			SGB 936.4	R23 -.0034	R13 .6062		LSA 469.9	MSA 279.7	SSA 14.2	
BDE 1.6118	BRA 2.1597	BC3 .1072	FSP -44			SG1 814.5	SG2 462.0	THA 176.46		EL1 463.8	EL2 207.6	ALF 78.42	

LAUNCH DATE SEP 11 1965 FLIGHT TIME 72.00 ARRIVAL DATE NOV 22 1965

HELIOCENTRIC CONIC DISTANCE 128,870

RL	150.59	LAL	.00	LOL	348.05	VL	14.855	GAL	32.50	AZL	95.19	HCA	32.73	SMA	86.07	ECC	.82971	INC	5.1931	V1	29.589
RP	108.47	LAP	-2.80	LOP	20.68	VP	30.086	GAP	-54.68	AZP	94.37	TAL	172.14	TAP	204.87	RCA	14.66	APO	157.48	V2	34.938
RC	92.990	GL	-3.40	GP	-3.62	ZAL	63.80	ZAP	36.12	ETS	171.82	ZAE	130.01	ETE	177.80	ZAC	33.68	ETC	29.43	CLP	35.96

PLANETOCENTRIC CONIC

C3 365.149 VHL 19.109 DLA -26.06 RAL 285.93 RAD 6572.0 VEL 22.056 PTH 3.24 VHP 30.114 DPA -21.76 RAP 233.49 ECC 7.0094

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 25 26	1814.29	-8.28	17.54	186.76	117.18	11 55 40	1214.3	-4.57	10.82
90.00	14 43 35	1163.02	12.29	340.74	196.91	115.71	15 2 58	563.0	15.65	333.68
100.00	12 19 19	1640.26	-11.55	3.03	185.03	117.76	12 46 40	1040.3	-7.74	356.31
100.00	16 32 23	812.28	15.61	316.59	198.56	115.82	16 45 55	212.3	18.96	309.39
110.00	12 38 47	1579.18	-18.34	354.58	181.20	119.36	13 5 6	979.2	-14.29	347.81
110.00	18 29 24	5734.17	22.56	270.28	202.16	116.39	20 4 58	5134.2	25.92	262.73

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY				ORBIT DETERMINATION ACCURACY			
TDE -.3248	TRA-2.1639	TC3 -.1147	BAU .5603			SGT 850.4	SGR 470.6	SG3 23.9		ST 237.9	SR 461.5	SS 214.0	
RDE-1.5362	RRA .2828	RC3 .0051	FAU .01061			RRT -.0795	RRF .0752	RTF -.6245		CRT .3526	CRS .2770	CST .9927	
FDE .0920	FRA .7732	FC3 -.0251	BSP 2036			SGB 971.9	R23 -.0039	R13 .6250		LSA 480.0	MSA 291.2	SSA 14.4	
BDE 1.5701	BRA 2.1823	BC3 .1148	FSP -49			SG1 851.6	SG2 468.4	THA 176.38		EL1 471.2	EL2 218.0	ALF 76.83	

LAUNCH DATE SEP 11 1965 FLIGHT TIME 74.00 ARRIVAL DATE NOV 24 1965

HELIOCENTRIC CONIC DISTANCE 134,152

RL	150.59	LAL	.00	LOL	348.05	VL	15.641	GAL	30.94	AZL	94.60	HCA	35.90	SMA	87.43	ECC	.80514	INC	4.5979	V1	29.589
RP	108.43	LAP	-2.69	LOP	23.87	VP	30.497	GAP	-52.34	AZP	93.73	TAL	171.25	TAP	207.16	RCA	17.04	APO	157.82	V2	34.951
RC	90.741	GL	-3.36	GP	-3.71	ZAL	62.40	ZAP	34.64	ETS	171.39	ZAE	129.78	ETE	178.02	ZAC	32.32	ETC	31.04	CLP	34.46

PLANETOCENTRIC CONIC

C3 336.187 VHL 18.335 DLA -25.86 RAL 287.48 RAD 6571.9 VEL 21.389 PTH 3.21 VHP 29.067 DPA -22.32 RAP 235.21 ECC 6.5328

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 27 20	1819.91	-8.45	17.86	187.58	117.13	11 57 40	1219.9	-4.75	11.14
90.00	14 54 3	1139.68	12.98	339.37	198.06	115.39	15 13 3	539.7	16.29	332.26
100.00	12 22 16	1642.52	-11.62	3.16	185.91	117.74	12 49 39	1042.5	-7.82	356.44
100.00	16 41 48	792.31	16.20	315.39	199.65	115.47	16 55 0	192.3	19.50	308.15
110.00	12 42 53	1577.84	-18.30	354.50	182.15	119.39	13 9 11	977.8	-14.25	347.73
110.00	18 37 40	5717.79	23.05	269.27	203.15	115.97	20 12 58	5117.8	26.35	261.66

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY				ORBIT DETERMINATION ACCURACY			
TDE -.3504	TRA-2.1856	TC3 -.1226	BAU .5514			SGT 888.8	SGR 476.8	SG3 25.7		ST 253.0	SR 466.0	SS 226.1	
RDE-1.4878	RRA .2995	RC3 .0051	FAU .01059			RRT -.0860	RRF .0816	RTF -.6427		CRT .3715	CRS .3076	CST .9939	
FDE .1068	FRA .8021	FC3 -.0273	BSP 2166			SGB 1008.6	R23 -.0044	R13 .6432		LSA 490.5	MSA 302.4	SSA 14.7	
BDE 1.5285	BRA 2.2060	BC3 .1227	FSP -53			SG1 890.2	SG2 474.3	THA 176.31		EL1 478.3	EL2 228.8	ALF 75.11	

LAUNCH DATE SEP 11 1965 FLIGHT TIME 76.00 ARRIVAL DATE NOV 26 1965

HELIOCENTRIC CONIC DISTANCE 139,566

RL	150.59	LAL	.00	LOL	348.05	VL	16.384	GAL	29.50	AZL	94.09	HCA	39.08	SMA	88.82	ECC	.78029	INC	4.0870	V1	29.589
RP	108.39	LAP	-2.58	LOP	27.06	VP	30.899	GAP	-50.12	AZP	93.17	TAL	170.37	TAP	209.45	RCA	19.52	APO	158.13	V2	34.964
RC	88.499	GL	-3.31	GP	-3.80	ZAL	61.03	ZAP	33.18	ETS	170.91	ZAE	129.61	ETE	178.25	ZAC	30.97	ETC	32.85	CLP	32.98

PLANETOCENTRIC CONIC

C3 309.662 VHL 17.597 DLA -25.64 RAL 288.97 RAD 6571.8 VEL 20.760 PTH 3.18 VHP 28.054 DPA -22.89 RAP 236.96 ECC 6.0963

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 28 46	1825.93	-8.64	18.20	188.30	117.07	11 59 12	1225.9	-4.94	11.48
90.00	15 4 32	1114.98	13.70	337.91	199.13	115.03	15 23 7	515.0	16.96	330.75
100.00	12 24 45	1645.15	-11.70	3.31	186.69	117.70	12 52 10	1045.1	-7.90	356.58
100.00	16 51 14	770.99	16.82	314.11	200.64	115.08	17 4 5	171.0	20.06	306.82
110.00	12 46 34	1576.70	-18.26	354.44	183.00	119.41	13 12 51	976.7	-14.20	347.67
110.00	18 45 54	5700.24	23.57	268.17	204.04	115.50	20 20 55	5100.2	26.80	260.50

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY				ORBIT DETERMINATION ACCURACY			
TDE -.3752	TRA-2.2081	TC3 -.1308	BAU .5418			SGT 928.8	SGR 482.4	SG3 27.7		ST 269.0	SR 469.7	SS 238.8	
RDE-1.4389	RRA .3149	RC3 .0051	FAU .01058			RRT -.0929	RRF .0886	RTF -.6603		CRT .3883	CRS .3358	CST .9949	
FDE .1220	FRA .8316	FC3 -.0296	BSP 2303			SGB 1046.6	R23 -.0050	R13 .6608		LSA 501.8	MSA 313.1	SSA 14.9	
BDE 1.4870	BRA 2.2305	BC3 .1309	FSP -58			SG1 930.3	SG2 479.6	THA 176.23		EL1 485.2	EL2 240.0	ALF 73.25	

LAUNCH DATE SEP 11 1965 FLIGHT TIME 78.00 ARRIVAL DATE NOV 28 1965

HELIOCENTRIC CONIC DISTANCE 145.103

RL	150.59	LAL	.00	LOL	348.05	VL	17.084	GAL	28.17	AZL	93.64	HCA	42.26	SMA	90.24	ECC	.75531	INC	3.6412	VI	29.589
RP	108.35	LAP	-2.45	LOP	30.26	VP	31.290	GAP	-48.01	AZP	92.70	TAL	169.49	TAP	211.75	RCA	22.08	APO	158.39	V2	34.977
RC	86.263	GL	-3.25	GP	-3.90	ZAL	59.71	ZAP	31.74	ETS	170.38	ZAE	129.50	ETE	178.52	ZAC	29.65	ETC	34.86	CLP	31.53

PLANETOCENTRIC CONIC

C3 285.334 VHL 16.892 DLA -25.40 RAL 290.41 RAD 6571.7 VEL 20.165 PTH 3.15 VHP 27.074 DPA -23.45 RAP 238.75 ECC 5.6959

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 29 47	1832.18	-8.83	18.56	188.94	117.01	12 0 19	1232.2	-5.14	11.83
90.00	15 15 0	1089.03	14.44	336.37	200.10	114.63	15 33 9	489.0	17.64	329.16
100.00	12 26 48	1648.06	-11.79	3.48	187.38	117.67	12 54 16	1048.1	-8.00	356.75
100.00	17 0 39	748.38	17.47	312.75	201.55	114.65	17 13 8	148.4	20.65	305.40
110.00	12 49 52	1575.72	-18.23	354.38	183.76	119.43	13 16 7	975.7	-14.17	347.62
110.00	18 54 5	5681.53	24.12	266.99	204.83	114.99	20 28 47	5081.5	27.28	259.25

DIFFERENTIAL CORRECTIONS

TDE	-.3996	TRA	-2.2318	TC3	-.1393	BAU	.5316												
RDE	-1.3896	RRA	.3290	RC3	.0049	FAU	.01058												
FDE	.1378	FRA	.8618	FC3	-.0321	BSP	2440												
BDE	1.4459	BRA	2.2559	BC3	.1394	FSP	-64												

MID-COURSE EXECUTION ACCURACY

SGT	970.5	SGR	487.5	SG3	29.8						
RRT	-.1003	RRF	.0961	RTF	-.6773						
SGB	1086.1	R23	-.0057	R13	.6779						
SG1	972.2	SG2	484.3	THA	176.16						

ORBIT DETERMINATION ACCURACY

ST	286.0	SR	472.8	SS	252.1						
CRT	.4036	CRS	.3617	CST	.9958						
LSA	513.9	MSA	323.3	SSA	15.1						
EL1	492.0	EL2	251.4	ALF	71.21						

LAUNCH DATE SEP 11 1965 FLIGHT TIME 80.00 ARRIVAL DATE NOV 30 1965

HELIOCENTRIC CONIC DISTANCE 150.758

RL	150.59	LAL	.00	LOL	348.05	VL	17.745	GAL	26.92	AZL	93.25	HCA	45.45	SMA	91.67	ECC	.73034	INC	3.2466	VI	29.589
RP	108.31	LAP	-2.31	LOP	33.46	VP	31.670	GAP	-46.00	AZP	92.28	TAL	168.61	TAP	214.06	RCA	24.72	APO	158.62	V2	34.990
RC	84.036	GL	-3.17	GP	-4.01	ZAL	58.44	ZAP	30.33	ETS	169.80	ZAE	129.46	ETE	178.81	ZAC	28.36	ETC	37.12	CLP	30.09

PLANETOCENTRIC CONIC

C3 262.996 VHL 16.217 DLA -25.13 RAL 291.79 RAD 6571.5 VEL 19.604 PTH 3.12 VHP 26.124 DPA -24.00 RAP 240.58 ECC 5.3282

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 30 24	1838.56	-9.03	18.93	189.49	116.95	12 1 2	1238.6	-5.34	12.19
90.00	15 25 24	1061.92	15.20	334.74	200.97	114.18	15 43 6	461.9	18.34	327.47
100.00	12 28 26	1651.16	-11.89	3.66	187.99	117.63	12 55 58	1051.2	-8.10	356.92
100.00	17 10 3	724.55	18.14	311.30	202.35	114.17	17 22 7	124.6	21.25	303.88
110.00	12 52 46	1574.84	-18.20	354.33	184.44	119.45	13 19 1	974.8	-14.14	347.57
110.00	19 2 12	5661.68	24.68	265.72	205.52	114.44	20 36 34	5061.7	27.76	257.91

DIFFERENTIAL CORRECTIONS

TDE	-.4228	TRA	-2.2556	TC3	-.1480	BAU	.5208												
RDE	-1.3399	RRA	.3418	RC3	.0047	FAU	.01060												
FDE	.1540	FRA	.8926	FC3	-.0349	BSP	2591												
BDE	1.4051	BRA	2.2814	BC3	.1481	FSP	-70												

MID-COURSE EXECUTION ACCURACY

SGT	1013.8	SGR	492.1	SG3	32.0						
RRT	-.1082	RRF	.1042	RTF	-.6938						
SGB	1126.9	R23	-.0065	R13	.6944						
SG1	1015.6	SG2	488.3	THA	176.09						

ORBIT DETERMINATION ACCURACY

ST	303.7	SR	475.1	SS	266.1						
CRT	.4168	CRS	.3854	CST	.9965						
LSA	527.0	MSA	332.8	SSA	15.3						
EL1	498.8	EL2	263.0	ALF	68.99						

LAUNCH DATE SEP 11 1965 FLIGHT TIME 82.00 ARRIVAL DATE DEC 2 1965

HELIOCENTRIC CONIC DISTANCE 156.522

RL	150.59	LAL	.00	LOL	348.05	VL	18.368	GAL	25.75	AZL	92.89	HCA	48.64	SMA	93.12	ECC	.70552	INC	2.8927	VI	29.589
RP	108.27	LAP	-2.17	LOP	36.65	VP	32.038	GAP	-44.09	AZP	91.91	TAL	167.74	TAP	216.38	RCA	27.42	APO	158.82	V2	35.003
RC	81.818	GL	-3.07	GP	-4.13	ZAL	57.20	ZAP	28.95	ETS	169.16	ZAE	129.47	ETE	179.13	ZAC	27.11	ETC	39.64	CLP	28.68

PLANETOCENTRIC CONIC

C3 242.463 VHL 15.571 DLA -24.85 RAL 293.12 RAD 6571.4 VEL 19.073 PTH 3.08 VHP 25.203 DPA -24.56 RAP 242.44 ECC 4.9903

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 30 39	1844.96	-9.23	19.29	189.95	116.89	12 1 24	1245.0	-5.55	12.55
90.00	15 35 44	1033.71	15.98	333.04	201.74	113.69	15 52 58	433.7	19.05	325.71
100.00	12 29 41	1654.37	-11.99	3.84	188.50	117.59	12 57 16	1054.4	-8.21	357.10
100.00	17 19 23	699.53	18.83	309.76	203.05	113.65	17 31 3	99.5	21.87	302.28
110.00	12 55 19	1574.00	-18.17	354.28	185.02	119.46	13 21 33	974.0	-14.11	347.52
110.00	19 10 15	5640.70	25.26	264.37	206.10	113.83	20 44 16	5040.7	28.26	256.48

DIFFERENTIAL CORRECTIONS

TDE	-.4448	TRA	-2.2797	TC3	-.1570	BAU	.5091												
RDE	-1.2901	RRA	.3534	RC3	.0043	FAU	.01063												
FDE	.1708	FRA	.9243	FC3	-.0380	BSP	2755												
BDE	1.3646	BRA	2.3069	BC3	.1571	FSP	-76												

MID-COURSE EXECUTION ACCURACY

SGT	1058.5	SGR	496.0	SG3	34.4						
RRT	-.1169	RRF	.1129	RTF	-.7097						
SGB	1169.0	R23	-.0072	R13	.7103						
SG1	1060.5	SG2	491.7	THA	176.00						

ORBIT DETERMINATION ACCURACY

ST	322.4	SR	476.6	SS	280.6						
CRT	.4280	CRS	.4069	CST	.9971						
LSA	541.3	MSA	341.4	SSA	15.5						
EL1	505.7	EL2	274.6	ALF	66.57						

LAUNCH DATE SEP 11 1965 FLIGHT TIME 84.00 ARRIVAL DATE DEC 4 1965

HELIOCENTRIC CONIC DISTANCE 162.390

RL	150.59	LAL	.00	LOL	348.05	VL	18.956	GAL	24.65	AZL	92.57	HCA	51.83	SMA	94.57	ECC	.68095	INC	2.5716	VI	29.589
RP	108.22	LAP	-2.02	LOP	39.86	VP	32.393	GAP	-42.26	AZP	91.59	TAL	166.88	TAP	218.71	RCA	30.17	APO	158.97	V2	35.016
RC	79.613	GL	-2.96	GP	-4.26	ZAL	56.01	ZAP	27.58	ETS	168.45	ZAE	129.55	ETE	179.49	ZAC	25.91	ETC	42.46	CLP	27.28

PLANETOCENTRIC CONIC

C3 223.577 VHL 14.953 DLA -24.56 RAL 294.39 RAD 6571.3 VEL 18.571 PTH 3.05 VHP 24.310 DPA -25.11 RAP 244.33 ECC 4.6795

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 30 34	1851.32	-9.42	19.66	190.32	116.83	12 1 26	1251.3	-5.75	12.91
90.00	15 45 58	1004.45	16.77	331.25	202.40	113.16	16 2 43	404.4	19.76	323.86
100.00	12 30 34	1657.64	-12.10	4.03	188.92	117.54	12 58 12	1057.6	-8.31	357.28
100.00	17 28 40	673.36	19.54	308.14	203.64	113.09	17 39 53	73.4	22.49	300.59
110.00	12 57 29	1573.20	-18.14	354.23	185.52	119.48	13 23 42	973.2	-14.08	347.48
110.00	19 18 14	5618.61	25.86	262.94	206.57	113.17	20 51 52	5018.6	28.77	254.96

DIFFERENTIAL CORRECTIONS

TDE	-.4697	TRA	-2.3078	TC3	-.1669	BAU	.4989												
RDE	-1.2400	RRA	.3639	RC3	.0038	FAU	.01066												
FDE	.1885	FRA	.9573	FC3	-.0413	BSP	2838												
BDE	1.3260	BRA	2.3363	BC3	.1669	FSP	-82												

MID-COURSE EXECUTION ACCURACY

SGT	1107.5	SGR	499.4	SG3	37.0						
RRT	-.1252	RRF	.1221	RTF	-.7248						
SGB	1214.9	R23	-.0088	R13	.7255						
SG1	1109.7	SG2	494.5	THA	175.97						

ORBIT DETERMINATION ACCURACY

ST	343.1	SR	477.4	SS	296.1						
CRT	.4403	CRS	.4273	CST	.9974						
LSA	557.9	MSA	348.9	SSA	15.7						
EL1	513.4	EL2	286.4	ALF	63.69						

LAUNCH DATE SEP 11 1965 FLIGHT TIME 86.00 ARRIVAL DATE DEC 6 1965

HELIOCENTRIC CONIC DISTANCE 168.356

RL 150.59 LAL .00 LOL 348.05 VL 19.510 GAL 23.60 AZL 92.28 HCA 55.03 SMA 96.03 ECC .65672 INC 2.2774 V1 29.589
RP 108.18 LAP -1.87 LOP 43.06 VP 32.735 GAP -40.51 AZP 91.31 TAL 166.04 TAP 221.06 RCA 32.97 APO 159.10 V2 35.030
RC 77.423 GL -2.84 GP -4.40 ZAL 54.86 ZAP 26.24 ETS 167.65 ZAE 129.69 ETE 179.89 ZAC 24.79 ETC 45.60 CLP 25.89

PLANETOCENTRIC CONIC

C3 206.194 VHL 14.359 DLA -24.24 RAL 295.61 RAD 6571.2 VEL 18.097 PTH 3.01 VHP 23.443 DPA -25.65 RAP 246.25 ECC 4.3934

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 30 9	1857.60	-9.61	20.02	190.60	116.76	12 1 7	1257.6	-5.95	13.26
90.00	15 56 6	974.15	17.57	329.39	202.95	112.57	16 12 20	374.2	20.48	321.92
100.00	12 31 5	1660.93	-12.20	4.22	189.25	117.50	12 58 46	1060.9	-8.42	357.47
100.00	17 37 52	646.06	20.26	306.43	204.12	112.47	17 48 38	46.1	23.12	298.81
110.00	12 59 19	1572.39	-18.12	354.19	185.92	119.50	13 25 31	972.4	-14.05	347.43
110.00	19 26 7	5595.40	26.48	261.41	206.92	112.45	20 59 23	4995.4	29.28	253.35

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.4940 TRA-2.3362 TC3 -.1771 BAU .4884 SGT 1158.7 SGR 502.2 SG3 39.7 ST 364.9 SR 477.3 SS 312.2
RDE-1.1899 RRA .3734 RC3 .0032 FAU .01070 RRT -.1342 RRF .1321 RTF -.7394 CRT .4510 CRS .4459 CST .9977
FDE .2068 FRA .9913 FC3 -.0449 BSP 2919 SGB 1262.9 R23 -.0106 R13 .7400 LSA 576.2 MSA 355.2 SSA 15.9
BDE 1.2884 BRA 2.3659 BC3 .1772 FSP -88 SG1 1161.1 SG2 496.6 THA 175.92 EL1 521.7 EL2 297.9 ALF 60.54

LAUNCH DATE SEP 11 1965 FLIGHT TIME 88.00 ARRIVAL DATE DEC 8 1965

HELIOCENTRIC CONIC DISTANCE 174.414

RL 150.59 LAL .00 LOL 348.05 VL 20.033 GAL 22.61 AZL 92.01 HCA 58.23 SMA 97.49 ECC .63290 INC 2.0050 V1 29.589
RP 108.14 LAP -1.70 LOP 46.26 VP 33.063 GAP -38.84 AZP 91.06 TAL 165.21 TAP 223.43 RCA 35.79 APO 159.19 V2 35.043
RC 75.249 GL -2.69 GP -4.55 ZAL 53.75 ZAP 24.92 ETS 166.75 ZAE 129.90 ETE 180.32 ZAC 23.74 ETC 49.09 CLP 24.52

PLANETOCENTRIC CONIC

C3 190.189 VHL 13.791 DLA -23.90 RAL 296.77 RAD 6571.0 VEL 17.650 PTH 2.98 VHP 22.602 DPA -26.19 RAP 248.21 ECC 4.1300

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 29 25	1863.79	-9.80	20.37	190.80	116.70	12 0 29	1263.8	-6.14	13.61
90.00	16 6 7	942.83	18.38	327.45	203.39	111.93	16 21 50	342.8	21.20	319.91
100.00	12 31 14	1664.21	-12.30	4.41	189.49	117.46	12 58 59	1064.2	-8.53	357.65
100.00	17 46 59	617.64	20.98	304.63	204.50	111.79	17 57 16	17.6	23.76	296.93
110.00	13 0 47	1571.57	-18.09	354.14	186.24	119.51	13 26 59	971.6	-14.02	347.38
110.00	19 33 56	5571.08	27.10	259.79	207.16	111.68	21 6 47	4971.1	29.79	251.64

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.5272 TRA-2.3744 TC3 -.1898 BAU .4826 SGT 1219.1 SGR 504.3 SG3 42.8 ST 391.2 SR 476.3 SS 329.9
RDE-1.1396 RRA .3821 RC3 .0024 FAU .01069 RRT -.1417 RRF .1423 RTF -.7528 CRT .4661 CRS .4643 CST .9980
FDE .2270 FRA 1.0277 FC3 -.0487 BSP 2773 SGB 1319.3 R23 -.0144 R13 .7536 LSA 599.1 MSA 359.8 SSA 16.1
BDE 1.2556 BRA 2.4050 BC3 .1698 FSP -93 SG1 1221.6 SG2 498.2 THA 175.97 EL1 533.2 EL2 309.1 ALF 56.52

LAUNCH DATE SEP 11 1965 FLIGHT TIME 90.00 ARRIVAL DATE DEC 10 1965

HELIOCENTRIC CONIC DISTANCE 180.552

RL 150.59 LAL .00 LOL 348.05 VL 20.526 GAL 21.66 AZL 91.75 HCA 61.43 SMA 98.94 ECC .60953 INC 1.7507 V1 29.589
RP 108.10 LAP -1.54 LOP 49.47 VP 33.378 GAP -37.23 AZP 90.84 TAL 164.40 TAP 225.82 RCA 38.63 APO 159.25 V2 35.056
RC 73.094 GL -2.52 GP -4.72 ZAL 52.68 ZAP 23.62 ETS 165.73 ZAE 130.18 ETE 180.81 ZAC 22.80 ETC 52.95 CLP 23.17

PLANETOCENTRIC CONIC

C3 175.413 VHL 13.244 DLA -23.54 RAL 297.88 RAD 6570.9 VEL 17.226 PTH 2.94 VHP 21.785 DPA -26.72 RAP 250.19 ECC 3.8869

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 28 22	1869.78	-9.99	20.72	190.90	116.63	11 59 31	1269.8	-6.33	13.95
90.00	16 15 59	910.51	19.19	325.42	203.70	111.23	16 31 10	310.5	21.91	317.80
100.00	12 31 3	1667.42	-12.40	4.59	189.64	117.42	12 58 51	1067.4	-8.63	357.83
100.00	17 55 59	5876.14	21.72	280.65	204.74	111.06	19 33 55	5276.1	24.39	272.87
110.00	13 1 54	1570.68	-18.06	354.09	186.47	119.53	13 28 5	970.7	-13.99	347.34
110.00	19 41 37	5545.64	27.73	258.08	207.27	110.84	21 14 3	4945.6	30.30	249.83

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.4907 TRA-2.3434 TC3 -.1875 BAU .4396 SGT 1230.6 SGR 506.2 SG3 45.7 ST 394.1 SR 475.1 SS 342.1
RDE-1.0910 RRA .3881 RC3 .0011 FAU .01113 RRT -.1665 RRF .1573 RTF -.7688 CRT .4376 CRS .4690 CST .9975
FDE .2386 FRA 1.0562 FC3 -.0549 BSP 4278 SGB 1330.6 R23 -.0043 R13 .7693 LSA 602.6 MSA 367.0 SSA 15.9
BDE 1.1962 BRA 2.3753 BC3 .1875 FSP -117 SG1 1234.0 SG2 497.8 THA 175.32 EL1 528.9 EL2 318.3 ALF 56.63

LAUNCH DATE SEP 11 1965 FLIGHT TIME 92.00 ARRIVAL DATE DEC 12 1965

HELIOCENTRIC CONIC DISTANCE 186.776

RL 150.59 LAL .00 LOL 348.05 VL 20.990 GAL 20.75 AZL 91.51 HCA 64.63 SMA 100.39 ECC .58673 INC 1.5112 V1 29.589
RP 108.06 LAP -1.37 LOP 52.68 VP 33.679 GAP -35.69 AZP 90.65 TAL 163.60 TAP 228.23 RCA 41.49 APO 159.28 V2 35.069
RC 70.962 GL -2.33 GP -4.90 ZAL 51.66 ZAP 22.34 ETS 164.56 ZAE 130.54 ETE 181.35 ZAC 21.98 ETC 57.18 CLP 21.82

PLANETOCENTRIC CONIC

C3 161.830 VHL 12.721 DLA -23.16 RAL 298.93 RAD 6570.8 VEL 16.827 PTH 2.91 VHP 20.992 DPA -27.25 RAP 252.20 ECC 3.6633

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 26 59	1875.74	-10.17	21.06	190.92	116.57	11 58 15	1275.7	-6.52	14.28
90.00	16 25 46	877.14	20.00	323.31	203.90	110.48	16 40 23	277.1	22.61	315.61
100.00	12 30 31	1670.68	-12.51	4.78	189.71	117.37	12 58 22	1070.7	-8.74	358.02
100.00	18 4 55	5845.47	22.46	278.67	204.88	110.27	19 42 21	5245.5	25.01	270.81
110.00	13 2 40	1569.85	-18.03	354.04	186.61	119.54	13 28 50	969.9	-13.96	347.29
110.00	19 49 15	5519.06	28.36	256.27	207.27	109.94	21 21 14	4919.1	30.81	247.93

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.5265 TRA-2.3856 TC3 -.2013 BAU .4354 SGT 1297.8 SGR 507.2 SG3 49.2 ST 423.5 SR 472.4 SS 361.5
RDE-1.0409 RRA .3951 RC3 -.0002 FAU .01113 RRT -.1744 RRF .1692 RTF -.7808 CRT .4539 CRS .4852 CST .9976
FDE .2607 FRA 1.0957 FC3 -.0595 BSP 4032 SGB 1393.4 R23 -.0097 R13 .7815 LSA 629.9 MSA 369.1 SSA 16.2
BDE 1.1665 BRA 2.4181 BC3 .2013 FSP -121 SG1 1301.3 SG2 498.1 THA 175.43 EL1 542.8 EL2 328.4 ALF 51.77

LAUNCH DATE SEP 11 1965 FLIGHT TIME 94.00 ARRIVAL DATE DEC 14 1965

HELIOCENTRIC CONIC DISTANCE 193.073

RL 150.59 LAL .00 LOL 348.05 VL 21.428 GAL 19.89 AZL 91.28 HCA 67.84 SMA 101.82 ECC .56450 INC 1.2840 VI 29.589
RP 108.02 LAP -1.19 LOP 55.89 VP 33.967 GAP -34.21 AZP 90.48 TAL 162.83 TAP 230.67 RCA 44.34 APO 159.29 V2 35.082
RC 68.856 GL -2.12 GP -5.09 ZAL 50.67 ZAP 21.08 ETS 163.23 ZAE 130.97 ETE 181.94 ZAC 21.31 ETC 61.76 CLP 20.49

PLANETOCENTRIC CONIC

C3 149.307 VHL 12.219 DLA -22.76 RAL 299.93 RAD 6570.6 VEL 16.451 PTH 2.87 VHP 20.221 DPA -27.77 RAP 254.24 ECC 3.4572

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 25 17	1881.62	-10.35	21.40	190.86	116.51	11 56 39	1281.6	-6.71	14.62
90.00	16 35 26	842.72	20.80	321.10	203.97	109.66	16 49 29	242.7	23.29	313.32
100.00	12 29 38	1673.94	-12.61	4.97	189.69	117.33	12 57 32	1073.9	-8.85	358.20
100.00	18 13 46	5813.67	23.19	276.59	204.89	109.41	19 50 40	5213.7	25.62	268.64
110.00	13 3 5	1569.03	-18.00	353.99	186.66	119.56	13 29 15	969.0	-13.93	347.24
110.00	19 56 48	5491.35	28.99	254.36	207.13	108.97	21 28 19	4891.3	31.30	245.92

DIFFERENTIAL CORRECTIONS

TDE -.5498 TRA-2.4159 TC3 -.2128 BAU .4248
RDE -.9914 RRA .4011 RC3 -.0018 FAU .01122
FDE .2819 FRA 1.1352 FC3 -.0651 BSP 4071
BDE 1.1336 BRA 2.4490 BC3 .2128 FSP -130

MID-COURSE EXECUTION ACCURACY

SGT 1358.7 SGR 507.6 SG3 53.0
RRT -.1863 RRF .1830 RTF -.7928
SGB 1450.4 R23 -.0127 R13 .7935
SG1 1362.5 SG2 497.4 THA 175.41

ORBIT DETERMINATION ACCURACY

ST 450.0 SR 468.9 SS 380.7
CRT .4611 CRS .4977 CST .9975
LSA 655.5 MSA 370.6 SSA 16.4
EL1 555.8 EL2 336.9 ALF 47.54

LAUNCH DATE SEP 11 1965 FLIGHT TIME 96.00 ARRIVAL DATE DEC 16 1965

HELIOCENTRIC CONIC DISTANCE 199.438

RL 150.59 LAL .00 LOL 348.05 VL 21.840 GAL 19.06 AZL 91.07 HCA 71.05 SMA 103.23 ECC .54288 INC 1.0668 VI 29.589
RP 107.98 LAP -1.01 LOP 59.10 VP 34.241 GAP -32.79 AZP 90.35 TAL 162.08 TAP 233.13 RCA 47.19 APO 159.27 V2 35.095
RC 66.778 GL -1.88 GP -5.31 ZAL 49.73 ZAP 19.86 ETS 161.68 ZAE 131.48 ETE 182.61 ZAC 20.79 ETC 66.67 CLP 19.16

PLANETOCENTRIC CONIC

C3 137.764 VHL 11.737 DLA -22.33 RAL 300.87 RAD 6570.5 VEL 16.096 PTH 2.83 VHP 19.473 DPA -28.28 RAP 256.31 ECC 3.2672

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 23 15	1887.46	-10.52	21.74	190.72	116.44	11 54 43	1287.5	-6.89	14.95
90.00	16 44 59	807.22	21.60	318.80	203.92	108.77	16 58 26	207.2	23.96	310.93
100.00	12 28 23	1677.24	-12.71	5.16	189.58	117.28	12 56 20	1077.2	-8.95	358.38
100.00	18 22 32	5780.72	23.92	274.42	204.77	108.48	19 58 53	5180.7	26.22	266.37
110.00	13 3 9	1568.25	-17.98	353.95	186.63	119.58	13 29 17	968.3	-13.90	347.20
110.00	20 4 16	5462.47	29.61	252.34	206.86	107.92	21 35 18	4862.5	31.77	243.80

DIFFERENTIAL CORRECTIONS

TDE -.5630 TRA-2.4365 TC3 -.2220 BAU .4089
RDE -.9424 RRA .4062 RC3 -.0037 FAU .01140
FDE .3026 FRA 1.1750 FC3 -.0716 BSP 4331
BDE 1.0978 BRA 2.4701 BC3 .2220 FSP -141

MID-COURSE EXECUTION ACCURACY

SGT 1414.3 SGR 507.6 SG3 57.0
RRT -.2014 RRF .1985 RTF -.8047
SGB 1502.7 R23 -.0140 R13 .8055
SG1 1418.5 SG2 495.7 THA 175.29

ORBIT DETERMINATION ACCURACY

ST 473.9 SR 464.5 SS 399.8
CRT .4617 CRS .5073 CST .9972
LSA 679.5 MSA 371.6 SSA 16.5
EL1 567.4 EL2 344.2 ALF 43.76

LAUNCH DATE SEP 11 1965 FLIGHT TIME 98.00 ARRIVAL DATE DEC 18 1965

HELIOCENTRIC CONIC DISTANCE 205.867

RL 150.59 LAL .00 LOL 348.05 VL 22.228 GAL 18.27 AZL 90.86 HCA 74.26 SMA 104.62 ECC .52191 INC .8576 VI 29.589
RP 107.94 LAP -.83 LOP 62.31 VP 34.503 GAP -31.41 AZP 90.23 TAL 161.35 TAP 235.61 RCA 50.02 APO 159.22 V2 35.108
RC 64.732 GL -1.61 GP -5.54 ZAL 48.82 ZAP 18.66 ETS 159.89 ZAE 132.06 ETE 183.35 ZAC 20.45 ETC 71.84 CLP 17.84

PLANETOCENTRIC CONIC

C3 127.130 VHL 11.275 DLA -21.88 RAL 301.76 RAD 6570.3 VEL 15.763 PTH 2.80 VHP 18.747 DPA -28.79 RAP 258.40 ECC 3.0922

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 20 53	1893.34	-10.70	22.08	190.48	116.37	11 52 26	1293.3	-7.07	15.28
90.00	16 54 27	770.62	22.38	316.40	203.74	107.82	17 7 17	170.6	24.61	308.44
100.00	12 26 47	1680.65	-12.82	5.36	189.39	117.24	12 54 47	1080.6	-9.07	358.58
100.00	18 31 14	5746.59	24.64	272.14	204.52	107.49	20 7 0	5146.6	26.80	264.00
110.00	13 2 51	1567.59	-17.96	353.91	186.51	119.59	13 28 58	967.6	-13.88	347.16
110.00	20 11 39	5432.41	30.22	250.21	206.46	106.80	21 42 11	4832.4	32.22	241.57

DIFFERENTIAL CORRECTIONS

TDE -.5800 TRA-2.4610 TC3 -.2325 BAU .3952
RDE -.8937 RRA .4109 RC3 -.0060 FAU .01156
FDE .3249 FRA 1.2174 FC3 -.0787 BSP 4485
BDE 1.0654 BRA 2.4951 BC3 .2325 FSP -153

MID-COURSE EXECUTION ACCURACY

SGT 1475.8 SGR 507.0 SG3 61.3
RRT -.2168 RRF .2153 RTF -.8158
SGB 1560.4 R23 -.0165 R13 .8166
SG1 1480.4 SG2 493.4 THA 175.21

ORBIT DETERMINATION ACCURACY

ST 500.6 SR 459.1 SS 420.1
CRT .4637 CRS .5162 CST .9968
LSA 707.0 MSA 371.2 SSA 16.6
EL1 582.3 EL2 349.7 ALF 39.72

LAUNCH DATE SEP 11 1965 FLIGHT TIME 100.00 ARRIVAL DATE DEC 20 1965

HELIOCENTRIC CONIC DISTANCE 212.354

RL 150.59 LAL .00 LOL 348.05 VL 22.593 GAL 17.52 AZL 90.65 HCA 77.48 SMA 105.99 ECC .50161 INC .6547 VI 29.589
RP 107.90 LAP -.64 LOP 65.53 VP 34.752 GAP -30.09 AZP 90.14 TAL 160.65 TAP 238.12 RCA 52.82 APO 159.15 V2 35.120
RC 62.721 GL -1.30 GP -5.80 ZAL 47.96 ZAP 17.49 ETS 157.80 ZAE 132.73 ETE 184.18 ZAC 20.30 ETC 77.18 CLP 16.53

PLANETOCENTRIC CONIC

C3 117.334 VHL 10.832 DLA -21.40 RAL 302.59 RAD 6570.2 VEL 15.449 PTH 2.76 VHP 18.041 DPA -29.29 RAP 260.51 ECC 2.9310

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 18 9	1899.34	-10.88	22.43	190.17	116.30	11 49 48	1299.3	-7.26	15.62
90.00	17 3 49	732.88	23.14	313.90	203.43	106.79	17 16 2	132.9	25.23	305.85
100.00	12 24 48	1684.24	-12.93	5.57	189.12	117.19	12 52 52	1084.2	-9.18	358.78
100.00	18 39 51	5711.25	25.34	269.74	204.14	106.41	20 15 2	5111.3	27.34	261.52
110.00	13 2 10	1567.11	-17.94	353.88	186.31	119.60	13 28 17	967.1	-13.86	347.14
110.00	20 18 58	5401.14	30.81	247.97	205.92	105.59	21 48 59	4801.1	32.64	239.23

DIFFERENTIAL CORRECTIONS

TDE -.5951 TRA-2.4840 TC3 -.2426 BAU .3809
RDE -.8455 RRA .4151 RC3 -.0088 FAU .01176
FDE .3480 FRA 1.2615 FC3 -.0867 BSP 4660
BDE 1.0339 BRA 2.5184 BC3 .2428 FSP -166

MID-COURSE EXECUTION ACCURACY

SGT 1538.5 SGR 506.0 SG3 66.0
RRT -.2338 RRF .2337 RTF -.8263
SGB 1619.6 R23 -.0192 R13 .8272
SG1 1543.5 SG2 490.3 THA 175.11

ORBIT DETERMINATION ACCURACY

ST 527.8 SR 452.8 SS 441.3
CRT .4637 CRS .5235 CST .9964
LSA 735.7 MSA 369.8 SSA 16.7
EL1 598.8 EL2 353.6 ALF 35.82

LAUNCH DATE SEP 11 1965 FLIGHT TIME 102.00 ARRIVAL DATE DEC 22 1965

HELIOCENTRIC CONIC DISTANCE 218.894

RL	150.59	LAL	.00	LOL	348.05	VL	22.937	GAL	16.79	AZL	90.46	HCA	80.70	SMA	107.33	ECC	.48199	INC	.4567
RP	107.87	LAP	-.45	LOP	68.75	VP	34.989	GAP	-28.81	AZP	90.07	TAL	159.97	TAP	240.66	RCA	55.60	APO	159.06
RC	60.751	GL	-.96	GP	-6.08	ZAL	47.14	ZAP	16.36	ETS	155.33	ZAE	133.49	ETE	185.11	ZAC	20.36	ETC	82.58

VI 29.589
V2 35.132
CLP 15.22

PLANETOCENTRIC CONIC

C3 108.314 VHL 10.407 DLA -20.90 RAL 303.37 RAD 6570.1 VEL 15.154 PTH 2.72 VHP 17.356 DPA -29.80 RAP 262.65 ECC 2.7826

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 15 2	1905.55	-11.07	22.79	189.78	116.23	11 46 48	1305.5	-7.46	15.97
90.00	17 13 7	693.96	23.88	311.29	202.98	105.68	17 24 40	94.0	25.81	303.15
100.00	12 22 25	1688.09	-13.05	5.79	188.76	117.13	12 50 33	1088.1	-9.31	359.00
100.00	18 48 25	5674.68	26.02	267.24	203.63	105.26	20 22 59	5074.7	27.86	258.92
110.00	13 1 5	1566.89	-17.93	353.87	186.03	119.60	13 27 12	966.9	-13.86	347.12
110.00	20 26 14	5368.65	31.38	245.61	205.25	104.30	21 55 43	4768.7	33.03	236.77

DIFFERENTIAL CORRECTIONS

TDE	-.6065	TRA	-2.5035	TC3	-.2518	BAU	.3650												
RDE	-.7979	RRA	.4190	RC3	-.0121	FAU	.01199												
FDE	.3717	FRA	1.3075	FC3	-.0959	BSP	4903												
BDE	1.0023	BRA	2.5383	BC3	.2521	FSP	-180												

MID-COURSE EXECUTION ACCURACY

SGT	1600.8	SGR	504.5	SG3	71.0														
RRT	-.2531	RRF	.2541	RTF	-.8365														
SGB	1678.4	R23	-.0215	R13	.8374														
SG1	1606.4	SG2	486.4	THA	174.98														

ORBIT DETERMINATION ACCURACY

ST	554.6	SR	445.5	SS	463.0														
CRT	.4610	CRS	.5290	CST	.9958														
LSA	764.9	MSA	367.6	SSA	16.8														
EL1	615.9	EL2	356.0	ALF	32.20														

LAUNCH DATE SEP 11 1965 FLIGHT TIME 104.00 ARRIVAL DATE DEC 24 1965

HELIOCENTRIC CONIC DISTANCE 225.483

RL	150.59	LAL	.00	LOL	348.05	VL	23.261	GAL	16.09	AZL	90.26	HCA	83.92	SMA	108.64	ECC	.46307	INC	.2622
RP	107.83	LAP	-.26	LOP	71.97	VP	35.213	GAP	-27.58	AZP	90.03	TAL	159.32	TAP	243.24	RCA	58.33	APO	158.95
RC	58.824	GL	-.59	GP	-6.39	ZAL	46.36	ZAP	15.28	ETS	152.43	ZAE	134.33	ETE	186.15	ZAC	20.62	ETC	87.93

VI 29.589
V2 35.144
CLP 13.91

PLANETOCENTRIC CONIC

C3 100.012 VHL 10.001 DLA -20.36 RAL 304.09 RAD 6569.9 VEL 14.878 PTH 2.69 VHP 16.691 DPA -30.30 RAP 264.80 ECC 2.6459

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 11 32	1912.10	-11.27	23.17	189.31	116.15	11 43 24	1312.1	-7.66	16.34
90.00	17 22 21	653.80	24.60	308.56	202.40	104.49	17 33 15	53.8	26.35	300.33
100.00	12 19 38	1692.33	-13.18	6.03	188.33	117.07	12 47 50	1092.3	-9.45	359.24
100.00	18 56 56	5636.84	26.67	264.62	202.99	104.03	20 30 53	5036.8	28.33	256.21
110.00	12 59 36	1567.03	-17.94	353.87	185.67	119.60	13 25 43	967.0	-13.86	347.13
110.00	20 33 27	5334.90	31.92	243.13	204.43	102.92	22 2 22	4734.9	33.37	234.20

DIFFERENTIAL CORRECTIONS

TDE	-.6170	TRA	-2.5221	TC3	-.2606	BAU	.3490												
RDE	-.7508	RRA	.4227	RC3	-.0159	FAU	.01226												
FDE	.3966	FRA	1.3560	FC3	-.1061	BSP	5147												
BDE	.9718	BRA	2.5573	BC3	.2611	FSP	-196												

MID-COURSE EXECUTION ACCURACY

SGT	1664.9	SGR	502.8	SG3	76.5														
RRT	-.2742	RRF	.2766	RTF	-.8462														
SGB	1739.2	R23	-.0243	R13	.8471														
SG1	1671.2	SG2	481.7	THA	174.84														

ORBIT DETERMINATION ACCURACY

ST	582.2	SR	437.1	SS	485.8														
CRT	.4568	CRS	.5330	CST	.9951														
LSA	795.5	MSA	364.5	SSA	16.9														
EL1	634.7	EL2	356.7	ALF	28.76														

LAUNCH DATE SEP 11 1965 FLIGHT TIME 106.00 ARRIVAL DATE DEC 26 1965

HELIOCENTRIC CONIC DISTANCE 232.115

RL	150.59	LAL	.00	LOL	348.05	VL	23.565	GAL	15.43	AZL	90.07	HCA	87.14	SMA	109.93	ECC	.44486	INC	.0689
RP	107.80	LAP	-.07	LOP	75.19	VP	35.426	GAP	-26.39	AZP	90.00	TAL	158.70	TAP	245.84	RCA	61.02	APO	158.83
RC	56.947	GL	-.17	GP	-6.73	ZAL	45.62	ZAP	14.26	ETS	148.98	ZAE	135.27	ETE	187.33	ZAC	21.09	ETC	93.10

VI 29.589
V2 35.155
CLP 12.60

PLANETOCENTRIC CONIC

C3 92.375 VHL 9.611 DLA -19.78 RAL 304.75 RAD 6569.8 VEL 14.619 PTH 2.65 VHP 16.046 DPA -30.81 RAP 266.97 ECC 2.5203

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 7 36	1919.12	-11.48	23.58	188.76	116.06	11 39 35	1319.1	-7.88	16.74
90.00	17 31 33	612.37	25.27	305.72	201.69	103.22	17 41 45	12.4	26.84	297.40
100.00	12 16 24	1697.08	-13.33	6.31	187.81	117.01	12 44 41	1097.1	-9.60	359.50
100.00	19 5 26	5597.68	27.29	261.87	202.21	102.71	20 38 44	4997.7	28.76	253.38
110.00	12 57 42	1567.66	-17.96	353.91	185.23	119.59	13 23 50	967.7	-13.88	347.17
110.00	20 40 37	5299.87	32.43	240.52	203.48	101.46	22 8 57	4699.9	33.67	231.51

DIFFERENTIAL CORRECTIONS

TDE	-.6264	TRA	-2.5397	TC3	-.2688	BAU	.3329												
RDE	-.7043	RRA	.4265	RC3	-.0204	FAU	.01255												
FDE	.4228	FRA	1.4071	FC3	-.1176	BSP	5400												
BDE	.9426	BRA	2.5753	BC3	.2695	FSP	-214												

MID-COURSE EXECUTION ACCURACY

SGT	1730.7	SGR	500.8	SG3	82.4														
RRT	-.2974	RRF	.3014	RTF	-.8553														
SGB	1801.7	R23	-.0274	R13	.8563														
SG1	1737.6	SG2	476.3	THA	174.68														

ORBIT DETERMINATION ACCURACY

ST	610.5	SR	427.6	SS	509.5														
CRT	.4508	CRS	.5353	CST	.9943														
LSA	827.6	MSA	360.5	SSA	17.0														
EL1	654.9	EL2	355.8	ALF	25.55														

LAUNCH DATE SEP 11 1965 FLIGHT TIME 108.00 ARRIVAL DATE DEC 28 1965

HELIOCENTRIC CONIC DISTANCE 238.786

RL	150.59	LAL	.00	LOL	348.05	VL	23.851	GAL	14.79	AZL	89.88	HCA	90.36	SMA	111.17	ECC	.42737	INC	.1197
RP	107.76	LAP	.12	LOP	78.41	VP	35.628	GAP	-25.24	AZP	90.00	TAL	158.12	TAP	248.48	RCA	63.66	APO	158.68
RC	55.125	GL	.30	GP	-7.11	ZAL	44.93	ZAP	13.32	ETS	144.89	ZAE	136.29	ETE	188.67	ZAC	21.76	ETC	98.01

VI 29.589
V2 35.166
CLP 11.29

PLANETOCENTRIC CONIC

C3 85.357 VHL 9.239 DLA -19.17 RAL 305.35 RAD 6569.7 VEL 14.377 PTH 2.61 VHP 15.420 DPA -31.32 RAP 269.16 ECC 2.4048

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 3 13	1926.78	-11.71	24.02	188.14	115.97	11 35 20	1326.8	-8.12	17.18
90.00	17 40 44	5857.64	25.90	280.65	200.84	101.86	19 18 22	5257.6	27.28	272.25
100.00	12 12 43	1702.49	-13.49	6.63	187.23	116.93	12 41 6	1102.5	-9.78	359.81
100.00	19 13 55	5557.16	27.86	259.00	201.29	101.30	20 46 32	4957.2	29.13	250.42
110.00	12 55 21	1568.92	-18.00	353.98	184.72	119.56	13 21 30	968.9	-13.93	347.24
110.00	20 47 47	5263.50	32.89	237.78	202.38	99.90	22 15 30	4663.5	33.90	228.69

DIFFERENTIAL CORRECTIONS

TDE	-.6351	TRA	-2.5565	TC3	-.2764	BAU	.3167												
RDE	-.6583	RRA	.4306	RC3	-.0255	FAU	.01288												
FDE	.4505	FRA	1.4612	FC3	-.1306	BSP	5650												
BDE	.9147	BRA	2.5925	BC3	.2776	FSP	-232												

MID-COURSE EXECUTION ACCURACY

SGT	1798.1	SGR	498.8	SG3	88.8														
RRT	-.3229	RRF	.3287	RTF	-.8640														
SGB	1866.0	R23	-.0309	R13	.8651														
SG1	1805.8	SG2	470.1	THA	174.51														

ORBIT DETERMINATION ACCURACY

ST	639.5	SR	417.0	SS	534.5														
CRT	.4429	CRS	.5358	CST	.9934														
LSA	861.2	MSA	355.7	SSA	17.1														
EL1	676.7	EL2	353.2	ALF	22.57														

LAUNCH DATE SEP 11 1965 FLIGHT TIME 110.00 ARRIVAL DATE DEC 30 1965

HELIOCENTRIC CONIC DISTANCE 245.491

RL 150.59 LAL .00 LOL 348.05 VL 24.119 GAL 14.17 AZL 89.69 HCA 93.59 SMA 112.39 ECC .41058 INC .3123 V1 29.589
RP 107.73 LAP .31 LOP 81.64 VP 35.818 GAP -24.13 AZP 90.02 TAL 157.56 TAP 251.15 RCA 66.24 APO 158.53 V2 35.176
RC 53.365 GL .82 GP -7.52 ZAL 44.28 ZAP 12.47 ETS 140.05 ZAE 137.40 ETE 190.20 ZAC 22.61 ETC 102.58 CLP 9.98

PLANETOCENTRIC CONIC

C3 78.912 VHL 8.883 DLA -18.51 RAL 305.89 RAD 6569.5 VEL 14.151 PTH 2.58 VHP 14.813 DPA -31.84 RAP 271.37 ECC 2.2987

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 58 22	1935.26	-11.96	24.52	187.45	115.86	11 30 37	1335.3	-8.38	17.66
90.00	17 49 56	5813.47	26.48	277.55	199.86	100.40	19 26 49	5213.5	27.65	269.07
100.00	12 8 33	1708.74	-13.69	6.99	186.58	116.84	12 37 2	1108.7	-9.98	.16
100.00	19 22 25	5515.22	28.38	255.99	200.24	99.80	20 54 20	4915.2	29.44	247.34
110.00	12 52 32	1570.97	-18.07	354.10	184.14	119.52	13 18 43	971.0	-14.00	347.35
110.00	20 54 56	5225.76	33.29	234.91	201.15	98.24	22 22 2	4625.8	34.07	225.76

DIFFERENTIAL CORRECTIONS
TDE -.6431 TRA-2.5725 TC3 -.2833 BAU .3008
RDE -.6128 RRA .4351 RC3 -.0315 FAU .01323
FOE .4799 FRA 1.5187 FC3 -.1452 BSP 5897
BDE .8883 BRA 2.6090 BC3 .2851 FSP -253

MID-COURSE EXECUTION ACCURACY
SGT 1867.3 SGR 496.9 SG3 95.8
RRT -.3509 RRF .3590 RTF -.8723
SGB 1932.3 R23 -.0351 R13 .8734
SG1 1876.0 SG2 463.2 THA 174.32

ORBIT DETERMINATION ACCURACY
ST 669.2 SR 405.1 SS 560.7
CRT .4330 CRS .5343 CST .9925
LSA 896.4 MSA 350.0 SSA 17.2
EL1 700.1 EL2 349.0 ALF 19.80

LAUNCH DATE SEP 11 1965 FLIGHT TIME 112.00 ARRIVAL DATE JAN 1 1966

HELIOCENTRIC CONIC DISTANCE 252.227

RL 150.59 LAL .00 LOL 348.05 VL 24.371 GAL 13.59 AZL 89.49 HCA 96.82 SMA 113.56 ECC .39450 INC .5053 V1 29.589
RP 107.70 LAP .50 LOP 84.87 VP 35.998 GAP -23.06 AZP 90.06 TAL 157.04 TAP 253.86 RCA 68.76 APO 158.36 V2 35.186
RC 51.675 GL 1.40 GP -7.98 ZAL 43.68 ZAP 11.76 ETS 134.39 ZAE 138.60 ETE 191.94 ZAC 23.63 ETC 106.77 CLP 8.66

PLANETOCENTRIC CONIC

C3 73.001 VHL 8.544 DLA -17.80 RAL 306.38 RAD 6569.4 VEL 13.941 PTH 2.54 VHP 14.225 DPA -32.37 RAP 273.58 ECC 2.2014

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 52 59	1944.77	-12.24	25.07	186.70	115.73	11 25 24	1344.8	-8.68	18.21
90.00	17 59 10	5767.83	27.00	274.31	198.74	98.86	19 35 17	5167.8	27.95	265.77
100.00	12 3 52	1716.04	-13.91	7.42	185.86	116.73	12 32 28	1116.0	-10.21	.58
100.00	19 30 57	5471.80	28.85	252.84	199.05	98.20	21 2 9	4871.8	29.68	244.14
110.00	12 49 12	1574.00	-18.17	354.28	183.49	119.46	13 15 26	974.0	-14.11	347.52
110.00	21 2 7	5186.61	33.63	231.91	199.78	96.50	22 28 33	4586.6	34.17	222.70

DIFFERENTIAL CORRECTIONS
TDE -.6526 TRA-2.5897 TC3 -.2906 BAU .2861
RDE -.5677 RRA .4404 RC3 -.0384 FAU .01360
FOE .5118 FRA 1.5804 FC3 -.1613 BSP 6093
BDE .8649 BRA 2.6269 BC3 .2931 FSP -274

MID-COURSE EXECUTION ACCURACY
SGT 1940.4 SGR 495.4 SG3 103.4
RRT -.3813 RRF .3924 RTF -.8799
SGB 2002.6 R23 -.0403 R13 .8811
SG1 1950.1 SG2 455.7 THA 174.12

ORBIT DETERMINATION ACCURACY
ST 700.8 SR 391.9 SS 588.6
CRT .4213 CRS .5305 CST .9915
LSA 934.4 MSA 343.2 SSA 17.3
EL1 725.9 EL2 343.1 ALF 17.21

LAUNCH DATE SEP 11 1965 FLIGHT TIME 114.00 ARRIVAL DATE JAN 3 1966

HELIOCENTRIC CONIC DISTANCE 258.989

RL 150.59 LAL .00 LOL 348.05 VL 24.607 GAL 13.02 AZL 89.30 HCA 100.05 SMA 114.70 ECC .37913 INC .7013 V1 29.589
RP 107.67 LAP .69 LOP 88.10 VP 36.167 GAP -22.02 AZP 90.12 TAL 156.55 TAP 256.60 RCA 71.21 APO 158.18 V2 35.196
RC 50.062 GL 2.05 GP -8.49 ZAL 43.13 ZAP 11.20 ETS 127.86 ZAE 139.87 ETE 193.95 ZAC 24.81 ETC 110.55 CLP 7.34

PLANETOCENTRIC CONIC

C3 67.586 VHL 8.221 DLA -17.04 RAL 306.80 RAD 6569.3 VEL 13.746 PTH 2.51 VHP 13.656 DPA -32.93 RAP 275.82 ECC 2.1123

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 47 3	1955.55	-12.56	25.71	185.89	115.59	11 19 39	1355.5	-9.01	18.82
90.00	18 8 27	5720.64	27.45	270.93	197.49	97.22	19 43 48	5120.6	28.17	262.33
100.00	11 58 38	1724.59	-14.17	7.92	185.08	116.60	12 27 22	1124.6	-10.49	1.06
100.00	19 39 34	5426.83	29.24	249.56	197.74	96.52	21 10 0	4826.8	29.83	240.80
110.00	12 45 21	1578.22	-18.31	354.53	182.79	119.38	13 11 39	978.2	-14.26	347.76
110.00	21 9 20	5145.97	33.90	228.76	198.27	94.66	22 35 6	4546.0	34.18	219.53

DIFFERENTIAL CORRECTIONS
TDE -.6586 TRA-2.6031 TC3 -.2954 BAU .2702
RDE -.5231 RRA .4465 RC3 -.0463 FAU .01403
FOE .5453 FRA 1.6455 FC3 -.1797 BSP 6357
BDE .8411 BRA 2.6411 BC3 .2990 FSP -299

MID-COURSE EXECUTION ACCURACY
SGT 2011.8 SGR 494.6 SG3 111.7
RRT -.4154 RRF .4292 RTF -.8873
SGB 2071.7 R23 -.0456 R13 .8886
SG1 2022.8 SG2 447.5 THA 173.87

ORBIT DETERMINATION ACCURACY
ST 731.4 SR 377.4 SS 617.6
CRT .4049 CRS .5233 CST .9904
LSA 972.4 MSA 336.0 SSA 17.4
EL1 751.4 EL2 335.9 ALF 14.83

LAUNCH DATE SEP 11 1965 FLIGHT TIME 116.00 ARRIVAL DATE JAN 5 1966

HELIOCENTRIC CONIC DISTANCE 265.773

RL 150.59 LAL .00 LOL 348.05 VL 24.829 GAL 12.49 AZL 89.10 HCA 103.28 SMA 115.79 ECC .36446 INC .9011 V1 29.589
RP 107.64 LAP .88 LOP 91.33 VP 36.327 GAP -21.01 AZP 90.21 TAL 156.10 TAP 259.38 RCA 73.59 APO 157.99 V2 35.204
RC 48.537 GL 2.76 GP -9.05 ZAL 42.63 ZAP 10.85 ETS 120.55 ZAE 141.20 ETE 196.27 ZAC 26.13 ETC 113.93 CLP 6.01

PLANETOCENTRIC CONIC

C3 62.632 VHL 7.914 DLA -16.22 RAL 307.15 RAD 6569.2 VEL 13.564 PTH 2.48 VHP 13.105 DPA -33.51 RAP 278.06 ECC 2.0308

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 40 31	1967.85	-12.92	26.43	185.03	115.42	11 13 19	1367.9	-9.39	19.53
90.00	18 17 50	5671.80	27.82	267.40	196.12	95.49	19 52 22	5071.8	28.29	258.77
100.00	11 52 47	1734.67	-14.48	8.51	184.25	116.44	12 21 42	1134.7	-10.81	1.64
100.00	19 48 15	5380.22	29.55	246.13	196.29	94.74	21 17 55	4780.2	29.89	237.34
110.00	12 40 55	1583.87	-18.50	354.86	182.03	119.27	13 7 19	983.9	-14.46	348.07
110.00	21 16 36	5103.78	34.09	225.48	196.64	92.72	22 41 40	4503.8	34.09	216.24

DIFFERENTIAL CORRECTIONS
TDE -.6644 TRA-2.6158 TC3 -.2989 BAU .2545
RDE -.4787 RRA .4540 RC3 -.0554 FAU .01449
FOE .5814 FRA 1.7152 FC3 -.2003 BSP 6613
BDE .8189 BRA 2.6549 BC3 .3040 FSP -325

MID-COURSE EXECUTION ACCURACY
SGT 2084.5 SGR 494.9 SG3 120.7
RRT -.4526 RRF .4696 RTF -.8942
SGB 2142.4 R23 -.0517 R13 .8957
SG1 2097.0 SG2 438.7 THA 173.58

ORBIT DETERMINATION ACCURACY
ST 762.7 SR 361.5 SS 648.3
CRT .3844 CRS .5123 CST .9891
LSA 1012.3 MSA 328.0 SSA 17.4
EL1 778.0 EL2 327.1 ALF 12.59

LAUNCH DATE SEP 11 1965 FLIGHT TIME 118.00 ARRIVAL DATE JAN 7 1966

HELIOCENTRIC CONIC DISTANCE 272.575

RL	150.59	LAL	.00	LOL	348.05	VL	25.036	GAL	11.97	AZL	88.89	HCA	106.51	SMA	116.85	ECC	.35047	INC	1.1065	VI	29.589
RP	107.62	LAP	1.06	LOP	94.57	VP	36.477	GAP	-20.03	AZP	90.31	TAL	155.68	TAP	262.19	RCA	75.89	APO	157.80	V2	35.213
RC	47.108	GL	3.56	GP	-9.69	ZAL	42.19	ZAP	10.74	ETS	112.67	ZAE	142.58	ETE	198.95	ZAC	27.58	ETC	116.91	CLP	4.66

PLANETOCENTRIC CONIC

C3	58.110	VHL	7.623	DLA	-15.33	RAL	307.45	RAD	6569.1	VEL	13.397	PTH	2.45	VHP	12.574	DPA	-34.13	RAP	280.31	ECC	1.9563

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 33 20	1982.00	-13.33	27.27	184.12	115.22	11 6 22	1382.0	-9.82	20.34
90.00	18 27 22	5621.20	28.10	263.72	194.62	93.67	20 1 3	5021.2	28.31	255.06
100.00	11 46 18	1746.56	-14.84	9.21	183.37	116.25	12 15 24	1146.6	-11.19	2.32
100.00	19 57 5	5331.87	29.77	242.55	194.72	92.87	21 25 57	4731.9	29.85	233.75
110.00	12 35 53	1591.23	-18.74	355.29	181.23	119.12	13 2 24	991.2	-14.72	348.48
110.00	21 23 59	5059.97	34.18	222.06	194.89	90.70	22 48 19	4460.0	33.90	212.83

DIFFERENTIAL CORRECTIONS								MID-COURSE EXECUTION ACCURACY								ORBIT DETERMINATION ACCURACY					
TDE	-.6696	TRA	-2.6274	TC3	-.3008	BAU	.2392	SGT	2157.9	SGR	497.0	SG3	130.4			ST	794.3	SR	344.1	SS	680.8
RDE	-.4345	RRA	.4631	RC3	-.0657	FAU	.01499	RRT	-.4930	RRF	.5135	RTF	-.9009			CRT	.3582	CRS	.4961	CST	.9877
FDE	.6204	FRA	1.7899	FC3	-.2234	BSP	6875	SGB	2214.4	R23	-.0586	R13	.9025			LSA	1053.8	MSA	319.3	SSA	17.5
BDE	.7982	BRA	2.6679	BC3	.3079	FSP	-354	SG1	2172.4	SG2	429.5	THA	173.26			EL1	805.6	EL2	316.8	ALF	10.46

LAUNCH DATE SEP 11 1965 FLIGHT TIME 120.00 ARRIVAL DATE JAN 9 1966

HELIOCENTRIC CONIC DISTANCE 279.392

RL	150.59	LAL	.00	LOL	348.05	VL	25.230	GAL	11.48	AZL	88.68	HCA	109.74	SMA	117.86	ECC	.33717	INC	1.3189	VI	29.589
RP	107.60	LAP	1.24	LOP	97.80	VP	36.618	GAP	-19.08	AZP	90.45	TAL	155.30	TAP	265.04	RCA	78.12	APO	157.60	V2	35.220
RC	45.785	GL	4.44	GP	-10.40	ZAL	41.82	ZAP	10.90	ETS	104.58	ZAE	143.98	ETE	202.07	ZAC	29.15	ETC	119.52	CLP	3.30

PLANETOCENTRIC CONIC

C3	53.991	VHL	7.348	DLA	-14.36	RAL	307.67	RAD	6569.0	VEL	13.242	PTH	2.42	VHP	12.060	DPA	-34.79	RAP	282.58	ECC	1.8886

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 25 25	1998.31	-13.80	28.23	183.17	114.97	10 58 44	1398.3	-10.32	21.28
90.00	18 37 3	5568.73	28.27	259.89	193.00	91.76	20 9 52	4968.7	28.21	251.23
100.00	11 39 6	1760.60	-15.26	10.04	182.46	116.02	12 8 26	1160.6	-11.64	3.12
100.00	20 6 4	5281.67	29.88	238.82	193.04	90.91	21 34 6	4681.7	29.69	230.02
110.00	12 30 11	1600.61	-19.05	355.84	180.39	118.93	12 56 51	1000.6	-15.05	349.01
110.00	21 31 29	5014.43	34.16	218.51	193.02	88.60	22 55 3	4414.4	33.59	209.31

DIFFERENTIAL CORRECTIONS								MID-COURSE EXECUTION ACCURACY								ORBIT DETERMINATION ACCURACY					
TDE	-.6745	TRA	-2.6384	TC3	-.3009	BAU	.2243	SGT	2232.1	SGR	501.3	SG3	141.1			ST	826.3	SR	325.2	SS	715.3
RDE	-.3903	RRA	.4743	RC3	-.0775	FAU	.01554	RRT	-.5365	RRF	.5607	RTF	-.9071			CRT	.3243	CRS	.4729	CST	.9863
FDE	.6629	FRA	1.8699	FC3	-.2491	BSP	7131	SGB	2287.7	R23	-.0665	R13	.9089			LSA	1097.1	MSA	310.1	SSA	17.5
BDE	.7793	BRA	2.6807	BC3	.3107	FSP	-386	SG1	2248.8	SG2	419.9	THA	172.88			EL1	834.0	EL2	304.7	ALF	8.40

LAUNCH DATE SEP 11 1965 FLIGHT TIME 122.00 ARRIVAL DATE JAN 11 1966

HELIOCENTRIC CONIC DISTANCE 286.220

RL	150.59	LAL	.00	LOL	348.05	VL	25.412	GAL	11.01	AZL	88.46	HCA	112.98	SMA	118.83	ECC	.32452	INC	1.5402	VI	29.589
RP	107.57	LAP	1.42	LOP	101.04	VP	36.750	GAP	-18.17	AZP	90.60	TAL	154.95	TAP	267.93	RCA	80.27	APO	157.39	V2	35.227
RC	44.580	GL	5.43	GP	-11.19	ZAL	41.51	ZAP	11.35	ETS	96.72	ZAE	145.35	ETE	205.70	ZAC	30.83	ETC	121.78	CLP	1.93

PLANETOCENTRIC CONIC

C3	50.252	VHL	7.089	DLA	-13.31	RAL	307.83	RAD	6568.8	VEL	13.100	PTH	2.39	VHP	11.566	DPA	-35.51	RAP	284.86	ECC	1.8270

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 16 44	2017.19	-14.34	29.36	182.20	114.68	10 50 21	1417.2	-10.89	22.37
90.00	18 46 59	5514.22	28.32	255.91	191.27	89.76	20 18 53	4914.2	27.98	247.26
100.00	11 31 8	1777.16	-15.75	11.02	181.51	115.74	12 0 45	1177.2	-12.16	4.07
100.00	20 15 16	5229.48	29.87	234.94	191.25	88.87	21 42 26	4629.5	29.40	226.17
110.00	12 23 45	1612.36	-19.44	356.53	179.52	118.69	12 50 37	1012.4	-15.46	349.67
110.00	21 39 9	4967.05	34.02	214.81	191.05	86.41	23 1 56	4367.0	33.15	205.68

DIFFERENTIAL CORRECTIONS								MID-COURSE EXECUTION ACCURACY								ORBIT DETERMINATION ACCURACY					
TDE	-.6792	TRA	-2.6483	TC3	-.2991	BAU	.2100	SGT	2306.4	SGR	509.0	SG3	152.7			ST	858.5	SR	304.7	SS	752.0
RDE	-.3456	RRA	.4882	RC3	-.0909	FAU	.01612	RRT	-.5826	RRF	.6106	RTF	-.9130			CRT	.2796	CRS	.4398	CST	.9847
FDE	.7094	FRA	1.9557	FC3	-.2776	BSP	7389	SGB	2361.9	R23	-.0755	R13	.9150			LSA	1142.3	MSA	300.3	SSA	17.5
BDE	.7621	BRA	2.6929	BC3	.3126	FSP	-420	SG1	2326.0	SG2	410.2	THA	172.44			EL1	863.2	EL2	291.0	ALF	6.40

LAUNCH DATE SEP 11 1965 FLIGHT TIME 124.00 ARRIVAL DATE JAN 13 1966

HELIOCENTRIC CONIC DISTANCE 293.056

RL	150.59	LAL	.00	LOL	348.05	VL	25.581	GAL	10.57	AZL	88.23	HCA	116.21	SMA	119.75	ECC	.31253	INC	1.7724	VI	29.589
RP	107.55	LAP	1.59	LOP	104.28	VP	36.874	GAP	-17.28	AZP	90.78	TAL	154.64	TAP	270.86	RCA	82.33	APO	157.18	V2	35.234
RC	43.503	GL	6.52	GP	-12.09	ZAL	41.28	ZAP	12.10	ETS	89.47	ZAE	146.64	ETE	209.90	ZAC	32.62	ETC	123.72	CLP	.53

PLANETOCENTRIC CONIC

C3	46.869	VHL	6.846	DLA	-12.16	RAL	307.91	RAD	6568.8	VEL	12.970	PTH	2.37	VHP	11.091	DPA	-36.29	RAP	287.16	ECC	1.7713

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 7 11	2039.07	-14.96	30.66	181.21	114.33	10 41 10	1439.1	-11.55	23.65
90.00	18 57 11	5457.51	28.23	251.76	189.45	87.68	20 28 9	4857.5	27.61	243.15
100.00	11 22 19	1796.67	-16.32	12.19	180.55	115.39	11 52 16	1196.7	-12.77	5.20
100.00	20 24 44	5175.13	29.73	230.91	189.36	86.75	21 51 0	4575.1	28.96	222.19
110.00	12 16 32	1626.87	-19.91	357.39	178.64	118.38	12 43 39	1026.9	-15.97	350.49
110.00	21 47 1	4917.70	33.74	210.99	188.99	84.17	23 8 58	4317.7	32.57	201.95

DIFFERENTIAL CORRECTIONS								MID-COURSE EXECUTION ACCURACY								ORBIT DETERMINATION ACCURACY					
TDE	-.6808	TRA	-2.6544	TC3	-.2922	BAU	.1948	SGT	2376.7	SGR	521.0	SG3	165.2			ST	888.6	SR	283.0	SS	790.7
RDE	-.3004	RRA	.5052	RC3	-.1061	FAU	.01677	RRT	-.6312	RRF	.6624	RTF	-.9188			CRT	.2182	CRS	.3922	CST	.9828
FDE	.7596	FRA	2.0471	FC3	-.3098	BSP	7741	SGB	2433.1	R23	-.0845	R13	.9211			LSA	1187.5	MSA	290.5	SSA	17.5
BDE	.7441	BRA	2.7020	BC3	.3108	FSP	-459	SG1	2400.0	SG2	400.1	THA	171.90			EL1	890.9	EL2	275.4	ALF	4.40

LAUNCH DATE SEP 11 1965 FLIGHT TIME 126.00 ARRIVAL DATE JAN 15 1966

HELIOCENTRIC CONIC DISTANCE 299.897

RL 150.59 LAL .00 LOL 348.05 VL 25.740 GAL 10.14 AZL 87.98 HCA 119.45 SMA 120.64 ECC .30118 INC 2.0181 V1 29.589
RP 107.54 LAP 1.76 LOP 107.52 VP 36.989 GAP -16.41 AZP 90.99 TAL 154.37 TAP 273.82 RCA 84.30 APO 156.97 V2 35.239
RC 42.563 GL 7.75 GP -13.11 ZAL 41.14 ZAP 13.14 ETS 83.08 ZAE 147.78 ETE 214.72 ZAC 34.52 ETC 125.35 CLP -.88

PLANETOCENTRIC CONIC

C3 43.826 VHL 6.620 DLA -10.90 RAL 307.92 RAD 6568.7 VEL 12.853 PTH 2.34 VHP 10.636 DPA -37.17 RAP 289.47 ECC 1.7213

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 56 42	2064.46	-15.67	32.19	180.21	113.89	10 31 6	1464.5	-12.31	25.13
90.00	19 7 44	5398.39	27.99	247.45	187.54	85.53	20 37 43	4798.4	27.08	238.91
100.00	11 12 35	1819.82	-16.99	13.57	179.58	114.97	11 42 55	1219.6	-13.48	6.53
100.00	20 34 32	5118.45	29.44	226.72	187.39	84.56	21 59 51	4518.5	28.37	218.08
110.00	12 8 28	1644.63	-20.48	358.45	177.75	117.98	12 35 53	1044.6	-16.58	351.50
110.00	21 55 9	4866.22	33.31	207.03	186.85	81.86	23 16 15	4266.2	31.83	198.11

DIFFERENTIAL CORRECTIONS
TDE -.6869 TRA-2.6630 TC3 -.2857 BAU .1823
RDE -.2540 RRA .5264 RC3 -.1231 FAU .01743
FDE .8160 FRA 2.1458 FC3 -.3443 BSP 7986
BDE .7324 BRA 2.7145 BC3 .3111 FSP -500

MID-COURSE EXECUTION ACCURACY
SGT 2450.6 SGR 538.6 SG3 178.8
RRT -.6792 RRF .7145 RTF -.9240
SGB 2509.1 R23 -.0960 R13 .9266
SG1 2478.4 SG2 390.9 THA 171.29

ORBIT DETERMINATION ACCURACY
ST 921.6 SR 260.2 SS 832.6
CRT .1365 CRS .3232 CST .9811
LSA 1237.6 MSA 279.9 SSA 17.4
EL1 922.4 EL2 257.6 ALF 2.39

LAUNCH DATE SEP 11 1965 FLIGHT TIME 128.00 ARRIVAL DATE JAN 17 1966

HELIOCENTRIC CONIC DISTANCE 306.740

RL 150.59 LAL .00 LOL 348.05 VL 25.887 GAL 9.73 AZL 87.72 HCA 122.69 SMA 121.48 ECC .29046 INC 2.2800 V1 29.589
RP 107.52 LAP 1.92 LOP 110.76 VP 37.096 GAP -15.58 AZP 91.23 TAL 154.13 TAP 276.82 RCA 86.19 APO 156.76 V2 35.244
RC 41.769 GL 9.11 GP -14.26 ZAL 41.10 ZAP 14.45 ETS 77.65 ZAE 148.68 ETE 220.18 ZAC 36.52 ETC 126.71 CLP -2.32

PLANETOCENTRIC CONIC

C3 41.108 VHL 6.412 DLA -9.51 RAL 307.84 RAD 6568.6 VEL 12.747 PTH 2.32 VHP 10.202 DPA -38.16 RAP 291.82 ECC 1.6765

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 45 9	2093.95	-16.47	33.99	179.23	113.36	10 20 3	1493.9	-13.17	26.86
90.00	19 18 43	5336.61	27.58	242.98	185.56	83.33	20 47 40	4736.6	26.37	234.52
100.00	11 1 49	1846.58	-17.76	15.20	178.63	114.45	11 32 36	1246.6	-14.31	8.11
100.00	20 44 44	5059.21	28.98	222.38	185.36	82.32	22 9 3	4459.2	27.61	213.84
110.00	11 59 27	1666.14	-21.16	359.75	176.87	117.49	12 27 13	1066.1	-17.31	352.74
110.00	22 3 35	4812.42	32.72	202.94	184.66	79.51	23 23 48	4212.4	30.93	194.18

DIFFERENTIAL CORRECTIONS
TDE -.6935 TRA-2.6713 TC3 -.2765 BAU .1709
RDE -.2058 RRA .5524 RC3 -.1423 FAU .01811
FDE .8785 FRA 2.2514 FC3 -.3813 BSP 8240
BDE .7234 BRA 2.7278 BC3 .3110 FSP -545

MID-COURSE EXECUTION ACCURACY
SGT 2523.5 SGR 563.6 SG3 193.5
RRT -.7262 RRF .7652 RTF -.9290
SGB 2585.7 R23 -.1086 R13 .9319
SG1 2557.2 SG2 382.3 THA 170.57

ORBIT DETERMINATION ACCURACY
ST 954.7 SR 237.5 SS 877.5
CRT .0220 CRS .2216 CST .9793
LSA 1290.3 MSA 269.5 SSA 17.3
EL1 954.7 EL2 237.4 ALF .33

LAUNCH DATE SEP 11 1965 FLIGHT TIME 130.00 ARRIVAL DATE JAN 19 1966

HELIOCENTRIC CONIC DISTANCE 313.583

RL 150.59 LAL .00 LOL 348.05 VL 26.024 GAL 9.35 AZL 87.44 HCA 125.93 SMA 122.28 ECC .28033 INC 2.5617 V1 29.589
RP 107.51 LAP 2.07 LOP 114.01 VP 37.196 GAP -14.76 AZP 91.50 TAL 153.93 TAP 279.86 RCA 88.00 APO 156.55 V2 35.249
RC 41.131 GL 10.63 GP -15.58 ZAL 41.18 ZAP 16.02 ETS 73.19 ZAE 149.25 ETE 226.25 ZAC 38.63 ETC 127.81 CLP -3.79

PLANETOCENTRIC CONIC

C3 38.703 VHL 6.221 DLA -7.98 RAL 307.69 RAD 6568.5 VEL 12.652 PTH 2.30 VHP 9.790 DPA -39.28 RAP 294.20 ECC 1.6370

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 32 25	2128.22	-17.38	36.09	178.28	112.71	10 7 53	1528.2	-14.16	28.90
90.00	19 30 12	5271.90	26.98	238.34	183.53	81.07	20 58 4	4671.9	25.47	230.00
100.00	10 49 54	1878.22	-18.64	17.14	177.72	113.80	11 21 13	1278.2	-15.26	9.97
100.00	20 55 24	4997.13	28.33	217.88	183.27	80.04	22 18 41	4397.1	26.66	209.47
110.00	11 49 22	1692.03	-21.97	1.33	176.03	116.87	12 17 34	1092.0	-18.19	354.24
110.00	22 12 25	4756.08	31.94	198.73	182.43	77.13	23 31 42	4156.1	29.84	190.15

DIFFERENTIAL CORRECTIONS
TDE -.7022 TRA-2.6795 TC3 -.2649 BAU .1611
RDE -.1549 RRA .5846 RC3 -.1636 FAU .01879
FDE .9485 FRA 2.3641 FC3 -.4202 BSP 8492
BDE .7190 BRA 2.7426 BC3 .3113 FSP -592

MID-COURSE EXECUTION ACCURACY
SGT 2595.5 SGR 597.8 SG3 209.3
RRT -.7705 RRF .8127 RTF -.9337
SGB 2663.4 R23 -.1223 R13 .9371
SG1 2636.9 SG2 375.1 THA 169.73

ORBIT DETERMINATION ACCURACY
ST 988.5 SR 216.8 SS 925.9
CRT -.1381 CRS .0715 CST .9775
LSA 1346.9 MSA 259.1 SSA 17.1
EL1 989.0 EL2 214.6 ALF 178.18

LAUNCH DATE SEP 11 1965 FLIGHT TIME 132.00 ARRIVAL DATE JAN 21 1966

HELIOCENTRIC CONIC DISTANCE 320.421

RL 150.59 LAL .00 LOL 348.05 VL 26.152 GAL 8.99 AZL 87.13 HCA 129.16 SMA 123.03 ECC .27080 INC 2.8676 V1 29.589
RP 107.50 LAP 2.22 LOP 117.25 VP 37.289 GAP -13.98 AZP 91.81 TAL 153.76 TAP 282.93 RCA 89.71 APO 156.35 V2 35.252
RC 40.657 GL 12.33 GP -17.09 ZAL 41.40 ZAP 17.86 ETS 69.61 ZAE 149.38 ETE 232.78 ZAC 40.88 ETC 128.66 CLP -5.28

PLANETOCENTRIC CONIC

C3 36.607 VHL 6.050 DLA -6.28 RAL 307.44 RAD 6568.4 VEL 12.569 PTH 2.28 VHP 9.402 DPA -40.56 RAP 296.62 ECC 1.6025

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 18 20	2168.08	-18.41	38.56	177.39	111.90	9 54 28	1568.1	-15.28	31.28
90.00	19 42 20	5203.89	26.17	233.53	181.47	78.79	21 9 3	4603.9	24.36	225.32
100.00	10 36 42	1915.30	-19.64	19.44	176.86	113.00	11 8 37	1315.3	-16.36	12.18
100.00	21 6 39	4931.90	27.47	213.22	181.16	77.73	22 28 51	4331.9	25.51	204.97
110.00	11 38 7	1723.02	-22.91	3.24	175.25	116.09	12 6 50	1123.0	-19.22	356.05
110.00	22 21 44	4696.95	30.97	194.40	180.18	74.74	23 40 1	4097.0	28.56	186.03

DIFFERENTIAL CORRECTIONS
TDE -.7094 TRA-2.6847 TC3 -.2472 BAU .1518
RDE -.1007 RRA .6239 RC3 -.1874 FAU .01952
FDE 1.0253 FRA 2.4817 FC3 -.4617 BSP 8822
BDE .7165 BRA 2.7562 BC3 .3102 FSP -646

MID-COURSE EXECUTION ACCURACY
SGT 2661.3 SGR 643.2 SG3 226.0
RRT -.8110 RRF .8553 RTF -.9382
SGB 2737.9 R23 -.1359 R13 .9422
SG1 2712.9 SG2 369.2 THA 168.70

ORBIT DETERMINATION ACCURACY
ST 1019.9 SR 202.3 SS 976.8
CRT -.3523 CRS -.1398 CST .9755
LSA 1404.5 MSA 249.8 SSA 16.7
EL1 1022.5 EL2 188.9 ALF 175.86

LAUNCH DATE SEP 11 1965 FLIGHT TIME 134.00 ARRIVAL DATE JAN 23 1966

HELIOCENTRIC CONIC DISTANCE 327.254

RL 150.59 LAL .00 LOL 348.05 VL 26.270 GAL 8.64 AZL 86.80 HCA 132.40 SMA 123.74 ECC .26185 INC 3.2031 V1 29.589
RP 107.49 LAP 2.36 LOP 120.50 VP 37.375 GAP -13.21 AZP 92.16 TAL 153.63 TAP 286.03 RCA 91.34 APO 156.15 V2 35.255
RC 40.331 GL 14.24 GP -18.82 ZAL 41.77 ZAP 19.97 ETS 66.81 ZAE 148.98 ETE 239.54 ZAC 43.26 ETC 129.30 CLP -6.81

PLANETOCENTRIC CONIC

C3 34.821 VHL 5.901 DLA -4.40 RAL 307.10 RAD 6568.4 VEL 12.498 PTH 2.26 VHP 9.040 DPA -42.03 RAP 299.12 ECC 1.5731

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 2 44	2214.52	-19.57	41.48	176.59	110.89	9 39 38	1614.5	-16.55	34.10
90.00	19 55 13	5132.18	25.13	228.54	179.41	76.50	21 20 45	4532.2	23.02	220.50
100.00	10 22 0	1958.79	-20.77	22.17	176.09	111.99	10 54 39	1358.8	-17.61	14.81
100.00	21 18 37	4863.15	26.39	208.40	179.06	75.42	22 39 40	4263.2	24.12	200.33
110.00	11 25 31	1759.97	-24.00	5.56	174.57	115.11	11 54 50	1160.0	-20.41	358.25
110.00	22 31 36	4634.73	29.77	189.95	177.95	72.36	23 48 51	4034.7	27.07	181.81

DIFFERENTIAL CORRECTIONS
TDE -.7196 TRA-2.6901 TC3 -.2263 BAU .1449
RDE -.0414 RRA .6721 RC3 -.2136 FAU .02024
FDE 1.1113 FRA 2.6044 FC3 -.5032 BSP 9153
BDE .7208 BRA 2.7728 BC3 .3112 FSP -703

MID-COURSE EXECUTION ACCURACY
SGT 2724.4 SGR 702.6 SG3 243.6
RRT -.8460 RRF .8917 RTF -.9425
SGB 2813.5 R23 -.1495 R13 .9472
SG1 2789.6 SG2 365.8 THA 167.47

ORBIT DETERMINATION ACCURACY
ST 1051.6 SR 200.6 SS 1031.3
CRT -.5981 CRS -.4007 CST .9735
LSA 1466.7 MSA 241.5 SSA 16.2
EL1 1058.6 EL2 159.7 ALF 173.34

LAUNCH DATE SEP 11 1965 FLIGHT TIME 136.00 ARRIVAL DATE JAN 25 1966

HELIOCENTRIC CONIC DISTANCE 334.078

RL 150.59 LAL .00 LOL 348.05 VL 26.380 GAL 8.31 AZL 86.42 HCA 135.64 SMA 124.42 ECC .25345 INC 3.5752 V1 29.589
RP 107.48 LAP 2.50 LOP 123.75 VP 37.454 GAP -12.46 AZP 92.56 TAL 153.52 TAP 289.16 RCA 92.88 APO 155.95 V2 35.257
RC 40.219 GL 16.37 GP -20.83 ZAL 42.34 ZAP 22.37 ETS 64.68 ZAE 147.98 ETE 246.26 ZAC 45.82 ETC 129.72 CLP -8.36

PLANETOCENTRIC CONIC

C3 33.356 VHL 5.775 DLA -2.32 RAL 306.66 RAD 6568.3 VEL 12.439 PTH 2.25 VHP 8.708 DPA -43.74 RAP 301.73 ECC 1.5489

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 45 20	2268.72	-20.84	44.94	175.92	109.61	9 23 9	1668.7	-17.98	37.44
90.00	20 9 2	5056.28	23.82	223.36	177.38	74.22	21 33 19	4456.3	21.43	215.50
100.00	10 5 36	2009.81	-22.04	25.43	175.45	110.72	10 39 6	1409.8	-19.02	17.93
100.00	21 31 28	4790.43	25.04	203.42	176.99	73.12	22 51 18	4190.4	22.49	195.55
110.00	11 11 22	1803.92	-25.24	8.37	174.02	113.86	11 41 26	1203.9	-21.80	.91
110.00	22 42 11	4569.08	28.32	185.39	175.76	70.01	23 58 20	3969.1	25.34	177.49

DIFFERENTIAL CORRECTIONS
TDE -.7326 TRA-2.6949 TC3 -.2013 BAU .1404
RDE .0246 RRA .7312 RC3 -.2421 FAU .02091
FDE 1.2069 FRA 2.7292 FC3 -.5428 BSP 9518
BDE .7330 BRA 2.7924 BC3 .3149 FSP -763

MID-COURSE EXECUTION ACCURACY
SGT 2782.4 SGR 778.4 SG3 261.6
RRT -.8751 RRF .9214 RTF -.9465
SGB 2889.2 R23 -.1623 R13 .9522
SG1 2866.0 SG2 365.7 THA 166.01

ORBIT DETERMINATION ACCURACY
ST 1082.8 SR 219.3 SS 1089.0
CRT -.8107 CRS -.6504 CST .9715
LSA 1533.3 MSA 235.0 SSA 15.4
EL1 1097.5 EL2 126.7 ALF 170.55

LAUNCH DATE SEP 11 1965 FLIGHT TIME 138.00 ARRIVAL DATE JAN 27 1966

HELIOCENTRIC CONIC DISTANCE 340.892

RL 150.59 LAL .00 LOL 348.05 VL 26.482 GAL 8.01 AZL 86.01 HCA 138.87 SMA 125.05 ECC .24560 INC 3.9929 V1 29.589
RP 107.48 LAP 2.62 LOP 126.99 VP 37.527 GAP -11.74 AZP 93.01 TAL 153.45 TAP 292.32 RCA 94.34 APO 155.76 V2 35.259
RC 40.263 GL 18.76 GP -23.15 ZAL 43.13 ZAP 25.08 ETS 63.13 ZAE 146.32 ETE 252.61 ZAC 48.57 ETC 129.96 CLP -9.94

PLANETOCENTRIC CONIC

C3 32.232 VHL 5.677 DLA .01 RAL 306.09 RAD 6568.3 VEL 12.394 PTH 2.24 VHP 8.412 DPA -45.72 RAP 304.49 ECC 1.5305

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 25 51	2332.17	-22.24	49.07	175.43	108.00	9 4 43	1732.2	-19.57	41.41
90.00	20 24 2	4975.57	22.22	217.98	175.43	71.99	21 46 58	4375.6	19.56	210.33
100.00	9 47 12	2069.77	-23.43	29.34	175.00	109.12	10 21 42	1469.8	-20.60	21.68
100.00	21 45 23	4713.20	23.42	198.25	174.99	70.87	23 3 56	4113.2	20.59	190.60
110.00	10 55 27	1856.12	-26.63	11.79	173.66	112.27	11 26 24	1256.1	-23.37	4.14
110.00	22 53 37	4499.61	26.62	180.71	173.66	67.71	24 8 36	3899.6	23.36	173.06

DIFFERENTIAL CORRECTIONS
TDE -.7546 TRA-2.7048 TC3 -.1786 BAU .1401
RDE .1007 RRA .8041 RC3 -.2717 FAU .02136
FDE 1.3159 FRA 2.8549 FC3 -.5737 BSP 9811
BDE .7613 BRA 2.8218 BC3 .3251 FSP -822

MID-COURSE EXECUTION ACCURACY
SGT 2841.2 SGR 874.0 SG3 279.8
RRT -.8980 RRF .9446 RTF -.9503
SGB 2972.6 R23 -.1738 R13 .9570
SG1 2949.4 SG2 370.5 THA 164.30

ORBIT DETERMINATION ACCURACY
ST 1118.3 SR 264.0 SS 1151.7
CRT -.9374 CRS -.8262 CST .9701
LSA 1610.4 MSA 230.0 SSA 14.5
EL1 1145.5 EL2 89.8 ALF 167.45

LAUNCH DATE SEP 11 1965 FLIGHT TIME 140.00 ARRIVAL DATE JAN 29 1966

HELIOCENTRIC CONIC DISTANCE 347.690

RL 150.59 LAL .00 LOL 348.05 VL 26.576 GAL 7.72 AZL 85.53 HCA 142.11 SMA 125.64 ECC .23826 INC 4.4685 V1 29.589
RP 107.48 LAP 2.74 LOP 130.24 VP 37.594 GAP -11.04 AZP 93.53 TAL 153.41 TAP 295.51 RCA 95.70 APO 155.57 V2 35.259
RC 40.482 GL 21.45 GP -25.85 ZAL 44.19 ZAP 28.14 ETS 62.07 ZAE 143.98 ETE 258.37 ZAC 51.57 ETC 130.03 CLP -11.54

PLANETOCENTRIC CONIC

C3 31.487 VHL 5.611 DLA 2.60 RAL 305.40 RAD 6568.3 VEL 12.364 PTH 2.23 VHP 8.157 DPA -48.04 RAP 307.47 ECC 1.5182

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 3 50	2406.73	-23.72	54.03	175.19	105.94	8 43 57	1806.7	-21.31	46.19
90.00	20 40 31	4889.23	20.30	212.38	173.60	69.82	22 2 0	4289.2	17.37	204.93
100.00	9 26 23	2140.44	-24.92	34.06	174.79	107.06	10 2 4	1540.4	-22.35	26.21
100.00	22 0 38	4630.75	21.47	192.90	173.12	68.69	23 17 49	4030.8	18.39	185.47
110.00	10 37 25	1918.12	-28.16	15.96	173.57	110.23	11 9 23	1318.1	-25.15	8.08
110.00	23 6 6	4425.84	24.62	175.90	171.68	65.50	24 19 52	3825.8	21.11	168.52

DIFFERENTIAL CORRECTIONS
TDE -.7403 TRA-2.6736 TC3 -.0989 BAU .1368
RDE .1839 RRA .8866 RC3 -.3094 FAU .02279
FDE 1.4099 FRA 2.9463 FC3 -.6266 BSP 11172
BDE .7628 BRA 2.8167 BC3 .3249 FSP -933

MID-COURSE EXECUTION ACCURACY
SGT 2837.5 SGR 988.4 SG3 294.7
RRT -.9198 RRF .9620 RTF -.9546
SGB 3004.8 R23 -.1753 R13 .9624
SG1 2982.0 SG2 369.1 THA 161.95

ORBIT DETERMINATION ACCURACY
ST 1115.2 SR 330.6 SS 1197.9
CRT -.9896 CRS -.9186 CST .9649
LSA 1653.1 MSA 234.4 SSA 12.7
EL1 1162.2 EL2 45.7 ALF 163.63

LAUNCH DATE SEP 11 1965 FLIGHT TIME 142.00 ARRIVAL DATE JAN 31 1966

HELIOCENTRIC CONIC DISTANCE 354.485

RL	150.59	LAL	.00	LOL	348.05	VL	26.663	GAL	7.45	AZL	84.98	HCA	145.34	SMA	126.19	ECC	.23146	INC	5.0185	VI	29.589
RP	107.48	LAP	2.85	LOP	133.49	VP	37.655	GAP	-10.35	AZP	94.13	TAL	153.38	TAP	298.71	RCA	96.98	APO	155.40	V2	35.259
RC	40.875	GL	24.46	GP	-28.98	ZAL	45.55	ZAP	31.59	ETS	61.42	ZAE	140.96	ETE	263.39	ZAC	54.87	ETC	129.98	CLP	-13.14

PLANETOCENTRIC CONIC

C3 31.206 VHL 5.586 DLA 5.50 RAL 304.56 RAD 6568.2 VEL 12.352 PTH 2.23 VHP 7.956 DPA -50.73 RAP 310.81 ECC 1.5136

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 38 47	2494.86	-25.24	60.04	175.29	103.29	8 20 22	1894.9	-23.16	51.99
90.00	20 58 54	4796.59	18.02	206.55	171.98	67.78	22 18 51	4196.6	14.85	199.30
100.00	9 2 43	2224.12	-26.47	39.79	174.95	104.42	9 39 47	1624.1	-24.23	31.71
100.00	22 17 39	4542.56	19.19	187.35	171.46	66.63	23 33 21	3942.6	15.86	180.13
110.00	10 16 55	1991.92	-29.79	21.09	173.87	107.60	10 50 7	1391.9	-27.10	12.93
110.00	23 19 56	4347.53	22.32	170.99	169.90	63.41	24 32 24	3747.5	18.57	163.86

DIFFERENTIAL CORRECTIONS

TDE -.8776 TRA-2.7875 TC3 -.1997 BAU .1569
RDE .3072 RRA 1.0113 RC3 -.3188 FAU .01986
FDE 1.6032 FRA 3.1122 FC3 -.5508 BSP 9165
BDE .9298 BRA 2.9652 BC3 .3762 FSP -861

MID-COURSE EXECUTION ACCURACY

SGT 3018.2 SGR 1145.4 SG3 315.9
RRT -.9248 RRF .9740 RTF -.9564
SGB 3228.2 R23 -.1913 R13 .9662
SG1 3202.0 SG2 410.8 THA 160.32

ORBIT DETERMINATION ACCURACY

ST 1246.1 SR 443.9 SS 1309.6
CRT -.9994 CRS -.9683 CST .9726
LSA 1848.4 MSA 219.7 SSA 12.7
EL1 1322.7 EL2 14.4 ALF 160.40

LAUNCH DATE SEP 11 1965 FLIGHT TIME 144.00 ARRIVAL DATE FEB 2 1966

HELIOCENTRIC CONIC DISTANCE 361.252

RL	150.59	LAL	.00	LOL	348.05	VL	26.743	GAL	7.20	AZL	84.33	HCA	148.57	SMA	126.70	ECC	.22513	INC	5.6663	VI	29.589
RP	107.48	LAP	2.95	LOP	136.74	VP	37.711	GAP	-9.69	AZP	94.84	TAL	153.38	TAP	301.94	RCA	98.18	APO	155.23	V2	35.258
RC	41.437	GL	27.84	GP	-32.64	ZAL	47.29	ZAP	35.48	ETS	61.11	ZAE	137.26	ETE	267.63	ZAC	58.52	ETC	129.84	CLP	-14.74

PLANETOCENTRIC CONIC

C3 31.473 VHL 5.610 DLA 8.73 RAL 303.54 RAD 6568.3 VEL 12.363 PTH 2.23 VHP 7.822 DPA -53.86 RAP 314.69 ECC 1.5180

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 9 44	2599.87	-26.67	67.39	175.79	99.88	7 53 3	1999.9	-25.04	59.11
90.00	21 19 48	4695.88	15.32	200.39	170.64	65.89	22 38 4	4095.9	11.93	193.34
100.00	8 35 19	2323.82	-27.97	46.82	175.52	101.01	9 14 3	1723.8	-26.16	38.49
100.00	22 36 54	4447.15	16.51	181.53	170.07	64.72	23 51 1	3847.2	12.97	174.53
110.00	9 53 14	2079.99	-31.43	27.42	174.63	104.18	10 27 54	1480.0	-29.17	18.95
110.00	23 35 29	4263.75	19.68	165.92	168.38	61.47	24 46 32	3663.8	15.72	159.04

DIFFERENTIAL CORRECTIONS

TDE -.9012 TRA-2.7791 TC3 -.1373 BAU .1576
RDE .4364 RRA 1.1377 RC3 -.3484 FAU .02008
FDE 1.7242 FRA 3.1648 FC3 -.5523 BSP 10279
BDE 1.0013 BRA 3.0030 BC3 .3745 FSP -943

MID-COURSE EXECUTION ACCURACY

SGT 3019.4 SGR 1316.6 SG3 325.3
RRT -.9372 RRF .9826 RTF -.9601
SGB 3293.9 R23 -.1851 R13 .9715
SG1 3266.5 SG2 424.4 THA 157.37

ORBIT DETERMINATION ACCURACY

ST 1260.6 SR 568.4 SS 1362.2
CRT -.9963 CRS -.9870 CST .9703
LSA 1927.8 MSA 227.0 SSA 10.7
EL1 1382.2 EL2 44.7 ALF 155.78

LAUNCH DATE SEP 11 1965 FLIGHT TIME 146.00 ARRIVAL DATE FEB 4 1966

HELIOCENTRIC CONIC DISTANCE 368.001

RL	150.59	LAL	.00	LOL	348.05	VL	26.816	GAL	6.97	AZL	83.55	HCA	151.79	SMA	127.18	ECC	.21928	INC	6.4457	VI	29.589
RP	107.49	LAP	3.04	LOP	140.00	VP	37.762	GAP	-9.04	AZP	95.69	TAL	153.39	TAP	305.18	RCA	99.29	APO	155.07	V2	35.256
RC	42.162	GL	31.62	GP	-36.90	ZAL	49.45	ZAP	39.85	ETS	61.10	ZAE	132.86	ETE	271.16	ZAC	62.60	ETC	129.69	CLP	-16.27

PLANETOCENTRIC CONIC

C3 32.492 VHL 5.700 DLA 12.32 RAL 302.31 RAD 6568.3 VEL 12.404 PTH 2.24 VHP 7.778 DPA -57.45 RAP 319.46 ECC 1.5347

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 35 28	2726.47	-27.83	76.48	176.81	95.47	7 20 54	2126.5	-26.78	67.97
90.00	21 44 14	4585.31	12.14	193.82	169.74	64.22	23 0 39	3985.3	8.57	186.96
100.00	8 3 7	2443.78	-29.22	55.52	176.65	96.60	8 43 51	1843.8	-28.00	46.93
100.00	22 59 16	4343.23	13.39	175.39	169.10	63.02	24 11 39	3743.2	9.67	168.58
110.00	9 25 36	2185.67	-32.93	35.29	176.02	99.74	10 2 2	1585.7	-31.23	26.48
110.00	23 53 16	4174.11	16.68	160.70	167.24	59.72	25 2 50	3574.1	12.53	154.04

DIFFERENTIAL CORRECTIONS

TDE -.9756 TRA-2.8105 TC3 -.1154 BAU .1653
RDE .6069 RRA 1.2952 RC3 -.3626 FAU .01873
FDE 1.8668 FRA 3.1893 FC3 -.4991 BSP 10735
BDE 1.1490 BRA 3.0946 BC3 .3806 FSP -970

MID-COURSE EXECUTION ACCURACY

SGT 3056.2 SGR 1522.7 SG3 330.3
RRT -.9448 RRF .9883 RTF -.9633
SGB 3414.5 R23 -.1765 R13 .9766
SG1 3384.7 SG2 450.4 THA 154.30

ORBIT DETERMINATION ACCURACY

ST 1309.3 SR 729.5 SS 1424.0
CRT -.9894 CRS -.9953 CST .9710
LSA 2054.3 MSA 232.2 SSA 9.1
EL1 1495.9 EL2 92.6 ALF 151.01

LAUNCH DATE SEP 11 1965 FLIGHT TIME 148.00 ARRIVAL DATE FEB 6 1966

HELIOCENTRIC CONIC DISTANCE 374.729

RL	150.59	LAL	.00	LOL	348.05	VL	26.883	GAL	6.75	AZL	82.59	HCA	155.01	SMA	127.62	ECC	.21389	INC	7.4077	VI	29.589
RP	107.49	LAP	3.12	LOP	143.25	VP	37.807	GAP	-8.41	AZP	96.72	TAL	153.42	TAP	308.43	RCA	100.32	APO	154.92	V2	35.254
RC	43.042	GL	35.82	GP	-41.81	ZAL	52.09	ZAP	44.75	ETS	61.37	ZAE	127.75	ETE	274.13	ZAC	67.18	ETC	129.67	CLP	-17.67

PLANETOCENTRIC CONIC

C3 34.583 VHL 5.881 DLA 16.29 RAL 300.81 RAD 6568.4 VEL 12.488 PTH 2.26 VHP 7.860 DPA -61.47 RAP 325.72 ECC 1.5692

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 53 51	2882.07	-28.32	87.82	178.38	89.81	6 41 53	2282.1	-28.04	79.17
90.00	22 13 54	4461.17	8.37	186.66	169.49	62.85	23 28 15	3861.2	4.66	179.94
100.00	7 24 19	2590.31	-29.88	66.35	178.37	90.94	8 7 30	1990.3	-29.43	57.58
100.00	23 26 7	4228.16	9.75	168.79	168.75	61.60	24 36 35	3628.2	5.88	162.14
110.00	8 52 47	2313.52	-33.97	45.12	178.16	94.02	9 31 21	1713.5	-33.04	36.01
110.00	0 18 4	4077.72	13.30	155.28	166.66	58.21	1 26 2	3477.7	9.00	148.82

DIFFERENTIAL CORRECTIONS

TDE-1.0886 TRA-2.8648 TC3 -.1045 BAU .1732
RDE .8304 RRA 1.4815 RC3 -.3596 FAU .01630
FDE 2.0061 FRA 3.1487 FC3 -.4080 BSP 11130
BDE 1.3692 BRA 3.2252 BC3 .3745 FSP -964

MID-COURSE EXECUTION ACCURACY

SGT 3097.7 SGR 1759.2 SG3 326.3
RRT -.9503 RRF .9919 RTF -.9665
SGB 3562.4 R23 -.1626 R13 .9815
SG1 3529.8 SG2 480.4 THA 151.06

ORBIT DETERMINATION ACCURACY

ST 1373.3 SR 926.4 SS 1478.4
CRT -.9838 CRS -.9986 CST .9731
LSA 2207.5 MSA 237.9 SSA 7.6
EL1 1650.8 EL2 138.3 ALF 146.16

LAUNCH DATE SEP 11 1965 FLIGHT TIME 150.00 ARRIVAL DATE FEB 8 1966

HELIOCENTRIC CONIC DISTANCE 381.429

RL 150.59 LAL .00 LOL 348.05 VL 26.945 GAL 6.55 AZL 81.37 HCA 158.22 SMA 128.03 ECC .20896 INC 8.6330 V1 29.589
RP 107.50 LAP 3.19 LOP 146.50 VP 37.848 GAP -7.80 AZP 98.03 TAL 153.45 TAP 311.67 RCA 101.28 APO 154.78 V2 35.250
RC 44.068 GL 40.47 GP -47.44 ZAL 55.25 ZAP 50.17 ETS 61.95 ZAE 121.93 ETE 276.78 ZAC 72.34 ETC 129.98 CLP -18.76

PLANETOCENTRIC CONIC

C3 38.328 VHL 6.191 DLA 20.63 RAL 298.97 RAD 6568.5 VEL 12.637 PTH 2.29 VHP 8.122 DPA -65.76 RAP 334.62 ECC 1.6308

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 0 40	3080.34	-27.42	102.24	180.29	82.65	5 52 0	2480.3	-28.16	93.65
90.00	22 52 24	4314.86	3.74	178.39	170.27	61.91	24 4 18	3714.9	-.05	171.76
100.00	6 35 37	2774.17	-29.30	79.97	180.54	83.81	7 21 51	2174.2	-29.85	71.21
100.00	0 4 4	4096.25	5.40	161.41	169.35	60.55	1 12 20	3496.3	1.44	154.87
110.00	8 12 47	2470.17	-34.05	57.34	181.00	86.80	8 53 57	1870.2	-34.12	48.10
110.00	0 43 23	3973.02	9.47	149.58	166.86	57.00	1 49 36	3373.0	5.06	143.27

DIFFERENTIAL CORRECTIONS
TDE-1.2512 TRA-2.9450 TC3 -.0948 BAU .1783
RDE 1.1262 RRA 1.6915 RC3 -.3348 FAU .01292
FDE 2.1203 FRA 3.0157 FC3 -.2918 BSP 11726
BDE 1.6834 BRA 3.3962 BC3 .3479 FSP -931

MID-COURSE EXECUTION ACCURACY
SGT 3136.3 SGR 2014.0 SG3 310.0
RRT -.9546 RRF .9940 RTF -.9699
SGB 3727.2 R23 -.1439 R13 .9861
SG1 3692.3 SG2 509.5 THA 147.80

ORBIT DETERMINATION ACCURACY
ST 1450.6 SR 1156.8 SS 1513.3
CRT -.9804 CRS -.9998 CST .9762
LSA 2381.8 MSA 243.8 SSA 6.1
EL1 1846.7 EL2 178.8 ALF 141.55

LAUNCH DATE SEP 11 1965 FLIGHT TIME 152.00 ARRIVAL DATE FEB 10 1966

HELIOCENTRIC CONIC DISTANCE 388.097

RL 150.59 LAL .00 LOL 348.05 VL 27.001 GAL 6.37 AZL 79.74 HCA 161.42 SMA 128.40 ECC .20446 INC10.2573 V1 29.589
RP 107.51 LAP 3.25 LOP 149.75 VP 37.884 GAP -7.21 AZP 99.73 TAL 153.49 TAP 314.91 RCA 102.15 APO 154.66 V2 35.247
RC 45.230 GL 45.52 GP -53.76 ZAL 58.98 ZAP 56.06 ETS 63.04 ZAE 115.39 ETE 279.54 ZAC 78.12 ETC 131.03 CLP -19.21

PLANETOCENTRIC CONIC

C3 44.856 VHL 6.697 DLA 25.30 RAL 296.67 RAD 6568.7 VEL 12.893 PTH 2.35 VHP 8.655 DPA -69.86 RAP 348.28 ECC 1.7382

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	3 43 50	3359.24	-23.49	121.67	181.63	73.71	4 39 49	2759.2	-25.50	113.58
90.00	23 50 54	4115.29	-2.69	167.25	172.96	61.80	24 59 29	3515.3	-6.44	160.58
100.00	5 29 5	3019.88	-26.21	97.54	182.47	75.09	6 19 25	2419.9	-28.00	89.20
100.00	0 52 15	3929.88	-.22	152.26	171.59	60.11	1 57 45	3329.9	-4.20	145.73
110.00	7 22 2	2666.53	-32.28	72.37	184.12	78.09	8 6 28	2066.5	-33.58	63.38
110.00	1 15 48	3856.00	5.08	143.37	168.29	56.15	2 20 4	3256.0	.60	137.15

DIFFERENTIAL CORRECTIONS
TDE-1.5158 TRA-3.0879 TC3 -.0976 BAU .1773
RDE 1.5267 RRA 1.9152 RC3 -.2792 FAU .00827
FDE 2.1982 FRA 2.7856 FC3 -.1597 BSP 12307
BDE 2.1514 BRA 3.6336 BC3 .2957 FSP -854

MID-COURSE EXECUTION ACCURACY
SGT 3199.3 SGR 2264.8 SG3 280.4
RRT -.9577 RRF .9950 RTF -.9740
SGB 3919.8 R23 -.1215 R13 .9903
SG1 3882.9 SG2 536.9 THA 145.10

ORBIT DETERMINATION ACCURACY
ST 1565.2 SR 1414.7 SS 1525.6
CRT -.9800 CRS-1.0000 CST .9808
LSA 2591.8 MSA 247.4 SSA 4.8
EL1 2099.4 EL2 209.8 ALF 137.95

LAUNCH DATE SEP 11 1965 FLIGHT TIME 154.00 ARRIVAL DATE FEB 12 1966

HELIOCENTRIC CONIC DISTANCE 394.722

RL 150.59 LAL .00 LOL 348.05 VL 27.052 GAL 6.21 AZL 77.47 HCA 164.60 SMA 128.74 ECC .20041 INC12.5257 V1 29.589
RP 107.53 LAP 3.30 LOP 153.00 VP 37.916 GAP -6.64 AZP 102.09 TAL 153.52 TAP 318.12 RCA 102.94 APO 154.55 V2 35.242
RC 46.516 GL 50.85 GP -60.70 ZAL 63.27 ZAP 62.30 ETS 65.33 ZAE 108.16 ETE 283.30 ZAC 84.58 ETC 133.68 CLP -18.22

PLANETOCENTRIC CONIC

C3 56.565 VHL 7.521 DLA 30.13 RAL 293.75 RAD 6569.0 VEL 13.339 PTH 2.44 VHP 9.623 DPA -72.66 RAP 9.43 ECC 1.9309

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
79.25	0 10 43	4075.21	-13.41	170.00	179.52	62.76	1 18 38	3475.2	-16.95	162.98
100.75	3 4 35	3514.78	-13.39	128.74	179.51	62.75	4 3 10	2914.8	-16.94	121.73
79.25	0 10 43	4075.21	-13.41	170.00	179.52	62.76	1 18 38	3475.2	-16.95	162.98
100.75	3 4 35	3514.78	-13.39	128.74	179.51	62.75	4 3 10	2914.8	-16.94	121.73
110.00	6 12 4	2926.90	-27.10	90.83	186.14	68.32	7 0 51	2326.9	-29.80	82.68
110.00	2 2 25	3711.08	-.45	135.79	171.79	55.82	3 4 16	3111.1	-4.93	129.57

DIFFERENTIAL CORRECTIONS
TDE-1.9844 TRA-3.3542 TC3 -.1105 BAU .1674
RDE 2.0647 RRA 2.1083 RC3 -.1918 FAU .00253
FDE 2.2261 FRA 2.4674 FC3 -.0387 BSP 12920
BDE 2.8636 BRA 3.9618 BC3 .2214 FSP -735

MID-COURSE EXECUTION ACCURACY
SGT 3322.9 SGR 2450.7 SG3 238.2
RRT -.9598 RRF .9945 RTF -.9796
SGB 4128.9 R23 -.0956 R13 .9939
SG1 4090.9 SG2 558.5 THA 143.93

ORBIT DETERMINATION ACCURACY
ST 1752.4 SR 1668.7 SS 1510.6
CRT -.9820 CRS -.9996 CST .9867
LSA 2841.8 MSA 247.5 SSA 3.7
EL1 2408.9 EL2 229.3 ALF 136.43

LAUNCH DATE SEP 11 1965 FLIGHT TIME 156.00 ARRIVAL DATE FEB 14 1966

HELIOCENTRIC CONIC DISTANCE 401.287

RL 150.59 LAL .00 LOL 348.05 VL 27.098 GAL 6.08 AZL 74.07 HCA 167.74 SMA 129.06 ECC .19682 INC15.9293 V1 29.589
RP 107.55 LAP 3.34 LOP 156.25 VP 37.944 GAP -6.09 AZP 105.58 TAL 153.53 TAP 321.26 RCA 103.66 APO 154.46 V2 35.236
RC 47.916 GL 56.18 GP -68.00 ZAL 68.08 ZAP 68.65 ETS 71.18 ZAE 100.24 ETE 290.59 ZAC 91.81 ETC 140.47 CLP -13.59

PLANETOCENTRIC CONIC

C3 79.239 VHL 8.902 DLA 34.80 RAL 289.93 RAD 6569.5 VEL 14.163 PTH 2.58 VHP 11.340 DPA -72.36 RAP 36.40 ECC 2.3041

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
68.86	22 42 16	4371.43	-12.37	191.99	181.56	57.21	23 55 8	3771.4	-16.60	185.39
111.14	3 58 38	3379.20	-12.35	117.80	181.55	57.20	4 54 57	2779.2	-16.59	111.21
68.86	22 42 16	4371.43	-12.37	191.99	181.56	57.21	23 55 8	3771.4	-16.60	185.39
111.14	3 58 38	3379.20	-12.35	117.80	181.55	57.20	4 54 57	2779.2	-16.59	111.21
68.86	22 42 16	4371.43	-12.37	191.99	181.56	57.21	23 55 8	3771.4	-16.60	185.39
111.14	3 58 38	3379.20	-12.35	117.80	181.55	57.20	4 54 57	2779.2	-16.59	111.21

DIFFERENTIAL CORRECTIONS
TDE-2.9696 TRA-3.9154 TC3 -.1370 BAU .1723
RDE 2.6804 RRA 2.0845 RC3 -.0877 FAU-.00407
FDE 2.2096 FRA 2.1034 FC3 .0445 BSP 13574
BDE 4.0003 BRA 4.4357 BC3 .1627 FSP -591

MID-COURSE EXECUTION ACCURACY
SGT 3623.9 SGR 2381.3 SG3 188.3
RRT -.9588 RRF .9897 RTF -.9876
SGB 4336.3 R23 -.0659 R13 .9969
SG1 4298.7 SG2 570.1 THA 147.14

ORBIT DETERMINATION ACCURACY
ST 2121.6 SR 1793.5 SS 1475.3
CRT -.9852 CRS -.9983 CST .9935
LSA 3136.2 MSA 242.0 SSA 2.8
EL1 2768.1 EL2 235.5 ALF 139.86

LAUNCH DATE SEP 11 1965 FLIGHT TIME 158.00 ARRIVAL DATE FEB 16 1966

HELIOCENTRIC CONIC DISTANCE 407.748

RL	150.59	LAL	.00	LOL	348.05	VL	27.139	GAL	5.97	AZL	68.41	HCA	170.81	SMA	129.34	ECC	.19373	INC	21.5934
RP	107.56	LAP	3.37	LOP	159.50	VP	37.968	GAP	-5.58	AZP	111.34	TAL	153.48	TAP	324.29	RCA	104.28	APO	154.39
RC	49.420	GL	60.77	GP	-74.79	ZAL	73.26	ZAP	74.80	ETS	90.65	ZAE	91.50	ETE	311.49	ZAC	100.14	ETC	161.51

V1	29.589	V2	35.230	CLP	1.99														

PLANETOCENTRIC CONIC

C3	129.562	VHL	11.383	DLA	38.57	RAL	284.83	RAD	6570.4	VEL	15.840	PTH	2.80	VHP	14,510	OPA	-67.77	RAP	59.34

ECC	3.1323																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
62.64	21 48 47	4573.86	-9.24	206.06	183.07	52.39	23 5 1	3973.9	-14.06	199.95
117.36	4 11 29	3385.49	-9.23	116.06	183.06	52.38	5 7 55	2785.5	-14.04	109.96
62.64	21 48 47	4573.86	-9.24	206.06	183.07	52.39	23 5 1	3973.9	-14.06	199.95
117.36	4 11 29	3385.49	-9.23	116.06	183.06	52.38	5 7 55	2785.5	-14.04	109.96
62.64	21 48 47	4573.86	-9.24	206.06	183.07	52.39	23 5 1	3973.9	-14.06	199.95
117.36	4 11 29	3385.49	-9.23	116.06	183.06	52.38	5 7 55	2785.5	-14.04	109.96

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-5.5687	TRA	-5.1499	TC3	-.1928	BAU	.3380	SGT	4363.8	SGR	1161.4	SG3	138.7	ST	2974.4	SR	1077.7	SS	1456.6
RDE	2.1243	RRA	.6959	RC3	-.0299	FAU	-.01194	RRT	-.8786	RRF	.9052	RTF	-.9977	CRT	-.9768	CRS	-.9847	CST	.9992
FDE	2.2050	FRA	1.7793	FC3	.0798	BSP	14142	SGB	4515.7	R23	-.0315	R13	.9990	LSA	3476.0	MSA	218.8	SSA	2.0
BDE	5.9602	BRA	5.1967	BC3	.1952	FSP	-443	SG1	4483.4	SG2	539.8	THA	166.64	EL1	3156.1	EL2	217.7	ALF	160.41

LAUNCH DATE SEP 11 1965 FLIGHT TIME 160.00 ARRIVAL DATE FEB 18 1966

HELIOCENTRIC CONIC DISTANCE 413.982

RL	150.59	LAL	.00	LOL	348.05	VL	27.176	GAL	5.92	AZL	57.39	HCA	173.71	SMA	129.59	ECC	.19132	INC	32.6111
RP	107.58	LAP	3.39	LOP	162.74	VP	37.988	GAP	-5.13	AZP	122.45	TAL	153.30	TAP	327.01	RCA	104.80	APO	154.39
RC	51.018	GL	62.59	GP	-76.57	ZAL	78.55	ZAP	80.34	ETS	146.05	ZAE	81.18	ETE	7.88	ZAC	110.82	ETC	218.89

V1	29.589	V2	35.224	CLP	43.77														

PLANETOCENTRIC CONIC

C3	269.287	VHL	16.410	DLA	39.53	RAL	278.06	RAD	6571.6	VEL	19.764	PTH	3.12	VHP	20.997	OPA	-58.62	RAP	73.08

ECC	5.4318																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
61.18	21 14 50	4711.36	-4.40	213.66	182.73	50.68	22 33 22	4111.4	-9.43	207.81
118.82	3 51 25	3483.28	-4.38	120.34	182.72	50.68	4 49 29	2883.3	-9.42	114.49
61.18	21 14 50	4711.36	-4.40	213.66	182.73	50.68	22 33 22	4111.4	-9.43	207.81
118.82	3 51 25	3483.28	-4.38	120.34	182.72	50.68	4 49 29	2883.3	-9.42	114.49
61.18	21 14 50	4711.36	-4.40	213.66	182.73	50.68	22 33 22	4111.4	-9.43	207.81
118.82	3 51 25	3483.28	-4.38	120.34	182.72	50.68	4 49 29	2883.3	-9.42	114.49

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-7.3509	TRA	-4.0532	TC3	-.1975	BAU	1.0138	SGT	3220.8	SGR	3295.2	SG3	99.0	ST	2625.0	SR	2289.9	SS	1560.7
RDE	-6.2295	RRA	-5.2709	RC3	-.2008	FAU	-.02466	RRT	.9787	RRF	-.9948	RTF	-.9938	CRT	.9943	CRS	.9985	CST	.9987
FDE	2.3792	FRA	1.6455	FC3	.0793	BSP	14399	SGB	4607.8	R23	-.0022	R13	-.9997	LSA	3812.6	MSA	184.2	SSA	1.5
BDE	9.6355	BRA	6.6491	BC3	.2616	FSP	-320	SG1	4583.2	SG2	475.2	THA	45.67	EL1	3478.6	EL2	184.0	ALF	41.08

LAUNCH DATE SEP 11 1965 FLIGHT TIME 162.00 ARRIVAL DATE FEB 20 1966

HELIOCENTRIC CONIC DISTANCE 419.512

RL	150.59	LAL	.00	LOL	348.05	VL	27.209	GAL	6.00	AZL	31.24	HCA	176.03	SMA	129.82	ECC	.19036	INC	58.7555
RP	107.61	LAP	3.39	LOP	165.99	VP	38.005	GAP	-4.86	AZP	148.69	TAL	152.69	TAP	328.72	RCA	105.11	APO	154.53
RC	52.701	GL	55.51	GP	-63.82	ZAL	83.25	ZAP	84.66	ETS	176.72	ZAE	66.60	ETE	36.67	ZAC	128.19	ETC	250.70

V1	29.589	V2	35.216	CLP	77.83														

PLANETOCENTRIC CONIC

C3	787.905	VHL	28.070	DLA	32.06	RAL	270.02	RAD	6572.8	VEL	30.153	PTH	3.45	VHP	36.062	OPA	-41.65	RAP	78.98

ECC	13.9669																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
74.29	21 56 50	4584.47	-.23	200.61	179.68	57.94	23 13 14	3984.5	-4.46	194.23
105.71	2 5 17	3801.11	-.21	142.57	179.67	57.94	3 8 38	3201.1	-4.44	136.20
74.29	21 56 50	4584.47	-.23	200.61	179.68	57.94	23 13 14	3984.5	-4.46	194.23
105.71	2 5 17	3801.11	-.21	142.57	179.67	57.94	3 8 38	3201.1	-4.44	136.20
110.00	4 3 15	3436.11	-10.82	121.26	186.40	57.37	5 0 32	2836.1	-15.05	114.71
110.00	1 1 58	3997.50	10.38	150.90	172.94	57.25	2 8 35	3397.5	5.99	144.56

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-6.6335	TRA	-1.3202	TC3	-.1243	BAU	3.4344	SGT	1556.1	SGR	4083.4	SG3	76.4	ST	1357.6	SR	2984.9	SS	2003.0
RDE	-14.2176	RRA	-9.6380	RC3	-.3014	FAU	-.06233	RRT	.9204	RRF	-.9997	RTF	-.9246	CRT	.9864	CRS	1.0000	CST	.9870
FDE	3.0647	FRA	2.0432	FC3	.0685	BSP	13522	SGB	4369.9	R23	-.0359	R13	-.9991	LSA	3836.9	MSA	207.8	SSA	1.6
BDE	15.6889	BRA	9.7280	BC3	.3260	FSP	-245	SG1	4332.1	SG2	573.5	THA	70.31	EL1	3272.8	EL2	203.6	ALF	65.74

LAUNCH DATE SEP 11 1965 FLIGHT TIME 164.00 ARRIVAL DATE FEB 22 1966

HELIOCENTRIC CONIC DISTANCE 431.247

RL	150.59	LAL	.00	LOL	348.05	VL	27.238	GAL	5.00	AZL	160.79	HCA	183.59	SMA	130.02	ECC	.18010	INC	70.7872
RP	107.63	LAP	3.39	LOP	169.24	VP	38.018	GAP	-3.07	AZP	19.25	TAL	156.04	TAP	339.63	RCA	106.60	APO	153.44
RC	54.462	GL	-50.87	GP	57.45	ZAL	85.09	ZAP	87.06	ETS	190.87	ZAE	75.84	ETE	322.21	ZAC	107.68	ETC	108.10

V1	29.589	V2	35.208	CLP	84.53														

PLANETOCENTRIC CONIC

C3	1091.221	VHL	33.034	DLA	-74.17	RAL	260.37	RAD	6573.0	VEL	34.821	PTH	3.51	VHP	42.565	OPA	76.28	RAP	32.97

ECC	18.9587																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
18.05	5 58 32	2452.86	-.65	80.61	170.54	164.17	6 39 25	1852.9	7.04	78.83
161.95	16 46 34	676.59	-.65	285.60	170.57	164.17	16 57 51	76.6	7.05	283.83
18.05	5 58 32	2452.86	-.65	80.61	170.54	164.17	6 39 25	1852.9	7.04	78.83
161.95	16 46 34	676.59	-.65	285.60	170.57	164.17	16 57 51	76.6	7.05	283.83
18.05	5 58 32	2452.86	-.65	80.61	170.54	164.17	6 39 25	1852.9	7.04	78.83
161.95	16 46 34	676.59	-.65	285.60	170.57	164.17	16 57 51	76.6	7.05	283.83

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	10.8018	TRA	-.4300	TC3	-.1671	BAU	4.8126	SGT	2191.8	SGR	3590.5	SG3	76.3	ST	1875.6	SR	2639.0	SS	2522.1
RDE	-14.9501	RRA	2.5536	RC3	.2844	FAU	-.08391	RRT	-.9374	RRF	.9975	RTF	-.9571	CRT	-.9899	CRS	-.9996	CST	.9936
FDE	-3.9048	FRA	.5610	FC3	.0666	BSP	12741	SGB	4206.6	R23	-.0303	R13	.9991	LSA	4098.2	MSA	219.9	SSA	2.8
BDE	18.4441	BRA	2.5896	BC3	.3299	FSP	-233	SG1	4154.6	SG2	659.7	THA	120.63	EL1	3230.4	EL2	216.8	ALF	125.31

LAUNCH DATE SEP 11 1965 FLIGHT TIME 166.00 ARRIVAL DATE FEB 24 1966

HELIOCENTRIC CONIC DISTANCE 436.330

RL 150.59 LAL .00 LOL 348.05 VL 27.264 GAL 5.19 AZL 127.39 HCA 185.56 SMA 130.20 ECC .18026 INC37.3856 V1 29.589
RP 107.66 LAP 3.38 LOP 172.48 VP 38.028 GAP -2.92 AZP 52.74 TAL 155.09 TAP 340.65 RCA 106.73 APO 153.67 V2 35.200
RC 56.291 GL -62.65 GP 76.59 ZAL 80.95 ZAP 84.96 ETS 214.66 ZAE 91.74 ETE 340.87 ZAC 87.96 ETC 127.33 CLP 67.73

PLANETOCENTRIC CONIC

C3 344.490 VHL 18.560 DLA -84.79 RAL 315.27 RAD 6571.9 VEL 21.582 PTH 3.22 VHP 23.831 DPA 74.16 RAP 308.84 ECC 6.6694

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
5.92	9 13 42	2386.66	4.90	86.22	224.81	174.77	9 53 29	1786.7	12.87	85.89
174.08	20 49 22	5866.31	4.90	257.31	224.83	174.77	22 27 8	5266.3	12.87	256.99
5.92	9 13 42	2386.66	4.90	86.22	224.81	174.77	9 53 29	1786.7	12.87	85.89
174.08	20 49 22	5866.31	4.90	257.31	224.83	174.77	22 27 8	5266.3	12.87	256.99
5.92	9 13 42	2386.66	4.90	86.22	224.81	174.77	9 53 29	1786.7	12.87	85.89
174.08	20 49 22	5866.31	4.90	257.31	224.83	174.77	22 27 8	5266.3	12.87	256.99

DIFFERENTIAL CORRECTIONS

TDE 3.4117 TRA-1.0269 TC3 -.2378 BAU 1.5065
RDE -.2177 RRA .9240 RC3 .2246 FAU-.02794
FDE -.6329 FRA .3220 FC3 .0702 BSP 15027
BDE 3.4187 BRA 1.3814 BC3 .3271 FSP -303

MID-COURSE EXECUTION ACCURACY

SGT 3752.6 SGR 3251.5 SG3 98.7
RRT -.9653 RRF .9883 RTF -.9936
SGB 4965.3 R23 .0009 R13 .9998
SG1 4922.9 SG2 646.9 THA 139.24

ORBIT DETERMINATION ACCURACY

ST 1485.7 SR 945.3 SS 787.1
CRT -.7539 CRS -.8937 CST .9685
LSA 1847.6 MSA 553.9 SSA 1.3
EL1 1672.3 EL2 551.8 ALF 150.91

LAUNCH DATE SEP 11 1965 FLIGHT TIME 168.00 ARRIVAL DATE FEB 26 1966

HELIOCENTRIC CONIC DISTANCE 442.368

RL 150.59 LAL .00 LOL 348.05 VL 27.286 GAL 5.21 AZL 113.68 HCA 188.36 SMA 130.35 ECC .17929 INC23.6827 V1 29.589
RP 107.69 LAP 3.35 LOP 175.72 VP 38.036 GAP -2.54 AZP 66.54 TAL 154.78 TAP 343.14 RCA 106.98 APO 153.72 V2 35.191
RC 58.184 GL -63.09 GP 82.94 ZAL 76.14 ZAP 83.17 ETS 263.11 ZAE 100.86 ETE 26.25 ZAC 77.68 ETC 171.31 CLP 14.50

PLANETOCENTRIC CONIC

C3 149.823 VHL 12.240 DLA -80.86 RAL 347.11 RAD 6570.6 VEL 16.467 PTH 2.87 VHP 15.579 DPA 64.95 RAP 294.84 ECC 3.4657

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
10.40	11 29 21	2263.04	12.90	82.92	254.99	170.62	12 7 4	1663.0	20.79	81.94
169.60	22 47 48	5750.58	12.90	258.29	255.01	170.62	24 23 39	5150.6	20.79	257.32
10.40	11 29 21	2263.04	12.90	82.92	254.99	170.62	12 7 4	1663.0	20.79	81.94
169.60	22 47 48	5750.58	12.90	258.29	255.01	170.62	24 23 39	5150.6	20.79	257.32
10.40	11 29 21	2263.04	12.90	82.92	254.99	170.62	12 7 4	1663.0	20.79	81.94
169.60	22 47 48	5750.58	12.90	258.29	255.01	170.62	24 23 39	5150.6	20.79	257.32

DIFFERENTIAL CORRECTIONS

TDE-4.0639 TRA-1.5722 TC3 -.2316 BAU .4673
RDE .6928 RRA -.2495 RC3 .0277 FAU-.00916
FDE 1.2722 FRA .5037 FC3 .0529 BSP 16074
BDE 4.1225 BRA 1.5919 BC3 .2333 FSP -442

MID-COURSE EXECUTION ACCURACY

SGT 5039.6 SGR 806.4 SG3 138.6
RRT .6768 RRF -.6873 RTF -.9995
SGB 5103.7 R23 -.0021 R13 -.9996
SG1 5069.5 SG2 590.2 THA 6.27

ORBIT DETERMINATION ACCURACY

ST 2355.9 SR 392.2 SS 1000.8
CRT -.3360 CRS -.3255 CST .9999
LSA 2563.1 MSA 369.3 SSA 1.8
EL1 2359.7 EL2 368.8 ALF 176.72

LAUNCH DATE SEP 11 1965 FLIGHT TIME 170.00 ARRIVAL DATE FEB 28 1966

HELIOCENTRIC CONIC DISTANCE 448.659

RL 150.59 LAL .00 LOL 348.05 VL 27.305 GAL 5.20 AZL 107.01 HCA 191.39 SMA 130.49 ECC .17820 INC17.0093 V1 29.589
RP 107.72 LAP 3.31 LOP 178.96 VP 38.041 GAP -2.10 AZP 73.31 TAL 154.62 TAP 346.01 RCA 107.23 APO 153.74 V2 35.181
RC 60.133 GL -59.81 GP 80.47 ZAL 71.44 ZAP 82.18 ETS 299.26 ZAE 107.03 ETE 59.76 ZAC 71.01 ETC 202.88 CLP -34.70

PLANETOCENTRIC CONIC

C3 84.691 VHL 9.203 DLA -76.11 RAL 344.05 RAD 6569.7 VEL 14.354 PTH 2.61 VHP 11.548 DPA 58.31 RAP 291.31 ECC 2.3938

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
15.83	11 27 51	2138.80	20.35	77.60	248.78	165.16	12 3 30	1538.8	28.07	75.70
164.17	22 24 52	5642.10	20.35	258.28	248.80	165.16	23 58 54	5042.1	28.07	256.38
15.83	11 27 51	2138.80	20.35	77.60	248.78	165.16	12 3 30	1538.8	28.07	75.70
164.17	22 24 52	5642.10	20.35	258.28	248.80	165.16	23 58 54	5042.1	28.07	256.38
15.83	11 27 51	2138.80	20.35	77.60	248.78	165.16	12 3 30	1538.8	28.07	75.70
164.17	22 24 52	5642.10	20.35	258.28	248.80	165.16	23 58 54	5042.1	28.07	256.38

DIFFERENTIAL CORRECTIONS

TDE-2.5780 TRA-1.3266 TC3 -.1312 BAU .1527
RDE-1.2948 RRA-1.3229 RC3 .0314 FAU .00138
FDE 1.2483 FRA .8281 FC3 -.0141 BSP 16212
BDE 2.8849 BRA 1.8735 BC3 .1349 FSP -625

MID-COURSE EXECUTION ACCURACY

SGT 3803.5 SGR 3524.1 SG3 197.3
RRT .9758 RRF -.9932 RTF -.9932
SGB 5185.1 R23 -.0085 R13 -.9993
SG1 5153.8 SG2 569.1 THA 42.76

ORBIT DETERMINATION ACCURACY

ST 1908.2 SR 1307.2 SS 1007.1
CRT .9444 CRS .9771 CST .9927
LSA 2497.0 MSA 359.1 SSA 2.5
EL1 2285.0 EL2 358.8 ALF 33.85

LAUNCH DATE SEP 11 1965 FLIGHT TIME 172.00 ARRIVAL DATE MAR 2 1966

HELIOCENTRIC CONIC DISTANCE 455.030

RL 150.59 LAL .00 LOL 348.05 VL 27.321 GAL 5.19 AZL 103.14 HCA 194.51 SMA 130.60 ECC .17725 INC13.1431 V1 29.589
RP 107.75 LAP 3.27 LOP 182.20 VP 38.043 GAP -1.65 AZP 77.26 TAL 154.51 TAP 349.02 RCA 107.45 APO 153.75 V2 35.171
RC 62.133 GL -55.49 GP 76.28 ZAL 67.07 ZAP 82.05 ETS 317.64 ZAE 111.71 ETE 75.87 ZAC 65.90 ETC 216.75 CLP -54.32

PLANETOCENTRIC CONIC

C3 56.377 VHL 7.508 DLA -71.48 RAL 338.69 RAD 6569.0 VEL 13.332 PTH 2.44 VHP 9.246 DPA 53.11 RAP 289.57 ECC 1.9278

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
21.15	11 17 24	2031.29	26.01	71.16	239.27	159.30	11 51 15	1431.3	33.45	68.20
158.85	21 52 33	5557.06	26.01	257.23	239.29	159.30	23 25 10	4957.1	33.46	254.27
21.15	11 17 24	2031.29	26.01	71.16	239.27	159.30	11 51 15	1431.3	33.45	68.20
158.85	21 52 33	5557.06	26.01	257.23	239.29	159.30	23 25 10	4957.1	33.46	254.27
21.15	11 17 24	2031.29	26.01	71.16	239.27	159.30	11 51 15	1431.3	33.45	68.20
158.85	21 52 33	5557.06	26.01	257.23	239.29	159.30	23 25 10	4957.1	33.46	254.27

DIFFERENTIAL CORRECTIONS

TDE-1.4595 TRA -.9574 TC3 -.0955 BAU .1562
RDE-1.2224 RRA-1.8408 RC3 .1839 FAU .01030
FDE 1.1303 FRA 1.2428 FC3 -.1582 BSP 16339
BDE 1.9038 BRA 2.0748 BC3 .2072 FSP -859

MID-COURSE EXECUTION ACCURACY

SGT 2559.1 SGR 4527.2 SG3 269.3
RRT .9638 RRF -.9972 RTF -.9769
SGB 5200.4 R23 -.0047 R13 -.9990
SG1 5165.9 SG2 597.6 THA 60.99

ORBIT DETERMINATION ACCURACY

ST 1310.1 SR 1621.6 SS 993.2
CRT .9197 CRS .9882 CST .9690
LSA 2272.9 MSA 408.0 SSA 3.4
EL1 2044.4 EL2 407.9 ALF 51.58

LAUNCH DATE SEP 11 1965 FLIGHT TIME 174.00 ARRIVAL DATE MAR 4 1966

HELIOCENTRIC CONIC DISTANCE 461.427

RL 150.59 LAL .00 LOL 348.05 VL 27.334 GAL 5.18 AZL 100.63 HCA 197.67 SMA 130.69 ECC .17649 INC10.6289 V1 29.589
RP 107.78 LAP 3.21 LOP 185.43 VP 38.042 GAP -1.19 AZP 79.86 TAL 154.40 TAP 352.06 RCA 107.63 APO 153.76 V2 35.160
RC 64.180 GL -50.98 GP 72.36 ZAL 63.11 ZAP 82.75 ETS 329.27 ZAE 115.47 ETE 85.71 ZAC 61.58 ETC 224.09 CLP -65.40

PLANETOCENTRIC CONIC

C3 41.765 VHL 6.463 DLA -67.00 RAL 334.23 RAD 6568.6 VEL 12.772 PTH 2.32 VHP 7.783 DPA 48.75 RAP 288.21 ECC 1.6874

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
26.35	11 10 52	1941.71	29.77	64.07	230.17	153.25	11 43 13	1341.7	36.84	60.00
153.65	21 23 30	5496.85	29.78	255.66	230.19	153.25	22 55 7	4896.9	36.84	251.58
26.35	11 10 52	1941.71	29.77	64.07	230.17	153.25	11 43 13	1341.7	36.84	60.00
153.65	21 23 30	5496.85	29.78	255.66	230.19	153.25	22 55 7	4896.9	36.84	251.58
26.35	11 10 52	1941.71	29.77	64.07	230.17	153.25	11 43 13	1341.7	36.84	60.00
153.65	21 23 30	5496.85	29.78	255.66	230.19	153.25	22 55 7	4896.9	36.84	251.58

DIFFERENTIAL CORRECTIONS
TDE -.9164 TRA -.6266 TC3 -.1238 BAU .2203
RDE -.9546 RRA-2.1273 RC3 .3747 FAU .01879
FDE 1.0567 FRA 1.7311 FC3 -.3894 BSP 16347
BDE 1.3232 BRA 2.2177 BC3 .3946 FSP -1128

MID-COURSE EXECUTION ACCURACY
SGT 1645.4 SGR 4924.6 SG3 351.6
RRT .9223 RRF -.9979 RTF -.9358
SGB 5192.2 R23 .0031 R13 -.9987
SG1 5156.6 SG2 607.2 THA 72.62

ORBIT DETERMINATION ACCURACY
ST 917.6 SR 1677.3 SS 1012.4
CRT .8480 CRS .9898 CST .9148
LSA 2118.4 MSA 439.0 SSA 4.3
EL1 1861.0 EL2 438.3 ALF 63.53

LAUNCH DATE SEP 11 1965 FLIGHT TIME 176.00 ARRIVAL DATE MAR 6 1966

HELIOCENTRIC CONIC DISTANCE 467.827

RL 150.59 LAL .00 LOL 348.05 VL 27.344 GAL 5.19 AZL 98.86 HCA 200.84 SMA 130.76 ECC .17596 INC 8.8597 V1 29.589
RP 107.81 LAP 3.14 LOP 188.67 VP 38.040 GAP -.73 AZP 81.71 TAL 154.28 TAP 355.12 RCA 107.76 APO 153.77 V2 35.149
RC 66.268 GL -46.60 GP 68.79 ZAL 59.55 ZAP 84.21 ETS 338.16 ZAE 118.55 ETE 93.39 ZAC 57.69 ETC 229.01 CLP -73.80

PLANETOCENTRIC CONIC

C3 33.320 VHL 5.772 DLA -62.74 RAL 330.79 RAD 6568.3 VEL 12.438 PTH 2.25 VHP 6.787 DPA 44.89 RAP 286.84 ECC 1.5484

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
31.35	11 8 41	1866.59	31.94	56.80	222.04	147.33	11 39 48	1266.6	38.56	51.70
148.65	20 58 14	5457.87	31.95	254.03	222.06	147.33	22 29 12	4857.9	38.57	248.93
31.35	11 8 41	1866.59	31.94	56.80	222.04	147.33	11 39 48	1266.6	38.56	51.70
148.65	20 58 14	5457.87	31.95	254.03	222.06	147.33	22 29 12	4857.9	38.57	248.93
31.35	11 8 41	1866.59	31.94	56.80	222.04	147.33	11 39 48	1266.6	38.56	51.70
148.65	20 58 14	5457.87	31.95	254.03	222.06	147.33	22 29 12	4857.9	38.57	248.93

DIFFERENTIAL CORRECTIONS
TDE -.6200 TRA -.3070 TC3 -.2046 BAU .2681
RDE -.7570 RRA-2.3002 RC3 .5660 FAU .02713
FDE 1.0375 FRA 2.2730 FC3 -.7048 BSP 16314
BDE .9785 BRA 2.3206 BC3 .6019 FSP -1422

MID-COURSE EXECUTION ACCURACY
SGT 936.5 SGR 5082.9 SG3 440.4
RRT .7612 RRF -.9979 RTF -.7788
SGB 5168.5 R23 .0129 R13 -.9983
SG1 5133.4 SG2 601.3 THA 81.90

ORBIT DETERMINATION ACCURACY
ST 647.0 SR 1673.6 SS 1056.2
CRT .7025 CRS .9898 CST .7967
LSA 2033.5 MSA 447.5 SSA 5.2
EL1 1738.7 EL2 443.3 ALF 73.72

LAUNCH DATE SEP 11 1965 FLIGHT TIME 178.00 ARRIVAL DATE MAR 8 1966

HELIOCENTRIC CONIC DISTANCE 474.218

RL 150.59 LAL .00 LOL 348.05 VL 27.352 GAL 5.20 AZL 97.54 HCA 204.03 SMA 130.82 ECC .17566 INC 7.5421 V1 29.589
RP 107.85 LAP 3.06 LOP 191.90 VP 38.035 GAP -.27 AZP 83.10 TAL 154.14 TAP 358.17 RCA 107.84 APO 153.80 V2 35.138
RC 68.394 GL -42.46 GP 65.46 ZAL 56.37 ZAP 86.33 ETS 345.65 ZAE 121.07 ETE 100.27 ZAC 54.03 ETC 232.90 CLP -81.13

PLANETOCENTRIC CONIC

C3 28.049 VHL 5.296 DLA -58.72 RAL 328.14 RAD 6568.1 VEL 12.224 PTH 2.20 VHP 6.077 DPA 41.36 RAP 285.37 ECC 1.4616

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
36.14	11 10 2	1801.94	32.90	49.68	214.98	141.80	11 40 4	1201.9	39.03	43.74
143.86	20 35 46	5436.10	32.91	252.70	215.00	141.80	22 6 22	4836.1	39.04	246.75
36.14	11 10 2	1801.94	32.90	49.68	214.98	141.80	11 40 4	1201.9	39.03	43.74
143.86	20 35 46	5436.10	32.91	252.70	215.00	141.80	22 6 22	4836.1	39.04	246.75
36.14	11 10 2	1801.94	32.90	49.68	214.98	141.80	11 40 4	1201.9	39.03	43.74
143.86	20 35 46	5436.10	32.91	252.70	215.00	141.80	22 6 22	4836.1	39.04	246.75

DIFFERENTIAL CORRECTIONS
TDE -.4337 TRA .0152 TC3 -.3325 BAU .3016
RDE -.6333 RRA-2.4028 RC3 .7322 FAU .03501
FDE 1.0704 FRA 2.8525 FC3-1.0807 BSP 16158
BDE .7675 BRA 2.4028 BC3 .8042 FSP -1719

MID-COURSE EXECUTION ACCURACY
SGT 587.5 SGR 5112.6 SG3 532.5
RRT -.0366 RRF -.9979 RTF .0131
SGB 5146.2 R23 .0239 R13 -.9978
SG1 5112.6 SG2 587.1 THA 90.24

ORBIT DETERMINATION ACCURACY
ST 469.4 SR 1651.0 SS 1116.4
CRT .3961 CRS .9891 CST .5270
LSA 1999.5 MSA 441.3 SSA 6.1
EL1 1662.2 EL2 428.1 ALF 83.12

LAUNCH DATE SEP 11 1965 FLIGHT TIME 180.00 ARRIVAL DATE MAR 10 1966

HELIOCENTRIC CONIC DISTANCE 480.596

RL 150.59 LAL .00 LOL 348.05 VL 27.358 GAL 5.23 AZL 96.52 HCA 207.22 SMA 130.86 ECC .17560 INC 6.5181 V1 29.589
RP 107.89 LAP 2.98 LOP 195.13 VP 38.028 GAP .18 AZP 84.20 TAL 153.97 TAP 1.19 RCA 107.88 APO 153.84 V2 35.126
RC 70.553 GL -38.59 GP 62.28 ZAL 53.53 ZAP 89.02 ETS 352.22 ZAE 123.12 ETE 106.85 ZAC 50.49 ETC 236.28 CLP -87.89

PLANETOCENTRIC CONIC

C3 24.584 VHL 4.958 DLA -54.96 RAL 326.08 RAD 6568.0 VEL 12.081 PTH 2.16 VHP 5.557 DPA 38.04 RAP 283.81 ECC 1.4046

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
40.70	11 14 9	1744.43	32.99	42.89	208.99	136.81	11 43 13	1144.4	38.63	36.31
139.30	20 15 12	5428.30	33.00	251.88	209.00	136.80	21 45 40	4828.3	38.64	245.29
40.70	11 14 9	1744.43	32.99	42.89	208.99	136.81	11 43 13	1144.4	38.63	36.31
139.30	20 15 12	5428.30	33.00	251.88	209.00	136.80	21 45 40	4828.3	38.64	245.29
40.70	11 14 9	1744.43	32.99	42.89	208.99	136.81	11 43 13	1144.4	38.63	36.31
139.30	20 15 12	5428.30	33.00	251.88	209.00	136.80	21 45 40	4828.3	38.64	245.29

DIFFERENTIAL CORRECTIONS
TDE -.2976 TRA .3437 TC3 -.4967 BAU .3289
RDE -.5534 RRA-2.4441 RC3 .8689 FAU .04257
FDE 1.1397 FRA 3.4376 FC3-1.4993 BSP 16073
BDE .6283 BRA 2.4681 BC3 1.0009 FSP -2021

MID-COURSE EXECUTION ACCURACY
SGT 916.3 SGR 5035.3 SG3 622.0
RRT -.7821 RRF -.9977 RTF .7682
SGB 5118.0 R23 .0354 R13 -.9972
SG1 5086.7 SG2 565.2 THA 98.20

ORBIT DETERMINATION ACCURACY
ST 401.9 SR 1608.7 SS 1180.6
CRT -.1343 CRS .9878 CST .0215
LSA 1990.1 MSA 427.2 SSA 6.9
EL1 1609.7 EL2 398.0 ALF 92.05

LAUNCH DATE SEP 11 1965 FLIGHT TIME 182.00 ARRIVAL DATE MAR 12 1966

HELIOCENTRIC CONIC DISTANCE 486.956

RL	150.59	LAL	.00	LOL	348.05	VL	27.362	GAL	5.27	AZL	95.70	HCA	210.42	SMA	130.89	ECC	.17577	INC	5.6951	VI	29.589
RP	107.92	LAP	2.88	LOP	198.35	VP	38.019	GAP	.63	AZP	85.08	TAL	153.77	TAP	4.20	RCA	107.88	APO	153.89	V2	35.114
RC	72.741	GL	-34.99	GP	59.18	ZAL	51.01	ZAP	92.18	ETS	358.06	ZAE	124.73	ETE	113.30	ZAC	47.03	ETC	239.34	CLP	-94.26

PLANETOCENTRIC CONIC

C3	22.230	VHL	4.715	DLA	-51.46	RAL	324.45	RAD	6567.9	VEL	11.984	PTH	2.14	VHP	5.174	DPA	34.83	RAP	282.19	ECC	1.3659

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
45.06	11 20 30	1691.52	32.48	36.50	203.97	132.39	11 48 42	1091.5	37.65	29.46
134.94	19 55 51	5432.07	32.49	251.69	203.98	132.38	21 26 23	4832.1	37.67	244.65
45.06	11 20 30	1691.52	32.48	36.50	203.97	132.39	11 48 42	1091.5	37.65	29.46
134.94	19 55 51	5432.07	32.49	251.69	203.98	132.38	21 26 23	4832.1	37.67	244.65
45.06	11 20 30	1691.52	32.48	36.50	203.97	132.39	11 48 42	1091.5	37.65	29.46
134.94	19 55 51	5432.07	32.49	251.69	203.98	132.38	21 26 23	4832.1	37.67	244.65

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-.1857	TRA	.6743	TC3	-.6896	BAU	.3521	SGT	1484.3	SGR	4879.5	SG3	705.3	ST	454.9	SR	1551.3	SS	1245.7
RDE	-.5009	RRA	-2.4383	RC3	.9634	FAU	.04933	RRT	-.9260	RRF	-.9974	RTF	.9175	CRT	-.6036	CRS	.9860	CST	-.4627
FDE	1.2383	FRA	4.0076	FC3	-1.9212	BSP	15983	SGB	5100.3	R23	.0465	R13	-.9965	LSA	1999.3	MSA	410.1	SSA	7.6
BDE	.5342	BRA	2.5298	BC3	1.1848	FSP	-2306	SG1	5071.7	SG2	539.0	THA	105.92	EL1	1576.8	EL2	356.8	ALF	100.59

LAUNCH DATE SEP 11 1965 FLIGHT TIME 184.00 ARRIVAL DATE MAR 14 1966

HELIOCENTRIC CONIC DISTANCE 493.296

RL	150.59	LAL	.00	LOL	348.05	VL	27.363	GAL	5.32	AZL	95.02	HCA	213.62	SMA	130.90	ECC	.17618	INC	5.0157	VI	29.589
RP	107.96	LAP	2.77	LOP	201.57	VP	38.009	GAP	1.07	AZP	85.82	TAL	153.55	TAP	7.17	RCA	107.84	APO	153.96	V2	35.101
RC	74.954	GL	-31.65	GP	56.11	ZAL	48.75	ZAP	95.72	ETS	3.25	ZAE	125.91	ETE	119.62	ZAC	43.62	ETC	242.13	CLP	-100.29

PLANETOCENTRIC CONIC

C3	20.606	VHL	4.539	DLA	-48.19	RAL	323.16	RAD	6567.8	VEL	11.916	PTH	2.12	VHP	4.893	DPA	31.70	RAP	280.56	ECC	1.3391

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
49.23	11 28 53	1641.03	31.56	30.46	199.82	128.52	11 56 14	1041.0	36.31	23.11
130.77	19 37 8	5446.01	31.57	252.18	199.83	128.51	21 7 54	4846.0	36.32	244.83
49.23	11 28 53	1641.03	31.56	30.46	199.82	128.52	11 56 14	1041.0	36.31	23.11
130.77	19 37 8	5446.01	31.57	252.18	199.83	128.51	21 7 54	4846.0	36.32	244.83
49.23	11 28 53	1641.03	31.56	30.46	199.82	128.52	11 56 14	1041.0	36.31	23.11
130.77	19 37 8	5446.01	31.57	252.18	199.83	128.51	21 7 54	4846.0	36.32	244.83

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-.0851	TRA	1.0018	TC3	-.8995	BAU	.3741	SGT	2067.7	SGR	4658.2	SG3	777.7	ST	579.6	SR	1478.7	SS	1306.7
RDE	-.4622	RRA	-2.3918	RC3	1.0174	FAU	.05518	RRT	-.9635	RRF	-.9971	RTF	.9571	CRT	-.8296	CRS	.9838	CST	-.7162
FDE	1.3538	FRA	4.5339	FC3	-2.3184	BSP	15960	SGB	5096.5	R23	.0565	R13	-.9956	LSA	2018.8	MSA	392.5	SSA	8.3
BDE	.4699	BRA	2.5932	BC3	1.3580	FSP	-2566	SG1	5071.0	SG2	508.7	THA	113.40	EL1	1558.2	EL2	307.1	ALF	108.77

LAUNCH DATE SEP 11 1965 FLIGHT TIME 186.00 ARRIVAL DATE MAR 16 1966

HELIOCENTRIC CONIC DISTANCE 499.615

RL	150.59	LAL	.00	LOL	348.05	VL	27.363	GAL	5.39	AZL	94.44	HCA	216.82	SMA	130.89	ECC	.17683	INC	4.4422	VI	29.589
RP	108.00	LAP	2.66	LOP	204.79	VP	37.997	GAP	1.51	AZP	86.44	TAL	153.29	TAP	10.11	RCA	107.75	APO	154.04	V2	35.089
RC	77.191	GL	-28.55	GP	53.07	ZAL	46.74	ZAP	99.52	ETS	7.83	ZAE	126.69	ETE	125.74	ZAC	40.26	ETC	244.65	CLP	-105.98

PLANETOCENTRIC CONIC

C3	19.488	VHL	4.415	DLA	-45.14	RAL	322.12	RAD	6567.8	VEL	11.869	PTH	2.11	VHP	4.692	DPA	28.62	RAP	278.99	ECC	1.3207

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
53.26	11 39 10	1591.32	30.37	24.70	196.43	125.15	12 5 41	991.3	34.74	17.16
126.74	19 18 35	5469.17	30.38	253.34	196.44	125.14	20 49 44	4869.2	34.75	245.80
53.26	11 39 10	1591.32	30.37	24.70	196.43	125.15	12 5 41	991.3	34.74	17.16
126.74	19 18 35	5469.17	30.38	253.34	196.44	125.14	20 49 44	4869.2	34.75	245.80
53.26	11 39 10	1591.32	30.37	24.70	196.43	125.15	12 5 41	991.3	34.74	17.16
126.74	19 18 35	5469.17	30.38	253.34	196.44	125.14	20 49 44	4869.2	34.75	245.80

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	.0110	TRA	1.3220	TC3	-1.1147	BAU	.3953	SGT	2623.9	SGR	4390.2	SG3	836.2	ST	730.4	SR	1395.0	SS	1362.4
RDE	-.4311	RRA	-2.3146	RC3	1.0293	FAU	.05975	RRT	-.9775	RRF	-.9967	RTF	.9723	CRT	-.9235	CRS	.9810	CST	-.8317
FDE	1.4791	FRA	4.9960	FC3	-2.6541	BSP	15985	SGB	5114.6	R23	.0644	R13	-.9946	LSA	2047.9	MSA	376.2	SSA	9.0
BDE	.4312	BRA	2.6655	BC3	1.5172	FSP	-2784	SG1	5092.3	SG2	477.1	THA	120.59	EL1	1554.4	EL2	251.4	ALF	116.56

LAUNCH DATE SEP 11 1965 FLIGHT TIME 188.00 ARRIVAL DATE MAR 18 1966

HELIOCENTRIC CONIC DISTANCE 505.911

RL	150.59	LAL	.00	LOL	348.05	VL	27.361	GAL	5.48	AZL	93.95	HCA	220.02	SMA	130.88	ECC	.17770	INC	3.9486	VI	29.589
RP	108.04	LAP	2.54	LOP	208.01	VP	37.983	GAP	1.95	AZP	86.97	TAL	152.99	TAP	13.02	RCA	107.62	APO	154.14	V2	35.076
RC	79.446	GL	-25.67	GP	50.06	ZAL	44.93	ZAP	103.50	ETS	11.82	ZAE	127.09	ETE	131.56	ZAC	36.98	ETC	246.86	CLP	-111.32

PLANETOCENTRIC CONIC

C3	18.741	VHL	4.329	DLA	-42.29	RAL	321.29	RAD	6567.8	VEL	11.837	PTH	2.10	VHP	4.557	DPA	25.60	RAP	277.51	ECC	1.3084

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
57.18	11 51 24	1540.71	29.02	19.11	193.69	122.22	12 17 4	940.7	33.04	11.45
122.82	18 59 43	5501.32	29.03	255.20	193.70	122.21	20 31 25	4901.3	33.05	247.54
57.18	11 51 24	1540.71	29.02	19.11	193.69	122.22	12 17 4	940.7	33.04	11.45
122.82	18 59 43	5501.32	29.03	255.20	193.70	122.21	20 31 25	4901.3	33.05	247.54
57.18	11 51 24	1540.71	29.02	19.11	193.69	122.22	12 17 4	940.7	33.04	11.45
122.82	18 59 43	5501.32	29.03	255.20	193.70	122.21	20 31 25	4901.3	33.05	247.54

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	.1074	TRA	1.6328	TC3	-1.3221	BAU	.4154	SGT	3140.7	SGR	4094.5	SG3	879.0	ST	888.5	SR	1304.9	SS	1413.0
RDE	-.4044	RRA	-2.2167	RC3	1.0005	FAU	.06264	RRT	-.9839	RRF	-.9961	RTF	.9794	CRT	-.9657	CRS	.9775	CST	-.8895
FDE	1.6088	FRA	5.3814	FC3	-2.8938	BSP	16028	SGB	5160.3	R23	.0694	R13	-.9936	LSA	2087.5	MSA	361.8	SSA	9.7
BDE	.4184	BRA	2.7532	BC3	1.6580	FSP	-2940	SG1	5141.0	SG2	446.8	THA	127.37	EL1	1566.9	EL2	192.1	ALF	123.91

35A

LAUNCH DATE SEP 11 1965 FLIGHT TIME 190.00 ARRIVAL DATE MAR 20 1966

HELIOCENTRIC CONIC DISTANCE 512.183

RL 150.59 LAL .00 LOL 348.05 VL 27.357 GAL 5.57 AZL 93.52 HCA 223.22 SMA 130.85 ECC .17881 INC 3.5171 V1 29.589
RP 108.08 LAP 2.41 LOP 211.22 VP 37.969 GAP 2.39 AZP 87.44 TAL 152.67 TAP 15.89 RCA 107.45 APO 154.25 V2 35.063
RC 81.719 GL -23.00 GP 47.09 ZAL 43.29 ZAP 107.56 ETS 15.28 ZAE 127.15 ETE 136.99 ZAC 33.80 ETC 248.72 CLP-116.31

PLANETOCENTRIC CONIC

C3 18.276 VHL 4.275 DLA -39.62 RAL 320.63 RAD 6567.7 VEL 11.818 PTH 2.09 VHP 4.476 DPA 22.65 RAP 276.19 ECC 1.3008

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
61.04	12 5 47	1487.43	27.57	13.55	191.51	119.67	12 30 35	887.4	31.29	5.83
118.96	18 40 3	5542.82	27.58	257.78	191.52	119.65	20 12 26	4942.8	31.30	250.06
61.04	12 5 47	1487.43	27.57	13.55	191.51	119.67	12 30 35	887.4	31.29	5.83
118.96	18 40 3	5542.82	27.58	257.78	191.52	119.65	20 12 26	4942.8	31.30	250.06
61.04	12 5 47	1487.43	27.57	13.55	191.51	119.67	12 30 35	887.4	31.29	5.83
118.96	18 40 3	5542.82	27.58	257.78	191.52	119.65	20 12 26	4942.8	31.30	250.06

DIFFERENTIAL CORRECTIONS
TDE .2037 TRA 1.9303 TC3-1.5158 BAU .4371
RDE -.3754 RRA-2.1023 RC3 .9498 FAU .06439
FDE 1.7239 FRA 5.6702 FC3-3.0501 BSP 16215
BDE .4271 BRA 2.8541 BC3 1.7888 FSP -3054

MID-COURSE EXECUTION ACCURACY
SGT 3610.5 SGR 3780.6 SG3 904.0
RRT -.9873 RRF -.9953 RTF .9834
SGB 5227.7 R23 .0709 R13 -.9927
SG1 5211.1 SG2 416.7 THA 133.66

ORBIT DETERMINATION ACCURACY
ST 1044.7 SR 1207.4 SS 1452.3
CRT -.9862 CRS .9730 CST -.9217
LSA 2129.9 MSA 349.2 SSA 10.3
EL1 1591.3 EL2 131.0 ALF 130.81

LAUNCH DATE SEP 11 1965 FLIGHT TIME 192.00 ARRIVAL DATE MAR 22 1966

HELIOCENTRIC CONIC DISTANCE 518.430

RL 150.59 LAL .00 LOL 348.05 VL 27.351 GAL 5.69 AZL 93.13 HCA 226.42 SMA 130.81 ECC .18015 INC 3.1342 V1 29.589
RP 108.12 LAP 2.27 LOP 214.43 VP 37.952 GAP 2.83 AZP 87.84 TAL 152.30 TAP 18.73 RCA 107.25 APO 154.38 V2 35.050
RC 84.008 GL -20.51 GP 44.20 ZAL 41.82 ZAP 111.63 ETS 18.23 ZAE 126.92 ETE 141.96 ZAC 30.75 ETC 250.16 CLP-120.94

PLANETOCENTRIC CONIC

C3 18.038 VHL 4.247 DLA -37.13 RAL 320.11 RAD 6567.7 VEL 11.808 PTH 2.09 VHP 4.441 DPA 19.79 RAP 275.05 ECC 1.2969

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
64.91	12 22 45	1429.39	26.08	7.84	189.82	117.42	12 46 34	829.4	29.53	.10
115.09	18 18 56	5594.74	26.09	261.16	189.83	117.41	19 52 11	4994.7	29.54	253.41
64.91	12 22 45	1429.39	26.08	7.84	189.82	117.42	12 46 34	829.4	29.53	.10
115.09	18 18 56	5594.74	26.09	261.16	189.83	117.41	19 52 11	4994.7	29.54	253.41
64.91	12 22 45	1429.39	26.08	7.84	189.82	117.42	12 46 34	829.4	29.53	.10
115.09	18 18 56	5594.74	26.09	261.16	189.83	117.41	19 52 11	4994.7	29.54	253.41

DIFFERENTIAL CORRECTIONS
TDE .3009 TRA 2.2147 TC3-1.6887 BAU .4593
RDE -.3444 RRA-1.9802 RC3 .8807 FAU .06481
FDE 1.8214 FRA 5.8644 FC3-3.1107 BSP 16498
BDE .4573 BRA 2.9709 BC3 1.9045 FSP -3116

MID-COURSE EXECUTION ACCURACY
SGT 4033.2 SGR 3464.4 SG3 912.3
RRT -.9890 RRF -.9942 RTF .9857
SGB 5316.8 R23 .0685 R13 -.9920
SG1 5302.5 SG2 390.5 THA 139.39

ORBIT DETERMINATION ACCURACY
ST 1196.1 SR 1107.6 SS 1481.5
CRT -.9961 CRS .9671 CST -.9415
LSA 2176.6 MSA 338.7 SSA 10.9
EL1 1628.6 EL2 71.3 ALF 137.21

LAUNCH DATE SEP 11 1965 FLIGHT TIME 194.00 ARRIVAL DATE MAR 24 1966

HELIOCENTRIC CONIC DISTANCE 524.652

RL 150.59 LAL .00 LOL 348.05 VL 27.344 GAL 5.82 AZL 92.79 HCA 229.62 SMA 130.76 ECC .18172 INC 2.7904 V1 29.589
RP 108.16 LAP 2.13 LOP 217.64 VP 37.935 GAP 3.26 AZP 88.19 TAL 151.91 TAP 21.53 RCA 107.00 APO 154.53 V2 35.036
RC 86.309 GL -18.19 GP 41.43 ZAL 40.48 ZAP 115.63 ETS 20.76 ZAE 126.45 ETE 146.43 ZAC 27.87 ETC 251.14 CLP-125.23

PLANETOCENTRIC CONIC

C3 17.990 VHL 4.241 DLA -34.79 RAL 319.70 RAD 6567.7 VEL 11.806 PTH 2.09 VHP 4.447 DPA 17.04 RAP 274.12 ECC 1.2961

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
68.88	12 42 59	1363.66	24.57	1.76	188.54	115.45	13 5 43	763.7	27.79	354.01
111.12	17 55 30	5659.21	24.58	265.48	188.54	115.44	19 29 49	5059.2	27.80	257.73
68.88	12 42 59	1363.66	24.57	1.76	188.54	115.45	13 5 43	763.7	27.79	354.01
111.12	17 55 30	5659.21	24.58	265.48	188.54	115.44	19 29 49	5059.2	27.80	257.73
68.88	12 42 59	1363.66	24.57	1.76	188.54	115.45	13 5 43	763.7	27.79	354.01
111.12	17 55 30	5659.21	24.58	265.48	188.54	115.44	19 29 49	5059.2	27.80	257.73

DIFFERENTIAL CORRECTIONS
TDE .4006 TRA 2.4874 TC3-1.8349 BAU .4814
RDE -.3128 RRA-1.8572 RC3 .7993 FAU .06394
FDE 1.9019 FRA 5.9716 FC3-3.0773 BSP 16839
BDE .5083 BRA 3.1043 BC3 2.0014 FSP -3124

MID-COURSE EXECUTION ACCURACY
SGT 4411.2 SGR 3157.8 SG3 905.8
RRT -.9896 RRF -.9928 RTF .9871
SGB 5425.0 R23 .0627 R13 -.9913
SG1 5412.3 SG2 370.2 THA 144.49

ORBIT DETERMINATION ACCURACY
ST 1342.3 SR 1009.5 SS 1502.5
CRT -.9998 CRS .9597 CST -.9547
LSA 2229.1 MSA 330.3 SSA 11.4
EL1 1679.4 EL2 18.0 ALF 143.06

LAUNCH DATE SEP 11 1965 FLIGHT TIME 196.00 ARRIVAL DATE MAR 26 1966

HELIOCENTRIC CONIC DISTANCE 530.847

RL 150.59 LAL .00 LOL 348.05 VL 27.336 GAL 5.96 AZL 92.48 HCA 232.82 SMA 130.71 ECC .18353 INC 2.4779 V1 29.589
RP 108.20 LAP 1.97 LOP 220.84 VP 37.917 GAP 3.70 AZP 88.50 TAL 151.48 TAP 24.30 RCA 106.72 APO 154.70 V2 35.023
RC 88.623 GL -16.04 GP 38.78 ZAL 39.26 ZAP 119.51 ETS 22.90 ZAE 125.80 ETE 150.38 ZAC 25.16 ETC 251.57 CLP-129.19

PLANETOCENTRIC CONIC

C3 18.105 VHL 4.255 DLA -32.60 RAL 319.40 RAD 6567.7 VEL 11.810 PTH 2.09 VHP 4.487 DPA 14.42 RAP 273.41 ECC 1.2980

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
73.12	13 7 55	1285.07	23.08	354.92	187.61	113.69	13 29 20	685.1	26.08	347.18
106.88	17 28 10	5740.80	23.09	271.07	187.62	113.68	19 3 51	5140.8	26.09	263.32
73.12	13 7 55	1285.07	23.08	354.92	187.61	113.69	13 29 20	685.1	26.08	347.18
106.88	17 28 10	5740.80	23.09	271.07	187.62	113.68	19 3 51	5140.8	26.09	263.32
110.00	16 29 14	634.68	16.43	303.57	184.01	120.40	16 39 49	34.7	20.35	296.63
110.00	19 6 2	5439.19	30.08	250.69	190.52	107.05	20 36 41	4839.2	32.12	242.07

DIFFERENTIAL CORRECTIONS
TDE .5022 TRA 2.7498 TC3-1.9527 BAU .5032
RDE -.2801 RRA-1.7376 RC3 .7129 FAU .06200
FDE 1.9616 FRA 6.0014 FC3-2.9645 BSP 17248
BDE .5751 BRA 3.2528 BC3 2.0788 FSP -3088

MID-COURSE EXECUTION ACCURACY
SGT 4747.3 SGR 2867.8 SG3 886.9
RRT -.9894 RRF -.9909 RTF .9879
SGB 5546.3 R23 .0544 R13 -.9908
SG1 5534.8 SG2 356.5 THA 148.99

ORBIT DETERMINATION ACCURACY
ST 1482.7 SR 914.8 SS 1514.7
CRT -.9987 CRS .9501 CST -.9641
LSA 2285.8 MSA 323.6 SSA 11.9
EL1 1741.8 EL2 39.4 ALF 148.34

LAUNCH DATE SEP 11 1965 FLIGHT TIME 198.00 ARRIVAL DATE MAR 28 1966

HELIOCENTRIC CONIC DISTANCE 537.014

RL 150.59 LAL .00 LOL 348.05 VL 27.327 GAL 6.13 AZL 92.19 HCA 236.01 SMA 130.64 ECC .18559 INC 2.1910 V1 29.589
RP 108.24 LAP 1.82 LOP 224.05 VP 37.898 GAP 4.14 AZP 88.77 TAL 151.02 TAP 27.03 RCA 106.39 APO 154.89 V2 35.010
RC 90.946 GL -14.03 GP 36.29 ZAL 38.14 ZAP 123.24 ETS 24.74 ZAE 125.03 ETE 153.84 ZAC 22.66 ETC 251.35 CLP-132.85

PLANETOCENTRIC CONIC

C3 18.370 VHL 4.286 DLA -30.55 RAL 319.19 RAD 6567.7 VEL 11.822 PTH 2.09 VHP 4.558 DPA 11.95 RAP 272.93 ECC 1.3023

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
78.04	TB #1 7	1181.63	21.61	346.42	187.00	112.13	14 0 48	581.6	24.42	338.70
101.96	16 53 18	5851.03	21.63	278.74	187.01	112.11	18 30 49	5251.0	24.43	271.01
78.04	13 41 7	1181.63	21.61	346.42	187.00	112.13	14 0 48	581.6	24.42	338.70
101.96	16 53 18	5851.03	21.63	278.74	187.01	112.11	18 30 49	5251.0	24.43	271.01
110.00	15 48 26	766.96	11.74	310.94	181.71	122.34	16 1 13	167.0	15.92	304.33
110.00	19 45 9	5313.69	32.24	241.55	190.66	102.04	21 13 42	4713.7	33.56	232.57

DIFFERENTIAL CORRECTIONS

TDE .6086 TRA 3.0066 TC3-2.0363 BAU .5230
RDE -.2486 RRA-1.6262 RC3 .6231 FAU .05891
FDE 2.0077 FRA 5.9741 FC3-2.7764 BSP 17621
BDE .6574 BRA 3.4182 BC3 2.1295 FSP -3000

MID-COURSE EXECUTION ACCURACY

SGT 5048.7 SGR 2601.4 SG3 859.1
RRT -.9885 RRF -.9886 RTF .9884
SGB 5679.4 R23 .0452 R13 -.9903
SG1 5668.6 SG2 349.9 THA 152.90

ORBIT DETERMINATION ACCURACY

ST 1620.1 SR 827.1 SS 1522.6
CRT -.9936 CRS .9381 CST -.9710
LSA 2350.7 MSA 318.4 SSA 12.3
EL1 1817.1 EL2 83.5 ALF 153.04

LAUNCH DATE SEP 11 1965 FLIGHT TIME 200.00 ARRIVAL DATE MAR 30 1966

HELIOCENTRIC CONIC DISTANCE 543.152

RL 150.59 LAL .00 LOL 348.05 VL 27.316 GAL 6.31 AZL 91.93 HCA 239.20 SMA 130.56 ECC .18790 INC 1.9252 V1 29.589
RP 108.29 LAP 1.65 LOP 227.24 VP 37.878 GAP 4.58 AZP 89.01 TAL 150.52 TAP 29.73 RCA 106.03 APO 155.10 V2 34.996
RC 93.279 GL -12.15 GP 33.96 ZAL 37.11 ZAP 126.79 ETS 26.33 ZAE 124.18 ETE 156.83 ZAC 20.37 ETC 250.38 CLP-136.22

PLANETOCENTRIC CONIC

C3 18.774 VHL 4.333 DLA -28.61 RAL 319.06 RAD 6567.8 VEL 11.839 PTH 2.10 VHP 4.656 DPA 9.63 RAP 272.67 ECC 1.3090

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
85.71	14 40 43	993.83	20.18	331.93	186.67	110.72	14 57 17	393.8	22.82	324.23
94.29	15 52 37	760.99	20.20	314.88	186.68	110.71	16 5 18	161.0	22.84	307.18
100.00	15 24 42	851.07	14.45	318.88	184.05	116.46	15 38 53	251.1	17.89	311.77
100.00	17 51 20	5667.02	26.15	266.71	188.76	105.02	19 25 47	5067.0	27.96	258.37
110.00	15 20 25	864.53	8.13	316.20	180.35	123.32	15 34 49	264.5	12.46	309.77
110.00	20 12 6	5226.32	33.29	234.95	190.45	98.27	21 39 12	4626.3	34.07	225.80

DIFFERENTIAL CORRECTIONS

TDE .7148 TRA 3.2544 TC3-2.0969 BAU .5436
RDE -.2150 RRA-1.5212 RC3 .5424 FAU .05560
FDE 2.0276 FRA 5.8900 FC3-2.5638 BSP 18099
BDE .7464 BRA 3.5924 BC3 2.1659 FSP -2900

MID-COURSE EXECUTION ACCURACY

SGT 5312.8 SGR 2356.4 SG3 823.5
RRT -.9870 RRF -.9857 RTF .9887
SGB 5811.9 R23 .0353 R13 -.9900
SG1 5801.5 SG2 347.4 THA 156.27

ORBIT DETERMINATION ACCURACY

ST 1749.0 SR 744.0 SS 1520.1
CRT -.9839 CRS .9223 CST -.9763
LSA 2413.4 MSA 314.3 SSA 12.6
EL1 1896.8 EL2 122.5 ALF 157.19

LAUNCH DATE SEP 11 1965 FLIGHT TIME 202.00 ARRIVAL DATE APR 1 1966

HELIOCENTRIC CONIC DISTANCE 549.260

RL 150.59 LAL .00 LOL 348.05 VL 27.304 GAL 6.51 AZL 91.68 HCA 242.40 SMA 130.48 ECC .19047 INC 1.6766 V1 29.589
RP 108.33 LAP 1.49 LOP 230.44 VP 37.857 GAP 5.02 AZP 89.22 TAL 150.00 TAP 32.40 RCA 105.63 APO 155.33 V2 34.983
RC 95.621 GL -10.41 GP 31.81 ZAL 36.16 ZAP 130.15 ETS 27.72 ZAE 123.29 ETE 159.39 ZAC 18.33 ETC 248.50 CLP-139.35

PLANETOCENTRIC CONIC

C3 19.315 VHL 4.395 DLA -26.80 RAL 318.99 RAD 6567.8 VEL 11.861 PTH 2.10 VHP 4.778 DPA 7.48 RAP 272.63 ECC 1.3178

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	13 55 6	1150.14	12.67	339.99	183.95	115.54	14 14 16	550.1	16.01	332.90
90.00	16 37 43	618.02	25.18	306.11	188.61	103.39	16 48 1	18.0	26.78	297.80
100.00	14 43 58	992.25	10.02	327.02	182.57	118.31	15 0 31	392.2	13.73	320.19
100.00	18 31 31	5539.19	28.09	257.71	189.30	100.66	20 3 50	4939.2	29.28	249.11
110.00	14 58 38	946.23	5.06	320.52	179.56	123.85	15 14 24	346.2	9.47	314.21
110.00	20 33 21	5157.97	33.83	229.69	190.23	95.20	21 59 19	4558.0	34.18	220.47

DIFFERENTIAL CORRECTIONS

TDE .8241 TRA 3.4985 TC3-2.1292 BAU .5628
RDE -.1822 RRA-1.4260 RC3 .4670 FAU .05180
FDE 2.0331 FRA 5.7709 FC3-2.3221 BSP 18574
BDE .8440 BRA 3.7780 BC3 2.1798 FSP -2778

MID-COURSE EXECUTION ACCURACY

SGT 5547.1 SGR 2136.2 SG3 783.5
RRT -.9846 RRF -.9820 RTF .9888
SGB 5944.2 R23 .0262 R13 -.9896
SG1 5933.9 SG2 349.1 THA 159.16

ORBIT DETERMINATION ACCURACY

ST 1872.9 SR 668.6 SS 1512.6
CRT -.9693 CRS .9023 CST -.9805
LSA 2479.1 MSA 311.0 SSA 12.8
EL1 1982.6 EL2 155.2 ALF 160.79

LAUNCH DATE SEP 11 1965 FLIGHT TIME 204.00 ARRIVAL DATE APR 3 1966

HELIOCENTRIC CONIC DISTANCE 555.336

RL 150.59 LAL .00 LOL 348.05 VL 27.291 GAL 6.72 AZL 91.44 HCA 245.58 SMA 130.39 ECC .19331 INC 1.4423 V1 29.589
RP 108.37 LAP 1.31 LOP 233.63 VP 37.836 GAP 5.47 AZP 89.40 TAL 149.45 TAP 35.03 RCA 105.19 APO 155.60 V2 34.970
RC 97.969 GL -8.78 GP 29.82 ZAL 35.28 ZAP 133.31 ETS 28.96 ZAE 122.40 ETE 161.59 ZAC 16.54 ETC 245.57 CLP-142.25

PLANETOCENTRIC CONIC

C3 19.985 VHL 4.470 DLA -25.09 RAL 318.99 RAD 6567.8 VEL 11.890 PTH 2.11 VHP 4.922 DPA 5.48 RAP 272.80 ECC 1.3289

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	13 18 4	1283.26	8.65	347.70	182.93	117.07	13 39 28	683.3	12.21	340.83
90.00	17 14 41	5789.18	26.77	275.83	189.20	99.59	18 51 10	5189.2	27.82	267.32
100.00	14 16 17	1095.34	6.64	332.81	181.85	119.21	14 34 32	495.3	10.48	326.13
100.00	18 59 10	5452.33	29.03	251.42	189.58	97.48	20 30 2	4852.3	29.76	242.70
110.00	14 40 49	1018.37	2.31	324.30	179.17	124.11	14 57 47	418.4	6.77	318.05
110.00	20 51 7	5102.06	34.09	225.35	190.11	92.64	22 16 9	4502.1	34.08	216.10

DIFFERENTIAL CORRECTIONS

TDE .9360 TRA 3.7406 TC3-2.1371 BAU .5809
RDE -.1500 RRA-1.3403 RC3 .3995 FAU .04781
FDE 2.0249 FRA 5.6268 FC3-2.0712 BSP 19057
BDE .9480 BRA 3.9735 BC3 2.1741 FSP -2645

MID-COURSE EXECUTION ACCURACY

SGT 5754.5 SGR 1939.7 SG3 741.1
RRT -.9814 RRF -.9776 RTF .9888
SGB 6072.6 R23 .0182 R13 -.9893
SG1 6062.3 SG2 353.4 THA 161.63

ORBIT DETERMINATION ACCURACY

ST 1991.2 SR 600.7 SS 1500.2
CRT -.9488 CRS .8771 CST -.9838
LSA 2545.8 MSA 308.2 SSA 13.0
EL1 2071.8 EL2 182.3 ALF 163.90

37A

LAUNCH DATE SEP 11 1965 FLIGHT TIME 206.00 ARRIVAL DATE APR 5 1966

DISTANCE 561.379

HELIOCENTRIC CONIC
RL 150.59 LAL .00 LOL 348.05 VL 27.278 GAL 6.96 AZL 91.22 HCA 248.77 SMA 130.30 ECC .19643 INC 1.2197 V1 29.589
RP 108.41 LAP 1.14 LOP 236.82 VP 37.814 GAP 5.93 AZP 89.58 TAL 148.86 TAP 37.64 RCA 104.70 APO 155.89 V2 34.957
RC 100.323 GL -7.26 GP 28.00 ZAL 34.46 ZAP 136.28 ETS 30.11 ZAE 121.51 ETE 163.45 ZAC 15.03 ETC 241.48 CLP-144.94

PLANETOCENTRIC CONIC
C3 20.794 VHL 4.560 DLA -23.49 RAL 319.03 RAD 6567.8 VEL 11.924 PTH 2.12 VHP 5.086 DPA 3.64 RAP 273.17 ECC 1.3422

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 51 57	1384.09	5.48	353.41	182.52	117.82	13 15 1	784.1	9.17	346.67
90.00	17 41 10	5707.30	27.56	269.97	189.64	96.75	19 16 17	5107.3	28.21	261.36
100.00	13 54 46	1181.34	3.76	337.57	181.57	119.68	14 14 27	581.3	7.68	330.97
100.00	19 21 2	5385.29	29.52	246.50	189.86	94.93	20 50 47	4785.3	29.89	237.72
110.00	14 25 48	1084.02	-.20	327.72	179.10	124.18	14 43 52	484.0	4.29	321.51
110.00	21 6 29	5055.37	34.18	221.70	190.12	90.49	22 30 45	4455.4	33.87	212.47

DIFFERENTIAL CORRECTIONS
TDE 1.0513 TRA 3.9831 TC3-2.1216 BAU .5973
RDE -.1189 RRA-1.2642 RC3 .3396 FAU .04369
FDE 2.0069 FRA 5.4688 FC3-1.8192 BSP 19518
BDE 1.0580 BRA 4.1789 BC3 2.1486 FSP -2503

MID-COURSE EXECUTION ACCURACY
SGT 5938.5 SGR 1765.7 SG3 697.9
RRT -.9773 RRF -.9722 RTF .9887
SGB 6195.4 R23 .0117 R13 -.9890
SG1 6185.0 SG2 359.4 THA 163.74

ORBIT DETERMINATION ACCURACY
ST 2104.3 SR 540.7 SS 1484.5
CRT -.9215 CRS .8459 CST -.9865
LSA 2613.6 MSA 305.8 SSA 13.1
EL1 2163.1 EL2 204.3 ALF 166.56

LAUNCH DATE SEP 11 1965 FLIGHT TIME 208.00 ARRIVAL DATE APR 7 1966

DISTANCE 567.386

HELIOCENTRIC CONIC
RL 150.59 LAL .00 LOL 348.05 VL 27.263 GAL 7.22 AZL 91.01 HCA 251.96 SMA 130.19 ECC .19985 INC 1.0067 V1 29.589
RP 108.44 LAP .96 LOP 240.01 VP 37.792 GAP 6.39 AZP 89.69 TAL 148.26 TAP 40.22 RCA 104.18 APO 156.21 V2 34.945
RC 102.682 GL -5.85 GP 26.34 ZAL 33.69 ZAP 139.06 ETS 31.19 ZAE 120.66 ETE 165.04 ZAC 13.83 ETC 236.15 CLP-147.45

PLANETOCENTRIC CONIC
C3 21.744 VHL 4.663 DLA -21.98 RAL 319.12 RAD 6567.9 VEL 11.963 PTH 2.13 VHP 5.269 DPA 1.96 RAP 273.71 ECC 1.3579

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 31 23	1469.29	2.76	358.19	182.50	118.19	12 55 52	869.3	6.51	351.52
90.00	18 2 27	5643.61	27.99	265.35	190.10	94.48	19 36 31	5043.6	28.32	256.70
100.00	13 37 8	1257.11	1.20	341.73	181.63	119.87	13 58 5	657.1	5.16	335.19
100.00	19 39 24	5331.02	29.77	242.49	190.23	92.84	21 8 15	4731.0	29.85	233.68
110.00	14 12 55	1144.91	-2.53	330.90	179.31	124.10	14 32 0	544.9	1.96	324.70
110.00	21 20 6	5015.99	34.16	218.63	190.29	88.67	22 43 42	4416.0	33.60	209.43

DIFFERENTIAL CORRECTIONS
TDE 1.1731 TRA 4.2307 TC3-2.0811 BAU .6107
RDE -.0901 RRA-1.1978 RC3 .2855 FAU .03939
FDE 1.9863 FRA 5.3078 FC3-1.5681 BSP 19891
BDE 1.1765 BRA 4.3970 BC3 2.1006 FSP -2349

MID-COURSE EXECUTION ACCURACY
SGT 6104.7 SGR 1613.1 SG3 655.5
RRT -.9721 RRF -.9660 RTF .9885
SGB 6314.2 R23 .0068 R13 -.9887
SG1 6303.6 SG2 366.2 THA 165.54

ORBIT DETERMINATION ACCURACY
ST 2215.6 SR 488.9 SS 1468.7
CRT -.8870 CRS .8084 CST -.9888
LSA 2685.7 MSA 303.3 SSA 13.2
EL1 2258.1 EL2 221.6 ALF 168.82

LAUNCH DATE SEP 11 1965 FLIGHT TIME 210.00 ARRIVAL DATE APR 9 1966

DISTANCE 573.356

HELIOCENTRIC CONIC
RL 150.59 LAL .00 LOL 348.05 VL 27.248 GAL 7.50 AZL 90.80 HCA 255.14 SMA 130.09 ECC .20358 INC .8014 V1 29.589
RP 108.48 LAP .77 LOP 243.19 VP 37.770 GAP 6.86 AZP 89.79 TAL 147.63 TAP 42.77 RCA 103.60 APO 156.57 V2 34.932
RC 105.043 GL -4.53 GP 24.83 ZAL 32.97 ZAP 141.66 ETS 32.25 ZAE 119.84 ETE 166.39 ZAC 12.99 ETC 229.67 CLP-149.79

PLANETOCENTRIC CONIC
C3 22.845 VHL 4.780 DLA -20.56 RAL 319.25 RAD 6567.9 VEL 12.009 PTH 2.14 VHP 5.469 DPA .42 RAP 274.43 ECC 1.3760

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 14 24	1544.84	.32	2.41	182.77	118.32	12 40 9	944.8	4.10	355.77
90.00	18 20 29	5592.00	28.21	261.59	190.64	92.61	19 53 41	4992.0	28.27	252.93
100.00	13 22 14	1325.92	-1.14	345.50	181.96	119.87	13 44 20	725.9	2.85	338.98
100.00	19 55 20	5286.15	29.87	239.16	190.70	91.08	21 23 26	4686.2	29.71	230.36
110.00	14 1 44	1202.14	-4.71	333.90	179.74	123.90	14 21 46	602.1	-.22	327.68
110.00	21 32 19	4982.70	34.08	216.03	190.62	87.13	22 55 22	4382.7	33.30	206.88

DIFFERENTIAL CORRECTIONS
TDE 1.2952 TRA 4.4788 TC3-2.0288 BAU .6240
RDE -.0613 RRA-1.1386 RC3 .2410 FAU .03543
FDE 1.9543 FRA 5.1406 FC3-1.3426 BSP 20319
BDE 1.2966 BRA 4.6212 BC3 2.0430 FSP -2209

MID-COURSE EXECUTION ACCURACY
SGT 6249.2 SGR 1477.6 SG3 613.7
RRT -.9659 RRF -.9587 RTF .9882
SGB 6421.5 R23 .0026 R13 -.9884
SG1 6410.7 SG2 372.7 THA 167.09

ORBIT DETERMINATION ACCURACY
ST 2318.0 SR 443.5 SS 1447.8
CRT -.8431 CRS .7623 CST -.9907
LSA 2752.3 MSA 301.0 SSA 13.2
EL1 2348.3 EL2 235.4 ALF 170.74

LAUNCH DATE SEP 11 1965 FLIGHT TIME 212.00 ARRIVAL DATE APR 11 1966

DISTANCE 579.286

HELIOCENTRIC CONIC
RL 150.59 LAL .00 LOL 348.05 VL 27.231 GAL 7.80 AZL 90.60 HCA 258.32 SMA 129.98 ECC .20764 INC .6021 V1 29.589
RP 108.52 LAP .59 LOP 246.37 VP 37.747 GAP 7.34 AZP 89.88 TAL 146.97 TAP 45.30 RCA 102.99 APO 156.96 V2 34.920
RC 107.406 GL -3.31 GP 23.45 ZAL 32.29 ZAP 144.10 ETS 33.31 ZAE 119.06 ETE 167.54 ZAC 12.52 ETC 222.35 CLP-152.00

PLANETOCENTRIC CONIC
C3 24.107 VHL 4.910 DLA -19.23 RAL 319.42 RAD 6568.0 VEL 12.062 PTH 2.16 VHP 5.686 DPA -.98 RAP 275.29 ECC 1.3967

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 0 0	1613.72	-1.90	6.25	183.29	118.26	12 26 53	1013.7	1.89	359.62
90.00	18 36 13	5549.39	28.30	258.48	191.29	91.05	20 8 43	4949.4	28.14	249.82
100.00	13 9 26	1389.64	-3.29	349.00	182.52	119.73	13 32 36	789.6	.69	342.48
100.00	20 9 28	5248.70	29.89	236.37	191.30	89.62	21 36 57	4648.7	29.52	227.59
110.00	13 51 56	1256.45	-6.76	336.76	180.37	123.59	14 12 52	656.5	-2.30	330.52
110.00	21 43 27	4954.65	33.96	213.85	191.11	85.85	23 6 2	4354.6	33.01	204.74

DIFFERENTIAL CORRECTIONS
TDE 1.4215 TRA 4.7323 TC3-1.9614 BAU .6355
RDE -.0338 RRA-1.0867 RC3 .2027 FAU .03160
FDE 1.9191 FRA 4.9762 FC3-1.1350 BSP 20723
BDE 1.4219 BRA 4.8555 BC3 1.9718 FSP -2071

MID-COURSE EXECUTION ACCURACY
SGT 6377.1 SGR 1358.3 SG3 573.6
RRT -.9586 RRF -.9503 RTF .9880
SGB 6520.2 R23 -.0006 R13 -.9880
SG1 6509.2 SG2 378.8 THA 168.42

ORBIT DETERMINATION ACCURACY
ST 2415.2 SR 404.9 SS 1425.7
CRT -.7901 CRS .7080 CST -.9922
LSA 2817.9 MSA 298.6 SSA 13.3
EL1 2436.6 EL2 246.0 ALF 172.38

38A

LAUNCH DATE SEP 11 1965 FLIGHT TIME 214.00 ARRIVAL DATE APR 13 1966

HELIOCENTRIC CONIC DISTANCE 585.172

RL 150.59 LAL .00 LOL 348.05 VL 27.215 GAL 8.13 AZL 90.41 HCA 261.50 SMA 129.86 ECC .21206 INC .4076 VI 29.589
RP 108.56 LAP .40 LOP 249.55 VP 37.724 GAP 7.83 AZP 89.94 TAL 146.30 TAP 47.80 RCA 102.32 APO 157.40 V2 34.909
RC 109.770 GL -2.17 GP 22.19 ZAL 31.65 ZAP 146.38 ETS 34.41 ZAE 118.33 ETE 168.52 ZAC 12.44 ETC 214.67 CLP-154.07

PLANETOCENTRIC CONIC

C3 25.544 VHL 5.054 DLA -17.97 RAL 319.62 RAD 6568.0 VEL 12.121 PTH 2.17 VHP 5.921 DPA -2.25 RAP 276.29 ECC 1.4204

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 47 33	1677.65	-3.96	9.82	184.01	118.06	12 15 31	1077.6	-.17	3.19
90.00	18 50 14	5513.96	28.32	255.89	192.07	89.75	20 22 8	4914.0	27.98	247.24
100.00	12 58 17	1449.43	-5.30	352.30	183.27	119.46	13 22 26	849.4	-1.34	345.76
100.00	20 22 11	5217.40	29.85	234.05	192.04	88.40	21 40 9	4617.4	29.31	225.28
110.00	13 43 17	1308.41	-8.71	339.52	181.18	123.19	14 5 6	708.4	-4.28	333.23
110.00	21 53 40	4931.19	33.83	212.03	191.76	84.78	23 15 51	4331.2	32.74	202.96

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE 1.5525 TRA 4.9932 TC3-1.8808 BAU .6449 SGT 6490.4 SGR 1253.1 SG3 535.7 ST 2507.6 SR 372.5 SS 1403.1
RDE -.0076 RRA-1.0415 RC3 .1699 FAU .02793 RRT -.9502 RRF -.9409 RTF .9877 CRT -.7282 CRS .6459 CST -.9935
FDE 1.8825 FRA 4.8180 FC3 -.9466 BSP 21097 SGB 6610.3 R23 -.0030 R13 -.9877 LSA 2882.3 MSA 296.0 SSA 13.3
BDE 1.5525 BRA 5.1007 BC3 1.8885 FSP -1939 SG1 6599.1 SG2 384.0 THA 169.57 EL1 2522.3 EL2 253.8 ALF 173.76

LAUNCH DATE SEP 11 1965 FLIGHT TIME 216.00 ARRIVAL DATE APR 15 1966

HELIOCENTRIC CONIC DISTANCE 591.011

RL 150.59 LAL .00 LOL 348.05 VL 27.197 GAL 8.48 AZL 90.22 HCA 264.68 SMA 129.74 ECC .21686 INC .2164 VI 29.589
RP 108.59 LAP .22 LOP 252.73 VP 37.701 GAP 8.34 AZP 89.98 TAL 145.61 TAP 50.29 RCA 101.60 APO 157.87 V2 34.897
RC 112.133 GL -1.12 GP 21.05 ZAL 31.04 ZAP 148.52 ETS 35.56 ZAE 117.65 ETE 169.36 ZAC 12.74 ETC 207.19 CLP-156.03

PLANETOCENTRIC CONIC

C3 27.174 VHL 5.213 DLA -16.80 RAL 319.84 RAD 6568.1 VEL 12.188 PTH 2.19 VHP 6.172 DPA -3.40 RAP 277.42 ECC 1.4472

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 36 41	1737.75	-5.87	13.20	184.92	117.75	12 5 39	1137.8	-2.11	6.54
90.00	19 2 52	5484.50	28.29	253.73	192.96	88.67	20 34 17	4884.5	27.80	245.10
100.00	12 48 28	1506.11	-7.19	355.45	184.20	119.09	13 13 34	906.1	-3.26	348.87
100.00	20 33 46	5191.37	29.79	232.11	192.90	87.38	22 0 18	4591.4	29.11	223.38
110.00	13 35 37	1358.40	-10.56	342.21	182.16	122.70	13 58 16	758.4	-6.17	335.86
110.00	22 3 6	4911.85	33.70	210.54	192.55	83.90	23 24 58	4311.9	32.49	201.51

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE 1.6882 TRA 5.2628 TC3-1.7898 BAU .6523 SGT 6590.5 SGR 1160.0 SG3 500.0 ST 2594.6 SR 345.7 SS 1379.9
RDE .0176 RRA-1.0020 RC3 .1420 FAU .02445 RRT -.9406 RRF -.9304 RTF .9874 CRT -.6578 CRS .5766 CST -.9946
FDE 1.8447 FRA 4.6673 FC3 -.7789 BSP 21441 SGB 6691.8 R23 -.0048 R13 -.9874 LSA 2944.4 MSA 293.1 SSA 13.2
BDE 1.6883 BRA 5.3574 BC3 1.7955 FSP -1812 SG1 6680.6 SG2 388.4 THA 170.57 EL1 2604.7 EL2 259.4 ALF 174.94

LAUNCH DATE SEP 11 1965 FLIGHT TIME 218.00 ARRIVAL DATE APR 17 1966

HELIOCENTRIC CONIC DISTANCE 596.799

RL 150.59 LAL .00 LOL 348.05 VL 27.179 GAL 8.87 AZL 90.03 HCA 267.85 SMA 129.62 ECC .22207 INC .0232 VI 29.589
RP 108.63 LAP .03 LOP 255.91 VP 37.677 GAP 8.86 AZP 90.00 TAL 144.91 TAP 52.76 RCA 100.83 APO 158.40 V2 34.886
RC 114.493 GL -.14 GP 20.02 ZAL 30.46 ZAP 150.52 ETS 36.80 ZAE 117.01 ETE 170.08 ZAC 13.36 ETC 200.37 CLP-157.90

PLANETOCENTRIC CONIC

C3 29.017 VHL 5.387 DLA -15.69 RAL 320.08 RAD 6568.2 VEL 12.263 PTH 2.21 VHP 6.441 DPA -4.43 RAP 278.65 ECC 1.4776

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 27 6	1794.79	-7.67	16.43	185.98	117.34	11 57 1	1194.8	-3.94	9.73
90.00	19 14 24	5460.20	28.24	251.96	193.97	87.78	20 45 24	4860.2	27.63	243.35
100.00	12 39 48	1560.26	-8.97	358.49	185.28	118.63	13 5 48	960.3	-5.08	351.86
100.00	20 44 24	5169.97	29.71	230.53	193.89	86.55	22 10 33	4570.0	28.92	221.81
110.00	13 28 48	1406.74	-12.32	344.84	183.28	122.14	13 52 15	806.7	-7.99	338.43
110.00	22 11 52	4896.25	33.58	209.33	193.48	83.20	23 33 29	4296.3	32.28	200.34

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE 1.8330 TRA 5.5466 TC3-1.6853 BAU .6554 SGT 6682.1 SGR 1077.9 SG3 466.9 ST 2680.3 SR 323.8 SS 1359.1
RDE .0410 RRA -.9681 RC3 .1172 FAU .02096 RRT -.9300 RRF -.9190 RTF .9871 CRT -.5819 CRS .5030 CST -.9955
FDE 1.8109 FRA 4.5292 FC3 -.6255 BSP 21669 SGB 6768.5 R23 -.0059 R13 -.9870 LSA 3008.6 MSA 289.8 SSA 13.2
BDE 1.8335 BRA 5.6304 BC3 1.6894 FSP -1685 SG1 6757.1 SG2 391.7 THA 171.44 EL1 2687.0 EL2 262.7 ALF 175.94

LAUNCH DATE SEP 11 1965 FLIGHT TIME 220.00 ARRIVAL DATE APR 19 1966

HELIOCENTRIC CONIC DISTANCE 602.530

RL 150.59 LAL .00 LOL 348.05 VL 27.161 GAL 9.28 AZL 89.84 HCA 271.03 SMA 129.49 ECC .22773 INC .1599 VI 29.589
RP 108.66 LAP -.16 LOP 259.08 VP 37.654 GAP 9.40 AZP 90.00 TAL 144.20 TAP 55.22 RCA 100.00 APO 158.98 V2 34.875
RC 116.852 GL .77 GP 19.08 ZAL 29.91 ZAP 152.40 ETS 38.15 ZAE 116.40 ETE 170.69 ZAC 14.27 ETC 194.48 CLP-159.68

PLANETOCENTRIC CONIC

C3 31.100 VHL 5.577 DLA -14.66 RAL 320.34 RAD 6568.2 VEL 12.348 PTH 2.23 VHP 6.728 DPA -5.36 RAP 279.99 ECC 1.5118

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 18 37	1849.31	-9.36	19.54	187.20	116.85	11 49 26	1249.3	-5.68	12.79
90.00	19 24 58	5440.43	28.18	250.52	195.09	87.06	20 55 39	4840.4	27.47	241.92
100.00	12 32 5	1612.29	-10.65	1.43	186.51	118.09	12 58 57	1012.3	-6.82	354.75
100.00	20 54 12	5152.70	29.63	229.25	194.99	85.88	22 20 4	4552.7	28.75	220.56
110.00	13 22 43	1453.67	-14.01	347.44	184.55	121.50	13 46 57	853.7	-9.74	340.94
110.00	22 20 3	4884.07	33.48	208.40	194.54	82.65	23 41 27	4284.1	32.10	199.44

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE 1.9796 TRA 5.8380 TC3-1.5799 BAU .6581 SGT 6758.6 SGR 1003.8 SG3 435.7 ST 2756.6 SR 306.0 SS 1336.0
RDE .0643 RRA -.9376 RC3 .0973 FAU .01790 RRT -.9183 RRF -.9066 RTF .9868 CRT -.4996 CRS .4238 CST -.9963
FDE 1.7734 FRA 4.3965 FC3 -.4982 BSP 21969 SGB 6832.8 R23 -.0068 R13 -.9868 LSA 3065.1 MSA 286.2 SSA 13.1
BDE 1.9806 BRA 5.9128 BC3 1.5829 FSP -1574 SG1 6821.4 SG2 393.7 THA 172.21 EL1 2760.8 EL2 264.6 ALF 176.80

LAUNCH DATE SEP 12 1965 FLIGHT TIME 70.00 ARRIVAL DATE NOV 21 1965

HELIOCENTRIC CONIC DISTANCE 124.195

RL 150.55 LAL .00 LOL 349.03 VL 14.164 GAL 33.44 AZL 95.69 HCA 30.18 SMA 84.94 ECC .84799 INC 5.6907 V1 29.597
RP 108.48 LAP -2.86 LOP 19.08 VP 29.736 GAP -56.52 AZP 94.92 TAL 172.91 TAP 203.09 RCA 12.91 APO 156.97 V2 34.932
RC 94.116 GL -3.41 GP -3.58 ZAL 65.19 ZAP 37.32 ETS 172.10 ZAE 130.60 ETE 177.72 ZAC 33.98 ETC 29.05 CLP 37.17

PLANETOCENTRIC CONIC

C3 387.575 VHL 19.687 DLA -26.11 RAL 285.47 RAD 6572.1 VEL 22.558 PTH 3.26 VHP 30.912 DPA -21.60 RAP 233.11 ECC 7.3785

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 20 55	1816.23	-8.34	17.65	186.73	117.16	11 51 11	1216.2	-4.63	10.93
90.00	14 36 37	1173.21	11.99	341.34	196.79	115.85	14 56 10	573.2	15.37	334.29
100.00	12 14 29	1643.20	-11.64	3.20	184.98	117.73	12 41 53	1043.2	-7.84	356.47
100.00	16 25 43	821.47	15.34	317.13	198.46	115.97	16 39 25	221.5	18.71	309.96
110.00	12 33 38	1583.14	-18.48	354.81	181.14	119.28	13 0 1	983.1	-14.43	348.03
110.00	18 23 4	5742.33	22.31	270.79	202.10	116.59	19 58 47	5142.3	25.70	263.27

DIFFERENTIAL CORRECTIONS

TDE -.3133 TRA-2.1251 TC3 -.1076 BAU .5583
RDE-1.5616 RRA .2757 RC3 .0049 FAU .01070
FDE .0850 FRA .7424 FC3 -.0239 BSP 1918
BDE 1.5927 BRA 2.1429 BC3 .1077 FSP -45

MID-COURSE EXECUTION ACCURACY

SGT 813.9 SGR 463.6 SG3 22.4
RRT -.0748 RRF .0703 RTF -.6064
SGB 936.6 R23 -.0034 R13 .6069
SG1 814.9 SG2 461.7 THA 176.40

ORBIT DETERMINATION ACCURACY

ST 226.2 SR 455.3 SS 203.9
CRT .3485 CRS .2677 CST .9920
LSA 471.0 MSA 279.2 SSA 14.2
EL1 463.8 EL2 208.1 ALF 77.65

LAUNCH DATE SEP 12 1965 FLIGHT TIME 72.00 ARRIVAL DATE NOV 23 1965

HELIOCENTRIC CONIC DISTANCE 129.374

RL 150.55 LAL .00 LOL 349.03 VL 14.994 GAL 31.78 AZL 95.01 HCA 33.35 SMA 86.28 ECC .82366 INC 5.0085 V1 29.597
RP 108.45 LAP -2.75 LOP 22.27 VP 30.155 GAP -54.07 AZP 94.19 TAL 172.03 TAP 205.38 RCA 15.21 APO 157.34 V2 34.945
RC 91.865 GL -3.38 GP -3.66 ZAL 63.74 ZAP 35.81 ETS 171.69 ZAE 130.33 ETE 177.93 ZAC 32.63 ETC 30.60 CLP 35.65

PLANETOCENTRIC CONIC

C3 356.482 VHL 18.881 DLA -25.92 RAL 287.07 RAD 6572.0 VEL 21.858 PTH 3.23 VHP 29.833 DPA -22.16 RAP 234.80 ECC 6.8668

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 23 2	1821.95	-8.51	17.98	187.61	117.11	11 53 24	1221.9	-4.81	11.25
90.00	14 47 13	1150.32	12.67	340.00	198.01	115.54	15 6 23	550.3	16.00	332.91
100.00	12 17 40	1645.53	-11.71	3.33	185.92	117.70	12 45 6	1045.5	-7.92	356.60
100.00	16 35 16	801.97	15.92	315.97	199.61	115.64	16 48 38	202.0	19.24	308.75
110.00	12 37 56	1581.92	-18.43	354.74	182.15	119.31	13 4 18	981.9	-14.39	347.96
110.00	18 31 29	5726.39	22.80	269.80	203.15	116.19	20 6 55	5126.4	26.12	262.23

DIFFERENTIAL CORRECTIONS

TDE -.3394 TRA-2.1455 TC3 -.1153 BAU .5501
RDE-1.5137 RRA .2931 RC3 .0049 FAU .01068
FDE .0994 FRA .7708 FC3 -.0259 BSP 2037
BDE 1.5513 BRA 2.1654 BC3 .1154 FSP -49

MID-COURSE EXECUTION ACCURACY

SGT 851.0 SGR 470.2 SG3 24.2
RRT -.0808 RRF .0764 RTF -.6252
SGB 972.3 R23 -.0039 R13 .6257
SG1 852.2 SG2 468.0 THA 176.34

ORBIT DETERMINATION ACCURACY

ST 240.7 SR 460.3 SS 215.7
CRT .3688 CRS .2997 CST .9933
LSA 481.5 MSA 290.4 SSA 14.4
EL1 471.2 EL2 218.6 ALF 76.02

LAUNCH DATE SEP 12 1965 FLIGHT TIME 74.00 ARRIVAL DATE NOV 25 1965

HELIOCENTRIC CONIC DISTANCE 134.689

RL 150.55 LAL .00 LOL 349.03 VL 15.776 GAL 30.26 AZL 94.43 HCA 36.52 SMA 87.65 ECC .79889 INC 4.4318 V1 29.597
RP 108.41 LAP -2.64 LOP 25.47 VP 30.566 GAP -51.75 AZP 93.56 TAL 171.15 TAP 207.67 RCA 17.63 APO 157.67 V2 34.357
RC 89.619 GL -3.33 GP -3.75 ZAL 62.34 ZAP 34.33 ETS 171.25 ZAE 130.12 ETE 178.15 ZAC 31.29 ETC 32.33 CLP 34.15

PLANETOCENTRIC CONIC

C3 328.060 VHL 18.112 DLA -25.70 RAL 288.61 RAD 6571.8 VEL 21.198 PTH 3.20 VHP 28.790 DPA -22.71 RAP 236.53 ECC 6.3930

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 24 41	1828.12	-8.71	18.33	188.40	117.05	11 55 9	1228.1	-5.01	11.60
90.00	14 57 50	1126.02	13.38	338.56	199.14	115.19	15 16 36	526.0	16.66	331.43
100.00	12 20 22	1648.29	-11.80	3.49	186.77	117.66	12 47 50	1048.3	-8.01	356.76
100.00	16 44 50	781.08	16.53	314.72	200.68	115.27	16 57 51	181.1	19.80	307.45
110.00	12 41 50	1580.93	-18.40	354.68	183.06	119.33	13 8 11	980.9	-14.35	347.91
110.00	18 39 51	5709.25	23.31	268.73	204.11	115.74	20 15 0	5103.2	26.57	261.09

DIFFERENTIAL CORRECTIONS

TDE -.3645 TRA-2.1668 TC3 -.1233 BAU .5410
RDE-1.4653 RRA .3091 RC3 .0049 FAU .01067
FDE .1144 FRA .7996 FC3 -.0281 BSP 2169
BDE 1.5100 BRA 2.1887 BC3 .1234 FSP -54

MID-COURSE EXECUTION ACCURACY

SGT 889.6 SGR 476.4 SG3 26.0
RRT -.0873 RRF .0829 RTF -.6434
SGB 1009.1 R23 -.0045 R13 .6440
SG1 890.9 SG2 473.8 THA 176.26

ORBIT DETERMINATION ACCURACY

ST 256.0 SR 464.7 SS 228.1
CRT .3868 CRS .3292 CST .9944
LSA 492.4 MSA 301.4 SSA 14.7
EL1 478.4 EL2 223.3 ALF 74.27

LAUNCH DATE SEP 12 1965 FLIGHT TIME 76.00 ARRIVAL DATE NOV 27 1965

HELIOCENTRIC CONIC DISTANCE 140.134

RL 150.55 LAL .00 LOL 349.03 VL 16.514 GAL 28.87 AZL 93.94 HCA 39.70 SMA 89.05 ECC .77388 INC 3.9352 V1 29.597
RP 108.37 LAP -2.51 LOP 28.66 VP 30.968 GAP -49.55 AZP 93.03 TAL 170.27 TAP 209.97 RCA 20.14 APO 157.96 V2 34.970
RC 87.380 GL -3.27 GP -3.84 ZAL 60.98 ZAP 32.87 ETS 170.76 ZAE 129.97 ETE 178.40 ZAC 29.97 ETC 34.27 CLP 32.67

PLANETOCENTRIC CONIC

C3 302.039 VHL 17.379 DLA -25.46 RAL 290.09 RAD 6571.7 VEL 20.575 PTH 3.17 VHP 27.782 DPA -23.27 RAP 238.30 ECC 5.3708

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 25 53	1834.58	-8.91	18.70	189.10	116.99	11 56 27	1234.6	-5.22	11.96
90.00	15 8 27	1100.45	14.11	337.05	200.17	114.81	15 26 48	500.4	17.34	329.86
100.00	12 22 37	1651.37	-11.90	3.67	187.53	117.63	12 50 9	1051.4	-8.11	356.33
100.00	16 54 24	758.88	17.17	313.38	201.64	114.85	17 7 3	158.9	20.38	306.06
110.00	12 45 20	1580.12	-18.37	354.64	183.89	119.34	13 11 40	980.1	-14.33	347.86
110.00	18 48 11	5690.94	23.84	267.58	204.97	115.25	20 23 2	5090.9	27.04	259.88

DIFFERENTIAL CORRECTIONS

TDE -.3890 TRA-2.1892 TC3 -.1315 BAU .5313
RDE-1.4164 RRA .3238 RC3 .0048 FAU .01066
FDE .1298 FRA .8291 FC3 -.0306 BSP 2303
BDE 1.4689 BRA 2.2130 BC3 .1316 FSP -59

MID-COURSE EXECUTION ACCURACY

SGT 929.7 SGR 482.0 SG3 28.0
RRT -.0943 RRF .0900 RTF -.6611
SGB 1047.2 R23 -.0051 R13 .6616
SG1 931.2 SG2 479.1 THA 176.19

ORBIT DETERMINATION ACCURACY

ST 272.3 SR 468.3 SS 241.1
CRT .4028 CRS .3563 CST .9953
LSA 504.1 MSA 311.9 SSA 14.9
EL1 485.4 EL2 240.4 ALF 72.36

LAUNCH DATE SEP 12 1965 FLIGHT TIME 78.00 ARRIVAL DATE NOV 29 1965

HELIOCENTRIC CONIC DISTANCE 145.700

RL	150.55	LAL	.00	LOL	349.03	VL	17.210	GAL	27.57	AZL	93.50	HCA	42.88	SMA	90.47	ECC	.74878	INC	3.5005	V1	29.597
RP	108.33	LAP	-2.38	LOP	31.86	VP	31.359	GAP	-47.46	AZP	92.57	TAL	169.39	TAP	212.28	RCA	22.73	APO	158.22	V2	34.983
RC	85.148	GL	-3.20	GP	-3.94	ZAL	59.67	ZAP	31.44	ETS	170.22	ZAE	129.88	ETE	178.68	ZAC	28.67	ETC	36.44	CLP	31.22

PLANETOCENTRIC CONIC

C3 278.184 VHL 16.679 DLA -25.21 RAL 291.51 RAD 6571.6 VEL 19.987 PTH 3.14 VHP 26.806 DPA -23.82 RAP 240.10 ECC 5.5782

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 26 41	1841.19	-9.11	19.08	189.70	116.93	11 57 22	1241.2	-5.43	12.33
90.00	15 19 1	1073.69	14.87	335.45	201.11	114.38	15 36 55	473.7	18.04	328.20
100.00	12 24 27	1654.66	-12.00	3.86	188.19	117.58	12 52 2	1054.7	-8.22	357.12
100.00	17 3 56	735.45	17.83	311.96	202.51	114.39	17 16 12	135.4	20.98	304.58
110.00	12 48 26	1579.42	-18.35	354.60	184.62	119.36	13 14 46	979.4	-14.30	347.82
110.00	18 56 27	5671.49	24.40	266.35	205.73	114.71	20 30 58	5071.5	27.52	258.57

DIFFERENTIAL CORRECTIONS

TDE	-.4126	TRA	-2.2123	TC3	-.1400	BAU	.5210
RDE	-1.3672	RRA	.3371	RC3	.0046	FAU	.01067
FDE	.1457	FRA	.8593	FC3	-.0332	BSP	2443
BDE	1.4281	BRA	2.2378	BC3	.1401	FSP	-64

MID-COURSE EXECUTION ACCURACY

SGT	971.5	SGR	487.0	SG3	30.1		
RRT	-.1018	RRF	.0976	RTF	-.6781		
SGB	1086.7	R23	-.0059	R13	.6787		
SG1	973.2	SG2	483.7	THA	176.12		

ORBIT DETERMINATION ACCURACY

ST	289.4	SR	471.2	SS	254.7		
CRT	.4170	CRS	.3811	CST	.9961		
LSA	516.7	MSA	321.8	SSA	15.1		
EL1	492.4	EL2	251.8	ALF	70.28		

LAUNCH DATE SEP 12 1965 FLIGHT TIME 80.00 ARRIVAL DATE DEC 1 1965

HELIOCENTRIC CONIC DISTANCE 151.382

RL	150.55	LAL	.00	LOL	349.03	VL	17.866	GAL	26.35	AZL	93.11	HCA	46.07	SMA	91.92	ECC	.72374	INC	3.1147	V1	29.597
RP	108.29	LAP	-2.24	LOP	35.06	VP	31.738	GAP	-45.47	AZP	92.16	TAL	168.52	TAP	214.59	RCA	25.39	APO	158.44	V2	34.996
RC	82.926	GL	-3.11	GP	-4.05	ZAL	58.40	ZAP	30.03	ETS	169.63	ZAE	129.85	ETE	178.99	ZAC	27.42	ETC	38.86	CLP	29.78

PLANETOCENTRIC CONIC

C3 256.288 VHL 16.009 DLA -24.93 RAL 292.88 RAD 6571.5 VEL 19.432 PTH 3.11 VHP 25.861 DPA -24.36 RAP 241.93 ECC 5.2179

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 27 7	1847.84	-9.31	19.46	190.22	116.86	11 57 55	1247.8	-5.64	12.71
90.00	15 29 31	1045.83	15.65	333.77	201.95	113.91	15 46 57	445.8	18.75	326.47
100.00	12 25 53	1658.09	-12.11	4.05	188.76	117.54	12 53 32	1058.1	-8.33	357.31
100.00	17 13 25	710.82	18.52	310.45	203.28	113.89	17 25 16	110.8	21.59	303.01
110.00	12 51 10	1578.79	-18.33	354.56	185.27	119.37	13 17 29	978.8	-14.28	347.79
110.00	19 4 38	5650.91	24.98	265.03	206.38	114.13	20 38 49	5050.9	28.02	257.18

DIFFERENTIAL CORRECTIONS

TDE	-.4351	TRA	-2.2357	TC3	-.1488	BAU	.5100
RDE	-1.3177	RRA	.3492	RC3	.0043	FAU	.01070
FDE	.1621	FRA	.8901	FC3	-.0361	BSP	2596
BDE	1.3876	BRA	2.2628	BC3	.1489	FSP	-70

MID-COURSE EXECUTION ACCURACY

SGT	1014.8	SGR	491.5	SG3	32.3		
RRT	-.1098	RRF	.1058	RTF	-.6946		
SGB	1127.6	R23	-.0066	R13	.6952		
SG1	1016.7	SG2	487.6	THA	176.04		

ORBIT DETERMINATION ACCURACY

ST	307.4	SR	473.4	SS	268.9		
CRT	.4293	CRS	.4037	CST	.9968		
LSA	530.3	MSA	331.0	SSA	15.3		
EL1	499.3	EL2	263.3	ALF	68.02		

LAUNCH DATE SEP 12 1965 FLIGHT TIME 82.00 ARRIVAL DATE DEC 3 1965

HELIOCENTRIC CONIC DISTANCE 157.172

RL	150.55	LAL	.00	LOL	349.03	VL	18.485	GAL	25.21	AZL	92.77	HCA	49.26	SMA	93.37	ECC	.69887	INC	2.7679	V1	29.597
RP	108.24	LAP	-2.10	LOP	38.26	VP	32.105	GAP	-43.57	AZP	91.81	TAL	167.66	TAP	216.92	RCA	28.12	APO	158.62	V2	35.010
RC	80.714	GL	-3.01	GP	-4.17	ZAL	57.17	ZAP	28.65	ETS	168.97	ZAE	129.89	ETE	179.33	ZAC	26.21	ETC	41.56	CLP	28.36

PLANETOCENTRIC CONIC

C3 236.171 VHL 15.368 DLA -24.63 RAL 294.20 RAD 6571.4 VEL 18.907 PTH 3.07 VHP 24.945 DPA -24.91 RAP 243.80 ECC 4.8868

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 27 12	1854.46	-9.52	19.84	190.65	116.80	11 58 6	1254.5	-5.85	13.08
90.00	15 39 54	1016.91	16.44	332.01	202.68	113.39	15 56 51	416.9	19.46	324.65
100.00	12 26 57	1661.57	-12.22	4.26	189.24	117.49	12 54 38	1061.6	-8.44	357.50
100.00	17 22 50	685.03	19.22	308.86	203.94	113.34	17 34 15	85.0	22.22	301.35
110.00	12 53 32	1578.19	-18.31	354.52	185.82	119.38	13 19 50	978.2	-14.26	347.75
110.00	19 12 45	5629.22	25.58	263.63	206.92	113.49	20 46 34	5029.2	28.53	255.69

DIFFERENTIAL CORRECTIONS

TDE	-.4564	TRA	-2.2591	TC3	-.1577	BAU	.4982
RDE	-1.2680	RRA	.3601	RC3	.0039	FAU	.01074
FDE	.1789	FRA	.9217	FC3	-.0394	BSP	2765
BDE	1.3476	BRA	2.2877	BC3	.1578	FSP	-77

MID-COURSE EXECUTION ACCURACY

SGT	1059.5	SGR	495.4	SG3	34.8		
RRT	-.1186	RRF	.1146	RTF	-.7105		
SGB	1169.6	R23	-.0074	R13	.7111		
SG1	1061.6	SG2	491.0	THA	175.96		

ORBIT DETERMINATION ACCURACY

ST	326.2	SR	474.8	SS	283.7		
CRT	.4397	CRS	.4241	CST	.9972		
LSA	545.0	MSA	339.2	SSA	15.5		
EL1	506.3	EL2	274.8	ALF	65.57		

LAUNCH DATE SEP 12 1965 FLIGHT TIME 84.00 ARRIVAL DATE DEC 5 1965

HELIOCENTRIC CONIC DISTANCE 163.064

RL	150.55	LAL	.00	LOL	349.03	VL	19.068	GAL	24.13	AZL	92.45	HCA	52.46	SMA	94.83	ECC	.67428	INC	2.4527	V1	29.597
RP	108.20	LAP	-1.94	LOP	41.46	VP	32.459	GAP	-41.76	AZP	91.50	TAL	166.81	TAP	219.26	RCA	30.89	APO	158.77	V2	35.023
RC	78.516	GL	-2.89	GP	-4.31	ZAL	55.99	ZAP	27.28	ETS	168.24	ZAE	129.99	ETE	179.71	ZAC	25.07	ETC	44.59	CLP	26.97

PLANETOCENTRIC CONIC

C3 217.677 VHL 14.754 DLA -24.32 RAL 295.45 RAD 6571.2 VEL 18.412 PTH 3.04 VHP 24.056 DPA -25.44 RAP 245.70 ECC 4.5824

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 26 57	1861.00	-9.72	20.21	190.99	116.73	11 57 58	1261.0	-6.05	13.45
90.00	15 50 11	986.97	17.24	330.18	203.30	112.82	16 6 38	387.0	20.18	322.74
100.00	12 27 39	1665.07	-12.33	4.46	189.63	117.45	12 55 24	1065.1	-8.56	357.70
100.00	17 32 11	658.12	19.94	307.18	204.49	112.74	17 43 9	58.1	22.85	299.60
110.00	12 55 32	1577.58	-18.29	354.49	186.29	119.39	13 21 50	977.6	-14.24	347.72
110.00	19 20 46	5606.42	26.19	262.14	207.34	112.80	20 54 13	5006.4	29.04	254.12

DIFFERENTIAL CORRECTIONS

TDE	-.4801	TRA	-2.2862	TC3	-.1675	BAU	.4876
RDE	-1.2181	RRA	.3700	RC3	.0033	FAU	.01077
FDE	.1967	FRA	.9546	FC3	-.0428	BSP	2860
BDE	1.3093	BRA	2.3159	BC3	.1676	FSP	-83

MID-COURSE EXECUTION ACCURACY

SGT	1108.3	SGR	498.7	SG3	37.4		
RRT	-.1272	RRF	.1240	RTF	-.7257		
SGB	1215.4	R23	-.0089	R13	.7263		
SG1	1110.6	SG2	493.7	THA	175.92		

ORBIT DETERMINATION ACCURACY

ST	347.0	SR	475.4	SS	299.4		
CRT	.4508	CRS	.4435	CST	.9976		
LSA	561.9	MSA	346.4	SSA	15.7		
EL1	514.2	EL2	286.4	ALF	62.69		

LAUNCH DATE SEP 12 1965 FLIGHT TIME 86.00 ARRIVAL DATE DEC 7 1965

DISTANCE 169.053

HELIOCENTRIC CONIC

RL 150.55 LAL .00 LOL 349.03 VL 19.618 GAL 23.11 AZL 92.16 HCA 55.65 SMA 96.29 ECC .65005 INC 2.1632 V1 29.597
RP 108.16 LAP -1.79 LOP 44.66 VP 32.799 GAP -40.03 AZP 91.22 TAL 165.97 TAP 221.62 RCA 33.70 APO 158.89 V2 35.036
RC 76.333 GL -2.76 GP -4.45 ZAL 54.84 ZAP 25.94 ETS 167.41 ZAE 130.16 ETE 180.13 ZAC 24.00 ETC 47.95 CLP 25.58

PLANETOCENTRIC CONIC

C3 200.664 VHL 14.166 DLA -23.99 RAL 296.66 RAD 6571.1 VEL 17.944 PTH 3.00 VHP 23.195 DPA -25.98 RAP 247.64 ECC 4.3024

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 26 23	1867.41	-9.91	20.58	191.24	116.66	11 57 30	1267.4	-6.26	13.81
90.00	16 0 21	956.02	18.04	328.27	203.80	112.20	16 16 17	356.0	20.90	320.76
100.00	12 27 59	1668.56	-12.44	4.66	189.93	117.40	12 55 47	1068.6	-8.67	357.90
100.00	17 41 26	630.10	20.67	305.42	204.93	112.09	17 51 56	30.1	23.48	297.76
110.00	12 57 12	1576.96	-18.27	354.45	186.66	119.41	13 23 29	977.0	-14.21	347.68
110.00	19 28 43	5582.51	26.81	260.56	207.65	112.05	21 1 45	4982.5	29.56	252.45

DIFFERENTIAL CORRECTIONS

TDE -.5104 TRA-2.3207 TC3 -.1791 BAU .4805
RDE-1.1681 RRA .3789 RC3 .0026 FAU .01078
FDE .2160 FRA .9895 FC3 -.0465 BSP 2785
BDE 1.2747 BRA 2.3515 BC3 .1791 FSP -88

MID-COURSE EXECUTION ACCURACY

SGT 1164.3 SGR 501.4 SG3 40.2
RRT -.1347 RRF .1337 RTF -.7400
SGB 1267.7 R23 -.0120 R13 .7407
SG1 1166.7 SG2 495.8 THA 175.95

ORBIT DETERMINATION ACCURACY

ST 371.3 SR 475.1 SS 316.4
CRT .4650 CRS .4623 CST .9978
LSA 582.6 MSA 352.2 SSA 15.9
EL1 524.3 EL2 297.9 ALF 59.09

LAUNCH DATE SEP 12 1965 FLIGHT TIME 88.00 ARRIVAL DATE DEC 9 1965

DISTANCE 175.120

HELIOCENTRIC CONIC

RL 150.55 LAL .00 LOL 349.03 VL 20.136 GAL 22.12 AZL 91.89 HCA 58.85 SMA 97.76 ECC .62621 INC 1.8948 V1 29.597
RP 108.12 LAP -1.62 LOP 47.87 VP 33.126 GAP -38.36 AZP 90.98 TAL 165.15 TAP 224.01 RCA 36.54 APO 158.97 V2 35.049
RC 74.169 GL -2.60 GP -4.61 ZAL 53.75 ZAP 24.62 ETS 166.48 ZAE 130.40 ETE 180.59 ZAC 23.03 ETC 51.66 CLP 24.21

PLANETOCENTRIC CONIC

C3 184.940 VHL 13.599 DLA -23.63 RAL 297.80 RAD 6571.0 VEL 17.500 PTH 2.97 VHP 22.356 DPA -26.50 RAP 249.60 ECC 4.0436

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 25 30	1873.54	-10.10	20.94	191.40	116.59	11 56 43	1273.5	-6.45	14.16
90.00	16 10 20	924.10	18.85	326.28	204.18	111.53	16 25 44	324.1	21.61	318.69
100.00	12 27 58	1671.88	-12.54	4.85	190.13	117.36	12 55 50	1071.9	-8.78	358.08
100.00	17 50 32	600.99	21.40	303.57	205.24	111.38	18 0 33	1.0	24.12	295.83
110.00	12 58 29	1576.18	-18.24	354.41	186.94	119.42	13 24 45	976.2	-14.19	347.64
110.00	19 36 31	5557.49	27.44	258.88	207.83	111.24	21 9 8	4957.5	30.07	250.68

DIFFERENTIAL CORRECTIONS

TDE -.4009 TRA-2.2159 TC3 -.1613 BAU .3987
RDE-1.1211 RRA .3835 RC3 .0011 FAU .01165
FDE .2175 FRA 1.0073 FC3 -.0545 BSP 6038
BDE 1.1907 BRA 2.2488 BC3 .1613 FSP -131

MID-COURSE EXECUTION ACCURACY

SGT 1122.2 SGR 504.2 SG3 42.8
RRT -.1789 RRF .1523 RTF -.7607
SGB 1230.3 R23 .0168 R13 .7607
SG1 1126.7 SG2 494.1 THA 174.31

ORBIT DETERMINATION ACCURACY

ST 349.5 SR 475.3 SS 321.6
CRT .3829 CRS .4540 CST .9949
LSA 565.1 MSA 363.2 SSA 15.1
EL1 506.1 EL2 303.3 ALF 64.60

LAUNCH DATE SEP 12 1965 FLIGHT TIME 90.00 ARRIVAL DATE DEC 11 1965

DISTANCE 181.290

HELIOCENTRIC CONIC

RL 150.55 LAL .00 LOL 349.03 VL 20.625 GAL 21.20 AZL 91.64 HCA 62.06 SMA 99.21 ECC .60295 INC 1.6437 V1 29.597
RP 108.08 LAP -1.45 LOP 51.07 VP 33.439 GAP -36.78 AZP 90.77 TAL 164.35 TAP 226.40 RCA 39.39 APO 159.03 V2 35.063
RC 72.025 GL -2.42 GP -4.77 ZAL 52.69 ZAP 23.32 ETS 165.43 ZAE 130.71 ETE 181.10 ZAC 22.17 ETC 55.76 CLP 22.85

PLANETOCENTRIC CONIC

C3 170.559 VHL 13.060 DLA -23.26 RAL 298.89 RAD 6570.8 VEL 17.085 PTH 2.93 VHP 21.545 DPA -27.02 RAP 251.59 ECC 3.8070

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 24 18	1879.75	-10.29	21.29	191.49	116.53	11 55 38	1279.8	-6.65	14.51
90.00	16 20 16	891.12	19.66	324.20	204.45	110.80	16 35 7	291.1	22.32	316.53
100.00	12 27 37	1675.36	-12.65	5.05	190.26	117.31	12 55 33	1075.4	-8.89	358.28
100.00	17 59 37	5858.79	22.14	279.53	205.45	110.61	19 37 16	5258.8	24.75	271.71
110.00	12 59 27	1575.56	-18.22	354.37	187.14	119.43	13 25 43	975.6	-14.16	347.61
110.00	19 44 17	5531.35	-28.07	257.11	207.90	110.36	21 16 28	4931.4	30.58	248.81

DIFFERENTIAL CORRECTIONS

TDE -.5112 TRA-2.3323 TC3 -.1906 BAU .4346
RDE-1.0696 RRA .3926 RC3 .0003 FAU .01119
FDE .2489 FRA 1.0552 FC3 -.0568 BSP 4012
BDE 1.1855 BRA 2.3651 BC3 .1906 FSP -115

MID-COURSE EXECUTION ACCURACY

SGT 1240.4 SGR 505.3 SG3 46.4
RRT -.1659 RRF .1590 RTF -.7691
SGB 1339.3 R23 -.0071 R13 .7698
SG1 1243.7 SG2 497.0 THA 175.40

ORBIT DETERMINATION ACCURACY

ST 402.7 SR 472.6 SS 347.2
CRT .4542 CRS .4848 CST .9976
LSA 611.5 MSA 363.1 SSA 16.0
EL1 533.3 EL2 317.9 ALF 54.75

LAUNCH DATE SEP 12 1965 FLIGHT TIME 92.00 ARRIVAL DATE DEC 13 1965

DISTANCE 187.531

HELIOCENTRIC CONIC

RL 150.55 LAL .00 LOL 349.03 VL 21.085 GAL 20.32 AZL 91.41 HCA 65.26 SMA 100.65 ECC .58021 INC 1.4070 V1 29.597
RP 108.04 LAP -1.28 LOP 54.28 VP 33.738 GAP -35.25 AZP 90.59 TAL 163.56 TAP 228.82 RCA 42.25 APO 159.05 V2 35.076
RC 69.906 GL -2.22 GP -4.96 ZAL 51.67 ZAP 22.04 ETS 164.22 ZAE 131.10 ETE 181.67 ZAC 21.44 ETC 60.22 CLP 21.51

PLANETOCENTRIC CONIC

C3 157.280 VHL 12.541 DLA -22.86 RAL 299.93 RAD 6570.7 VEL 16.692 PTH 2.89 VHP 20.756 DPA -27.53 RAP 253.62 ECC 3.5884

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 22 47	1885.76	-10.47	21.64	191.48	116.46	11 54 13	1285.8	-6.84	14.85
90.00	16 30 2	857.14	20.47	322.03	204.59	110.00	16 44 20	257.1	23.01	314.28
100.00	12 26 56	1678.73	-12.76	5.25	190.30	117.26	12 54 54	1078.7	-9.00	358.47
100.00	18 8 35	5827.44	22.88	277.50	205.53	109.78	19 45 42	5227.4	25.36	269.58
110.00	13 0 3	1574.86	-18.20	354.33	187.25	119.45	13 26 18	974.9	-14.14	347.57
110.00	19 51 56	5504.08	28.70	255.24	207.83	109.42	21 23 41	4904.1	31.07	246.84

DIFFERENTIAL CORRECTIONS

TDE -.5381 TRA-2.3658 TC3 -.2026 BAU .4259
RDE-1.0200 RRA .3988 RC3 -.0011 FAU .01125
FDE .2700 FRA 1.0937 FC3 -.0619 BSP 3966
BDE 1.1532 BRA 2.3991 BC3 .2026 FSP -122

MID-COURSE EXECUTION ACCURACY

SGT 1301.7 SGR 506.2 SG3 49.9
RRT -.1760 RRF .1715 RTF -.7816
SGB 1396.7 R23 -.0106 R13 .7823
SG1 1305.3 SG2 497.0 THA 175.42

ORBIT DETERMINATION ACCURACY

ST 429.5 SR 469.8 SS 366.2
CRT .4643 CRS .4987 CST .9975
LSA 636.8 MSA 365.5 SSA 16.2
EL1 545.9 EL2 327.4 ALF 50.47

LAUNCH DATE SEP 12 1965 FLIGHT TIME 94.00 ARRIVAL DATE DEC 15 1965

HELIOCENTRIC CONIC DISTANCE 193.845

RL	150.55	LAL	.00	LOL	349.03	VL	21.518	GAL	19.47	AZL	91.18	HCA	68.47	SMA	102.08	ECC	.55806	INC	1.1820	V1	29.597
RP	108.00	LAP	-1.10	LOP	57.49	VP	34.024	GAP	-33.78	AZP	90.43	TAL	162.80	TAP	231.27	RCA	45.11	APO	159.05	V2	35.089
RC	67.813	GL	-1.99	GP	-5.16	ZAL	50.69	ZAP	20.79	ETS	162.83	ZAE	131.56	ETE	182.30	ZAC	20.86	ETC	65.01	CLP	20.17

PLANETOCENTRIC CONIC

C3 145.046 VHL 12.043 DLA -22.44 RAL 300.91 RAD 6570.6 VEL 16.321 PTH 2.86 VHP 19.991 DPA -28.04 RAP 255.66 ECC 3.3871

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 20 57	1891.68	-10.65	21.98	191.38	116.39	11 52 28	1291.7	-7.02	15.19
90.00	16 39 42	822.11	21.27	319.77	204.61	109.15	16 53 24	222.1	23.69	311.93
100.00	12 25 53	1682.10	-12.86	5.44	190.24	117.22	12 53 55	1082.1	-9.11	358.66
100.00	18 17 27	5794.97	23.61	275.36	205.48	108.89	19 54 2	5195.0	25.97	267.36
110.00	13 0 19	1574.16	-18.18	354.29	187.27	119.46	13 26 33	974.2	-14.11	347.53
110.00	19 59 30	5475.67	29.33	253.27	207.64	108.40	21 30 46	4875.7	31.56	244.77

DIFFERENTIAL CORRECTIONS

TDE	-.5562	TRA	-2.3908	TC3	-.2128	BAU	.4127												
RDE	-.9710	RRA	.4041	RC3	-.0028	FAU	.01139												
FDE	.2908	FRA	1.1326	FC3	-.0680	BSP	4115												
BDE	1.1190	BRA	2.4247	BC3	.2128	FSP	-132												

MID-COURSE EXECUTION ACCURACY

SGT	1359.1	SGR	506.6	SG3	53.7						
RRT	-.1891	RRF	.1857	RTF	-.7938						
SGB	1450.5	R23	-.0128	R13	.7945						
SG1	1363.0	SG2	496.1	THA	175.35						

ORBIT DETERMINATION ACCURACY

ST	454.5	SR	466.1	SS	385.3						
CRT	.4683	CRS	.5097	CST	.9973						
LSA	661.2	MSA	367.1	SSA	16.3						
EL1	557.9	EL2	335.5	ALF	46.55						

LAUNCH DATE SEP 12 1965 FLIGHT TIME 96.00 ARRIVAL DATE DEC 17 1965

HELIOCENTRIC CONIC DISTANCE 200.226

RL	150.55	LAL	.00	LOL	349.03	VL	21.926	GAL	18.66	AZL	90.97	HCA	71.68	SMA	103.50	ECC	.53655	INC	.9665	V1	29.597
RP	107.96	LAP	-.92	LOP	60.71	VP	34.296	GAP	-32.36	AZP	90.30	TAL	162.06	TAP	233.74	RCA	47.97	APO	159.03	V2	35.101
RC	65.751	GL	-1.74	GP	-5.38	ZAL	49.76	ZAP	19.57	ETS	161.23	ZAE	132.10	ETE	183.00	ZAC	20.46	ETC	70.10	CLP	18.84

PLANETOCENTRIC CONIC

C3 133.778 VHL 11.566 DLA -22.00 RAL 301.83 RAD 6570.4 VEL 15.972 PTH 2.82 VHP 19.247 DPA -28.54 RAP 257.74 ECC 3.2016

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 18 47	1897.57	-10.83	22.32	191.21	116.32	11 50 24	1297.6	-7.21	15.52
90.00	16 49 14	786.01	22.06	317.42	204.50	108.22	17 2 20	186.0	24.34	309.49
100.00	12 24 29	1685.31	-12.97	5.64	190.10	117.17	12 52 34	1085.5	-9.22	358.85
100.00	18 26 13	5761.34	24.33	273.13	205.30	107.92	20 2 15	5161.3	26.55	265.03
110.00	13 0 12	1573.52	-18.15	354.25	187.20	119.47	13 26 26	973.5	-14.09	347.49
110.00	20 6 59	5446.10	29.95	251.19	207.31	107.31	21 37 45	4846.1	32.02	242.59

DIFFERENTIAL CORRECTIONS

TDE	-.5729	TRA	-2.4149	TC3	-.2231	BAU	.3991												
RDE	-.9223	RRA	.4087	RC3	-.0049	FAU	.01154												
FDE	.3124	FRA	1.1731	FC3	-.0747	BSP	4276												
BDE	1.0857	BRA	2.4492	BC3	.2231	FSP	-143												

MID-COURSE EXECUTION ACCURACY

SGT	1418.3	SGR	506.5	SG3	57.7						
RRT	-.2036	RRF	.2013	RTF	-.8054						
SGB	1506.0	R23	-.0150	R13	.8062						
SG1	1422.5	SG2	494.4	THA	175.27						

ORBIT DETERMINATION ACCURACY

ST	480.2	SR	461.5	SS	405.0						
CRT	.4706	CRS	.5193	CST	.9970						
LSA	687.2	MSA	367.6	SSA	16.5						
EL1	571.4	EL2	342.3	ALF	42.59						

LAUNCH DATE SEP 12 1965 FLIGHT TIME 98.00 ARRIVAL DATE DEC 19 1965

HELIOCENTRIC CONIC DISTANCE 206.669

RL	150.55	LAL	.00	LOL	349.03	VL	22.311	GAL	17.88	AZL	90.76	HCA	74.90	SMA	104.89	ECC	.51569	INC	.7588	V1	29.597
RP	107.92	LAP	-.73	LOP	63.92	VP	34.556	GAP	-31.00	AZP	90.20	TAL	161.34	TAP	236.24	RCA	50.80	APO	158.97	V2	35.114
RC	63.722	GL	-1.45	GP	-5.62	ZAL	48.87	ZAP	18.37	ETS	159.36	ZAE	132.73	ETE	183.78	ZAC	20.24	ETC	75.39	CLP	17.52

PLANETOCENTRIC CONIC

C3 123.402 VHL 11.109 DLA -21.53 RAL 302.70 RAD 6570.3 VEL 15.644 PTH 2.78 VHP 18.525 DPA -29.04 RAP 259.84 ECC 3.0309

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 16 16	1903.49	-11.01	22.67	190.94	116.25	11 47 59	1303.5	-7.39	15.86
90.00	16 58 41	748.81	22.83	314.96	204.25	107.23	17 11 9	148.8	24.97	306.95
100.00	12 22 43	1689.03	-13.08	5.84	189.88	117.12	12 50 52	1089.0	-9.34	359.05
100.00	18 34 55	5726.55	25.04	270.78	204.99	106.88	20 10 21	5126.5	27.11	262.60
110.00	12 59 44	1572.99	-18.14	354.22	187.05	119.48	13 25 57	973.0	-14.07	347.46
110.00	20 14 23	5415.35	30.55	248.99	206.84	106.14	21 44 38	4815.4	32.46	240.30

DIFFERENTIAL CORRECTIONS

TDE	-.5881	TRA	-2.4378	TC3	-.2332	BAU	.3849												
RDE	-.8740	RRA	.4129	RC3	-.0074	FAU	.01172												
FDE	.3347	FRA	1.2154	FC3	-.0822	BSP	4452												
BDE	1.0535	BRA	2.4725	BC3	.2333	FSP	-154												

MID-COURSE EXECUTION ACCURACY

SGT	1479.0	SGR	505.9	SG3	62.1						
RRT	-.2194	RRF	.2184	RTF	-.8165						
SGB	1563.1	R23	-.0174	R13	.8174						
SG1	1483.7	SG2	492.0	THA	175.18						

ORBIT DETERMINATION ACCURACY

ST	506.7	SR	456.0	SS	425.6						
CRT	.4714	CRS	.5273	CST	.9966						
LSA	714.6	MSA	367.2	SSA	16.6						
EL1	586.4	EL2	347.4	ALF	38.69						

LAUNCH DATE SEP 12 1965 FLIGHT TIME 100.00 ARRIVAL DATE DEC 21 1965

HELIOCENTRIC CONIC DISTANCE 213.169

RL	150.55	LAL	.00	LOL	349.03	VL	22.672	GAL	17.14	AZL	90.56	HCA	78.11	SMA	106.25	ECC	.49551	INC	.5571	V1	29.597
RP	107.89	LAP	-.55	LOP	67.14	VP	34.803	GAP	-29.69	AZP	90.12	TAL	160.65	TAP	238.76	RCA	53.60	APO	158.90	V2	35.126
RC	61.731	GL	-1.13	GP	-5.89	ZAL	48.01	ZAP	17.21	ETS	157.18	ZAE	133.44	ETE	184.66	ZAC	20.22	ETC	80.79	CLP	16.20

PLANETOCENTRIC CONIC

C3 113.850 VHL 10.670 DLA -21.04 RAL 303.51 RAD 6570.2 VEL 15.336 PTH 2.75 VHP 17.824 DPA -29.53 RAP 261.96 ECC 2.8737

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 13 23	1909.55	-11.19	23.02	190.60	116.18	11 45 12	1309.5	-7.58	16.20
90.00	17 8 2	710.46	23.58	312.40	203.87	106.15	17 19 52	110.5	25.57	304.30
100.00	12 20 34	1692.73	-13.19	6.06	189.57	117.07	12 48 47	1092.7	-9.46	359.26
100.00	18 43 32	5690.55	25.73	268.33	204.55	105.77	20 18 22	5090.5	27.64	260.05
110.00	12 58 53	1572.65	-18.13	354.20	186.82	119.49	13 25 5	972.6	-14.06	347.44
110.00	20 21 42	5383.40	31.13	246.69	206.23	104.89	21 51 26	4783.4	32.86	237.89

DIFFERENTIAL CORRECTIONS

TDE	-.6002	TRA	-2.4577	TC3	-.2424	BAU	.3693												
RDE	-.8263	RRA	.4166	RC3	-.0104	FAU	.01194												
FDE	.3577	FRA	1.2594	FC3	-.0908	BSP	4686												
BDE	1.0213	BRA	2.4928	BC3	.2426	FSP	-168												

MID-COURSE EXECUTION ACCURACY

SGT	1539.8	SGR	504.8	SG3	66.9						
RRT	-.2373	RRF	.2373	RTF	-.8272						
SGB	1620.4	R23	-.0196	R13	.8281						
SG1	1544.9	SG2	488.7	THA	175.06						

ORBIT DETERMINATION ACCURACY

ST	533.0	SR	449.5	SS	446.8						
CRT	.4697	CRS	.5336	CST	.9961						
LSA	742.7	MSA	365.9	SSA	16.7						
EL1	602.3	EL2	351.1	ALF	34.99						

LAUNCH DATE SEP 12 1965 FLIGHT TIME 102.00 ARRIVAL DATE DEC 23 1965

HELIOCENTRIC CONIC DISTANCE 219.721

RL 150.55 LAL .00 LOL 349.03 VL 23.012 GAL 16.42 AZL 90.36 HCA 81.33 SMA 107.59 ECC .47603 INC .3600 VI 29.597
RP 107.85 LAP -.36 LOP 70.36 VP 35.037 GAP -28.43 AZP 90.05 TAL 159.99 TAP 241.32 RCA 56.37 APO 158.81 V2 35.138
RC 59.781 GL -.78 GP -6.17 ZAL 47.20 ZAP 16.09 ETS 154.60 ZAE 134.23 ETE 185.64 ZAC 20.40 ETC 86.18 CLP 14.89

PLANETOCENTRIC CONIC

C3 105.059 VHL 10.250 DLA -20.51 RAL 304.26 RAD 6570.0 VEL 15.047 PTH 2.71 VHP 17.143 DPA -30.02 RAP 264.10 ECC 2.7290

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 10 7	1915.84	-11.38	23.39	190.17	116.10	11 42 3	1315.8	-7.78	16.56
90.00	17 17 18	670.92	24.30	309.73	203.36	105.00	17 28 29	70.9	26.13	301.54
100.00	12 18 1	1696.72	-13.32	6.29	189.18	117.01	12 46 18	1096.7	-9.59	359.48
100.00	18 52 5	5653.31	26.39	265.76	203.97	104.57	20 26 19	5053.3	28.14	257.39
110.00	12 57 38	1572.59	-18.12	354.20	186.50	119.49	13 23 50	972.6	-14.06	347.44
110.00	20 28 58	5350.22	31.69	244.26	205.49	103.55	21 58 8	4750.2	33.22	235.37

DIFFERENTIAL CORRECTIONS
TDE -.6113 TRA-2.4768 TC3 -.2513 BAU .3535
RDE -.7791 RRA .4201 RC3 -.0139 FAU .01219
FDE .3818 FRA 1.3057 FC3 -.1005 BSP 4923
BDE .9903 BRA 2.5122 BC3 .2517 FSP -183

MID-COURSE EXECUTION ACCURACY
SGT 1602.3 SGR 503.3 SG3 72.0
RRT -.2568 RRF .2580 RTF -.8374
SGB 1679.5 R23 -.0221 R13 .8383
SG1 1608.1 SG2 484.7 THA 174.93

ORBIT DETERMINATION ACCURACY
ST 560.1 SR 442.0 SS 469.0
CRT .4665 CRS .5386 CST .9954
LSA 772.3 MSA 363.6 SSA 16.8
EL1 619.9 EL2 353.2 ALF 31.43

LAUNCH DATE SEP 12 1965 FLIGHT TIME 104.00 ARRIVAL DATE DEC 25 1965

HELIOCENTRIC CONIC DISTANCE 226.320

RL 150.55 LAL .00 LOL 349.03 VL 23.332 GAL 15.74 AZL 90.17 HCA 84.55 SMA 108.90 ECC .45726 INC .1657 VI 29.597
RP 107.81 LAP -.17 LOP 73.58 VP 35.260 GAP -27.20 AZP 90.02 TAL 159.35 TAP 243.91 RCA 59.10 APO 158.69 V2 35.149
RC 57.879 GL -.38 GP -6.49 ZAL 46.44 ZAP 15.02 ETS 151.56 ZAE 135.12 ETE 186.75 ZAC 20.79 ETC 91.44 CLP 13.58

PLANETOCENTRIC CONIC

C3 96.974 VHL 9.848 DLA -19.95 RAL 304.96 RAD 6569.9 VEL 14.776 PTH 2.67 VHP 16.483 DPA -30.52 RAP 266.26 ECC 2.5960

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 6 28	1922.49	-11.58	23.77	189.67	116.02	11 38 30	1322.5	-7.99	16.94
90.00	17 26 31	630.15	24.99	306.94	202.72	103.77	17 37 1	30.2	26.64	298.66
100.00	12 15 4	1701.12	-13.45	6.55	188.72	116.95	12 43 25	1101.1	-9.73	359.73
100.00	19 0 36	5614.80	27.02	263.07	203.26	103.29	20 34 11	5014.8	28.58	254.62
110.00	12 55 58	1572.91	-18.13	354.22	186.11	119.49	13 22 11	972.9	-14.07	347.46
110.00	20 36 11	5315.77	32.21	241.71	204.60	102.13	22 4 47	4715.8	33.54	232.73

DIFFERENTIAL CORRECTIONS
TDE -.6211 TRA-2.4946 TC3 -.2597 BAU .3374
RDE -.7324 RRA .4234 RC3 -.0180 FAU .01247
FDE .4070 FRA 1.3543 FC3 -.1113 BSP 5173
BDE .9603 BRA 2.5303 BC3 .2603 FSP -200

MID-COURSE EXECUTION ACCURACY
SGT 1666.3 SGR 501.6 SG3 77.6
RRT -.2783 RRF .2810 RTF -.8471
SGB 1740.1 R23 -.0248 R13 .8480
SG1 1672.7 SG2 479.9 THA 174.78

ORBIT DETERMINATION ACCURACY
ST 587.7 SR 433.3 SS 492.0
CRT .4617 CRS .5419 CST .9947
LSA 803.2 MSA 360.5 SSA 16.9
EL1 638.9 EL2 353.6 ALF 28.08

LAUNCH DATE SEP 12 1965 FLIGHT TIME 106.00 ARRIVAL DATE DEC 27 1965

HELIOCENTRIC CONIC DISTANCE 232.961

RL 150.55 LAL .00 LOL 349.03 VL 23.633 GAL 15.08 AZL 89.97 HCA 87.78 SMA 110.18 ECC .43920 INC .0185 VI 29.597
RP 107.78 LAP .03 LOP 76.80 VP 35.470 GAP -26.02 AZP 90.00 TAL 158.75 TAP 246.53 RCA 61.79 APO 158.57 V2 35.160
RC 56.028 GL .06 GP -6.84 ZAL 45.71 ZAP 14.02 ETS 147.95 ZAE 136.09 ETE 188.01 ZAC 21.38 ETC 96.47 CLP 12.27

PLANETOCENTRIC CONIC

C3 89.544 VHL 9.463 DLA -19.36 RAL 305.60 RAD 6569.8 VEL 14.522 PTH 2.64 VHP 15.842 DPA -31.01 RAP 268.44 ECC 2.4737

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 2 22	1929.66	-11.79	24.19	189.09	115.93	11 34 32	1329.7	-8.21	17.34
90.00	17 35 42	5876.14	25.64	281.94	201.93	102.45	19 13 38	5276.1	27.10	273.58
100.00	12 11 40	1706.06	-13.60	6.83	188.17	116.88	12 40 6	1106.1	-9.89	.01
100.00	19 9 6	5574.97	27.62	260.26	202.41	101.92	20 42 1	4975.0	28.98	251.73
110.00	12 53 53	1573.76	-18.16	354.27	185.64	119.47	13 20 7	973.8	-14.10	347.51
110.00	20 43 22	5280.04	32.69	239.03	203.58	100.61	22 11 22	4680.0	33.80	229.97

DIFFERENTIAL CORRECTIONS
TDE -.6326 TRA-2.5143 TC3 -.2687 BAU .3228
RDE -.6862 RRA .4270 RC3 -.0227 FAU .01276
FDE .4341 FRA 1.4062 FC3 -.1233 BSP 5359
BDE .9333 BRA 2.5503 BC3 .2696 FSP -216

MID-COURSE EXECUTION ACCURACY
SGT 1734.6 SGR 499.6 SG3 83.7
RRT -.3014 RRF .3062 RTF -.8561
SGB 1805.2 R23 -.0287 R13 .8571
SG1 1741.7 SG2 474.4 THA 174.64

ORBIT DETERMINATION ACCURACY
ST 617.5 SR 423.6 SS 516.6
CRT .4564 CRS .5439 CST .9939
LSA 836.9 MSA 356.2 SSA 17.0
EL1 660.8 EL2 352.2 ALF 24.89

LAUNCH DATE SEP 12 1965 FLIGHT TIME 108.00 ARRIVAL DATE DEC 29 1965

HELIOCENTRIC CONIC DISTANCE 239.640

RL 150.55 LAL .00 LOL 349.03 VL 23.915 GAL 14.45 AZL 89.78 HCA 91.00 SMA 111.42 ECC .42186 INC .2161 VI 29.597
RP 107.75 LAP .22 LOP 80.03 VP 35.670 GAP -24.88 AZP 90.00 TAL 158.18 TAP 249.18 RCA 64.42 APO 158.42 V2 35.171
RC 54.237 GL .55 GP -7.23 ZAL 45.04 ZAP 13.10 ETS 143.67 ZAE 137.16 ETE 189.44 ZAC 22.16 ETC 101.18 CLP 10.95

PLANETOCENTRIC CONIC

C3 82.720 VHL 9.095 DLA -18.72 RAL 306.18 RAD 6569.6 VEL 14.285 PTH 2.60 VHP 15.221 DPA -31.51 RAP 270.63 ECC 2.3614

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 57 50	1937.51	-12.03	24.65	188.45	115.83	11 30 7	1337.5	-8.45	17.79
90.00	17 44 52	5832.74	26.24	278.90	201.01	101.04	19 22 5	5232.7	27.50	270.46
100.00	12 7 48	1711.70	-13.78	7.16	187.56	116.79	12 36 20	1111.7	-10.07	.33
100.00	19 17 35	5533.78	28.16	257.32	201.42	100.47	20 49 48	4933.8	29.32	248.71
110.00	12 51 21	1575.27	-18.21	354.35	185.09	119.44	13 17 36	975.3	-14.15	347.59
110.00	20 50 31	5242.97	33.12	236.22	202.41	99.00	22 17 54	4643.0	34.00	227.10

DIFFERENTIAL CORRECTIONS
TDE -.6409 TRA-2.5306 TC3 -.2761 BAU .3070
RDE -.6407 RRA .4308 RC3 -.0283 FAU .01309
FDE .4623 FRA 1.4607 FC3 -.1370 BSP 5601
BDE .9062 BRA 2.5670 BC3 .2776 FSP -235

MID-COURSE EXECUTION ACCURACY
SGT 1802.4 SGR 497.6 SG3 90.2
RRT -.3273 RRF .3342 RTF -.8647
SGB 1869.9 R23 -.0324 R13 .8658
SG1 1810.3 SG2 468.2 THA 174.47

ORBIT DETERMINATION ACCURACY
ST 646.7 SR 412.6 SS 542.0
CRT .4480 CRS .5438 CST .9930
LSA 871.0 MSA 351.3 SSA 17.1
EL1 683.0 EL2 349.3 ALF 21.98

LAUNCH DATE SEP 12 1965 FLIGHT TIME 110.00 ARRIVAL DATE DEC 31 1965

HELIOCENTRIC CONIC DISTANCE 246.353

RL	150.55	LAL	.00	LOL	349.03	VL	24.181	GAL	13.85	AZL	89.59	HCA	94.23	SMA	112.62	ECC	.40523	INC	.4081	VI	29.597
RP	107.72	LAP	.41	LOP	83.25	VP	35.858	GAP	-23.78	AZP	90.03	TAL	157.64	TAP	251.87	RCA	66.99	APO	158.26	V2	35.181
RC	52.511	GL	1.10	GP	-7.65	ZAL	44.41	ZAP	12.28	ETS	138.61	ZAE	138.31	ETE	191.07	ZAC	23.11	ETC	105.53	CLP	9.64

PLANETOCENTRIC CONIC

C3	76.458	VHL	8.744	DLA	-18.04	RAL	306.70	RAD	6569.5	VEL	14.064	PTH	2.56	VHP	14.619	DPA	-32.02	RAP	272.84	ECC	2.2583

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 52 47	1946.23	-12.28	25.16	187.73	115.71	11 25 14	1346.2	-8.72	18.29
90.00	17 54 2	5787.93	26.79	275.74	199.96	99.55	19 30 30	5187.9	27.83	267.23
100.00	12 3 27	1718.23	-13.98	7.54	186.87	116.69	12 32 5	1118.2	-10.28	.70
100.00	19 26 4	5491.16	28.65	254.25	200.30	98.92	20 57 35	4891.2	29.58	245.57
110.00	12 48 19	1577.62	-18.29	354.49	184.48	119.39	13 14 37	977.6	-14.24	347.72
110.00	20 57 41	5204.53	33.49	233.29	201.11	97.30	22 24 25	4604.5	34.13	224.10

DIFFERENTIAL CORRECTIONS								MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TDE	-.6483	TRA	-2.5457	TC3	-.2825	BAU	.2909	SGT	1871.4	SGR	495.8	SG3	97.4	ST	676.5	SR	400.5	SS	568.6
RDE	-.5956	RRA	.4351	RC3	-.0346	FAU	.01347	RRT	-.3559	RRF	.3651	RTF	-.8729	CRT	.4373	CRS	.5415	CST	.9920
FDE	.4922	FRA	1.5185	FC3	-.1525	BSP	5856	SGB	1936.0	R23	-.0367	R13	.8741	LSA	906.5	MSA	345.5	SSA	17.2
BDE	.8804	BRA	2.5826	BC3	.2846	FSP	-256	SG1	1880.3	SG2	461.2	THA	174.27	EL1	706.5	EL2	344.9	ALF	19.28

LAUNCH DATE SEP 12 1965 FLIGHT TIME 112.00 ARRIVAL DATE JAN 2 1966

HELIOCENTRIC CONIC DISTANCE 253.094

RL	150.55	LAL	.00	LOL	349.03	VL	24.429	GAL	13.28	AZL	89.40	HCA	97.46	SMA	113.79	ECC	.38932	INC	.6015	VI	29.597
RP	107.69	LAP	.60	LOP	86.48	VP	36.036	GAP	-22.72	AZP	90.08	TAL	157.13	TAP	254.59	RCA	69.49	APO	158.09	V2	35.191
RC	50.858	GL	1.70	GP	-8.12	ZAL	43.82	ZAP	11.60	ETS	132.71	ZAE	139.55	ETE	192.94	ZAC	24.22	ETC	109.48	CLP	8.31

PLANETOCENTRIC CONIC

C3	70.718	VHL	8.409	DLA	-17.31	RAL	307.15	RAD	6569.4	VEL	13.859	PTH	2.53	VHP	14.035	DPA	-32.55	RAP	275.07	ECC	2.1638

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 47 13	1956.04	-12.57	25.74	186.95	115.58	11 19 49	1356.0	-9.03	18.85
90.00	18 3 15	5741.63	27.27	272.43	198.77	97.96	19 38 57	5141.6	28.08	263.86
100.00	11 58 34	1725.85	-14.21	7.99	186.13	116.58	12 27 19	1125.9	-10.53	1.14
100.00	19 34 36	5447.05	29.07	251.04	199.04	97.28	21 5 23	4847.0	29.78	242.30
110.00	12 44 48	1581.00	-18.40	354.69	183.81	119.33	13 11 9	981.0	-14.36	347.91
110.00	21 4 51	5164.67	33.79	230.21	199.66	95.51	22 30 56	4564.7	34.18	220.99

DIFFERENTIAL CORRECTIONS								MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TDE	-.6546	TRA	-2.5596	TC3	-.2878	BAU	.2750	SGT	1941.6	SGR	494.5	SG3	105.1	ST	706.7	SR	387.0	SS	596.6
RDE	-.5510	RRA	.4401	RC3	-.0420	FAU	.01387	RRT	-.3876	RRF	.3993	RTF	-.8807	CRT	.4234	CRS	.5366	CST	.9909
FDE	.5242	FRA	1.5801	FC3	-.1699	BSP	6114	SGB	2003.6	R23	-.0414	R13	.8820	LSA	943.4	MSA	339.0	SSA	17.7
BDE	.8556	BRA	2.5972	BC3	.2508	FSP	-279	SG1	1951.6	SG2	453.5	THA	174.04	EL1	731.0	EL2	339.0	ALF	16.76

LAUNCH DATE SEP 12 1965 FLIGHT TIME 114.00 ARRIVAL DATE JAN 4 1966

HELIOCENTRIC CONIC DISTANCE 259.861

RL	150.55	LAL	.00	LOL	349.03	VL	24.663	GAL	12.72	AZL	89.20	HCA	100.69	SMA	114.92	ECC	.37411	INC	.7979	VI	29.597
RP	107.66	LAP	.78	LOP	89.71	VP	36.203	GAP	-21.68	AZP	90.15	TAL	156.66	TAP	257.35	RCA	71.93	APO	157.91	V2	35.200
RC	49.288	GL	2.37	GP	-8.65	ZAL	43.29	ZAP	11.10	ETS	125.95	ZAE	140.86	ETE	195.10	ZAC	25.48	ETC	113.03	CLP	6.98

PLANETOCENTRIC CONIC

C3	65.466	VHL	8.091	DLA	-16.53	RAL	307.55	RAD	6569.2	VEL	13.668	PTH	2.50	VHP	13.471	DPA	-33.10	RAP	277.30	ECC	2.0774

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 41 5	1967.19	-12.90	26.39	186.11	115.43	11 13 52	1367.2	-9.37	19.49
90.00	18 12 32	5693.77	27.67	268.99	197.45	96.27	19 47 25	5093.8	28.25	260.37
100.00	11 53 6	1734.81	-14.48	8.52	185.32	116.44	12 22 1	1134.8	-10.82	1.65
100.00	19 43 12	5401.38	29.42	247.69	197.66	95.55	21 13 13	4801.4	29.88	238.91
110.00	12 40 43	1585.64	-18.56	354.96	183.08	119.24	13 7 9	985.6	-14.52	348.17
110.00	21 12 4	5123.32	34.01	227.00	198.09	93.62	22 37 27	4523.3	34.14	217.76

DIFFERENTIAL CORRECTIONS								MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TDE	-.6607	TRA	-2.5725	TC3	-.2920	BAU	.2593	SGT	2013.2	SGR	493.9	SG3	113.6	ST	737.6	SR	372.2	SS	626.3
RDE	-.5067	RRA	.4462	RC3	-.0504	FAU	.01432	RRT	-.4222	RRF	.4369	RTF	-.8880	CRT	.4063	CRS	.5285	CST	.9897
FDE	.5586	FRA	1.6457	FC3	-.1894	BSP	6370	SGB	2072.9	R23	-.0470	R13	.8894	LSA	982.1	MSA	331.7	SSA	17.3
BDE	.8326	BRA	2.6109	BC3	.2963	FSP	-304	SG1	2024.5	SG2	445.2	THA	173.78	EL1	756.8	EL2	331.5	ALF	14.41

LAUNCH DATE SEP 12 1965 FLIGHT TIME 116.00 ARRIVAL DATE JAN 6 1966

HELIOCENTRIC CONIC DISTANCE 266.648

RL	150.55	LAL	.00	LOL	349.03	VL	24.881	GAL	12.19	AZL	89.00	HCA	103.92	SMA	116.01	ECC	.35961	INC	.9987	VI	29.597
RP	107.63	LAP	.97	LOP	92.95	VP	36.360	GAP	-20.68	AZP	90.24	TAL	156.22	TAP	260.14	RCA	74.29	APO	157.72	V2	35.209
RC	47.809	GL	3.12	GP	-9.23	ZAL	42.82	ZAP	10.81	ETS	118.44	ZAE	142.22	ETE	197.60	ZAC	26.87	ETC	116.18	CLP	5.64

PLANETOCENTRIC CONIC

C3	60.666	VHL	7.789	DLA	-15.68	RAL	307.88	RAD	6569.1	VEL	13.492	PTH	2.47	VHP	12.925	DPA	-33.68	RAP	279.55	ECC	1.9984

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 34 20	1979.95	-13.27	27.14	185.23	115.24	11 7 20	1379.9	-9.76	20.22
90.00	18 21 54	5644.25	27.99	265.40	196.01	94.50	19 55 59	5044.2	28.32	256.75
100.00	11 47 2	1745.38	-14.80	9.14	184.47	116.27	12 16 7	1145.4	-11.15	2.25
100.00	19 51 54	5354.06	29.68	244.19	196.15	93.73	21 21 8	4754.1	29.88	235.40
110.00	12 36 4	1591.78	-18.76	355.32	182.30	119.11	13 2 36	991.8	-14.74	348.51
110.00	21 19 21	5080.41	34.15	223.66	196.39	91.65	22 44 1	4480.4	34.00	214.42

DIFFERENTIAL CORRECTIONS								MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TDE	-.6659	TRA	-2.5845	TC3	-.2947	BAU	.2439	SGT	2085.7	SGR	494.6	SG3	122.8	ST	768.8	SR	355.9	SS	657.5
RDE	-.4627	RRA	.4536	RC3	-.0600	FAU	.01481	RRT	-.4602	RRF	.4781	RTF	-.8950	CRT	.3843	CRS	.5162	CST	.9884
FDE	.5955	FRA	1.7159	FC3	-.2113	BSP	6627	SGB	2143.5	R23	-.0533	R13	.8965	LSA	1022.2	MSA	323.7	SSA	17.4
BDE	.8108	BRA	2.6240	BC3	.3007	FSP	-331	SG1	2098.6	SG2	436.4	THA	173.49	EL1	783.4	EL2	322.4	ALF	12.18

LAUNCH DATE SEP 12 1965 FLIGHT TIME 118.00 ARRIVAL DATE JAN 8 1966

HELIOCENTRIC CONIC DISTANCE 273.453

RL 150.55 LAL .00 LOL 349.03 VL 25.086 GAL 11.69 AZL 88.79 HCA 107.15 SMA 117.05 ECC .34580 INC 1.2052 VI 29.597
RP 107.61 LAP 1.15 LOP 96.18 VP 36.508 GAP -19.72 AZP 90.36 TAL 155.82 TAP 262.98 RCA 76.58 APO 157.53 V2 35.217
RC 46.433 GL 3.95 GP -9.88 ZAL 42.41 ZAP 10.76 ETS 110.46 ZAE 143.62 ETE 200.50 ZAC 28.39 ETC 118.95 CLP 4.29

PLANETOCENTRIC CONIC

C3 56.290 VHL 7.503 DLA -14.76 RAL 308.14 RAD 6569.0 VEL 13.328 PTH 2.44 VHP 12.398 DPA -34.29 RAP 281.81 ECC 1.9264

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 26 55	1994.64	-13.70	28.01	184.30	115.03	11 0 9	1394.6	-10.21	21.07
90.00	18 31 26	5592.95	28.20	261.66	194.44	92.64	20 4 39	4993.0	28.27	253.00
100.00	11 40 18	1757.84	-15.18	9.88	183.57	116.07	12 9 36	1157.8	-11.55	2.96
100.00	20 0 43	5304.98	29.84	240.56	194.52	91.82	21 29 8	4705.0	29.78	231.75
110.00	12 30 47	1599.72	-19.02	355.78	181.47	118.95	12 57 27	999.7	-15.02	348.96
110.00	21 26 44	5035.87	34.18	220.18	194.58	89.59	22 50 40	4435.9	33.75	210.96

DIFFERENTIAL CORRECTIONS
TDE -.6710 TRA-2.5956 TC3 -.2956 BAU .2288
RDE -.4187 RRA .4628 RC3 -.0709 FAU .01533
FDE .6356 FRA 1.7911 FC3 -.2357 BSP 6884
BDE .7909 BRA 2.6365 BC3 .3040 FSP -361

MID-COURSE EXECUTION ACCURACY
SGT 2158.9 SGR 497.2 SG3 132.8
RRT -.5014 RRF .5228 RTF -.9016
SGB 2215.4 R23 -.0605 R13 .9033
SG1 2173.8 SG2 427.2 THA 173.15

ORBIT DETERMINATION ACCURACY
ST 800.5 SR 338.1 SS 690.7
CRT .3564 CRS .4984 CST .9870
LSA 1064.3 MSA 315.0 SSA 17.4
EL1 811.2 EL2 311.7 ALF 10.06

LAUNCH DATE SEP 12 1965 FLIGHT TIME 120.00 ARRIVAL DATE JAN 10 1966

HELIOCENTRIC CONIC DISTANCE 280.272

RL 150.55 LAL .00 LOL 349.03 VL 25.277 GAL 11.21 AZL 88.58 HCA 110.39 SMA 118.06 ECC .33266 INC 1.4190 VI 29.597
RP 107.58 LAP 1.33 LOP 99.42 VP 36.647 GAP -18.78 AZP 90.49 TAL 155.46 TAP 265.85 RCA 78.78 APO 157.33 V2 35.224
RC 45.168 GL 4.87 GP -10.61 ZAL 42.06 ZAP 11.00 ETS 102.38 ZAE 145.02 ETE 203.87 ZAC 30.01 ETC 121.36 CLP 2.92

PLANETOCENTRIC CONIC

C3 52.310 VHL 7.233 DLA -13.76 RAL 308.33 RAD 6568.9 VEL 13.178 PTH 2.41 VHP 11.890 DPA -34.95 RAP 284.08 ECC 1.8609

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 18 45	2011.61	-14.18	29.02	183.33	114.77	10 52 17	1411.6	-10.73	22.05
90.00	18 41 8	5539.76	28.31	257.78	192.77	90.69	20 13 28	4939.8	28.11	249.12
100.00	11 32 51	1772.56	-15.61	10.75	182.63	115.82	12 2 23	1172.6	-12.01	3.81
100.00	20 9 43	5254.04	29.89	236.77	192.77	89.83	21 37 18	4654.0	29.55	227.98
110.00	12 24 49	1609.79	-19.35	356.38	180.61	118.74	12 51 39	1009.8	-15.37	349.52
110.00	21 34 14	4989.60	34.10	216.57	192.66	87.45	22 57 24	4389.6	33.37	207.40

DIFFERENTIAL CORRECTIONS
TDE -.6758 TRA-2.6057 TC3 -.2949 BAU .2143
RDE -.3746 RRA .4743 RC3 -.0833 FAU .01589
FDE .6794 FRA 1.8718 FC3 -.2630 BSP 7142
BDE .7727 BRA 2.6485 BC3 .3065 FSP -393

MID-COURSE EXECUTION ACCURACY
SGT 2232.7 SGR 502.2 SG3 143.7
RRT -.5456 RRF .5708 RTF -.9078
SGB 2288.5 R23 -.0687 R13 .9097
SG1 2250.1 SG2 417.6 THA 172.75

ORBIT DETERMINATION ACCURACY
ST 832.6 SR 318.7 SS 726.1
CRT .3201 CRS .4730 CST .9856
LSA 1108.2 MSA 305.8 SSA 17.5
EL1 839.7 EL2 299.3 ALF 8.01

LAUNCH DATE SEP 12 1965 FLIGHT TIME 122.00 ARRIVAL DATE JAN 12 1966

HELIOCENTRIC CONIC DISTANCE 287.101

RL 150.55 LAL .00 LOL 349.03 VL 25.456 GAL 10.75 AZL 88.36 HCA 113.62 SMA 119.02 ECC .32019 INC 1.6423 VI 29.597
RP 107.56 LAP 1.50 LOP 102.66 VP 36.777 GAP -17.87 AZP 90.66 TAL 155.13 TAP 268.75 RCA 80.91 APO 157.12 V2 35.231
RC 44.025 GL 5.90 GP -11.43 ZAL 41.78 ZAP 11.53 ETS 94.64 ZAE 146.37 ETE 207.78 ZAC 31.74 ETC 123.44 CLP 1.54

PLANETOCENTRIC CONIC

C3 48.702 VHL 6.979 DLA -12.67 RAL 308.46 RAD 6568.8 VEL 13.041 PTH 2.38 VHP 11.401 DPA -35.68 RAP 286.36 ECC 1.8015

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 9 48	2031.27	-14.74	30.20	182.34	114.45	10 43 39	1431.3	-11.32	23.19
90.00	18 51 4	5484.50	28.29	253.73	190.99	88.67	20 22 29	4884.5	27.80	245.10
100.00	11 24 36	1789.91	-16.13	11.78	181.68	115.52	11 54 26	1189.9	-12.56	4.81
100.00	20 18 57	5201.09	29.82	232.84	190.93	87.76	21 45 38	4601.1	29.19	224.09
110.00	12 18 7	1622.30	-19.76	357.12	179.73	118.48	12 45 10	1022.3	-15.81	350.23
110.00	21 41 55	4941.47	33.89	212.83	190.64	85.24	23 4 17	4341.5	32.86	203.74

DIFFERENTIAL CORRECTIONS
TDE -.6808 TRA-2.6154 TC3 -.2916 BAU .2002
RDE -.3301 RRA .4884 RC3 -.0974 FAU .01650
FDE .7271 FRA 1.9583 FC3 -.2933 BSP 7413
BDE .7566 BRA 2.6606 BC3 .3075 FSP -429

MID-COURSE EXECUTION ACCURACY
SGT 2306.9 SGR 510.8 SG3 155.5
RRT -.5922 RRF .6213 RTF -.9137
SGB 2362.8 R23 -.0779 R13 .9158
SG1 2327.3 SG2 408.0 THA 172.29

ORBIT DETERMINATION ACCURACY
ST 865.2 SR 297.8 SS 763.6
CRT .2722 CRS .4366 CST .9840
LSA 1154.3 MSA 296.0 SSA 17.5
EL1 869.4 EL2 285.1 ALF 6.00

LAUNCH DATE SEP 12 1965 FLIGHT TIME 124.00 ARRIVAL DATE JAN 14 1966

HELIOCENTRIC CONIC DISTANCE 293.936

RL 150.55 LAL .00 LOL 349.03 VL 25.623 GAL 10.31 AZL 88.12 HCA 116.86 SMA 119.93 ECC .30837 INC 1.8769 VI 29.597
RP 107.55 LAP 1.67 LOP 105.90 VP 36.899 GAP -16.99 AZP 90.85 TAL 154.84 TAP 271.70 RCA 82.95 APO 156.92 V2 35.237
RC 43.015 GL 7.04 GP -12.36 ZAL 41.58 ZAP 12.36 ETS 87.59 ZAE 147.61 ETE 212.29 ZAC 33.57 ETC 125.21 CLP .13

PLANETOCENTRIC CONIC

C3 45.444 VHL 6.741 DLA -11.48 RAL 308.50 RAD 6568.7 VEL 12.915 PTH 2.35 VHP 10.931 DPA -36.48 RAP 288.67 ECC 1.7479

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 59 57	2054.06	-15.38	31.57	181.34	114.07	10 34 12	1454.1	-12.00	24.52
90.00	19 1 18	5427.02	28.13	249.54	189.11	86.57	20 31 45	4827.0	27.35	240.96
100.00	11 15 30	1810.34	-16.72	13.01	180.70	115.14	11 45 40	1210.3	-13.20	5.99
100.00	20 28 27	5145.97	29.60	228.75	189.00	85.62	21 54 13	4546.0	28.68	220.07
110.00	12 10 37	1637.73	-20.26	358.04	178.83	118.14	12 37 55	1037.7	-16.34	351.11
110.00	21 49 49	4891.35	33.54	208.96	188.54	82.98	23 11 20	4291.4	32.21	199.98

DIFFERENTIAL CORRECTIONS
TDE -.6824 TRA-2.6202 TC3 -.2832 BAU .1853
RDE -.2849 RRA .5059 RC3 -.1135 FAU .01718
FDE .7789 FRA 2.0502 FC3 -.3273 BSP 7748
BDE .7395 BRA 2.6686 BC3 .3051 FSP -469

MID-COURSE EXECUTION ACCURACY
SGT 2376.2 SGR 524.0 SG3 168.3
RRT -.6411 RRF .6734 RTF -.9195
SGB 2433.2 R23 -.0872 R13 .9219
SG1 2400.5 SG2 398.1 THA 171.72

ORBIT DETERMINATION ACCURACY
ST 895.1 SR 275.6 SS 803.1
CRT .2057 CRS .3841 CST .9821
LSA 1200.0 MSA 286.3 SSA 17.4
EL1 897.1 EL2 269.2 ALF 3.98

LAUNCH DATE SEP 12 1965 FLIGHT TIME 126.00 ARRIVAL DATE JAN 16 1966

HELIOCENTRIC CONIC DISTANCE 300.776

RL	150.55	LAL	.00	LOL	349.03	VL	25.778	GAL	9.89	AZL	87.87	HCA	120.10	SMA	120.81	ECC	.29719	INC	2.1254	VI	29.597
RP	107.53	LAP	1.84	LOP	109.14	VP	37.012	GAP	-16.13	AZP	91.07	TAL	154.58	TAP	274.68	RCA	84.90	APO	156.71	V2	35.242
RC	42.147	GL	8.30	GP	-13.41	ZAL	41.48	ZAP	13.47	ETS	81.44	ZAE	148.66	ETE	217.46	ZAC	35.50	ETC	126.70	CLP	-1.29

PLANETOCENTRIC CONIC

C3	42.521	VHL	6.521	DLA	-10.18	RAL	308.48	RAD	6568.6	VEL	12.802	PTH	2.33	VHP	10.482	DPA	-37.37	RAP	290.99	ECC	1.6998

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 49 8	2080.53	-16.11	33.17	180.34	113.61	10 23 49	1480.5	-12.78	26.07
90.00	19 11 54	5367.08	27.80	245.18	187.16	84.41	20 41 21	4767.1	26.74	236.68
100.00	11 5 27	1834.37	-17.41	14.46	179.73	114.69	11 36 1	1234.4	-13.94	7.39
100.00	20 38 17	5088.48	29.23	224.52	186.99	83.42	22 3 6	4488.5	28.01	215.93
110.00	12 2 14	1656.52	-20.86	359.17	177.94	117.71	12 29 51	1056.5	-16.99	352.18
110.00	21 57 59	4839.09	33.03	204.96	186.37	80.67	23 18 38	4239.1	31.39	196.12

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-.6885	TRA	-2.6280	TC3	-.2753	BAU	.1734	SGT	2449.3	SGR	543.2	SG3	182.2	ST	928.2	SR	252.6	SS	846.1
RDE	-.2382	RRA	.5276	RC3	-.1314	FAU	.01786	RRT	-.6892	RRF	.7255	RTF	-.9247	CRT	.1162	CRS	.3075	CST	.9804
FDE	.8373	FRA	2.1497	FC3	-.3636	BSP	8001	SGB	2508.8	R23	-.0990	R13	.9274	LSA	1250.9	MSA	275.9	SSA	17.3
BDE	.7286	BRA	2.6805	BC3	.3050	FSP	-511	SG1	2478.4	SG2	389.0	THA	171.09	EL1	928.7	EL2	250.8	ALF	1.95

LAUNCH DATE SEP 12 1965 FLIGHT TIME 128.00 ARRIVAL DATE JAN 18 1966

HELIOCENTRIC CONIC DISTANCE 307.617

RL	150.55	LAL	.00	LOL	349.03	VL	25.923	GAL	9.49	AZL	87.61	HCA	123.33	SMA	121.64	ECC	.28664	INC	2.3908	VI	29.597
RP	107.51	LAP	2.00	LOP	112.38	VP	37.118	GAP	-15.30	AZP	91.31	TAL	154.36	TAP	277.70	RCA	86.77	APO	156.50	V2	35.247
RC	41.430	GL	9.72	GP	-14.60	ZAL	41.48	ZAP	14.85	ETS	76.28	ZAE	149.43	ETE	223.26	ZAC	37.53	ETC	127.93	CLP	-2.74

PLANETOCENTRIC CONIC

C3	39.918	VHL	6.318	DLA	-8.74	RAL	308.37	RAD	6568.5	VEL	12.700	PTH	2.31	VHP	10.054	DPA	-38.37	RAP	293.34	ECC	1.6569

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 37 14	2111.27	-16.93	35.04	179.36	113.04	10 12 25	1511.3	-13.67	27.89
90.00	19 22 56	5304.46	27.31	240.67	185.15	82.20	20 51 21	4704.5	25.95	232.27
100.00	10 54 19	1862.57	-18.20	16.18	178.78	114.13	11 25 22	1262.6	-14.79	9.05
100.00	20 48 32	5028.39	28.68	220.14	184.93	81.18	22 12 21	4428.4	27.16	211.66
110.00	11 52 52	1679.24	-21.57	.55	177.06	117.18	12 20 52	1079.2	-17.76	353.49
110.00	22 6 28	4784.48	32.36	200.85	184.16	78.32	23 26 13	4184.5	30.41	192.17

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-.6957	TRA	-2.6358	TC3	-.2648	BAU	.1628	SGT	2521.6	SGR	570.1	SG3	197.3	ST	961.5	SR	230.0	SS	892.4
RDE	-.1896	RRA	.5545	RC3	-.1515	FAU	.01855	RRT	-.7359	RRF	.7758	RTF	-.9296	CRT	-.0101	CRS	.1938	CST	.9786
FDE	.9023	FRA	2.2561	FC3	-.4024	BSP	8250	SGB	2585.3	R23	-.1118	R13	.9328	LSA	1305.0	MSA	265.6	SSA	17.2
BDE	.7210	BRA	2.6935	BC3	.3051	FSP	-556	SG1	2557.1	SG2	380.7	THA	170.34	EL1	961.5	EL2	229.9	ALF	179.85

LAUNCH DATE SEP 12 1965 FLIGHT TIME 130.00 ARRIVAL DATE JAN 20 1966

HELIOCENTRIC CONIC DISTANCE 314.457

RL	150.55	LAL	.00	LOL	349.03	VL	26.058	GAL	9.12	AZL	87.32	HCA	126.57	SMA	122.42	ECC	.27668	INC	2.6768	VI	29.597
RP	107.50	LAP	2.15	LOP	115.63	VP	37.216	GAP	-14.49	AZP	91.60	TAL	154.18	TAP	280.75	RCA	88.55	APO	156.30	V2	35.251
RC	40.873	GL	11.30	GP	-15.97	ZAL	41.61	ZAP	16.50	ETS	72.06	ZAE	149.83	ETE	229.62	ZAC	39.68	ETC	128.91	CLP	-4.22

PLANETOCENTRIC CONIC

C3	37.625	VHL	6.134	DLA	-7.16	RAL	308.17	RAD	6568.5	VEL	12.609	PTH	2.29	VHP	9.648	DPA	-39.52	RAP	295.73	ECC	1.6192

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 24 7	2147.00	-17.87	37.25	178.42	112.34	9 59 54	1547.0	-14.69	30.02
90.00	19 34 31	5238.84	26.61	235.99	183.11	79.95	21 1 50	4638.8	24.96	227.71
100.00	10 42 1	1895.65	-19.11	18.21	177.87	113.43	11 13 37	1295.6	-15.78	11.01
100.00	20 59 17	4965.42	27.94	215.60	182.83	78.90	22 22 3	4365.4	26.12	207.27
110.00	11 42 26	1706.52	-22.41	2.22	176.23	116.51	12 10 52	1106.5	-18.67	355.08
110.00	22 15 22	4727.32	31.49	196.61	181.92	75.95	23 34 10	4127.3	29.24	188.13

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-.7050	TRA	-2.6437	TC3	-.2519	BAU	.1539	SGT	2593.0	SGR	606.8	SG3	213.4	ST	935.6	SR	210.3	SS	842.2
RDE	-.1380	RRA	.5878	RC3	-.1737	FAU	.01925	RRT	-.7794	RRF	.8225	RTF	-.9343	CRT	-.1862	CRS	.0262	CST	.9768
FDE	.9751	FRA	2.3694	FC3	-.4429	BSP	8502	SGB	2663.0	R23	-.1257	R13	.9379	LSA	1363.0	MSA	255.5	SSA	17.0
BDE	.7184	BRA	2.7082	BC3	.3060	FSP	-604	SG1	2636.6	SG2	373.9	THA	169.45	EL1	996.4	EL2	206.4	ALF	177.65

LAUNCH DATE SEP 12 1965 FLIGHT TIME 132.00 ARRIVAL DATE JAN 22 1966

HELIOCENTRIC CONIC DISTANCE 321.292

RL	150.55	LAL	.00	LOL	349.03	VL	26.184	GAL	8.76	AZL	87.01	HCA	129.81	SMA	123.17	ECC	.26732	INC	2.9879	VI	29.597
RP	107.49	LAP	2.29	LOP	118.87	VP	37.307	GAP	-13.71	AZP	91.91	TAL	154.03	TAP	283.84	RCA	90.24	APO	156.09	V2	35.254
RC	40.482	GL	13.06	GP	-17.53	ZAL	41.88	ZAP	18.41	ETS	68.69	ZAE	149.75	ETE	236.35	ZAC	41.96	ETC	129.66	CLP	-5.73

PLANETOCENTRIC CONIC

C3	35.639	VHL	5.970	DLA	-5.42	RAL	307.89	RAD	6568.4	VEL	12.530	PTH	2.27	VHP	9.266	DPA	-40.83	RAP	298.17	ECC	1.5865

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 9 36	2188.56	-18.93	39.84	177.55	111.46	9 46 4	1588.6	-15.85	32.52
90.00	19 46 45	5169.87	25.70	231.15	181.04	77.69	21 12 55	4569.9	23.75	223.02
100.00	10 28 23	1934.41	-20.14	20.63	177.03	112.57	11 0 37	1334.4	-16.91	13.33
100.00	21 10 39	4899.26	26.98	210.92	180.72	76.62	22 32 18	4299.3	24.87	202.76
110.00	11 30 46	1739.10	-23.39	4.24	175.47	115.67	11 59 45	1139.1	-19.74	357.00
110.00	22 24 45	4667.33	30.42	192.27	179.67	73.59	23 42 33	4067.3	27.87	184.00

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-.7133	TRA	-2.6479	TC3	-.2325	BAU	.1457	SGT	2657.5	SGR	655.4	SG3	230.4	ST	1027.2	SR	198.4	SS	994.5
RDE	-.0827	RRA	.6283	RC3	-.1987	FAU	.02001	RRT	-.8188	RRF	.8638	RTF	-.9388	CRT	-.4158	CRS	-.2046	CST	.9748
FDE	1.0550	FRA	2.4871	FC3	-.4861	BSP	8829	SGB	2737.1	R23	-.1394	R13	.9431	LSA	1422.1	MSA	246.6	SSA	1[illegible].5
BDE	.7181	BRA	2.7214	BC3	.3058	FSP	-659	SG1	2712.1	SG2	368.6	THA	168.37	EL1	1030.6	EL2	179.9	ALF	175.26

LAUNCH DATE SEP 12 1965 FLIGHT TIME 134.00 ARRIVAL DATE JAN 24 1966

HELIOCENTRIC CONIC DISTANCE 328.121

RL 150.55 LAL .00 LOL 349.03 VL 26.300 GAL 8.42 AZL 86.67 HCA 133.05 SMA 123.87 ECC .25853 INC 3.3299 V1 29.597
RP 107.48 LAP 2.43 LOP 122.12 VP 37.391 GAP -12.95 AZP 92.27 TAL 153.91 TAP 286.96 RCA 91.85 APO 155.90 V2 35.256
RC 40.263 GL 15.03 GP -19.33 ZAL 42.31 ZAP 20.60 ETS 66.07 ZAE 149.10 ETE 243.18 ZAC 44.38 ETC 130.20 CLP -7.27

PLANETOCENTRIC CONIC

C3 33.964 VHL 5.828 DLA -3.48 RAL 307.50 RAD 6568.3 VEL 12.463 PTH 2.25 VHP 8.912 DPA -42.35 RAP 300.70 ECC 1.5590

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 53 29	2236.98	-20.11	42.90	176.78	110.37	9 30 46	1637.0	-17.15	35.47
90.00	19 59 47	5097.14	24.55	226.13	178.99	75.43	21 24 44	4497.1	22.31	218.18
100.00	10 13 12	1979.83	-21.30	23.51	176.29	111.48	10 46 12	1379.8	-18.20	16.09
100.00	21 22 45	4829.52	25.79	206.08	178.62	74.33	22 43 15	4229.5	23.39	198.10
110.00	11 17 43	1777.88	-24.51	6.70	174.81	114.61	11 47 21	1177.9	-20.98	359.33
110.00	22 34 44	4604.23	29.12	187.82	177.46	71.25	23 51 28	4004.2	26.28	179.78

DIFFERENTIAL CORRECTIONS

TDE -.7295 TRA-2.6572 TC3 -.2155 BAU .1416
RDE -.0215 RRA .6787 RC3 -.2254 FAU .02062
FDE 1.1470 FRA 2.6117 FC3 -.5257 BSP 9049
BDE .7298 BRA 2.7425 BC3 .3118 FSP -712

MID-COURSE EXECUTION ACCURACY

SGT 2725.4 SGR 718.5 SG3 248.4
RRT -.8520 RRF .8989 RTF -.9429
SGB 2818.5 R23 -.1540 R13 .9480
SG1 2794.5 SG2 366.9 THA 167.11

ORBIT DETERMINATION ACCURACY

ST 1063.4 SR 201.8 SS 1052.3
CRT -.6629 CRS -.4754 CST .9733
LSA 1490.6 MSA 238.1 SSA 16.0
EL1 1072.0 EL2 149.9 ALF 172.69

LAUNCH DATE SEP 12 1965 FLIGHT TIME 136.00 ARRIVAL DATE JAN 26 1966

HELIOCENTRIC CONIC DISTANCE 334.941

RL 150.55 LAL .00 LOL 349.03 VL 26.408 GAL 8.10 AZL 86.29 HCA 136.28 SMA 124.53 ECC .25030 INC 3.7101 V1 29.597
RP 107.48 LAP 2.56 LOP 125.37 VP 37.468 GAP -12.21 AZP 92.68 TAL 153.83 TAP 290.11 RCA 93.36 APO 155.70 V2 35.258
RC 40.219 GL 17.23 GP -21.40 ZAL 42.95 ZAP 23.08 ETS 64.10 ZAE 147.83 ETE 249.81 ZAC 46.97 ETC 130.54 CLP -8.84

PLANETOCENTRIC CONIC

C3 32.610 VHL 5.711 DLA -1.33 RAL 307.01 RAD 6568.3 VEL 12.409 PTH 2.24 VHP 8.589 DPA -44.11 RAP 303.34 ECC 1.5367

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 35 32	2293.49	-21.40	46.54	176.16	109.00	9 13 45	1693.5	-18.61	38.98
90.00	20 13 49	5020.11	23.13	220.93	176.99	73.20	21 37 29	4420.1	20.61	213.17
100.00	9 56 15	2033.10	-22.59	26.94	175.70	110.11	10 30 8	1433.1	-19.65	19.38
100.00	21 35 47	4755.73	24.34	201.08	176.58	72.08	22 55 2	4155.7	21.66	193.31
110.00	11 3 5	1823.93	-25.78	9.67	174.31	113.26	11 33 29	1223.9	-22.41	2.14
110.00	22 45 27	4537.67	27.57	183.25	175.30	68.95	24 1 4	3937.7	24.46	175.47

DIFFERENTIAL CORRECTIONS

TDE -.7460 TRA-2.6637 TC3 -.1918 BAU .1389
RDE .0471 RRA .7401 RC3 -.2545 FAU .02124
FDE 1.2481 FRA 2.7367 FC3 -.5638 BSP 9375
BDE .7475 BRA 2.7646 BC3 .3186 FSP -771

MID-COURSE EXECUTION ACCURACY

SGT 2784.8 SGR 799.0 SG3 266.7
RRT -.8797 RRF .9271 RTF -.9469
SGB 2897.1 R23 -.1667 R13 .9529
SG1 2873.6 SG2 368.2 THA 165.59

ORBIT DETERMINATION ACCURACY

ST 1097.1 SR 228.0 SS 1112.5
CRT -.8558 CRS -.7109 CST .9717
LSA 1561.8 MSA 231.9 SSA 15.3
EL1 1114.5 EL2 116.1 ALF 169.81

LAUNCH DATE SEP 12 1965 FLIGHT TIME 138.00 ARRIVAL DATE JAN 28 1966

HELIOCENTRIC CONIC DISTANCE 341.749

RL 150.55 LAL .00 LOL 349.03 VL 26.508 GAL 7.80 AZL 85.86 HCA 139.52 SMA 125.15 ECC .24260 INC 4.1381 V1 29.597
RP 107.48 LAP 2.68 LOP 128.62 VP 37.540 GAP -11.49 AZP 93.15 TAL 153.77 TAP 293.29 RCA 94.79 APO 155.51 V2 35.259
RC 40.350 GL 19.70 GP -23.81 ZAL 43.81 ZAP 25.87 ETS 62.68 ZAE 145.91 ETE 255.95 ZAC 49.77 ETC 130.70 CLP -10.43

PLANETOCENTRIC CONIC

C3 31.603 VHL 5.622 DLA 1.06 RAL 306.40 RAD 6568.3 VEL 12.368 PTH 2.23 VHP 8.302 DPA -46.16 RAP 306.15 ECC 1.5201

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 15 23	2359.66	-22.80	50.89	175.72	107.26	8 54 43	1759.7	-20.23	43.16
90.00	20 29 5	4938.15	21.42	215.54	175.08	71.02	21 51 23	4338.1	18.63	207.97
100.00	9 37 13	2095.70	-24.00	31.06	175.31	108.38	10 12 9	1495.7	-21.26	23.33
100.00	21 49 56	4677.35	22.60	195.91	174.62	69.89	23 7 54	4077.3	19.65	188.35
110.00	10 46 35	1878.55	-27.20	13.28	174.02	111.55	11 17 54	1278.6	-24.03	5.55
110.00	22 57 3	4467.25	25.76	178.58	173.24	66.72	24 11 30	3867.3	22.39	171.05

DIFFERENTIAL CORRECTIONS

TDE -.7598 TRA-2.6625 TC3 -.1548 BAU .1375
RDE .1250 RRA .8141 RC3 -.2863 FAU .02193
FDE 1.3556 FRA 2.8538 FC3 -.6008 BSP 9922
BDE .7700 BRA 2.7841 BC3 .3255 FSP -842

MID-COURSE EXECUTION ACCURACY

SGT 2827.7 SGR 899.2 SG3 284.3
RRT -.9026 RRF .9489 RTF -.9509
SGB 2967.3 R23 -.1754 R13 .9580
SG1 2943.9 SG2 371.8 THA 163.72

ORBIT DETERMINATION ACCURACY

ST 1123.7 SR 279.8 SS 1172.3
CRT -.9583 CRS -.8605 CST .9695
LSA 1631.8 MSA 229.1 SSA 14.1
EL1 1155.4 EL2 77.8 ALF 166.52

LAUNCH DATE SEP 12 1965 FLIGHT TIME 140.00 ARRIVAL DATE JAN 30 1966

HELIOCENTRIC CONIC DISTANCE 348.542

RL 150.55 LAL .00 LOL 349.03 VL 26.600 GAL 7.52 AZL 85.37 HCA 142.75 SMA 125.73 ECC .23542 INC 4.6268 V1 29.597
RP 107.48 LAP 2.80 LOP 131.87 VP 37.605 GAP -10.80 AZP 93.69 TAL 153.74 TAP 296.49 RCA 96.13 APO 155.33 V2 35.259
RC 40.657 GL 22.47 GP -26.61 ZAL 44.95 ZAP 29.03 ETS 61.72 ZAE 143.32 ETE 261.39 ZAC 52.82 ETC 130.71 CLP -12.04

PLANETOCENTRIC CONIC

C3 30.987 VHL 5.567 DLA 3.72 RAL 305.65 RAD 6568.2 VEL 12.343 PTH 2.23 VHP 8.059 DPA -48.55 RAP 309.21 ECC 1.5100

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 52 35	2437.46	-24.28	56.11	175.56	105.04	8 33 12	1837.5	-21.98	48.20
90.00	20 45 55	4850.45	19.37	209.92	173.31	68.93	22 6 46	4250.5	16.33	202.56
100.00	9 15 40	2169.47	-25.49	36.03	175.18	106.17	9 51 49	1569.5	-23.03	28.10
100.00	22 5 31	4593.67	20.54	190.54	172.82	67.79	23 22 5	3993.7	17.35	183.20
110.00	10 27 54	1943.38	-28.74	17.70	174.01	109.35	11 0 17	1343.4	-25.83	9.72
110.00	23 9 46	4392.53	23.66	173.79	171.33	64.58	24 22 59	3792.5	20.04	166.52

DIFFERENTIAL CORRECTIONS

TDE -.7642 TRA-2.6465 TC3 -.0938 BAU .1390
RDE .2145 RRA .9015 RC3 -.3221 FAU .02291
FDE 1.4633 FRA 2.9499 FC3 -.6400 BSP 10910
BDE .7937 BRA 2.7958 BC3 .3355 FSP -935

MID-COURSE EXECUTION ACCURACY

SGT 2842.7 SGR 1020.8 SG3 299.7
RRT -.9217 RRF .9650 RTF -.9548
SGB 3020.4 R23 -.1787 R13 .9632
SG1 2997.0 SG2 375.7 THA 161.38

ORBIT DETERMINATION ACCURACY

ST 1135.5 SR 355.9 SS 1226.4
CRT -.9949 CRS -.9370 CST .9661
LSA 1693.0 MSA 231.6 SSA 12.5
EL1 1189.5 EL2 34.4 ALF 162.67

LAUNCH DATE SEP 12 1965 FLIGHT TIME 142.00 ARRIVAL DATE FEB 1 1966

HELIOCENTRIC CONIC DISTANCE 355.328

RL 150.55 LAL .00 LOL 349.03 VL 26.685 GAL 7.26 AZL 84.81 HCA 145.98 SMA 126.27 ECC .22878 INC 5.1938 VI 29.597
RP 107.48 LAP 2.90 LOP 135.12 VP 37.664 GAP -10.12 AZP 94.31 TAL 153.73 TAP 299.71 RCA 97.39 APO 155.16 V2 35.258
RC 41.135 GL 25.56 GP -29.87 ZAL 46.40 ZAP 32.58 ETS 61.16 ZAE 140.08 ETE 266.05 ZAC 56.17 ETC 130.61 CLP -13.66

PLANETOCENTRIC CONIC

C3 30.849 VHL 5.554 DLA 6.68 RAL 304.76 RAD 6568.2 VEL 12.338 PTH 2.22 VHP 7.873 DPA -51.33 RAP 312.66 ECC 1.5077

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 26 33	2529.50	-25.76	62.45	175.75	102.19	8 8 42	1929.5	-23.82	54.31
90.00	21 4 49	4756.18	16.96	204.05	171.79	66.98	22 24 5	4156.2	13.70	196.89
100.00	8 51 5	2256.86	-27.01	42.08	175.44	103.33	9 28 41	1656.9	-24.90	33.91
100.00	22 22 58	4504.05	18.13	184.98	171.25	65.82	23 38 2	3904.1	14.72	177.85
110.00	10 6 37	2020.48	-30.36	23.11	174.42	106.52	10 40 17	1420.5	-27.80	14.86
110.00	23 23 56	4313.20	21.26	168.89	169.64	62.58	24 35 49	3713.2	17.42	161.87

DIFFERENTIAL CORRECTIONS
TDE -.8857 TRA-2.7408 TC3 -.1707 BAU .1547
RDE .3414 RRA 1.0270 RC3 -.3339 FAU .02039
FDE 1.6501 FRA 3.0974 FC3 -.5722 BSP .9379
BDE .9493 BRA 2.9269 BC3 .3750 FSP -884

MID-COURSE EXECUTION ACCURACY
SGT 2995.7 SGR 1183.0 SG3 319.2
RRT -.9278 RRF .9762 RTF -.9570
SGB 3220.9 R23 -.1901 R13 .9673
SG1 3194.2 SG2 413.9 THA 159.52

ORBIT DETERMINATION ACCURACY
ST 1250.7 SR 476.0 SS 1331.1
CRT -.9995 CRS -.9754 CST .9722
LSA 1874.5 MSA 220.7 SSA 12.1
EL1 1338.1 EL2 13.9 ALF 159.17

LAUNCH DATE SEP 12 1965 FLIGHT TIME 144.00 ARRIVAL DATE FEB 3 1966

HELIOCENTRIC CONIC DISTANCE 362.089

RL 150.55 LAL .00 LOL 349.03 VL 26.763 GAL 7.02 AZL 84.14 HCA 149.21 SMA 126.78 ECC .22260 INC 5.8644 VI 29.597
RP 107.48 LAP 3.00 LOP 138.37 VP 37.719 GAP -9.46 AZP 95.04 TAL 153.74 TAP 302.95 RCA 98.56 APO 155.00 V2 35.257
RC 41.780 GL 29.02 GP -33.66 ZAL 48.24 ZAP 36.58 ETS 60.92 ZAE 136.17 ETE 269.94 ZAC 59.89 ETC 130.45 CLP -15.26

PLANETOCENTRIC CONIC

C3 31.295 VHL 5.594 DLA 9.98 RAL 303.67 RAD 6568.2 VEL 12.356 PTH 2.23 VHP 7.758 DPA -54.55 RAP 316.72 ECC 1.5150

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 56 16	2639.35	-27.10	70.20	176.38	98.53	7 40 15	2039.3	-25.64	61.84
90.00	21 26 26	4653.54	14.12	197.85	170.58	65.20	22 44 0	4053.5	10.66	190.88
100.00	8 22 32	2361.09	-28.42	49.50	176.14	99.67	9 1 53	1761.1	-26.79	41.08
100.00	22 42 51	4407.03	15.33	179.13	169.99	64.02	23 56 18	3807.0	11.71	172.21
110.00	9 42 0	2112.45	-31.95	29.81	175.33	102.85	10 17 12	1512.5	-29.85	21.23
110.00	23 39 53	4228.43	18.52	163.84	168.24	60.74	24 50 21	3628.4	14.48	157.05

DIFFERENTIAL CORRECTIONS
TDE -.9326 TRA-2.7505 TC3 -.1317 BAU .1596
RDE .4824 RRA 1.1606 RC3 -.3580 FAU .01994
FDE 1.7865 FRA 3.1511 FC3 -.5516 BSP 10069
BDE 1.0500 BRA 2.9853 BC3 .3615 FSP -939

MID-COURSE EXECUTION ACCURACY
SGT 3019.2 SGR 1364.3 SG3 328.6
RRT -.9384 RRF .9840 RTF -.9605
SGB 3313.1 R23 -.1842 R13 .9726
SG1 3284.7 SG2 433.4 THA 156.59

ORBIT DETERMINATION ACCURACY
ST 1284.0 SR 612.7 SS 1392.2
CRT -.9948 CRS -.9902 CST .9715
LSA 1977.7 MSA 225.9 SSA 10.4
EL1 1421.6 EL2 56.4 ALF 154.57

LAUNCH DATE SEP 12 1965 FLIGHT TIME 146.00 ARRIVAL DATE FEB 5 1966

HELIOCENTRIC CONIC DISTANCE 368.830

RL 150.55 LAL .00 LOL 349.03 VL 26.835 GAL 6.79 AZL 83.33 HCA 152.44 SMA 127.24 ECC .21689 INC 6.6749 VI 29.597
RP 107.49 LAP 3.08 LOP 141.62 VP 37.768 GAP -8.82 AZP 95.92 TAL 153.77 TAP 306.20 RCA 99.65 APO 154.84 V2 35.255
RC 42.583 GL 32.88 GP -38.06 ZAL 50.49 ZAP 41.08 ETS 60.96 ZAE 131.58 ETE 273.15 ZAC 64.05 ETC 130.30 CLP -16.79

PLANETOCENTRIC CONIC

C3 32.542 VHL 5.705 DLA 13.64 RAL 302.36 RAD 6568.3 VEL 12.406 PTH 2.24 VHP 7.739 DPA -58.22 RAP 321.77 ECC 1.5356

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 20 20	2772.23	-28.08	79.80	177.52	93.82	7 6 32	2172.2	-27.25	71.23
90.00	21 51 57	4540.33	10.79	191.21	169.85	63.66	23 7 37	3940.3	7.17	184.40
100.00	7 48 50	2486.78	-29.52	58.68	177.39	94.96	8 30 17	1886.8	-28.51	50.02
100.00	23 6 7	4301.01	12.08	172.95	169.19	62.45	24 17 48	3701.0	8.29	166.20
110.00	9 13 11	2222.86	-33.32	38.13	176.88	98.11	9 50 14	1622.9	-31.84	29.21
110.00	0 2 12	4137.69	15.42	158.63	167.26	59.11	1 11 9	3537.7	11.21	152.06

DIFFERENTIAL CORRECTIONS
TDE-1.0062 TRA-2.7750 TC3 -.1003 BAU .1673
RDE .6631 RRA 1.3201 RC3 -.3713 FAU .01866
FDE 1.9250 FRA 3.1547 FC3 -.4964 BSP 10745
BDE 1.2051 BRA 3.0730 BC3 .3846 FSP -973

MID-COURSE EXECUTION ACCURACY
SGT 3043.1 SGR 1576.2 SG3 331.2
RRT -.9460 RRF .9892 RTF -.9637
SGB 3427.1 R23 -.1736 R13 .9777
SG1 3396.4 SG2 457.7 THA 153.37

ORBIT DETERMINATION ACCURACY
ST 1327.3 SR 781.9 SS 1448.8
CRT -.9880 CRS -.9965 CST .9720
LSA 2101.9 MSA 232.3 SSA 8.7
EL1 1536.9 EL2 104.5 ALF 149.65

LAUNCH DATE SEP 12 1965 FLIGHT TIME 148.00 ARRIVAL DATE FEB 7 1966

HELIOCENTRIC CONIC DISTANCE 375.548

RL 150.55 LAL .00 LOL 349.03 VL 26.900 GAL 6.58 AZL 82.32 HCA 155.65 SMA 127.68 ECC .21165 INC 7.6811 VI 29.597
RP 107.50 LAP 3.16 LOP 144.87 VP 37.812 GAP -8.20 AZP 97.01 TAL 153.81 TAP 309.46 RCA 100.65 APO 154.70 V2 35.252
RC 43.538 GL 37.17 GP -43.13 ZAL 53.23 ZAP 46.09 ETS 61.28 ZAE 126.31 ETE 275.85 ZAC 68.71 ETC 130.32 CLP -18.15

PLANETOCENTRIC CONIC

C3 34.955 VHL 5.912 DLA 17.67 RAL 300.78 RAD 6568.4 VEL 12.503 PTH 2.26 VHP 7.855 DPA -62.30 RAP 328.52 ECC 1.5753

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 36 14	2936.63	-28.24	91.81	179.16	87.81	6 25 11	2336.6	-28.24	83.15
90.00	22 23 23	4412.00	6.83	183.86	169.86	62.45	23 36 55	3812.0	3.08	177.18
100.00	7 7 54	2641.01	-29.88	70.12	179.22	88.96	7 51 55	2041.0	-29.70	61.32
100.00	23 34 24	4182.86	8.27	166.24	169.08	61.17	24 44 7	3582.9	4.36	159.63
110.00	8 38 48	2356.60	-34.13	48.48	179.17	92.04	9 18 5	1756.6	-33.47	39.30
110.00	0 23 55	4040.04	11.93	153.21	166.88	57.73	1 31 15	3440.0	7.59	146.81

DIFFERENTIAL CORRECTIONS
TDE-1.1296 TRA-2.8314 TC3 -.0907 BAU .1751
RDE .9031 RRA 1.5094 RC3 -.3635 FAU .01600
FDE 2.0620 FRA 3.0943 FC3 -.3964 BSP 11175
BDE 1.4462 BRA 3.2086 BC3 .3746 FSP -961

MID-COURSE EXECUTION ACCURACY
SGT 3082.6 SGR 1818.6 SG3 324.6
RRT -.9512 RRF .9925 RTF -.9670
SGB 3579.1 R23 -.1584 R13 .9826
SG1 3545.7 SG2 487.7 THA 150.08

ORBIT DETERMINATION ACCURACY
ST 1394.5 SR 989.1 SS 1499.9
CRT -.9831 CRS -.9991 CST .9744
LSA 2261.9 MSA 237.8 SSA 7.2
EL1 1703.2 EL2 148.5 ALF 144.81

LAUNCH DATE SEP 12 1965 FLIGHT TIME 150.00 ARRIVAL DATE FEB 9 1966

HELIOCENTRIC CONIC DISTANCE 382.239

RL 150.55 LAL .00 LOL 349.03 VL 26.960 GAL 6.39 AZL 81.03 HCA 158.86 SMA 128.07 ECC .20686 INC 8.9721 V1 29.597
RP 107.51 LAP 3.22 LOP 148.12 VP 37.851 GAP -7.59 AZP 98.38 TAL 153.85 TAP 312.71 RCA 101.58 APO 154.57 V2 35.249
RC 44.633 GL 41.87 GP -48.90 ZAL 56.48 ZAP 51.62 ETS 61.92 ZAE 120.33 ETE 278.33 ZAC 73.96 ETC 130.75 CLP -19.17

PLANETOCENTRIC CONIC

C3 39.194 VHL 6.261 DLA 22.05 RAL 298.83 RAD 6568.5 VEL 12.671 PTH 2.30 VHP 8.166 DPA -66.57 RAP 338.25 ECC 1.6450

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 38 39	3149.62	-26.72	107.19	180.99	80.26	5 31 8	2549.6	-27.79	98.69
90.00	23 5 27	4256.87	1.87	175.15	171.04	61.74	24 16 24	3656.9	-1.92	168.52
100.00	6 15 42	2836.66	-28.76	84.54	181.36	81.47	7 2 59	2236.7	-29.64	75.84
100.00	0 15 0	4045.06	3.68	158.59	170.04	60.31	1 22 25	3445.1	-.30	152.06
110.00	7 56 36	2521.01	-33.79	61.29	182.09	84.48	8 38 37	1921.0	-34.18	52.07
110.00	0 50 36	3933.47	8.00	147.47	167.38	56.65	1 56 9	3333.5	3.56	141.19

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE-1.3106 TRA-2.9183 TC3 -.0844 BAU .1794 SGT 3122.9 SGR 2075.7 SG3 305.3 ST 1478.5 SR 1229.1 SS 1530.0
RDE 1.2220 RRA 1.7203 RC3 -.3317 FAU .01234 RRT -.9552 RRF .9944 RTF -.9705 CRT -.9806 CRS -.9999 CST .9777
FDE 2.1700 FRA 2.9394 FC3 -.2725 BSP 11778 SGB 3749.8 R23 -.1388 R13 .9871 LSA 2445.1 MSA 242.9 SSA 5.8
BDE 1.7920 BRA 3.3876 BC3 .3423 FSP -919 SG1 3714.1 SG2 516.4 THA 146.87 EL1 1913.6 EL2 186.2 ALF 140.37

LAUNCH DATE SEP 12 1965 FLIGHT TIME 152.00 ARRIVAL DATE FEB 11 1966

HELIOCENTRIC CONIC DISTANCE 388.895

RL 150.55 LAL .00 LOL 349.03 VL 27.015 GAL 6.22 AZL 79.30 HCA 162.06 SMA 128.44 ECC .20251 INC10.6992 V1 29.597
RP 107.52 LAP 3.28 LOP 151.37 VP 37.886 GAP -7.01 AZP 100.19 TAL 153.89 TAP 315.95 RCA 102.43 APO 154.45 V2 35.244
RC 45.858 GL 46.94 GP -55.36 ZAL 60.29 ZAP 57.58 ETS 63.17 ZAE 113.66 ETE 281.08 ZAC 79.83 ETC 132.03 CLP -19.43

PLANETOCENTRIC CONIC

C3 46.566 VHL 6.824 DLA 26.71 RAL 296.40 RAD 6568.7 VEL 12.959 PTH 2.36 VHP 8.775 DPA -70.47 RAP 353.26 ECC 1.7664

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	3 8 2	3472.57	-21.12	129.14	181.58	70.69	4 5 55	2872.6	-23.57	121.32
90.00	0 20 36	4020.74	-5.72	161.95	174.71	62.22	1 27 37	3420.7	-9.39	155.20
100.00	5 1 5	3108.11	-24.52	103.55	182.81	72.35	5 52 54	2508.1	-26.71	95.44
100.00	1 10 14	3860.44	-2.58	148.45	172.98	60.21	2 14 34	3260.4	-6.52	141.88
110.00	7 2 16	2728.94	-31.31	76.97	185.02	75.53	7 47 45	2128.9	-32.98	68.15
110.00	1 25 33	3812.38	3.42	141.08	169.25	55.97	2 29 5	3212.4	-1.07	134.87

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE-1.6084 TRA-3.0756 TC3 -.0908 BAU .1759 SGT 3193.0 SGR 2320.8 SG3 272.6 ST 1605.0 SR 1492.9 SS 1535.8
RDE 1.6544 RRA 1.9395 RC3 -.2677 FAU .00739 RRT -.9582 RRF .9951 RTF -.9749 CRT -.9809 CRS-1.0000 CST .9825
FDE 2.2372 FRA 2.6894 FC3 -.1375 BSP 12362 SGB 3947.4 R23 -.1155 R13 .9912 LSA 2665.2 MSA 245.6 SSA 4.5
BDE 2.3074 BRA 3.6361 BC3 .2626 FSP -831 SG1 3909.9 SG2 542.5 THA 144.35 EL1 2181.5 EL2 213.9 ALF 137.11

LAUNCH DATE SEP 12 1965 FLIGHT TIME 154.00 ARRIVAL DATE FEB 13 1966

HELIOCENTRIC CONIC DISTANCE 395.507

RL 150.55 LAL .00 LOL 349.03 VL 27.064 GAL 6.06 AZL 76.86 HCA 165.23 SMA 128.77 ECC .19860 INC13.1416 V1 29.597
RP 107.54 LAP 3.32 LOP 154.62 VP 37.916 GAP -6.44 AZP 102.72 TAL 153.93 TAP 319.15 RCA 103.20 APO 154.35 V2 35.239
RC 47.202 GL 52.24 GP -62.38 ZAL 64.63 ZAP 63.83 ETS 65.88 ZAE 106.32 ETE 285.17 ZAC 86.37 ETC 135.25 CLP -17.96

PLANETOCENTRIC CONIC

C3 59.899 VHL 7.739 DLA 31.47 RAL 293.30 RAD 6569.1 VEL 13.463 PTH 2.46 VHP 9.864 DPA -72.73 RAP 15.85 ECC 1.9858

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
75.66	23 35 8	4171.35	-13.50	177.26	180.24	61.30	24 44 40	3571.4	-17.22	170.34
104.34	3 24 51	3446.65	-13.48	123.68	180.23	61.29	4 22 18	2846.7	-17.21	116.76
75.66	23 35 8	4171.35	-13.50	177.26	180.24	61.30	24 44 40	3571.4	-17.22	170.34
104.34	3 24 51	3446.65	-13.48	123.68	180.23	61.29	4 22 18	2846.7	-17.21	116.76
110.00	5 44 0	3014.37	-24.77	96.56	186.18	65.66	6 34 14	2414.4	-27.84	88.73
110.00	2 19 7	3651.63	-2.72	132.69	173.61	55.91	3 19 58	3051.6	-7.18	126.44

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE-2.1487 TRA-3.3757 TC3 -.1071 BAU .1634 SGT 3338.1 SGR 2477.3 SG3 228.0 ST 1817.4 SR 1737.3 SS 1513.4
RDE 2.2264 RRA 2.1081 RC3 -.1738 FAU .00146 RRT -.9600 RRF .9941 RTF -.9809 CRT -.9832 CRS -.9995 CST .9885
FDE 2.2508 FRA 2.3580 FC3 -.0210 BSP 13009 SGB 4156.9 R23 -.0888 R13 .9947 LSA 2924.3 MSA 244.6 SSA 3.5
BDE 3.0942 BRA 3.9799 BC3 .2041 FSP -706 SG1 4118.7 SG2 562.3 THA 143.75 EL1 2503.6 EL2 230.1 ALF 136.31

LAUNCH DATE SEP 12 1965 FLIGHT TIME 156.00 ARRIVAL DATE FEB 15 1966

HELIOCENTRIC CONIC DISTANCE 402.051

RL 150.55 LAL .00 LOL 349.03 VL 27.109 GAL 5.94 AZL 73.13 HCA 168.36 SMA 129.07 ECC .19514 INC16.8711 V1 29.597
RP 107.55 LAP 3.36 LOP 157.87 VP 37.943 GAP -5.90 AZP 106.54 TAL 153.93 TAP 322.29 RCA 103.89 APO 154.26 V2 35.234
RC 48.656 GL 57.42 GP -69.67 ZAL 69.44 ZAP 70.13 ETS 73.24 ZAE 98.30 ETE 293.91 ZAC 93.71 ETC 143.72 CLP -11.97

PLANETOCENTRIC CONIC

C3 86.237 VHL 9.286 DLA 35.95 RAL 289.26 RAD 6569.7 VEL 14.408 PTH 2.62 VHP 11.798 DPA -71.57 RAP 42.48 ECC 2.4192

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
66.86	22 24 22	4424.66	-11.99	195.96	182.25	55.85	23 38 6	3824.7	-16.39	189.48
113.14	4 3 23	3364.36	-11.98	116.37	182.24	55.85	4 59 28	2764.4	-16.38	109.90
66.86	22 24 22	4424.66	-11.99	195.96	182.25	55.85	23 38 6	3824.7	-16.39	189.48
113.14	4 3 23	3364.36	-11.98	116.37	182.24	55.85	4 59 28	2764.4	-16.38	109.90
66.86	22 24 22	4424.66	-11.99	195.96	182.25	55.85	23 38 6	3824.7	-16.39	189.48
113.14	4 3 23	3364.36	-11.98	116.37	182.24	55.85	4 59 28	2764.4	-16.38	109.90

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE-3.3438 TRA-4.0322 TC3 -.1401 BAU .1799 SGT 3710.6 SGR 2295.1 SG3 177.4 ST 2259.7 SR 1789.2 SS 1475.7
RDE 2.8066 RRA 1.9693 RC3 -.0687 FAU-.00539 RRT -.9572 RRF .9870 RTF -.9897 CRT -.9863 CRS -.9978 CST .9951
FDE 2.2264 FRA 1.9983 FC3 .0541 BSP 13604 SGB 4363.1 R23 -.0580 R13 .9974 LSA 3229.4 MSA 237.1 SSA 2.5
BDE 4.3656 BRA 4.4874 BC3 .1560 FSP -557 SG1 4325.7 SG2 569.7 THA 148.77 EL1 2872.9 EL2 232.5 ALF 141.72

50A

LAUNCH DATE SEP 12 1965 FLIGHT TIME 158.00 ARRIVAL DATE FEB 17 1966

HELIOCENTRIC CONIC DISTANCE 408.478

RL 150.55 LAL .00 LOL 349.03 VL 27.149 GAL 5.84 AZL 66.76 HCA 171.41 SMA 129.35 ECC .19221 INC23.2424 V1 29.597
RP 107.57 LAP 3.38 LOP 161.12 VP 37.966 GAP -5.40 AZP 113.01 TAL 153.87 TAP 325.28 RCA 104.49 APO 154.21 V2 35.227
RC 50.208 GL 61.61 GP -76.01 ZAL 74.58 ZAP 76.14 ETS 99.10 ZAE 89.37 ETE 321.13 ZAC 102.29 ETC 171.31 CLP 7.98

PLANETOCENTRIC CONIC

C3 146.783 VHL 12.115 DLA 39.27 RAL 283.89 RAD 6570.6 VEL 16.374 PTH 2.86 VHP 15,420 DPA -66.14 RAP 63.38 ECC 3.4157

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
61.57	21 36 1	4611.86	-8.40	208.56	183.51	51.50	22 52 53	4011.9	-13.32	202.55
118.43	4 8 54	3394.33	-8.38	116.13	183.50	51.49	5 5 28	2794.3	-13.30	110.12
61.57	21 36 1	4611.86	-8.40	208.56	183.51	51.50	22 52 53	4011.9	-13.32	202.55
118.43	4 8 54	3394.33	-8.38	116.13	183.50	51.49	5 5 28	2794.3	-13.30	110.12
61.57	21 36 1	4611.86	-8.40	208.56	183.51	51.50	22 52 53	4011.9	-13.32	202.55
118.43	4 8 54	3394.33	-8.38	116.13	183.50	51.49	5 5 28	2794.3	-13.30	110.12

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE-6.4708 TRA-5.3212 TC3 -.2040 BAU .4085 SGT 4491.6 SGR 596.6 SG3 129.2 ST 3211.8 SR 578.9 SS 1467.5
RDE 1.2221 RRA -.1771 RC3 -.0417 FAU-.01373 RRT -.5101 RRF .5363 RTF -.9990 CRT -.9342 CRS -.9417 CST .9998
FDE 2.2339 FRA 1.7012 FC3 .0810 BSP 14134 SGB 4531.0 R23 -.0232 R13 .9993 LSA 3572.5 MSA 204.1 SSA 1.8
BDE 6.5852 BRA 5.3241 BC3 .2082 FSP -412 SG1 4502.0 SG2 512.0 THA 176.07 EL1 3257.2 EL2 203.6 ALF 170.40

LAUNCH DATE SEP 12 1965 FLIGHT TIME 160.00 ARRIVAL DATE FEB 19 1966

HELIOCENTRIC CONIC DISTANCE 414.628

RL 150.55 LAL .00 LOL 349.03 VL 27.185 GAL 5.81 AZL 53.87 HCA 174.24 SMA 129.59 ECC .19003 INC36.1294 V1 29.597
RP 107.60 LAP 3.39 LOP 164.37 VP 37.985 GAP -4.97 AZP 125.99 TAL 153.64 TAP 327.88 RCA 104.97 APO 154.22 V2 35.220
RC 51.850 GL 62.26 GP -75.49 ZAL 79.74 ZAP 81.45 ETS 156.71 ZAE 78.50 ETE 19.47 ZAC 113.72 ETC 231.00 CLP 53.63

PLANETOCENTRIC CONIC

C3 324.616 VHL 18.017 DLA 39.09 RAL 276.87 RAD 6571.8 VEL 21.117 PTH 3.20 VHP 23.037 DPA -55.92 RAP 75.37 ECC 6.3424

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
61.84	21 9 17	4725.07	-3.39	213.98	182.71	51.03	22 28 2	4125.1	-8.39	208.12
118.16	3 39 38	3514.73	-3.38	122.16	182.69	51.03	4 38 13	2914.7	-8.38	116.30
61.84	21 9 17	4725.07	-3.39	213.98	182.71	51.03	22 28 2	4125.1	-8.39	208.12
118.16	3 39 38	3514.73	-3.38	122.16	182.69	51.03	4 38 13	2914.7	-8.38	116.30
61.84	21 9 17	4725.07	-3.39	213.98	182.71	51.03	22 28 2	4125.1	-8.39	208.12
118.16	3 39 38	3514.73	-3.38	122.16	182.69	51.03	4 38 13	2914.7	-8.38	116.30

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE-6.8983 TRA-3.1713 TC3 -.1738 BAU 1.2814 SGT 2625.5 SGR 3767.1 SG3 92.6 ST 2228.2 SR 2741.4 SS 1619.7
RDE-8.2765 RRA-6.2340 RC3 -.2387 FAU-.02878 RRT .9738 RRF -.9976 RTF -.9861 CRT .9942 CRS .9995 CST .9972
FDE 2.4791 FRA 1.6395 FC3 .0768 BSP 14120 SGB 4591.7 R23 -.0097 R13 -.9996 LSA 3881.8 MSA 186.2 SSA 1.6
BDE10.7744 BRA 6.9943 BC3 .2653 FSP -295 SG1 4565.2 SG2 492.5 THA 55.37 EL1 3527.8 EL2 185.7 ALF 50.93

LAUNCH DATE SEP 12 1965 FLIGHT TIME 162.00 ARRIVAL DATE FEB 21 1966

HELIOCENTRIC CONIC DISTANCE 419.866

RL 150.55 LAL .00 LOL 349.03 VL 27.216 GAL 5.94 AZL 22.56 HCA 176.32 SMA 129.81 ECC .18963 INC67.4373 V1 29.597
RP 107.62 LAP 3.39 LOP 167.61 VP 38.000 GAP -4.78 AZP 157.40 TAL 152.85 TAP 329.18 RCA 105.20 APO 154.43 V2 35.212
RC 53.572 GL 52.07 GP -59.14 ZAL 84.07 ZAP 85.34 ETS 178.79 ZAE 62.48 ETE 38.22 ZAC 133.37 ETC 253.82 CLP 80.89

PLANETOCENTRIC CONIC

C31004.526 VHL 31.694 DLA 28.63 RAL 269.09 RAD 6573.0 VEL 33.553 PTH 3.50 VHP 40.702 DPA -36.54 RAP 80.08 ECC17.5320

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
85.61	23 14 50	4323.70	.20	180.95	179.47	61.37	24 26 53	3723.7	-3.63	174.34
94.39	0 31 59	4086.55	.21	163.58	179.46	61.37	1 40 6	3486.5	-3.61	156.96
100.00	2 29 38	3708.02	-7.68	140.01	183.81	61.02	3 31 26	3108.0	-11.49	133.29
100.00	0 3 48	4177.46	8.09	165.93	175.14	61.13	1 13 26	3577.5	4.18	159.33
110.00	4 50 37	3266.62	-16.85	111.83	189.13	59.81	5 45 4	2666.6	-20.73	104.86
110.00	23 55 20	4191.63	17.28	161.71	169.84	60.04	25 5 11	3591.6	13.17	155.02

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE-6.8641 TRA -.9831 TC3 -.1201 BAU 4.3064 SGT 1469.7 SGR 3944.3 SG3 73.9 ST 1242.6 SR 2813.6 SS 2123.1
RD-15.1574 RR-10.2966 RC3 -.2973 FAU-.07743 RRT .9081 RRF -.9998 RTF -.9101 CRT .9840 CRS 1.0000 CST .9841
FDE 3.2527 FRA 2.2048 FC3 .0667 BSP 12749 SGB 4209.2 R23 -.0430 R13 -.9989 LSA 3731.5 MSA 209.0 SSA 1.6
BDE16.6392 BRA10.3434 BC3 .3207 FSP -232 SG1 4168.7 SG2 582.4 THA 70.92 EL1 3069.0 EL2 203.0 ALF 66.40

LAUNCH DATE SEP 12 1965 FLIGHT TIME 164.00 ARRIVAL DATE FEB 23 1966

HELIOCENTRIC CONIC DISTANCE 431.544

RL 150.55 LAL .00 LOL 349.03 VL 27.244 GAL 4.96 AZL 151.60 HCA 183.85 SMA 130.01 ECC .17958 INC61.5963 V1 29.597
RP 107.64 LAP 3.38 LOP 170.86 VP 38.013 GAP -3.00 AZP 28.46 TAL 156.19 TAP 340.03 RCA 106.66 APO 153.35 V2 35.204
RC 55.368 GL -54.68 GP 62.52 ZAL 84.48 ZAP 86.74 ETS 193.56 ZAE 79.36 ETE 322.71 ZAC 102.72 ETC 108.83 CLP 82.92

PLANETOCENTRIC CONIC

C3 856.216 VHL 29.261 DLA -78.10 RAL 266.06 RAD 6572.8 VEL 31.265 PTH 3.47 VHP 37.712 DPA 79.33 RAP 13.53 ECC15.0911

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
13.54	6 8 15	2449.43	.10	82.69	176.03	168.10	6 49 4	1849.4	7.92	81.44
166.46	17 14 22	657.22	.10	283.21	176.05	168.10	17 25 19	57.2	7.93	281.97
13.54	6 8 15	2449.43	.10	82.69	176.03	168.10	6 49 4	1849.4	7.92	81.44
166.46	17 14 22	657.22	.10	283.21	176.05	168.10	17 25 19	57.2	7.93	281.97
13.54	6 8 15	2449.43	.10	82.69	176.03	168.10	6 49 4	1849.4	7.92	81.44
166.46	17 14 22	657.22	.10	283.21	176.05	168.10	17 25 19	57.2	7.93	281.97

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE10.8382 TRA -.5818 TC3 -.1769 BAU 3.8750 SGT 2425.1 SGR 3684.0 SG3 79.2 ST 2128.9 SR 2685.9 SS 2335.5
RD-13.3806 RRA 2.0669 RC3 .2886 FAU-.06651 RRT -.9395 RRF .9961 RTF -.9644 CRT -.9898 CRS -.9992 CST .9946
FDE-3.5994 FRA .4561 FC3 .0673 BSP 13204 SGB 4410.6 R23 -.0198 R13 .9994 LSA 4140.4 MSA 240.8 SSA 2.5
BDE17.2194 BRA 2.1472 BC3 .3385 FSP -238 SG1 4354.3 SG2 702.6 THA 122.69 EL1 3419.0 EL2 238.7 ALF 128.34

LAUNCH DATE SEP 12 1965 FLIGHT TIME 166.00 ARRIVAL DATE FEB 25 1966

HELIOCENTRIC CONIC DISTANCE 436,933

RL 150.55 LAL .00 LOL 349.03 VL 27.269 GAL 5.09 AZL 123.60 HCA 186.09 SMA 130.18 ECC .17936 INC33.6004 V1 29.597
RP 107.67 LAP 3.36 LOP 174.10 VP 38.022 GAP -2.78 AZP 56.55 TAL 155.44 TAP 341.52 RCA 106.83 APO 153.53 V2 35.195
RC 57.230 GL -63.36 GP 78.82 ZAL 80.15 ZAP 84.67 ETS 222.64 ZAE 93.67 ETE 347.45 ZAC 85.52 ETC 133.50 CLP 61.37

PLANETOCENTRIC CONIC

C3 282.791 VHL 16.816 DLA -84.20 RAL 331.90 RAD 6571.6 VEL 20.102 PTH 3.14 VHP 21.596 DPA 72.33 RAP 303.22 ECC 5.6540

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
6.59	10 17 24	2363.24	6.45	85.79	241.23	174.17	10 56 47	1763.2	14.41	85.37
173.41	21 50 29	5843.79	6.45	257.52	241.25	174.17	23 27 53	5243.8	14.41	257.10
6.59	10 17 24	2363.24	6.45	85.79	241.23	174.17	10 56 47	1763.2	14.41	85.37
173.41	21 50 29	5843.79	6.45	257.52	241.25	174.17	23 27 53	5243.8	14.41	257.10
6.59	10 17 24	2363.24	6.45	85.79	241.23	174.17	10 56 47	1763.2	14.41	85.37
173.41	21 50 29	5843.79	6.45	257.52	241.25	174.17	23 27 53	5243.8	14.41	257.10

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.1035 TRA-1.2044 TC3 -.2474 BAU 1.1711 SGT 4147.8 SGR 2760.7 SG3 104.4 ST 1219.8 SR 1067.2 SS 695.2
RDE 2.1495 RRA .7667 RC3 .1864 FAU-.02235 RRT -.9658 RRF .9842 RTF -.9961 CRT -.7469 CRS -.9050 CST .9588
FDE .3408 FRA .3497 FC3 .0684 BSP 15377 SGB 4982.5 R23 -.0062 R13 .9998 LSA 1668.7 MSA 570.7 SSA 1.3
BDE 2.1520 BRA 1.4277 BC3 .3098 FSP -327 SG1 4946.2 SG2 600.5 THA 146.71 EL1 1517.0 EL2 570.6 ALF 140.09

LAUNCH DATE SEP 12 1965 FLIGHT TIME 168.00 ARRIVAL DATE FEB 27 1966

HELIOCENTRIC CONIC DISTANCE 443,045

RL 150.55 LAL .00 LOL 349.03 VL 27.290 GAL 5.11 AZL 111.93 HCA 188.95 SMA 130.32 ECC .17836 INC21.9301 V1 29.597
RP 107.70 LAP 3.33 LOP 177.34 VP 38.029 GAP -2.38 AZP 68.31 TAL 155.17 TAP 344.12 RCA 107.08 APO 153.57 V2 35.186
RC 59.152 GL -62.68 GP 83.07 ZAL 75.37 ZAP 83.07 ETS 272.73 ZAE 102.02 ETE 34.60 ZAC 76.27 ETC 179.09 CLP 1.30

PLANETOCENTRIC CONIC

C3 130.559 VHL 11.426 DLA -79.71 RAL 348.46 RAD 6570.4 VEL 15.871 PTH 2.81 VHP 14.544 DPA 63.65 RAP 293.58 ECC 3.1487

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
11.71	11 33 21	2235.78	14.57	81.79	255.74	169.36	12 10 37	1635.8	22.43	80.62
168.29	22 46 40	5726.52	14.58	258.44	255.76	169.36	24 22 6	5126.5	22.43	257.27
11.71	11 33 21	2235.78	14.57	81.79	255.74	169.36	12 10 37	1635.8	22.43	80.62
168.29	22 46 40	5726.52	14.58	258.44	255.76	169.36	24 22 6	5126.5	22.43	257.27
11.71	11 33 21	2235.78	14.57	81.79	255.74	169.36	12 10 37	1635.8	22.43	80.62
168.29	22 46 40	5726.52	14.58	258.44	255.76	169.36	24 22 6	5126.5	22.43	257.27

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE-3.9605 TRA-1.5885 TC3 -.2067 BAU .3610 SGT 4902.7 SGR 1513.3 SG3 148.9 ST 2394.3 SR 455.7 SS 1020.7
RDE -.0829 RRA -.5390 RC3 .0066 FAU-.00652 RRT .9190 RRF -.9321 RTF -.9989 CRT .6319 CRS .6587 CST .9994
FDE 1.3110 FRA .5666 FC3 .0432 BSP 15894 SGB 5131.0 R23 -.0037 R13 -.9995 LSA 2618.9 MSA 351.0 SSA 2.0
BDE 3.9614 BRA 1.6775 BC3 .2068 FSP -467 SG1 5098.8 SG2 573.8 THA 16.04 EL1 2411.9 EL2 350.6 ALF 7.01

LAUNCH DATE SEP 12 1965 FLIGHT TIME 170.00 ARRIVAL DATE MAR 1 1966

HELIOCENTRIC CONIC DISTANCE 449,355

RL 150.55 LAL .00 LOL 349.03 VL 27.308 GAL 5.10 AZL 106.02 HCA 192.01 SMA 130.45 ECC .17733 INC16.0167 V1 29.597
RP 107.73 LAP 3.29 LOP 180.58 VP 38.032 GAP -1.94 AZP 74.32 TAL 155.02 TAP 347.03 RCA 107.32 APO 153.58 V2 35.176
RC 61.127 GL -59.08 GP 79.82 ZAL 70.75 ZAP 82.30 ETS 304.59 ZAE 107.83 ETE 63.93 ZAC 70.03 ETC 206.38 CLP -40.74

PLANETOCENTRIC CONIC

C3 76.537 VHL 8.749 DLA -75.01 RAL 343.99 RAD 6569.5 VEL 14.067 PTH 2.57 VHP 10.978 DPA 57.35 RAP 290.78 ECC 2.2596

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
17.08	11 26 11	2113.36	21.76	76.20	247.84	163.83	12 1 25	1513.4	29.42	74.07
162.92	22 18 10	5621.27	21.76	258.13	247.87	163.83	23 51 51	5021.3	29.43	256.00
17.08	11 26 11	2113.36	21.76	76.20	247.84	163.83	12 1 25	1513.4	29.42	74.07
162.92	22 18 10	5621.27	21.76	258.13	247.87	163.83	23 51 51	5021.3	29.43	256.00
17.08	11 26 11	2113.36	21.76	76.20	247.84	163.83	12 1 25	1513.4	29.42	74.07
162.92	22 18 10	5621.27	21.76	258.13	247.87	163.83	23 51 51	5021.3	29.43	256.00

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE-2.2598 TRA-1.2291 TC3 -.1109 BAU .1300 SGT 3451.9 SGR 3848.9 SG3 209.4 ST 1749.9 SR 1438.9 SS 1000.1
RDE-1.3753 RRA-1.4771 RC3 .0620 FAU .00366 RRT .9750 RRF -.9950 RTF -.9906 CRT .9455 CRS .9827 CST .9894
FDE 1.2226 FRA .9029 FC3 -.0414 BSP 16239 SGB 5170.1 R23 -.0072 R13 -.9992 LSA 2449.1 MSA 366.9 SSA 2.7
BDE 2.6454 BRA 1.9217 BC3 .1270 FSP -667 SG1 5138.1 SG2 574.4 THA 48.19 EL1 2235.7 EL2 366.7 ALF 39.12

LAUNCH DATE SEP 12 1965 FLIGHT TIME 172.00 ARRIVAL DATE MAR 3 1966

HELIOCENTRIC CONIC DISTANCE 455,730

RL 150.55 LAL .00 LOL 349.03 VL 27.323 GAL 5.09 AZL 102.50 HCA 195.13 SMA 130.56 ECC .17644 INC12.4972 V1 29.597
RP 107.76 LAP 3.24 LOP 183.82 VP 38.033 GAP -1.49 AZP 77.92 TAL 154.91 TAP 350.04 RCA 107.52 APO 153.59 V2 35.166
RC 63.151 GL -54.66 GP 75.63 ZAL 66.48 ZAP 82.39 ETS 321.09 ZAE 112.31 ETE 78.31 ZAC 65.12 ETC 218.43 CLP -57.77

PLANETOCENTRIC CONIC

C3 52.117 VHL 7.219 DLA -70.42 RAL 338.61 RAD 6568.9 VEL 13.171 PTH 2.41 VHP 8.891 DPA 52.34 RAP 289.25 ECC 1.8577

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
22.38	11 15 45	2008.77	27.05	69.55	238.14	157.89	11 49 14	1408.8	34.42	66.33
157.62	21 45 43	5540.76	27.06	256.89	238.15	157.89	23 18 4	4940.8	34.42	253.67
22.38	11 15 45	2008.77	27.05	69.55	238.14	157.89	11 49 14	1408.8	34.42	66.33
157.62	21 45 43	5540.76	27.06	256.89	238.15	157.89	23 18 4	4940.8	34.42	253.67
22.38	11 15 45	2008.77	27.05	69.55	238.14	157.89	11 49 14	1408.8	34.42	66.33
157.62	21 45 43	5540.76	27.06	256.89	238.15	157.89	23 18 4	4940.8	34.42	253.67

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE-1.2930 TRA -.8563 TC3 -.0927 BAU .1751 SGT 2276.7 SGR 4658.6 SG3 283.5 ST 1193.0 SR 1655.6 SS 990.4
RDE-1.1799 RRA-1.9218 RC3 .2336 FAU .01245 RRT .9565 RRF -.9975 RTF -.9696 CRT .9070 CRS .9891 CST .9591
FDE 1.1057 FRA 1.3293 FC3 -.2069 BSP 16299 SGB 5185.2 R23 -.0020 R13 -.9989 LSA 2229.8 MSA 416.3 SSA 3.6
BDE 1.7504 BRA 2.1039 BC3 .2513 FSP -906 SG1 5150.3 SG2 600.8 THA 64.58 EL1 1997.8 EL2 416.3 ALF 55.10

LAUNCH DATE SEP 12 1965 FLIGHT TIME 174.00 ARRIVAL DATE MAR 5 1966

HELIOCENTRIC CONIC DISTANCE 462.124

RL 150.55 LAL .00 LOL 349.03 VL 27.335 GAL 5.09 AZL 100.17 HCA 198.29 SMA 130.64 ECC .17576 INC10.1667 V1 29.597
RP 107.80 LAP 3.18 LOP 187.05 VP 38.032 GAP -1.03 AZP 80.34 TAL 154.80 TAP 353.09 RCA 107.68 APO 153.60 V2 35.155
RC 65.219 GL -50.14 GP 71.76 ZAL 62.61 ZAP 83.29 ETS 332.00 ZAE 115.92 ETE 87.58 ZAC 60.90 ETC 225.11 CLP -68.09

PLANETOCENTRIC CONIC

C3 39.196 VHL 6.261 DLA -65.98 RAL 334.28 RAD 6568.5 VEL 12.671 PTH 2.30 VHP 7.544 DPA 48.08 RAP 287.93 ECC 1.6451

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
27.55	11 9 48	1921.72	30.48	62.32	229.06	151.81	11 41 50	1321.7	37.44	57.99
152.45	21 17 4	5484.78	30.49	255.22	229.07	151.81	22 48 28	4884.8	37.45	250.89
27.55	11 9 48	1921.72	30.48	62.32	229.06	151.81	11 41 50	1321.7	37.44	57.99
152.45	21 17 4	5484.78	30.49	255.22	229.07	151.81	22 48 28	4884.8	37.45	250.89
27.55	11 9 48	1921.72	30.48	62.32	229.06	151.81	11 41 50	1321.7	37.44	57.99
152.45	21 17 4	5484.78	30.49	255.22	229.07	151.81	22 48 28	4884.8	37.45	250.89

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.8221 TRA -.5247 TC3 -.1370 BAU .2378 SGT 1409.5 SGR 4981.1 SG3 367.2 ST 831.5 SR 1684.8 SS 1013.9
RDE -.9105 RRA-2.1714 RC3 .4327 FAU .02094 RRT .8960 RRF -.9979 RTF -.9105 CRT .8173 CRS .9901 CST .8901
FDE 1.0396 FRA 1.8247 FC3 -.4625 BSP 16283 SGB 5176.7 R23 .0064 R13 -.9986 LSA 2088.4 MSA 443.2 SSA 4.5
BDE 1.2267 BRA 2.2339 BC3 .4539 FSP -1178 SG1 5141.1 SG2 606.3 THA 75.57 EL1 1826.1 EL2 442.0 ALF 66.58

LAUNCH DATE SEP 12 1965 FLIGHT TIME 176.00 ARRIVAL DATE MAR 7 1966

HELIOCENTRIC CONIC DISTANCE 468.518

RL 150.55 LAL .00 LOL 349.03 VL 27.345 GAL 5.09 AZL 98.51 HCA 201.47 SMA 130.71 ECC .17531 INC 8.5059 V1 29.597
RP 107.83 LAP 3.10 LOP 190.28 VP 38.029 GAP -.58 AZP 82.08 TAL 154.67 TAP 356.14 RCA 107.80 APO 153.63 V2 35.143
RC 67.327 GL -45.78 GP 68.22 ZAL 59.12 ZAP 84.92 ETS 340.53 ZAE 118.90 ETE 95.06 ZAC 57.05 ETC 229.75 CLP -76.20

PLANETOCENTRIC CONIC

C3 31.605 VHL 5.622 DLA -61.74 RAL 330.94 RAD 6568.3 VEL 12.368 PTH 2.23 VHP 6.616 DPA 44.28 RAP 286.58 ECC 1.5201

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
32.54	11 8 15	1848.36	32.37	54.98	221.01	145.91	11 39 3	1248.4	38.86	49.65
147.46	20 52 2	5449.49	32.38	253.60	221.03	145.90	22 22 52	4849.5	38.87	248.26
32.54	11 8 15	1848.36	32.37	54.98	221.01	145.91	11 39 3	1248.4	38.86	49.65
147.46	20 52 2	5449.49	32.38	253.60	221.03	145.90	22 22 52	4849.5	38.87	248.26
32.54	11 8 15	1848.36	32.37	54.98	221.01	145.91	11 39 3	1248.4	38.86	49.65
147.46	20 52 2	5449.49	32.38	253.60	221.03	145.90	22 22 52	4849.5	38.87	248.26

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.5593 TRA -.2034 TC3 -.2333 BAU .2828 SGT 765.2 SGR 5095.7 SG3 456.5 ST 585.0 SR 1669.4 SS 1059.8
RDE -.7231 RRA-2.3193 RC3 .6273 FAU .02931 RRT .6210 RRF -.9979 RTF -.6414 CRT .6315 CRS .9898 CST .7354
FDE 1.0273 FRA 2.3688 FC3 -.8028 BSP 16242 SGB 5152.8 R23 .0167 R13 -.9982 LSA 2012.8 MSA 448.0 SSA 5.3
BDE .9142 BRA 2.3282 BC3 .6693 FSP -1474 SG1 5118.1 SG2 597.1 THA 84.60 EL1 1712.8 EL2 442.1 ALF 76.61

LAUNCH DATE SEP 12 1965 FLIGHT TIME 178.00 ARRIVAL DATE MAR 9 1966

HELIOCENTRIC CONIC DISTANCE 474.903

RL 150.55 LAL .00 LOL 349.03 VL 27.352 GAL 5.11 AZL 97.26 HCA 204.66 SMA 130.76 ECC .17509 INC 7.2573 V1 29.597
RP 107.87 LAP 3.02 LOP 193.51 VP 38.023 GAP -.12 AZP 83.40 TAL 154.52 TAP 359.18 RCA 107.87 APO 153.66 V2 35.132
RC 69.470 GL -41.65 GP 64.90 ZAL 56.01 ZAP 87.19 ETS 347.79 ZAE 121.34 ETE 101.88 ZAC 53.41 ETC 233.49 CLP -83.37

PLANETOCENTRIC CONIC

C3 26.818 VHL 5.179 DLA -57.75 RAL 328.38 RAD 6568.1 VEL 12.173 PTH 2.18 VHP 5.952 DPA 40.77 RAP 285.12 ECC 1.4414

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
37.31	11 10 6	1784.83	33.10	47.83	214.07	140.43	11 39 51	1184.8	39.10	41.69
142.69	20 29 42	5430.87	33.12	252.34	214.09	140.42	22 0 12	4830.9	39.11	246.19
37.31	11 10 6	1784.83	33.10	47.83	214.07	140.43	11 39 51	1184.8	39.10	41.69
142.69	20 29 42	5430.87	33.12	252.34	214.09	140.42	22 0 12	4830.9	39.11	246.19
37.31	11 10 6	1784.83	33.10	47.83	214.07	140.43	11 39 51	1184.8	39.10	41.69
142.69	20 29 42	5430.87	33.12	252.34	214.09	140.42	22 0 12	4830.9	39.11	246.19

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.3898 TRA .1195 TC3 -.3766 BAU .3144 SGT 632.1 SGR 5091.4 SG3 547.8 ST 437.8 SR 1638.8 SS 1120.6
RDE -.6085 RRA-2.4018 RC3 .7920 FAU .03717 RRT -.3926 RRF -.9978 RTF .3714 CRT .2495 CRS .9889 CST .3905
FDE 1.0670 FRA 2.9444 FC3-1.1998 BSP 16091 SGB 5130.5 R23 .0278 R13 -.9977 LSA 1984.9 MSA 439.5 SSA 6.2
BDE .7227 BRA 2.4047 BC3 .8770 FSP -1770 SG1 5097.6 SG2 580.7 THA 92.83 EL1 1642.7 EL2 422.9 ALF 85.92

LAUNCH DATE SEP 12 1965 FLIGHT TIME 180.00 ARRIVAL DATE MAR 11 1966

HELIOCENTRIC CONIC DISTANCE 481.272

RL 150.55 LAL .00 LOL 349.03 VL 27.357 GAL 5.14 AZL 96.28 HCA 207.86 SMA 130.80 ECC .17511 INC 6.2799 V1 29.597
RP 107.90 LAP 2.93 LOP 196.74 VP 38.016 GAP .33 AZP 84.44 TAL 154.34 TAP 2.20 RCA 107.89 APO 153.70 V2 35.120
RC 71.643 GL -37.80 GP 61.71 ZAL 53.24 ZAP 90.01 ETS 354.17 ZAE 123.31 ETE 108.44 ZAC 49.87 ETC 236.76 CLP -90.02

PLANETOCENTRIC CONIC

C3 23.652 VHL 4.863 DLA -54.01 RAL 326.37 RAD 6568.0 VEL 12.043 PTH 2.15 VHP 5.465 DPA 37.44 RAP 283.57 ECC 1.3892

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
41.88	11 14 44	1727.78	33.02	41.04	208.20	135.51	11 43 32	1127.8	38.52	34.30
138.12	20 9 5	5425.99	33.03	251.65	208.21	135.50	21 39 31	4826.0	38.53	244.90
41.88	11 14 44	1727.78	33.02	41.04	208.20	135.51	11 43 32	1127.8	38.52	34.30
138.12	20 9 5	5425.99	33.03	251.65	208.21	135.50	21 39 31	4826.0	38.53	244.90
41.88	11 14 44	1727.78	33.02	41.04	208.20	135.51	11 43 32	1127.8	38.52	34.30
138.12	20 9 5	5425.99	33.03	251.65	208.21	135.50	21 39 31	4826.0	38.53	244.90

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.2626 TRA .4462 TC3 -.5556 BAU .3408 SGT 1090.0 SGR 4987.6 SG3 635.7 ST 409.9 SR 1589.8 SS 1184.3
RDE -.5342 RRA-2.4269 RC3 .9235 FAU .04464 RRT -.8541 RRF -.9976 RTF .8424 CRT -.3030 CRS .9875 CST -.1489
FDE 1.1409 FRA 3.5203 FC3-1.6339 BSP 16015 SGB 5105.3 R23 .0392 R13 -.9970 LSA 1979.4 MSA 424.0 SSA 7.0
BDE .5953 BRA 2.4676 BC3 1.0778 FSP -2068 SG1 5074.8 SG2 557.2 THA 100.70 EL1 1594.9 EL2 389.4 ALF 94.75

LAUNCH DATE SEP 12 1965 FLIGHT TIME 182.00 ARRIVAL DATE MAR 13 1966

DISTANCE 487.624

HELIOCENTRIC CONIC

RL 150.55 LAL .00 LOL 349.03 VL 27.360 GAL 5.19 AZL 95.49 HCA 211.05 SMA 130.82 ECC .17536 INC 5.4897 VI 29.597
RP 107.94 LAP 2.83 LOP 199.96 VP 38.006 GAP .77 AZP 85.29 TAL 154.13 TAP 5.19 RCA 107.88 APO 153.76 V2 35.108
RC 73.845 GL -34.21 GP 58.58 ZAL 50.76 ZAP 93.27 ETS 359.84 ZAE 124.85 ETE 114.86 ZAC 46.40 ETC 239.71 CLP -96.28

PLANETOCENTRIC CONIC

C3 21.496 VHL 4.636 DLA -50.52 RAL 324.79 RAD 6567.9 VEL 11.953 PTH 2.13 VHP 5.106 DPA 34.22 RAP 281.97 ECC 1.3538

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
46.24	11 21 39	1674.78	32.36	34.64	203.30	131.17	11 49 38	1074.8	37.40	27.47
133.76	19 49 33	5432.59	32.37	251.62	203.32	131.16	21 20 5	4832.6	37.42	244.46
46.24	11 21 39	1674.78	32.36	34.64	203.30	131.17	11 49 33	1074.8	37.40	27.47
133.76	19 49 33	5432.59	32.37	251.62	203.32	131.16	21 20 5	4832.6	37.42	244.46
46.24	11 21 39	1674.78	32.36	34.64	203.30	131.17	11 49 33	1074.8	37.40	27.47
133.76	19 49 33	5432.59	32.37	251.62	203.32	131.16	21 20 5	4832.6	37.42	244.46

DIFFERENTIAL CORRECTIONS

TDE -.1556 TRA .7727 TC3 -.7606 BAU .3637
RDE -.4854 RRA-2.4074 RC3 1.0113 FAU .05128
FDE 1.2431 FRA 4.0744 FC3-2.0651 BSP 15951
BDE .5097 BRA 2.5284 BC3 1.2654 FSP -2348

MID-COURSE EXECUTION ACCURACY

SGT 1670.2 SGR 4809.4 SG3 716.3
RRT -.9427 RRF -.9974 RTF .9350
SGB 5091.1 R23 .0501 R13 -.9962
SG1 5063.5 SG2 529.4 THA 108.34

ORBIT DETERMINATION ACCURACY

ST 490.3 SR 1526.7 SS 1248.2
CRT -.6914 CRS .9856 CST -.5593
LSA 1991.1 MSA 406.1 SSA 7.7
EL1 1565.9 EL2 345.4 ALF 103.17

LAUNCH DATE SEP 12 1965 FLIGHT TIME 184.00 ARRIVAL DATE MAR 15 1966

DISTANCE 493.956

HELIOCENTRIC CONIC

RL 150.55 LAL .00 LOL 349.03 VL 27.361 GAL 5.25 AZL 94.83 HCA 214.25 SMA 130.82 ECC .17584 INC 4.8343 VI 29.597
RP 107.98 LAP 2.72 LOP 203.18 VP 37.995 GAP 1.22 AZP 86.00 TAL 153.89 TAP 8.15 RCA 107.82 APO 153.83 V2 35.095
RC 76.070 GL -30.88 GP 55.49 ZAL 48.56 ZAP 96.88 ETS 4.85 ZAE 125.97 ETE 121.12 ZAC 42.98 ETC 242.36 CLP-102.20

PLANETOCENTRIC CONIC

C3 20.011 VHL 4.473 DLA -47.26 RAL 323.53 RAD 6567.8 VEL 11.891 PTH 2.11 VHP 4.844 DPA 31.07 RAP 280.39 ECC 1.3293

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
50.44	11 30 38	1623.68	31.33	28.57	199.28	127.38	11 57 42	1023.7	35.95	21.14
129.56	19 30 30	5449.40	31.34	252.30	199.29	127.38	21 1 20	4849.4	35.96	244.87
50.44	11 30 38	1623.68	31.33	28.57	199.28	127.38	11 57 42	1023.7	35.95	21.14
129.56	19 30 30	5449.40	31.34	252.30	199.29	127.38	21 1 20	4849.4	35.96	244.87
50.44	11 30 38	1623.68	31.33	28.57	199.28	127.38	11 57 42	1023.7	35.95	21.14
129.56	19 30 30	5449.40	31.34	252.30	199.29	127.38	21 1 20	4849.4	35.96	244.87

DIFFERENTIAL CORRECTIONS

TDE -.0573 TRA 1.0946 TC3 -.9796 BAU .3851
RDE -.4496 RRA-2.3512 RC3 1.0549 FAU .05684
FDE 1.3623 FRA 4.5814 FC3-2.4592 BSP 15932
BDE .4532 BRA 2.5935 BC3 1.4396 FSP -2596

MID-COURSE EXECUTION ACCURACY

SGT 2245.1 SGR 4572.7 SG3 785.4
RRT -.9692 RRF -.9970 RTF .9633
SGB 5094.1 R23 .0595 R13 -.9953
SG1 5069.7 SG2 498.5 THA 115.71

ORBIT DETERMINATION ACCURACY

ST 624.6 SR 1450.6 SS 1308.6
CRT -.8646 CRS .9831 CST -.7583
LSA 2013.9 MSA 388.2 SSA 8.5
EL1 1551.9 EL2 293.3 ALF 111.21

LAUNCH DATE SEP 12 1965 FLIGHT TIME 186.00 ARRIVAL DATE MAR 17 1966

DISTANCE 500.265

HELIOCENTRIC CONIC

RL 150.55 LAL .00 LOL 349.03 VL 27.360 GAL 5.32 AZL 94.28 HCA 217.45 SMA 130.81 ECC .17655 INC 4.2787 VI 29.597
RP 108.02 LAP 2.60 LOP 206.40 VP 37.983 GAP 1.66 AZP 86.60 TAL 153.62 TAP 11.07 RCA 107.72 APO 153.91 V2 35.082
RC 78.316 GL -27.80 GP 52.42 ZAL 46.58 ZAP 100.73 ETS 9.26 ZAE 126.68 ETE 127.16 ZAC 39.62 ETC 244.72 CLP-107.78

PLANETOCENTRIC CONIC

C3 18.997 VHL 4.359 DLA -44.22 RAL 322.52 RAD 6567.8 VEL 11.848 PTH 2.10 VHP 4.659 DPA 27.97 RAP 278.87 ECC 1.3126

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
54.50	11 41 36	1572.83	30.06	22.76	196.01	124.10	12 7 49	972.8	34.30	15.16
125.50	19 11 30	5475.60	30.07	253.68	196.02	124.09	20 42 46	4875.6	34.31	246.08
54.50	11 41 36	1572.83	30.06	22.76	196.01	124.10	12 7 49	972.8	34.30	15.16
125.50	19 11 30	5475.60	30.07	253.68	196.02	124.09	20 42 46	4875.6	34.31	246.08
54.50	11 41 36	1572.83	30.06	22.76	196.01	124.10	12 7 49	972.8	34.30	15.16
125.50	19 11 30	5475.60	30.07	253.68	196.02	124.09	20 42 46	4875.6	34.31	246.08

DIFFERENTIAL CORRECTIONS

TDE .0376 TRA 1.4072 TC3-1.2010 BAU .4065
RDE -.4193 RRA-2.2661 RC3 1.0580 FAU .06116
FDE 1.4871 FRA 5.0183 FC3-2.7872 BSP 15990
BDE .4210 BRA 2.6675 BC3 1.6006 FSP -2803

MID-COURSE EXECUTION ACCURACY

SGT 2785.8 SGR 4293.0 SG3 839.7
RRT -.9801 RRF -.9965 RTF .9751
SGB 5117.6 R23 .0665 R13 -.9943
SG1 5096.4 SG2 466.3 THA 122.76

ORBIT DETERMINATION ACCURACY

ST 776.5 SR 1363.6 SS 1362.2
CRT -.9384 CRS .9801 CST -.8513
LSA 2044.4 MSA 371.7 SSA 9.1
EL1 1551.4 EL2 235.9 ALF 118.85

LAUNCH DATE SEP 12 1965 FLIGHT TIME 188.00 ARRIVAL DATE MAR 19 1966

DISTANCE 506.553

HELIOCENTRIC CONIC

RL 150.55 LAL .00 LOL 349.03 VL 27.357 GAL 5.41 AZL 93.80 HCA 220.65 SMA 130.79 ECC .17749 INC 3.7991 VI 29.597
RP 108.06 LAP 2.47 LOP 209.62 VP 37.969 GAP 2.09 AZP 87.12 TAL 153.31 TAP 13.96 RCA 107.58 APO 154.01 V2 35.069
RC 80.581 GL -24.93 GP 49.39 ZAL 44.80 ZAP 104.73 ETS 13.08 ZAE 127.03 ETE 132.87 ZAC 36.34 ETC 246.74 CLP-113.00

PLANETOCENTRIC CONIC

C3 18.330 VHL 4.281 DLA -41.38 RAL 321.72 RAD 6567.7 VEL 11.820 PTH 2.09 VHP 4.537 DPA 24.94 RAP 277.46 ECC 1.3017

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
58.47	11 54 43	1520.34	28.64	17.07	193.38	121.24	12 20 3	920.3	32.55	9.37
121.53	18 51 59	5511.29	28.65	255.80	193.39	121.23	20 23 50	4911.3	32.56	248.10
58.47	11 54 43	1520.34	28.64	17.07	193.38	121.24	12 20 3	920.3	32.55	9.37
121.53	18 51 59	5511.29	28.65	255.80	193.39	121.23	20 23 50	4911.3	32.56	248.10
58.47	11 54 43	1520.34	28.64	17.07	193.38	121.24	12 20 3	920.3	32.55	9.37
121.53	18 51 59	5511.29	28.65	255.80	193.39	121.23	20 23 50	4911.3	32.56	248.10

DIFFERENTIAL CORRECTIONS

TDE .1338 TRA 1.7103 TC3-1.4109 BAU .4267
RDE -.3937 RRA-2.1641 RC3 1.0203 FAU .06373
FDE 1.6169 FRA 5.3785 FC3-3.0102 BSP 16047
BDE .4159 BRA 2.7584 BC3 1.7412 FSP -2943

MID-COURSE EXECUTION ACCURACY

SGT 3285.7 SGR 3992.1 SG3 878.3
RRT -.9852 RRF -.9959 RTF .9808
SGB 5170.3 R23 .0707 R13 -.9933
SG1 5151.9 SG2 436.6 THA 129.38

ORBIT DETERMINATION ACCURACY

ST 933.2 SR 1272.4 SS 1411.7
CRT -.9727 CRS .9764 CST -.8998
LSA 2086.8 MSA 357.5 SSA 9.8
EL1 1568.0 EL2 175.9 ALF 126.03

LAUNCH DATE SEP 12 1965 FLIGHT TIME 190.00 ARRIVAL DATE MAR 21 1966

HELIOCENTRIC CONIC DISTANCE 512.815

RL 150.55 LAL .00 LOL 349.03 VL 27,353 GAL 5.52 AZL 93.38 HCA 223.85 SMA 130.76 ECC .17867 INC 3.3784 VI 29.597
RP 108.10 LAP 2.34 LOP 212.83 VP 37,953 GAP 2.53 AZP 87.56 TAL 152.97 TAP 16.82 RCA 107.40 APO 154.13 V2 35.056
RC 82.862 GL -22.27 GP 46.42 ZAL 43.20 ZAP 108.79 ETS 16.38 ZAE 127.05 ETE 138.18 ZAC 33.18 ETC 248.38 CLP-117.86

PLANETOCENTRIC CONIC

C3 17.930 VHL 4.234 DLA -38.72 RAL 321.08 RAD 6567.7 VEL 11.803 PTH 2.09 VHP 4.468 DPA 21.99 RAP 276.22 ECC 1.2951

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
62.41	12 10 10	1464.45	27.14	11.36	191.31	118.74	12 34 34	864.5	30.75	3.61
117.59	18 31 27	5556.88	27.16	258.69	191.32	118.73	20 4 4	4956.9	30.77	250.94
62.41	12 10 10	1464.45	27.14	11.36	191.31	118.74	12 34 34	864.5	30.75	3.61
117.59	18 31 27	5556.88	27.16	258.69	191.32	118.73	20 4 4	4956.9	30.77	250.94
62.41	12 10 10	1464.45	27.14	11.36	191.31	118.74	12 34 34	864.5	30.75	3.61
117.59	18 31 27	5556.88	27.16	258.69	191.32	118.73	20 4 4	4956.9	30.77	250.94

DIFFERENTIAL CORRECTIONS
TOE .2303 TRA 1.9998 TC3-1.6046 BAU .4485
ROE -.3648 RRA-2.0476 RC3 .9622 FAU .06516
FDE 1.7291 FRA 5.6412 FC3-3.1462 BSP 16262
BDE .4314 BRA 2.8621 BC3 1.8709 FSP -3045

MID-COURSE EXECUTION ACCURACY
SGT 3737.9 SGR 3676.6 SG3 899.1
RRT -.9879 RRF -.9950 RTF .9841
SGB 5243.1 R23 .0710 R13 -.9925
SG1 5227.2 SG2 407.5 THA 135.48

ORBIT DETERMINATION ACCURACY
ST 1086.9 SR 1174.4 SS 1449.2
CRT -.9897 CRS .9716 CST -.9279
LSA 2131.1 MSA 344.9 SSA 10.5
EL1 1596.0 EL2 114.6 ALF 132.76

LAUNCH DATE SEP 12 1965 FLIGHT TIME 192.00 ARRIVAL DATE MAR 23 1966

HELIOCENTRIC CONIC DISTANCE 519.053

RL 150.55 LAL .00 LOL 349.03 VL 27,347 GAL 5.63 AZL 93.00 HCA 227.05 SMA 130.72 ECC .18007 INC 3.0042 VI 29.597
RP 108.14 LAP 2.20 LOP 216.04 VP 37,937 GAP 2.96 AZP 87.95 TAL 152.59 TAP 19.64 RCA 107.18 APO 154.26 V2 35.043
RC 85.157 GL -19.79 GP 43.55 ZAL 41.76 ZAP 112.83 ETS 19.19 ZAE 126.78 ETE 143.02 ZAC 30.15 ETC 249.58 CLP-122.37

PLANETOCENTRIC CONIC

C3 17.746 VHL 4.213 DLA -36.24 RAL 320.59 RAD 6567.7 VEL 11.795 PTH 2.09 VHP 4.443 DPA 19.13 RAP 275.16 ECC 1.2921

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
66.38	12 28 31	1402.59	25.61	5.42	189.71	116.56	12 51 54	802.6	28.96	357.65
113.62	18 9 7	5613.94	25.63	262.44	189.72	116.55	19 42 41	5013.9	28.97	254.68
66.38	12 28 31	1402.59	25.61	5.42	189.71	116.56	12 51 54	802.6	28.96	357.65
113.62	18 9 7	5613.94	25.63	262.44	189.72	116.55	19 42 41	5013.9	28.97	254.68
66.38	12 28 31	1402.59	25.61	5.42	189.71	116.56	12 51 54	802.6	28.96	357.65
113.62	18 9 7	5613.94	25.63	262.44	189.72	116.55	19 42 41	5013.9	28.97	254.68

DIFFERENTIAL CORRECTIONS
TOE .3287 TRA 2.2768 TC3-1.7741 BAU .4705
ROE -.3347 RRA-1.9259 RC3 .8865 FAU .06524
FDE 1.8255 FRA 5.8125 FC3-3.1826 BSP 16556
BDE .4691 BRA 2.9821 BC3 1.9633 FSP -3092

MID-COURSE EXECUTION ACCURACY
SGT 4144.2 SGR 3363.2 SG3 903.8
RRT -.9892 RRF -.9938 RTF .9861
SGB 5337.2 R23 .0675 R13 -.9917
SG1 5323.4 SG2 382.9 THA 141.00

ORBIT DETERMINATION ACCURACY
ST 1236.3 SR 1075.6 SS 1477.8
CRT -.9976 CRS .9654 CST -.9457
LSA 2181.1 MSA 334.6 SSA 11.0
EL1 1637.8 EL2 55.7 ALF 138.99

LAUNCH DATE SEP 12 1965 FLIGHT TIME 194.00 ARRIVAL DATE MAR 25 1966

HELIOCENTRIC CONIC DISTANCE 525.265

RL 150.55 LAL .00 LOL 349.03 VL 27,339 GAL 5.77 AZL 92.67 HCA 230.25 SMA 130.67 ECC .18171 INC 2.6673 VI 29.597
RP 108.18 LAP 2.05 LOP 219.24 VP 37,919 GAP 3.40 AZP 88.29 TAL 152.18 TAP 22.43 RCA 106.92 APO 154.41 V2 35.030
RC 87.465 GL -17.49 GP 40.79 ZAL 40.45 ZAP 116.79 ETS 21.59 ZAE 126.30 ETE 147.35 ZAC 27.30 ETC 250.28 CLP-126.54

PLANETOCENTRIC CONIC

C3 17.744 VHL 4.212 DLA -33.91 RAL 320.20 RAD 6567.7 VEL 11.795 PTH 2.09 VHP 4.458 DPA 16.39 RAP 274.32 ECC 1.2920

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
70.51	12 50 44	1331.00	24.08	358.95	188.52	114.63	13 12 55	731.0	27.19	351.19
109.49	17 43 52	5685.47	24.09	267.28	188.53	114.62	19 18 38	5085.5	27.20	259.52
70.51	12 50 44	1331.00	24.08	358.95	188.52	114.63	13 12 55	731.0	27.19	351.19
109.49	17 43 52	5685.47	24.09	267.28	188.53	114.62	19 18 38	5085.5	27.20	259.52
110.00	17 14 10	5776.14	21.27	272.86	187.03	117.41	18 50 26	5176.1	24.77	265.45
110.00	18 19 37	5576.37	26.97	260.15	189.89	111.85	19 52 33	4976.4	29.68	252.01

DIFFERENTIAL CORRECTIONS
TOE .4290 TRA 2.5425 TC3-1.9161 BAU .4927
ROE -.3034 RRA-1.8046 RC3 .8010 FAU .06411
FDE 1.9023 FRA 5.8999 FC3-3.1277 BSP 16921
BDE .5255 BRA 3.1179 BC3 2.0768 FSP -3090

MID-COURSE EXECUTION ACCURACY
SGT 4506.7 SGR 3061.6 SG3 894.3
RRT -.9896 RRF -.9923 RTF .9873
SGB 5448.3 R23 .0608 R13 -.9911
SG1 5436.1 SG2 364.5 THA 145.91

ORBIT DETERMINATION ACCURACY
ST 1380.5 SR 978.8 SS 1497.4
CRT -.9993 CRS .9574 CST -.9577
LSA 2235.9 MSA 326.4 SSA 11.5
EL1 1692.2 EL2 11.6 ALF 144.66

LAUNCH DATE SEP 12 1965 FLIGHT TIME 196.00 ARRIVAL DATE MAR 27 1966

HELIOCENTRIC CONIC DISTANCE 531.450

RL 150.55 LAL .00 LOL 349.03 VL 27,330 GAL 5.92 AZL 92.36 HCA 233.44 SMA 130.61 ECC .18359 INC 2.3606 VI 29.597
RP 108.22 LAP 1.90 LOP 222.45 VP 37,901 GAP 3.83 AZP 88.59 TAL 151.74 TAP 25.18 RCA 106.63 APO 154.58 V2 35.016
RC 89.783 GL -15.35 GP 38.17 ZAL 39.25 ZAP 120.63 ETS 23.63 ZAE 125.64 ETE 151.17 ZAC 24.65 ETC 250.38 CLP-130.39

PLANETOCENTRIC CONIC

C3 17.902 VHL 4.231 DLA -31.73 RAL 319.93 RAD 6567.7 VEL 11.802 PTH 2.09 VHP 4.505 DPA 13.80 RAP 273.70 ECC 1.2946

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
75.05	13 18 57	1242.26	22.56	351.41	187.68	112.92	13 39 39	642.3	25.47	343.67
104.95	17 13 26	5778.33	22.58	273.69	187.69	112.91	18 49 44	5178.3	25.48	265.94
75.05	13 18 57	1242.26	22.56	351.41	187.68	112.92	13 39 39	642.3	25.47	343.67
104.95	17 13 26	5778.33	22.58	273.69	187.69	112.91	18 49 44	5178.3	25.48	265.94
110.00	16 8 17	692.94	14.40	306.85	183.28	121.34	16 19 50	92.9	18.44	300.07
110.00	19 23 17	5375.64	31.26	246.12	190.99	104.58	20 52 52	4775.6	32.95	237.30

DIFFERENTIAL CORRECTIONS
TOE .5318 TRA 2.7987 TC3-2.0282 BAU .5144
ROE -.2711 RRA-1.6879 RC3 .7120 FAU .06195
FDE 1.9591 FRA 5.9146 FC3-2.9961 BSP 17334
BDE .5970 BRA 3.2683 BC3 2.1495 FSP -3044

MID-COURSE EXECUTION ACCURACY
SGT 4829.0 SGR 2778.5 SG3 873.2
RRT -.9893 RRF -.9903 RTF .9881
SGB 5571.3 R23 .0519 R13 -.9906
SG1 5560.1 SG2 352.6 THA 150.22

ORBIT DETERMINATION ACCURACY
ST 1519.3 SR 886.1 SS 1508.9
CRT -.9977 CRS .9471 CST -.9664
LSA 2295.1 MSA 320.0 SSA 12.0
EL1 1758.0 EL2 52.2 ALF 149.78

LAUNCH DATE SEP 12 1965 FLIGHT TIME 198.00 ARRIVAL DATE MAR 29 1966

HELIOCENTRIC CONIC DISTANCE 537.608

RL 150.55 LAL .00 LOL 349.03 VL 27.320 GAL 6.09 AZL 92.08 HCA 236.64 SMA 130.54 ECC .18571 INC 2.0784 VI 29.597
RP 108.26 LAP 1.74 LOP 225.64 VP 37.881 GAP 4.27 AZP 88.86 TAL 151.26 TAP 27.90 RCA 106.29 APO 154.78 V2 35.003
RC 92.112 GL -13.35 GP 35.71 ZAL 38.15 ZAP 124.30 ETS 25.38 ZAE 124.87 ETE 154.50 ZAC 22.21 ETC 249.79 CLP-133.95

PLANETOCENTRIC CONIC

C3 18.204 VHL 4.267 DLA -29.68 RAL 319.73 RAD 6567.7 VEL 11.815 PTH 2.09 VHP 4.583 DPA 11.35 RAP 273.31 ECC 1.2996

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
80.71	13 59 25	1115.55	21.08	341.27	187.15	111.39	14 18 0	515.5	23.80	333.54
99.29	16 31 27	624.83	21.10	305.21	187.16	111.38	16 41 51	24.8	23.81	297.49
100.00	16 7 1	702.91	18.74	309.97	186.11	113.73	16 18 44	102.9	21.79	302.50
100.00	17 6 31	5800.74	23.48	275.74	188.11	109.05	18 43 12	5200.7	25.86	267.75
110.00	15 33 37	808.28	10.22	313.18	181.40	122.80	15 47 5	208.3	14.47	306.66
110.00	19 56 25	5268.13	32.83	238.13	190.86	100.10	21 24 13	4668.1	33.88	229.05

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE .6396 TRA 3.0504 TC3-2.1047 BAU .5340 SGT 5118.1 SGR 2519.6 SG3 843.9 ST 1655.7 SR 800.6 SS 1516.2
RDE -.2401 RRA-1.5800 RC3 .6202 FAU .05867 RRT -.9881 RRF -.9878 RTF .9884 CRT -.9913 CRS .9344 CST -.9729
FDE 2.0025 FRA 5.8765 FC3-2.7901 BSP 17710 SGB 5704.7 R23 .0426 R13 -.9902 LSA 2362.6 MSA 314.9 SSA 12.4
BDE .6832 BRA 3.4353 BC3 2.1942 FSP -2950 SG1 5694.0 SG2 347.9 THA 153.95 EL1 1836.7 EL2 94.8 ALF 154.32

LAUNCH DATE SEP 12 1965 FLIGHT TIME 200.00 ARRIVAL DATE MAR 31 1966

HELIOCENTRIC CONIC DISTANCE 543.736

RL 150.55 LAL .00 LOL 349.03 VL 27.309 GAL 6.27 AZL 91.82 HCA 239.83 SMA 130.46 ECC .18808 INC 1.8164 VI 29.597
RP 108.31 LAP 1.57 LOP 228.84 VP 37.861 GAP 4.71 AZP 89.09 TAL 150.75 TAP 30.58 RCA 105.92 APO 155.00 V2 34.990
RC 94.449 GL -11.49 GP 33.42 ZAL 37.14 ZAP 127.79 ETS 26.89 ZAE 124.03 ETE 157.37 ZAC 20.00 ETC 248.39 CLP-137.24

PLANETOCENTRIC CONIC

C3 18.644 VHL 4.318 DLA -27.76 RAL 319.62 RAD 6567.8 VEL 11.833 PTH 2.10 VHP 4.687 DPA 9.07 RAP 273.14 ECC 1.3068

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	14 25 48	1035.72	15.92	333.16	185.32	113.73	14 43 4	435.7	19.00	325.83
90.00	16 4 8	715.84	23.47	312.76	188.24	106.31	16 16 4	115.8	25.49	304.67
100.00	15 1 48	919.32	12.34	322.85	183.55	117.44	15 17 8	319.3	15.92	315.89
100.00	18 10 49	5595.51	27.32	261.72	189.34	102.63	19 44 4	4995.5	28.78	253.22
110.00	15 8 14	899.14	6.84	318.04	180.27	123.57	15 23 13	299.1	11.20	311.66
110.00	20 20 53	5188.45	33.62	232.05	190.58	96.58	21 47 21	4588.5	34.16	222.85

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE .7471 TRA 3.2934 TC3-2.1583 BAU .5545 SGT 5370.9 SGR 2282.3 SG3 807.5 ST 1783.5 SR 719.8 SS 1513.0
RDE -.2069 RRA-1.4787 RC3 .5388 FAU .05524 RRT -.9863 RRF -.9846 RTF .9887 CRT -.9804 CRS .9177 CST -.9778
FDE 2.0201 FRA 5.7850 FC3-2.5652 BSP 18196 SGB 5835.7 R23 .0327 R13 -.9898 LSA 2427.2 MSA 310.9 SSA 12.6
BDE .7752 BRA 3.6101 BC3 2.2245 FSP -2848 SG1 5825.4 SG2 346.7 THA 157.17 EL1 1918.8 EL2 131.9 ALF 158.31

LAUNCH DATE SEP 12 1965 FLIGHT TIME 202.00 ARRIVAL DATE APR 2 1966

HELIOCENTRIC CONIC DISTANCE 549.834

RL 150.55 LAL .00 LOL 349.03 VL 27.297 GAL 6.48 AZL 91.57 HCA 243.02 SMA 130.37 ECC .19072 INC 1.5711 VI 29.597
RP 108.35 LAP 1.40 LOP 232.04 VP 37.840 GAP 5.15 AZP 89.29 TAL 150.21 TAP 33.23 RCA 105.51 APO 155.24 V2 34.977
RC 96.794 GL -9.77 GP 31.31 ZAL 36.21 ZAP 131.08 ETS 28.23 ZAE 123.15 ETE 159.84 ZAC 18.04 ETC 246.04 CLP-140.28

PLANETOCENTRIC CONIC

C3 19.217 VHL 4.384 DLA -25.96 RAL 319.57 RAD 6567.8 VEL 11.857 PTH 2.10 VHP 4.814 DPA 6.95 RAP 273.18 ECC 1.3163

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	13 33 35	1215.71	10.72	343.81	183.64	116.37	13 53 51	615.7	14.18	336.84
90.00	16 55 58	5838.15	26.17	279.28	189.16	101.22	18 33 16	5238.2	27.45	270.85
100.00	14 28 0	1039.99	8.47	329.71	182.44	118.78	14 45 20	440.0	12.24	322.96
100.00	18 44 14	5489.10	28.67	254.10	189.66	98.84	20 15 44	4889.1	29.60	245.42
110.00	14 48 2	977.12	3.88	322.14	179.63	123.99	15 4 19	377.1	8.32	315.86
110.00	20 40 42	5124.73	34.01	227.11	190.34	93.68	22 6 6	4524.7	34.14	217.87

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE .8577 TRA 3.5337 TC3-2.1837 BAU .5735 SGT 5595.6 SGR 2069.7 SG3 767.3 ST 1906.6 SR 646.7 SS 1505.1
RDE -.1745 RRA-1.3872 RC3 .4635 FAU .05139 RRT -.9837 RRF -.9808 RTF .9888 CRT -.9642 CRS .8965 CST -.9818
FDE 2.0235 FRA 5.6623 FC3-2.3151 BSP 18672 SGB 5966.1 R23 .0239 R13 -.9895 LSA 2494.7 MSA 307.7 SSA 12.9
BDE .8753 BRA 3.7962 BC3 2.2323 FSP -2724 SG1 5955.8 SG2 349.4 THA 159.93 EL1 2006.6 EL2 163.0 ALF 161.77

LAUNCH DATE SEP 12 1965 FLIGHT TIME 204.00 ARRIVAL DATE APR 4 1966

HELIOCENTRIC CONIC DISTANCE 555.900

RL 150.55 LAL .00 LOL 349.03 VL 27.284 GAL 6.70 AZL 91.34 HCA 246.21 SMA 130.28 ECC .19362 INC 1.3394 VI 29.597
RP 108.39 LAP 1.23 LOP 235.23 VP 37.819 GAP 5.60 AZP 89.46 TAL 149.64 TAP 35.85 RCA 105.06 APO 155.51 V2 34.964
RC 99.145 GL -8.16 GP 29.36 ZAL 35.34 ZAP 134.19 ETS 29.43 ZAE 122.27 ETE 161.95 ZAC 16.35 ETC 242.62 CLP-143.10

PLANETOCENTRIC CONIC

C3 19.923 VHL 4.464 DLA -24.27 RAL 319.58 RAD 6567.8 VEL 11.887 PTH 2.11 VHP 4.962 DPA 4.99 RAP 273.43 ECC 1.3279

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	13 2 21	1331.43	7.15	350.44	182.92	117.47	13 24 33	731.4	10.77	343.63
90.00	17 27 17	5739.54	27.29	272.28	189.60	97.88	19 2 57	5139.5	28.09	263.71
100.00	14 3 11	1135.03	5.32	335.01	181.92	119.46	14 22 6	535.0	9.20	328.38
100.00	19 9 8	5411.17	29.35	248.41	189.88	95.92	20 39 19	4811.2	29.86	239.64
110.00	14 31 18	1046.89	1.22	325.79	179.38	124.16	14 48 45	446.9	5.69	319.56
110.00	20 57 31	5072.08	34.16	223.01	190.23	91.26	22 22 3	4472.1	33.96	213.77

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE .9716 TRA 3.7733 TC3-2.1834 BAU .5910 SGT 5795.1 SGR 1880.8 SG3 725.2 ST 2024.7 SR 581.3 SS 1493.0
RDE -.1431 RRA-1.3054 RC3 .3958 FAU .04732 RRT -.9802 RRF -.9760 RTF .9887 CRT -.9419 CRS .8700 CST -.9849
FDE 2.0150 FRA 5.5189 FC3-2.0561 BSP 19136 SGB 6092.7 R23 .0163 R13 -.9892 LSA 2563.9 MSA 305.0 SSA 13.0
BDE .9821 BRA 3.9928 BC3 2.2190 FSP -2589 SG1 6082.4 SG2 354.5 THA 162.29 EL1 2098.1 EL2 188.4 ALF 164.74

LAUNCH DATE SEP 12 1965 FLIGHT TIME 206.00 ARRIVAL DATE APR 6 1966

HELIOCENTRIC CONIC DISTANCE 561.932

RL 150.55 LAL .00 LOL 349.03 VL 27.270 GAL 6.94 AZL 91.12 HCA 249.39 SMA 130.18 ECC .19680 INC 1.1191 V1 29.597
RP 108.43 LAP 1.05 LOP 238.41 VP 37.797 GAP 6.05 AZP 89.61 TAL 149.04 TAP 38.44 RCA 104.56 APO 155.80 V2 34.951
RC 101.502 GL -6.66 GP 27.58 ZAL 34.53 ZAP 137.09 ETS 30.55 ZAE 121.41 ETE 163.74 ZAC 14.97 ETC 238.04 CLP-145.73

PLANETOCENTRIC CONIC

C3 20.766 VHL 4.557 DLA -22.68 RAL 319.64 RAD 6567.8 VEL 11.923 PTH 2.12 VHP 5.130 DPA 3.19 RAP 273.87 ECC 1.3418

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 38 54	1424.72	4.19	355.70	182.68	118.03	13 2 38	824.7	7.91	348.99
90.00	17 51 14	5666.03	27.86	266.98	189.99	95.29	19 25 40	5066.0	28.30	258.34
100.00	13 43 23	1216.55	2.57	339.50	181.79	119.79	14 3 40	616.5	6.52	332.94
100.00	19 29 26	5349.44	29.70	243.85	190.15	93.55	20 58 35	4749.4	29.88	235.05
110.00	14 17 6	1110.86	-1.23	329.12	179.42	124.16	14 35 37	510.9	3.26	322.92
110.00	21 12 12	5027.89	34.18	219.56	190.28	89.22	22 36 0	4427.9	33.69	210.35

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE 1.0885 TRA 4.0134 TC3-2.1616 BAU .6074 SGT 5971.9 SGR 1713.4 SG3 682.5 ST 2137.4 SR 523.5 SS 1477.3
RDE -.1126 RRA-1.2327 RC3 .3366 FAU .04322 RRT -.9758 RRF -.9704 RTF .9886 CRT -.9125 CRS .8370 CST -.9875
FDE 1.9966 FRA 5.3623 FC3-1.8017 BSP 19594 SGB 6212.8 R23 .0101 R13 -.9889 LSA 2633.1 MSA 302.6 SSA 13.1
BDE 1.0943 BRA 4.1984 BC3 2.1877 FSP -2448 SG1 6202.4 SG2 360.8 THA 164.30 EL1 2190.6 EL2 208.9 ALF 167.28

LAUNCH DATE SEP 12 1965 FLIGHT TIME 208.00 ARRIVAL DATE APR 8 1966

HELIOCENTRIC CONIC DISTANCE 567.929

RL 150.55 LAL .00 LOL 349.03 VL 27.255 GAL 7.21 AZL 90.91 HCA 252.58 SMA 130.08 ECC .20029 INC .9078 V1 29.597
RP 108.46 LAP .87 LOP 241.60 VP 37.774 GAP 6.51 AZP 89.73 TAL 148.42 TAP 41.00 RCA 104.02 APO 156.13 V2 34.939
RC 103.862 GL -5.27 GP 25.95 ZAL 33.77 ZAP 139.82 ETS 31.61 ZAE 120.58 ETE 165.27 ZAC 13.92 ETC 232.30 CLP-148.18

PLANETOCENTRIC CONIC

C3 21.751 VHL 4.664 DLA -21.18 RAL 319.75 RAD 6567.9 VEL 11.964 PTH 2.13 VHP 5.316 DPA 1.55 RAP 274.48 ECC 1.3580

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 19 58	1505.55	1.59	.22	182.80	118.28	12 45 3	905.6	5.36	353.56
90.00	18 11 2	5607.51	28.15	262.73	190.45	93.17	19 44 29	5007.5	28.30	254.06
100.00	13 26 56	1289.41	.10	343.50	181.97	119.89	13 48 25	689.4	4.08	336.97
100.00	19 46 45	5298.88	29.85	240.10	190.53	91.58	21 15 4	4698.9	29.75	231.30
110.00	14 4 52	1170.50	-3.50	332.24	179.72	124.02	14 24 23	570.5	.99	326.03
110.00	21 25 18	4990.56	34.10	216.64	190.49	87.49	22 48 28	4390.6	33.38	207.48

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE 1.2122 TRA 4.2597 TC3-2.1138 BAU .6202 SGT 6132.2 SGR 1566.9 SG3 640.8 ST 2248.6 SR 473.8 SS 1461.7
RDE -.0843 RRA-1.1696 RC3 .2828 FAU .03888 RRT -.9703 RRF -.9638 RTF .9883 CRT -.8758 CRS .7978 CST -.9896
FDE 1.9759 FRA 5.2053 FC3-1.5476 BSP 19951 SGB 6329.2 R23 .0056 R13 -.9885 LSA 2706.9 MSA 300.2 SSA 13.2
BDE 1.2152 BRA 4.4174 BC3 2.1326 FSP -2296 SG1 6318.6 SG2 367.7 THA 166.03 EL1 2287.0 EL2 224.9 ALF 169.44

LAUNCH DATE SEP 12 1965 FLIGHT TIME 210.00 ARRIVAL DATE APR 10 1966

HELIOCENTRIC CONIC DISTANCE 573.888

RL 150.55 LAL .00 LOL 349.03 VL 27.239 GAL 7.49 AZL 90.70 HCA 255.76 SMA 129.97 ECC .20409 INC .7041 V1 29.597
RP 108.50 LAP .68 LOP 244.78 VP 37.752 GAP 6.98 AZP 89.83 TAL 147.78 TAP 43.54 RCA 103.44 APO 156.49 V2 34.926
RC 106.225 GL -3.98 GP 24.47 ZAL 33.06 ZAP 142.37 ETS 32.66 ZAE 119.78 ETE 166.57 ZAC 13.24 ETC 225.58 CLP-150.47

PLANETOCENTRIC CONIC

C3 22.888 VHL 4.784 DLA -19.78 RAL 319.90 RAD 6567.9 VEL 12.011 PTH 2.14 VHP 5.520 DPA .05 RAP 275.25 ECC 1.3767

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 4 7	1578.19	-.76	4.27	183.18	118.31	12 30 25	978.2	3.03	357.64
90.00	18 28 3	5559.56	28.28	259.22	191.02	91.42	20 0 42	4959.6	28.18	250.56
100.00	13 12 55	1356.16	-2.16	347.16	182.40	119.82	13 35 31	756.2	1.82	340.64
100.00	20 1 56	5256.83	29.89	236.98	191.04	89.94	21 29 33	4656.8	29.56	228.19
110.00	13 54 13	1226.75	-5.64	335.19	180.24	123.77	14 14 40	626.7	-1.16	328.97
110.00	21 37 7	4959.01	33.98	214.19	190.87	86.05	22 59 46	4359.0	33.06	205.07

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE 1.3362 TRA 4.5062 TC3-2.0557 BAU .6333 SGT 6270.8 SGR 1436.6 SG3 599.8 ST 2350.5 SR 430.3 SS 1441.0
RDE -.0560 RRA-1.1131 RC3 .2389 FAU .03496 RRT -.9638 RRF -.9561 RTF .9881 CRT -.8295 CRS .7496 CST -.9914
FDE 1.9445 FRA 5.0418 FC3-1.3222 BSP 20380 SGB 6433.2 R23 .0017 R13 -.9882 LSA 2774.4 MSA 297.9 SSA 13.3
BDE 1.3374 BRA 4.6417 BC3 2.0695 FSP -2159 SG1 6422.3 SG2 374.2 THA 167.51 EL1 2377.7 EL2 237.6 ALF 171.28

LAUNCH DATE SEP 12 1965 FLIGHT TIME 212.00 ARRIVAL DATE APR 12 1966

HELIOCENTRIC CONIC DISTANCE 579.806

RL 150.55 LAL .00 LOL 349.03 VL 27.222 GAL 7.80 AZL 90.51 HCA 258.94 SMA 129.85 ECC .20822 INC .5060 V1 29.597
RP 108.54 LAP .50 LOP 247.96 VP 37.729 GAP 7.46 AZP 89.90 TAL 147.11 TAP 46.05 RCA 102.82 APO 156.89 V2 34.914
RC 108.588 GL -2.78 GP 23.13 ZAL 32.39 ZAP 144.75 ETS 33.72 ZAE 119.03 ETE 167.68 ZAC 12.94 ETC 218.26 CLP-152.63

PLANETOCENTRIC CONIC

C3 24.188 VHL 4.918 DLA -18.47 RAL 320.08 RAD 6568.0 VEL 12.065 PTH 2.16 VHP 5.740 DPA -1.32 RAP 276.17 ECC 1.3981

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 50 34	1644.98	-2.91	7.99	183.79	118.18	12 17 59	1045.0	.88	1.36
90.00	18 43 3	5519.77	28.32	256.31	191.70	89.96	20 15 2	4919.8	28.01	247.66
100.00	13 0 48	1418.32	-4.26	350.59	183.04	119.62	13 24 27	818.3	-.29	344.05
100.00	20 15 29	5221.66	29.86	234.36	191.68	88.56	21 42 31	4621.7	29.34	225.60
110.00	13 44 52	1280.28	-7.66	338.02	180.95	123.42	14 6 12	680.3	-3.21	331.76
110.00	21 47 55	4932.47	33.84	212.13	191.41	84.84	23 10 8	4332.5	32.75	203.06

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE 1.4643 TRA 4.7589 TC3-1.9828 BAU .6445 SGT 6393.7 SGR 1321.9 SG3 560.7 ST 2447.1 SR 393.5 SS 1419.1
RDE -.0289 RRA-1.0638 RC3 .2011 FAU .03116 RRT -.9560 RRF -.9474 RTF .9878 CRT -.7739 CRS .6931 CST -.9928
FDE 1.9096 FRA 4.8822 FC3-1.1153 BSP 20776 SGB 6528.9 R23 -.0013 R13 -.9879 LSA 2840.7 MSA 295.5 SSA 13.3
BDE 1.4646 BRA 4.8764 BC3 1.9929 FSP -2024 SG1 6517.8 SG2 380.2 THA 168.78 EL1 2466.2 EL2 247.3 ALF 172.84

LAUNCH DATE SEP 12 1965 FLIGHT TIME 214.00 ARRIVAL DATE APR 14 1966

HELIOCENTRIC CONIC DISTANCE 585.681

RL 150.55 LAL .00 LOL 349.03 VL 27.205 GAL 8.14 AZL 90.31 HCA 262.12 SMA 129.74 ECC .21272 INC .3122 VI 29.597
RP 108.58 LAP .31 LOP 251.14 VP 37.706 GAP 7.96 AZP 89.96 TAL 146.43 TAP 48.54 RCA 102.14 APO 157.33 V2 34.903
RC 110.951 GL -1.66 GP 21.90 ZAL 31.75 ZAP 146.99 ETS 34.82 ZAE 118.32 ETE 168.63 ZAC 13.02 ETC 210.85 CLP-154.66

PLANETOCENTRIC CONIC

C3 25.666 VHL 5.066 DLA -17.23 RAL 320.29 RAD 6568.0 VEL 12.126 PTH 2.17 VHP 5.978 DPA -2.55 RAP 277.22 ECC 1.4224

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 38 49	1707.32	-4.90	11.49	184.60	117.92	12 7 16	1107.3	-1.13	4.84
90.00	18 56 29	5486.63	28.29	253.89	192.51	88.75	20 27 56	4886.6	27.82	245.26
100.00	12 50 13	1476.89	-6.22	353.83	183.87	119.30	13 14 50	876.9	-2.27	347.27
100.00	20 27 46	5192.29	29.79	232.18	192.45	87.42	21 54 18	4592.3	29.11	223.44
110.00	13 36 36	1331.57	-9.57	340.77	181.83	122.97	13 58 48	731.6	-5.16	334.45
110.00	21 57 52	4910.37	33.69	210.42	192.10	83.83	23 19 42	4310.4	32.47	201.40

DIFFERENTIAL CORRECTIONS
TDE 1.5975 TRA 5.0202 TC3-1.8966 BAU .6533
RDE -.0030 RRA-1.0208 RC3 .1687 FAU .02751
FDE 1.8736 FRA 4.7298 FC3 -.9279 BSP 21134
BDE 1.5975 BRA 5.1229 BC3 1.9041 FSP -1895

MID-COURSE EXECUTION ACCURACY
SGT 6503.3 SGR 1220.8 SG3 523.7
RRT -.9472 RRF -.9376 RTF .9875
SGB 6616.9 R23 -.0034 R13 -.9875
SG1 6605.7 SG2 385.4 THA 169.88

ORBIT DETERMINATION ACCURACY
ST 2539.2 SR 362.7 SS 1396.8
CRT -.7093 CRS .6288 CST -.9940
LSA 2905.9 MSA 292.9 SSA 13.3
EL1 2552.4 EL2 254.3 ALF 174.16

LAUNCH DATE SEP 12 1965 FLIGHT TIME 216.00 ARRIVAL DATE APR 16 1966

HELIOCENTRIC CONIC DISTANCE 591.507

RL 150.55 LAL .00 LOL 349.03 VL 27.188 GAL 8.50 AZL 90.12 HCA 265.29 SMA 129.61 ECC .21760 INC .1209 VI 29.597
RP 108.61 LAP .12 LOP 254.32 VP 37.682 GAP 8.46 AZP 89.99 TAL 145.73 TAP 51.02 RCA 101.41 APO 157.82 V2 34.892
RC 113.313 GL -.63 GP 20.79 ZAL 31.15 ZAP 149.08 ETS 35.98 ZAE 117.65 ETE 169.44 ZAC 13.46 ETC 203.83 CLP-156.58

PLANETOCENTRIC CONIC

C3 27.339 VHL 5.229 DLA -16.07 RAL 320.53 RAD 6568.1 VEL 12.195 PTH 2.19 VHP 6.232 DPA -3.66 RAP 278.39 ECC 1.4439

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 28 30	1766.16	-6.77	14.81	185.58	117.56	11 57 57	1166.2	-3.03	8.13
90.00	19 8 40	5459.12	28.23	251.88	193.44	87.74	20 39 40	4859.1	27.62	243.27
100.00	12 40 54	1532.58	-8.07	356.93	184.88	118.88	13 6 26	932.6	-4.15	350.33
100.00	20 38 58	5167.92	29.70	230.38	193.35	86.47	22 5 6	4567.9	28.90	221.66
110.00	13 29 17	1381.00	-11.39	343.44	182.88	122.45	13 52 18	781.0	-7.03	337.06
110.00	22 7 4	4892.27	33.55	209.03	192.94	83.02	23 28 37	4292.3	32.22	200.05

DIFFERENTIAL CORRECTIONS
TDE 1.7358 TRA 5.2901 TC3-1.8006 BAU .6601
RDE .0217 RRA -.9832 RC3 .1410 FAU .02405
FDE 1.8372 FRA 4.5847 FC3 -.7614 BSP 21465
BDE 1.7359 BRA 5.3807 BC3 1.8061 FSP -1771

MID-COURSE EXECUTION ACCURACY
SGT 6599.7 SGR 1131.2 SG3 488.9
RRT -.9372 RRF -.9267 RTF .9872
SGB 6696.0 R23 -.0051 R13 -.9872
SG1 6684.6 SG2 389.5 THA 170.84

ORBIT DETERMINATION ACCURACY
ST 2626.1 SR 337.2 SS 1374.3
CRT -.6366 CRS .5575 CST -.9951
LSA 2968.9 MSA 290.0 SSA 13.2
EL1 2635.0 EL2 259.2 ALF 175.28

LAUNCH DATE SEP 12 1965 FLIGHT TIME 218.00 ARRIVAL DATE APR 18 1966

HELIOCENTRIC CONIC DISTANCE 597.282

RL 150.55 LAL .00 LOL 349.03 VL 27.170 GAL 8.89 AZL 89.93 HCA 268.47 SMA 129.49 ECC .22290 INC .0652 VI 29.597
RP 108.64 LAP -.07 LOP 257.49 VP 37.659 GAP 8.99 AZP 90.00 TAL 145.01 TAP 53.48 RCA 100.63 APO 158.35 V2 34.881
RC 115.673 GL .33 GP 19.78 ZAL 30.57 ZAP 151.05 ETS 37.24 ZAE 117.03 ETE 170.13 ZAC 14.20 ETC 197.58 CLP-158.42

PLANETOCENTRIC CONIC

C3 29.231 VHL 5.407 DLA -14.98 RAL 320.78 RAD 6568.2 VEL 12.272 PTH 2.21 VHP 6.504 DPA -4.66 RAP 279.67 ECC 1.4811

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 19 25	1822.16	-8.52	17.99	186.71	117.11	11 49 47	1222.2	-4.82	11.26
90.00	19 19 50	5436.50	28.16	250.23	194.49	86.92	20 50 26	4836.5	27.44	241.64
100.00	12 32 38	1585.89	-9.80	359.94	186.03	118.38	12 59 4	985.9	-5.94	353.28
100.00	20 49 17	5148.00	29.61	228.90	194.38	85.70	22 15 5	4548.0	28.70	220.22
110.00	13 22 46	1428.85	-13.12	346.06	184.07	121.85	13 46 35	828.9	-8.82	339.61
110.00	22 15 38	4877.80	33.42	207.92	193.91	82.37	23 36 56	4277.8	32.01	198.97

DIFFERENTIAL CORRECTIONS
TDE 1.8822 TRA 5.5739 TC3-1.6927 BAU .6631
RDE .0450 RRA -.9509 RC3 .1167 FAU .02063
FDE 1.8035 FRA 4.4513 FC3 -.6110 BSP 21691
BDE 1.8828 BRA 5.6545 BC3 1.6968 FSP -1647

MID-COURSE EXECUTION ACCURACY
SGT 6687.4 SGR 1051.8 SG3 456.7
RRT -.9262 RRF -.9149 RTF .9869
SGB 6769.6 R23 -.0061 R13 -.9869
SG1 6758.2 SG2 392.5 THA 171.68

ORBIT DETERMINATION ACCURACY
ST 2710.6 SR 316.6 SS 1353.4
CRT -.5585 CRS .4820 CST -.9959
LSA 3032.6 MSA 286.6 SSA 13.2
EL1 2716.4 EL2 262.0 ALF 176.23

LAUNCH DATE SEP 12 1965 FLIGHT TIME 220.00 ARRIVAL DATE APR 20 1966

HELIOCENTRIC CONIC DISTANCE 602.999

RL 150.55 LAL .00 LOL 349.03 VL 27.151 GAL 9.31 AZL 89.75 HCA 271.64 SMA 129.36 ECC .22865 INC .2543 VI 29.597
RP 108.68 LAP -.25 LOP 260.66 VP 37.636 GAP 9.53 AZP 89.99 TAL 144.29 TAP 55.92 RCA 99.78 APO 158.94 V2 34.870
RC 118.029 GL 1.22 GP 18.86 ZAL 30.03 ZAP 152.89 ETS 38.62 ZAE 116.44 ETE 170.73 ZAC 15.20 ETC 192.23 CLP-160.16

PLANETOCENTRIC CONIC

C3 31.366 VHL 5.601 DLA -13.96 RAL 321.06 RAD 6568.2 VEL 12.359 PTH 2.23 VHP 6.795 DPA -5.56 RAP 281.04 ECC 1.5162

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 11 20	1875.81	-10.17	21.07	187.99	116.57	11 42 36	1275.8	-6.52	14.29
90.00	19 30 5	5418.22	28.09	248.90	195.65	86.25	21 0 24	4818.2	27.27	240.33
100.00	12 25 17	1637.20	-11.45	2.86	187.32	117.80	12 52 34	1037.2	-7.64	356.14
100.00	20 58 49	5132.06	29.52	227.72	195.53	85.09	22 24 21	4532.1	28.53	219.06
110.00	13 16 58	1475.35	-14.78	348.65	185.39	121.18	13 41 33	875.4	-10.54	342.11
110.00	22 23 38	4866.67	33.32	207.06	195.02	81.88	23 44 45	4266.7	31.84	198.15

DIFFERENTIAL CORRECTIONS
TDE 2.0311 TRA 5.8662 TC3-1.5839 BAU .6654
RDE .0681 RRA -.9218 RC3 .0970 FAU .01759
FDE 1.7671 FRA 4.3239 FC3 -.4856 BSP 21990
BDE 2.0323 BRA 5.9382 BC3 1.5869 FSP -1540

MID-COURSE EXECUTION ACCURACY
SGT 6760.9 SGR 980.3 SG3 426.3
RRT -.9140 RRF -.9020 RTF .9866
SGB 6831.6 R23 -.0069 R13 -.9866
SG1 6820.2 SG2 394.3 THA 172.43

ORBIT DETERMINATION ACCURACY
ST 2786.1 SR 299.7 SS 1330.8
CRT -.4745 CRS .4014 CST -.9966
LSA 3089.2 MSA 283.1 SSA 13.1
EL1 2789.8 EL2 263.5 ALF 177.05

LAUNCH DATE SEP 13 1965 FLIGHT TIME 70.00 ARRIVAL DATE NOV 22 1965

HELIOCENTRIC CONIC DISTANCE 124.672

RL	150.51	LAL	.00	LOL	350.00	VL	14.309	GAL	32.67	AZL	95.49	HCA	30.79	SMA	85.14	ECC	.84210	INC	5.4854	V1	29.604
RP	108.47	LAP	-2.80	LOP	20.68	VP	29.805	GAP	-55.89	AZP	94.72	TAL	172.80	TAP	203.60	RCA	13.44	APO	156.83	V2	34.938
RC	92.990	GL	-3.39	GP	-3.61	ZAL	65.12	ZAP	37.01	ETS	171.98	ZAE	130.91	ETE	177.84	ZAC	32.92	ETC	30.19	CLP	36.86

PLANETOCENTRIC CONIC

C3 378.444 VHL 19.454 DLA -25.98 RAL 286.62 RAD 6572.0 VEL 22.355 PTH 3.25 VHP 30.626 DPA -22.01 RAP 234.42 ECC 7.2282

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 18 37	1823.69	-8.57	18.08	187.59	117.09	11 49 1	1223.7	-4.87	11.35
90.00	14 40 10	1160.96	12.35	340.62	197.90	115.68	14 59 31	561.0	15.71	333.55
100.00	12 12 56	1648.31	-11.80	3.49	185.89	117.66	12 40 24	1048.3	-8.01	356.76
100.00	16 28 32	811.57	15.63	316.54	199.53	115.81	16 42 4	211.6	18.98	309.35
110.00	12 32 51	1585.80	-18.56	354.97	182.10	119.23	12 59 17	985.8	-14.53	348.18
110.00	18 25 6	5734.89	22.54	270.33	203.10	116.41	20 0 41	5134.9	25.90	262.78

DIFFERENTIAL CORRECTIONS

TDE	-.3281	TRA	-2.1071	TC3	-.1083	BAU	.5483	SGT	814.5	SGR	463.3	SG3	22.6	ST	228.9	SR	454.2	SS	205.6
RDE	-1.5391	RRA	.2862	RC3	.0047	FAU	.01077	RRT	-.0759	RRF	.0714	RTF	-.6071	CRT	.3652	CRS	.2908	CST	.9926
FDE	.0922	FRA	.7400	FC3	-.0246	BSP	1915	SGB	937.0	R23	-.0036	R13	.6076	LSA	472.3	MSA	278.6	SSA	14.2
BDE	1.5737	BRA	2.1264	BC3	.1084	FSP	-45	SG1	815.6	SG2	461.3	THA	176.36	EL1	463.8	EL2	208.6	ALF	76.87

LAUNCH DATE SEP 13 1965 FLIGHT TIME 72.00 ARRIVAL DATE NOV 24 1965

HELIOCENTRIC CONIC DISTANCE 129.884

RL	150.51	LAL	.00	LOL	350.00	VL	15.134	GAL	31.07	AZL	94.83	HCA	33.97	SMA	86.49	ECC	.81753	INC	4.8266	V1	29.604
RP	108.43	LAP	-2.69	LOP	23.87	VP	30.224	GAP	-53.46	AZP	94.01	TAL	171.93	TAP	205.89	RCA	15.78	APO	157.19	V2	34.951
RC	90.741	GL	-3.35	GP	-3.69	ZAL	63.68	ZAP	35.50	ETS	171.56	ZAE	130.66	ETE	178.06	ZAC	31.59	ETC	31.86	CLP	35.34

PLANETOCENTRIC CONIC

C3 347.926 VHL 18.653 DLA -25.77 RAL 288.20 RAD 6571.9 VEL 21.662 PTH 3.22 VHP 29.551 DPA -22.55 RAP 236.12 ECC 6.7260

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 20 29	1830.00	-8.76	18.44	188.45	117.03	11 50 59	1230.0	-5.07	11.71
90.00	14 50 56	1137.08	13.05	339.22	199.09	115.35	15 9 53	537.1	16.36	332.10
100.00	12 15 51	1651.18	-11.89	3.66	186.80	117.63	12 43 23	1051.2	-8.10	356.92
100.00	16 38 15	791.13	16.24	315.32	200.65	115.45	16 51 26	191.1	19.53	308.08
110.00	12 36 58	1584.94	-18.54	354.92	183.08	119.25	13 3 23	984.9	-14.50	348.13
110.00	18 33 37	5718.17	23.04	269.29	204.13	115.98	20 8 56	5118.2	26.34	261.68

DIFFERENTIAL CORRECTIONS

TDE	-.3534	TRA	-2.1271	TC3	-.1160	BAU	.5399	SGT	851.6	SGR	469.9	SG3	24.4	ST	243.6	SR	459.1	SS	217.6
RDE	-1.4912	RRA	.3029	RC3	.0047	FAU	.01075	RRT	-.0821	RRF	.0776	RTF	-.6259	CRT	.3843	CRS	.3216	CST	.9938
FDE	.1067	FRA	.7683	FC3	-.0268	BSP	2039	SGB	972.7	R23	-.0040	R13	.6265	LSA	483.1	MSA	289.6	SSA	14.4
BDE	1.5326	BRA	2.1485	BC3	.1161	FSP	-50	SG1	852.9	SG2	467.6	THA	176.29	EL1	471.3	EL2	219.0	ALF	75.21

LAUNCH DATE SEP 13 1965 FLIGHT TIME 74.00 ARRIVAL DATE NOV 26 1965

HELIOCENTRIC CONIC DISTANCE 135.232

RL	150.51	LAL	.00	LOL	350.00	VL	15.912	GAL	29.60	AZL	94.27	HCA	37.14	SMA	87.87	ECC	.79257	INC	4.2676	V1	29.604
RP	108.39	LAP	-2.58	LOP	27.06	VP	30.636	GAP	-51.16	AZP	93.40	TAL	171.05	TAP	208.19	RCA	18.23	APO	157.51	V2	34.964
RC	88.499	GL	-3.30	GP	-3.78	ZAL	62.29	ZAP	34.02	ETS	171.11	ZAE	130.47	ETE	178.30	ZAC	30.28	ETC	33.72	CLP	33.84

PLANETOCENTRIC CONIC

C3 320.040 VHL 17.890 DLA -25.53 RAL 289.73 RAD 6571.8 VEL 21.008 PTH 3.19 VHP 28.514 DPA -23.10 RAP 237.86 ECC 6.2670

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 21 53	1836.65	-8.97	18.82	189.21	116.97	11 52 30	1236.7	-5.28	12.08
90.00	15 1 43	1111.88	13.78	337.73	200.20	114.98	15 20 14	511.9	17.04	330.56
100.00	12 18 19	1654.41	-11.99	3.84	187.62	117.59	12 45 54	1054.4	-8.21	357.10
100.00	16 47 57	769.35	16.87	314.02	201.69	115.05	17 0 47	169.4	20.10	306.72
110.00	12 40 40	1584.29	-18.51	354.88	183.97	119.26	13 7 5	984.3	-14.47	348.09
110.00	18 42 6	5700.28	23.57	268.17	205.06	115.50	20 17 6	5100.3	26.80	260.50

DIFFERENTIAL CORRECTIONS

TDE	-.3782	TRA	-2.1482	TC3	-.1240	BAU	.5308	SGT	890.4	SGR	476.0	SG3	26.3	ST	259.2	SR	463.3	SS	230.3
RDE	-1.4428	RRA	.3182	RC3	.0047	FAU	.01075	RRT	-.0886	RRF	.0842	RTF	-.6441	CRT	.4015	CRS	.3499	CST	.9948
FDE	.1218	FRA	.7971	FC3	-.0291	BSP	2166	SGB	1009.6	R23	-.0047	R13	.6447	LSA	494.4	MSA	300.3	SSA	14.6
BDE	1.4916	BRA	2.1716	BC3	.1241	FSP	-54	SG1	891.8	SG2	473.4	THA	176.22	EL1	478.6	EL2	229.8	ALF	73.41

LAUNCH DATE SEP 13 1965 FLIGHT TIME 76.00 ARRIVAL DATE NOV 28 1965

HELIOCENTRIC CONIC DISTANCE 140.707

RL	150.51	LAL	.00	LOL	350.00	VL	16.645	GAL	28.24	AZL	93.78	HCA	40.32	SMA	89.28	ECC	.76741	INC	3.7846	V1	29.604
RP	108.35	LAP	-2.45	LOP	30.26	VP	31.038	GAP	-48.98	AZP	92.89	TAL	170.17	TAP	210.49	RCA	20.77	APO	157.80	V2	34.977
RC	86.263	GL	-3.23	GP	-3.88	ZAL	60.94	ZAP	32.57	ETS	170.61	ZAE	130.34	ETE	178.56	ZAC	28.98	ETC	35.80	CLP	32.36

PLANETOCENTRIC CONIC

C3 294.520 VHL 17.162 DLA -25.28 RAL 291.20 RAD 6571.7 VEL 20.392 PTH 3.16 VHP 27.510 DPA -23.64 RAP 239.63 ECC 5.8470

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 22 52	1843.49	-9.18	19.21	189.88	116.90	11 53 36	1243.5	-5.50	12.46
90.00	15 12 26	1085.47	14.54	336.15	201.20	114.57	15 30 32	485.5	17.73	328.94
100.00	12 20 21	1657.89	-12.10	4.04	188.35	117.54	12 47 59	1057.9	-8.32	357.30
100.00	16 57 38	746.31	17.53	312.62	202.63	114.61	17 10 5	146.3	20.70	305.27
110.00	12 43 59	1583.78	-18.50	354.85	184.76	119.27	13 10 22	983.8	-14.46	348.07
110.00	18 50 30	5681.23	24.12	266.97	205.88	114.99	20 25 12	5081.2	27.28	259.23

DIFFERENTIAL CORRECTIONS

TDE	-.4019	TRA	-2.1701	TC3	-.1322	BAU	.5209	SGT	930.6	SGR	481.5	SG3	28.3	ST	275.6	SR	466.9	SS	243.5
RDE	-1.3940	RRA	.3321	RC3	.0045	FAU	.01075	RRT	-.0957	RRF	.0914	RTF	-.6618	CRT	.4165	CRS	.3758	CST	.9957
FDE	.1374	FRA	.8266	FC3	-.0316	BSP	2303	SGB	1047.8	R23	-.0053	R13	.6624	LSA	506.5	MSA	310.6	SSA	14.9
BDE	1.4508	BRA	2.1954	BC3	.1323	FSP	-59	SG1	932.1	SG2	478.5	THA	176.15	EL1	485.7	EL2	240.8	ALF	71.47

LAUNCH DATE SEP 13 1965 FLIGHT TIME 78.00 ARRIVAL DATE NOV 30 1965

HELIOCENTRIC CONIC DISTANCE 146.302

RL	150.51	LAL	.00	LOL	350.00	VL	17.336	GAL	26.98	AZL	93.36	HCA	43.51	SMA	90.71	ECC	.74221	INC	3.3607
RP	108.31	LAP	-2.31	LOP	33.46	VP	31.428	GAP	-46.91	AZP	92.44	TAL	169.30	TAP	212.81	RCA	23.39	APO	158.04
RC	84.036	GL	-3.15	GP	-3.98	ZAL	59.63	ZAP	31.14	ETS	170.06	ZAE	130.27	ETE	178.86	ZAC	27.73	ETC	38.12

V1	29.604																		
V2	34.990																		
CLP	30.91																		

PLANETOCENTRIC CONIC

C3	271.133	VHL	16.466	DLA	-25.01	RAL	292.61	RAD	6571.6	VEL	19.810	PTH	3.13	VHP	26.539	DPA	-24.18	RAP	241.44
ECC	5.4622																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 23 29	1850.41	-9.39	19.61	190.45	116.84	11 54 19	1250.4	-5.72	12.85
90.00	15 23 6	1057.95	15.31	334.50	202.11	114.11	15 40 44	457.9	18.44	327.22
100.00	12 21 59	1661.53	-12.22	4.25	188.98	117.49	12 49 40	1061.5	-8.44	357.50
100.00	17 7 17	722.06	18.21	311.14	203.46	114.12	17 19 19	122.1	21.31	303.73
110.00	12 46 54	1583.35	-18.48	354.82	185.47	119.28	13 13 17	983.3	-14.44	348.04
110.00	18 58 51	5661.05	24.70	265.68	206.60	114.42	20 33 12	5061.0	27.78	257.87

DIFFERENTIAL CORRECTIONS

TDE	-.4250	TRA	-2.1928	TC3	-.1408	BAU	.5106												
RDE	-1.3449	RRA	.3448	RC3	.0043	FAU	.01077												
FDE	.1534	FRA	.8567	FC3	-.0344	BSP	2444												
BDE	1.4104	BRA	2.2197	BC3	.1408	FSP	-65												

MID-COURSE EXECUTION ACCURACY

SGT	972.5	SGR	486.5	SG3	30.4														
RRT	-.1032	RRF	.0990	RTF	-.6789														
SGB	1087.4	R23	-.0061	R13	.6795														
SG1	974.2	SG2	483.1	THA	176.08														

ORBIT DETERMINATION ACCURACY

ST	293.0	SR	469.6	SS	257.4														
CRT	.4299	CRS	.3996	CST	.9964														
LSA	519.5	MSA	320.2	SSA	15.1														
EL1	492.8	EL2	252.1	ALF	69.35														

LAUNCH DATE SEP 13 1965 FLIGHT TIME 80.00 ARRIVAL DATE DEC 2 1965

HELIOCENTRIC CONIC DISTANCE 152.011

RL	150.51	LAL	.00	LOL	350.00	VL	17.988	GAL	25.79	AZL	92.98	HCA	46.70	SMA	92.16	ECC	.71709	INC	2.9835
RP	108.27	LAP	-2.17	LOP	36.65	VP	31.807	GAP	-44.94	AZP	92.05	TAL	168.44	TAP	215.13	RCA	26.07	APO	158.25
RC	81.818	GL	-3.06	GP	-4.10	ZAL	58.37	ZAP	29.73	ETS	169.45	ZAE	130.26	ETE	179.18	ZAC	26.51	ETC	40.72

V1	29.604																		
V2	35.003																		
CLP	29.47																		

PLANETOCENTRIC CONIC

C3	249.676	VHL	15.801	DLA	-24.72	RAL	293.96	RAD	6571.5	VEL	19.261	PTH	3.09	VHP	25.599	DPA	-24.71	RAP	243.29
ECC	5.1090																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 23 44	1857.30	-9.61	20.00	190.94	116.77	11 54 41	1257.3	-5.94	13.24
90.00	15 33 39	1029.37	16.10	332.77	202.91	113.61	15 50 48	429.4	19.16	325.43
100.00	12 23 13	1665.24	-12.34	4.47	189.52	117.45	12 50 59	1065.2	-8.56	357.71
100.00	17 16 51	696.66	18.91	309.58	204.19	113.59	17 28 27	96.7	21.94	302.10
110.00	12 49 27	1582.95	-18.47	354.80	186.09	119.29	13 15 50	983.0	-14.43	348.02
110.00	19 7 6	5639.75	25.29	264.31	207.21	113.80	20 41 6	5039.7	28.28	256.41

DIFFERENTIAL CORRECTIONS

TDE	-.4462	TRA	-2.2151	TC3	-.1495	BAU	.4990												
RDE	-1.2955	RRA	.3562	RC3	.0039	FAU	.01080												
FDE	.1699	FRA	.8874	FC3	-.0374	BSP	2614												
BDE	1.3702	BRA	2.2436	BC3	.1495	FSP	-71												

MID-COURSE EXECUTION ACCURACY

SGT	1015.4	SGR	491.0	SG3	32.7														
RRT	-.1115	RRF	.1074	RTF	-.6954														
SGB	1127.9	R23	-.0067	R13	.6960														
SG1	1017.3	SG2	487.0	THA	175.99														

ORBIT DETERMINATION ACCURACY

ST	311.0	SR	471.7	SS	271.8														
CRT	.4409	CRS	.4210	CST	.9970														
LSA	533.5	MSA	329.0	SSA	15.3														
EL1	499.8	EL2	263.5	ALF	67.09														

LAUNCH DATE SEP 13 1965 FLIGHT TIME 82.00 ARRIVAL DATE DEC 4 1965

HELIOCENTRIC CONIC DISTANCE 157.827

RL	150.51	LAL	.00	LOL	350.00	VL	18.602	GAL	24.68	AZL	92.64	HCA	49.89	SMA	93.62	ECC	.69218	INC	2.6436
RP	108.22	LAP	-2.02	LOP	39.86	VP	32.173	GAP	-43.06	AZP	91.70	TAL	167.58	TAP	217.47	RCA	28.82	APO	158.43
RC	79.613	GL	-2.95	GP	-4.22	ZAL	57.15	ZAP	28.34	ETS	168.78	ZAE	130.32	ETE	179.54	ZAC	25.35	ETC	43.62

V1	29.604																		
V2	35.016																		
CLP	28.05																		

PLANETOCENTRIC CONIC

C3	229.975	VHL	15.165	DLA	-24.40	RAL	295.26	RAD	6571.3	VEL	18.743	PTH	3.06	VHP	24.687	DPA	-25.25	RAP	245.17
ECC	4.7848																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 23 39	1864.11	-9.81	20.39	191.34	116.70	11 54 43	1264.1	-6.15	13.63
90.00	15 44 6	999.76	16.90	330.97	203.59	113.07	16 0 45	399.8	19.88	323.56
100.00	12 24 6	1668.97	-12.45	4.68	189.97	117.40	12 51 55	1069.0	-8.68	357.92
100.00	17 26 20	670.13	19.62	307.94	204.81	113.01	17 37 30	70.1	22.57	300.38
110.00	12 51 39	1582.56	-18.46	354.78	186.61	119.30	13 18 1	982.6	-14.41	348.00
110.00	19 15 16	5617.34	25.90	262.85	207.71	113.13	20 48 54	5017.3	28.80	254.87

DIFFERENTIAL CORRECTIONS

TDE	-.4705	TRA	-2.2418	TC3	-.1590	BAU	.4891												
RDE	-1.2459	RRA	.3665	RC3	.0035	FAU	.01082												
FDE	.1873	FRA	.9195	FC3	-.0407	BSP	2695												
BDE	1.3318	BRA	2.2716	BC3	.1591	FSP	-77												

MID-COURSE EXECUTION ACCURACY

SGT	1062.7	SGR	494.8	SG3	35.2														
RRT	-.1195	RRF	.1161	RTF	-.7112														
SGB	1172.3	R23	-.0082	R13	.7119														
SG1	1064.8	SG2	490.3	THA	175.96														

ORBIT DETERMINATION ACCURACY

ST	331.2	SR	472.9	SS	287.1														
CRT	.4530	CRS	.4413	CST	.9974														
LSA	549.5	MSA	337.0	SSA	15.5														
EL1	507.6	EL2	275.1	ALF	64.39														

LAUNCH DATE SEP 13 1965 FLIGHT TIME 84.00 ARRIVAL DATE DEC 6 1965

HELIOCENTRIC CONIC DISTANCE 163.743

RL	150.51	LAL	.00	LOL	350.00	VL	19.180	GAL	23.62	AZL	92.33	HCA	53.08	SMA	95.09	ECC	.66757	INC	2.3341
RP	108.18	LAP	-1.87	LOP	43.06	VP	32.525	GAP	-41.26	AZP	91.40	TAL	166.74	TAP	219.82	RCA	31.61	APO	158.57
RC	77.423	GL	-2.82	GP	-4.35	ZAL	55.97	ZAP	26.98	ETS	168.02	ZAE	130.45	ETE	179.94	ZAC	24.26	ETC	46.86

V1	29.604																		
V2	35.030																		
CLP	26.65																		

PLANETOCENTRIC CONIC

C3	211.868	VHL	14.556	DLA	-24.07	RAL	296.50	RAD	6571.2	VEL	18.253	PTH	3.03	VHP	23.803	DPA	-25.77	RAP	247.08
ECC	4.4868																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 23 15	1870.78	-10.02	20.78	191.65	116.62	11 54 25	1270.8	-6.36	14.00
90.00	15 54 24	969.16	17.70	329.08	204.17	112.47	16 10 33	369.2	20.60	321.60
100.00	12 24 37	1672.68	-12.57	4.90	190.33	117.35	12 52 29	1072.7	-8.81	358.13
100.00	17 35 43	642.50	20.35	306.20	205.32	112.38	17 46 26	42.5	23.21	298.57
110.00	12 53 29	1582.14	-18.44	354.75	187.04	119.30	13 19 51	982.1	-14.40	347.97
110.00	19 23 21	5593.84	26.52	261.31	208.09	112.41	20 56 34	4993.8	29.31	253.24

DIFFERENTIAL CORRECTIONS

TDE	-.4940	TRA	-2.2687	TC3	-.1690	BAU	.4786												
RDE	-1.1962	RRA	.3757	RC3	.0028	FAU	.01086												
FDE	.2053	FRA	.9524	FC3	-.0444	BSP	2784												
BDE	1.2942	BRA	2.2996	BC3	.1690	FSP	-83												

MID-COURSE EXECUTION ACCURACY

SGT	1112.0	SGR	498.0	SG3	37.8														
RRT	-.1280	RRF	.1256	RTF	-.7264														
SGB	1218.4	R23	-.0099	R13	.7271														
SG1	1114.2	SG2	492.9	THA	175.92														

ORBIT DETERMINATION ACCURACY

ST	352.3	SR	473.4	SS	303.1														
CRT	.4635	CRS	.4597	CST	.9977														
LSA	567.1	MSA	343.8	SSA	15.7														
EL1	515.9	EL2	286.5	ALF	61.44														

LAUNCH DATE SEP 13 1965 FLIGHT TIME 86.00 ARRIVAL DATE DEC 8 1965

HELIOCENTRIC CONIC DISTANCE 169.758

RL	150.51	LAL	.00	LOL	350.00	VL	19.726	GAL	22.62	AZL	92.05	HCA	56.28	SMA	96.56	ECC	.64337	INC	2.0493	V1	29.604
RP	108.14	LAP	-1.70	LOP	46.26	VP	32.864	GAP	-39.55	AZP	91.14	TAL	165.91	TAP	222.19	RCA	34.44	APO	158.68	V2	35.043
RC	75.249	GL	-2.67	GP	-4.50	ZAL	54.83	ZAP	25.64	ETS	167.17	ZAE	130.64	ETE	180.38	ZAC	23.26	ETC	50.44	CLP	25.27

PLANETOCENTRIC CONIC

C3 195.240 VHL 13.973 DLA -23.72 RAL 297.69 RAD 6571.1 VEL 17.792 PTH 2.99 VHP 22.947 DPA -26.29 RAP 249.03 ECC 4.2132

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 22 32	1877.33	-10.22	21.16	191.88	116.55	11 53 49	1277.3	-6.57	14.37
90.00	16 4 36	937.57	18.51	327.12	204.63	111.82	16 20 14	337.6	21.31	319.56
100.00	12 24 47	1676.37	-12.68	5.11	190.60	117.30	12 52 43	1076.4	-8.93	358.34
100.00	17 45 2	613.76	21.08	304.39	205.72	111.70	17 55 16	13.8	23.84	296.68
110.00	12 54 58	1581.71	-18.43	354.73	187.39	119.31	13 21 20	981.7	-14.38	347.95
110.00	19 31 20	5569.23	27.15	259.67	208.35	111.62	21 4 9	4969.2	29.83	251.51

DIFFERENTIAL CORRECTIONS																	
TDE	-.5646	TRA	-2.3440	TC3	-.1890	BAU	.4934										
RDE	-1.1456	RRA	.3850	RC3	.0022	FAU	.01063										
FDE	.2301	FRA	.9926	FC3	-.0471	BSP	1727										
BDE	1.2772	BRA	2.3754	BC3	.1890	FSP	-77										

MID-COURSE EXECUTION ACCURACY											
SGT	1197.8	SGR	500.4	SG3	40.9						
RRT	-.1261	RRF	.1330	RTF	-.7392						
SGB	1298.2	R23	-.0208	R13	.7400						
SG1	1199.8	SG2	495.6	THA	176.36						

ORBIT DETERMINATION ACCURACY											
ST	391.2	SR	472.6	SS	324.0						
CRT	.5001	CRS	.4846	CST	.9977						
LSA	600.3	MSA	347.5	SSA	16.2						
EL1	535.8	EL2	298.8	ALF	55.41						

LAUNCH DATE SEP 13 1965 FLIGHT TIME 88.00 ARRIVAL DATE DEC 10 1965

HELIOCENTRIC CONIC DISTANCE 175.849

RL	150.51	LAL	.00	LOL	350.00	VL	20.239	GAL	21.66	AZL	91.78	HCA	59.48	SMA	98.02	ECC	.61958	INC	1.7848	V1	29.604
RP	108.10	LAP	-1.54	LOP	49.47	VP	33.188	GAP	-37.90	AZP	90.91	TAL	165.10	TAP	224.58	RCA	37.29	APO	158.76	V2	35.056
RC	73.094	GL	-2.50	GP	-4.66	ZAL	53.75	ZAP	24.32	ETS	166.21	ZAE	130.91	ETE	180.87	ZAC	22.36	ETC	54.40	CLP	23.90

PLANETOCENTRIC CONIC

C3 179.877 VHL 13.412 DLA -23.35 RAL 298.82 RAD 6570.9 VEL 17.355 PTH 2.95 VHP 22.113 DPA -26.80 RAP 251.00 ECC 3.9603

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 21 30	1883.57	-10.41	21.52	192.01	116.48	11 52 54	1283.6	-6.77	14.73
90.00	16 14 36	905.02	19.32	325.07	204.95	111.11	16 29 41	305.0	22.02	317.44
100.00	12 24 37	1679.87	-12.79	5.31	190.77	117.25	12 52 37	1079.9	-9.04	358.53
100.00	17 54 11	5872.00	21.82	280.39	205.98	110.95	19 32 3	5272.0	24.47	272.59
110.00	12 56 6	1581.11	-18.41	354.69	187.64	119.32	13 22 27	981.1	-14.36	347.92
110.00	19 39 11	5543.52	27.78	257.94	208.48	110.77	21 11 34	4943.5	30.34	249.68

DIFFERENTIAL CORRECTIONS																	
TDE	-.4961	TRA	-2.2804	TC3	-.1804	BAU	.4338										
RDE	-1.0980	RRA	.3900	RC3	.0008	FAU	.01125										
FDE	.2374	FRA	1.0160	FC3	-.0541	BSP	3982										
BDE	1.2049	BRA	2.3135	BC3	.1604	FSP	-109										

MID-COURSE EXECUTION ACCURACY											
SGT	1185.4	SGR	502.9	SG3	43.6						
RRT	-.1579	RRF	.1493	RTF	-.7568						
SGB	1287.7	R23	-.0046	R13	.7574						
SG1	1188.6	SG2	495.3	THA	175.36						

ORBIT DETERMINATION ACCURACY											
ST	382.7	SR	472.2	SS	333.3						
CRT	.4542	CRS	.4839	CST	.9975						
LSA	594.4	MSA	356.3	SSA	15.8						
EL1	524.7	EL2	306.9	ALF	57.49						

LAUNCH DATE SEP 13 1965 FLIGHT TIME 90.00 ARRIVAL DATE DEC 12 1965

HELIOCENTRIC CONIC DISTANCE 182.032

RL	150.51	LAL	.00	LOL	350.00	VL	20.723	GAL	20.75	AZL	91.54	HCA	62.69	SMA	99.48	ECC	.59635	INC	1.5368	V1	29.604
RP	108.06	LAP	-1.37	LOP	52.68	VP	33.500	GAP	-36.32	AZP	90.71	TAL	164.30	TAP	226.99	RCA	40.15	APO	158.80	V2	35.069
RC	70.962	GL	-2.31	GP	-4.83	ZAL	52.70	ZAP	23.02	ETS	165.12	ZAE	131.25	ETE	181.40	ZAC	21.59	ETC	58.73	CLP	22.54

PLANETOCENTRIC CONIC

C3 165.786 VHL 12.876 DLA -22.96 RAL 299.89 RAD 6570.8 VEL 16.944 PTH 2.92 VHP 21.305 DPA -27.31 RAP 253.00 ECC 3.7284

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 20 10	1889.76	-10.59	21.87	192.06	116.41	11 51 40	1289.8	-6.96	15.08
90.00	16 24 31	871.45	20.13	322.94	205.17	110.34	16 39 2	271.5	22.72	315.23
100.00	12 24 6	1683.40	-12.90	5.52	190.86	117.20	12 52 9	1083.4	-9.16	358.73
100.00	18 3 16	5841.09	22.56	278.39	206.13	110.15	19 40 37	5241.1	25.10	270.51
110.00	12 56 54	1580.56	-18.39	354.66	187.80	119.34	13 23 15	980.6	-14.34	347.89
110.00	19 46 57	5516.69	28.41	256.11	208.49	109.86	21 18 54	4916.7	30.85	247.76

DIFFERENTIAL CORRECTIONS																	
TDE	-.5312	TRA	-2.3214	TC3	-.1938	BAU	.4297										
RDE	-1.0483	RRA	.3966	RC3	-.0004	FAU	.01125										
FDE	.2591	FRA	1.0542	FC3	-.0588	BSP	3744										
BDE	1.1752	BRA	2.3550	BC3	.1939	FSP	-113										

MID-COURSE EXECUTION ACCURACY											
SGT	1250.5	SGR	504.3	SG3	47.0						
RRT	-.1652	RRF	.1606	RTF	-.7695						
SGB	1348.4	R23	-.0098	R13	.7701						
SG1	1253.8	SG2	496.1	THA	175.48						

ORBIT DETERMINATION ACCURACY											
ST	411.6	SR	470.0	SS	352.5						
CRT	.4700	CRS	.4999	CST	.9976						
LSA	620.7	MSA	359.2	SSA	16.0						
EL1	538.2	EL2	317.3	ALF	52.92						

LAUNCH DATE SEP 13 1965 FLIGHT TIME 92.00 ARRIVAL DATE DEC 14 1965

HELIOCENTRIC CONIC DISTANCE 188.290

RL	150.51	LAL	.00	LOL	350.00	VL	21.179	GAL	19.88	AZL	91.30	HCA	65.89	SMA	100.92	ECC	.57368	INC	1.3028	V1	29.604
RP	108.02	LAP	-1.19	LOP	55.89	VP	33.797	GAP	-34.80	AZP	90.53	TAL	163.53	TAP	229.42	RCA	43.03	APO	158.82	V2	35.082
RC	68.856	GL	-2.10	GP	-5.02	ZAL	51.69	ZAP	21.75	ETS	163.87	ZAE	131.67	ETE	182.00	ZAC	20.96	ETC	63.40	CLP	21.19

PLANETOCENTRIC CONIC

C3 152.808 VHL 12.362 DLA -22.55 RAL 300.91 RAD 6570.7 VEL 16.557 PTH 2.88 VHP 20.521 DPA -27.81 RAP 255.03 ECC 3.5148

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 18 31	1895.80	-10.78	22.22	192.02	116.34	11 50 7	1295.8	-7.15	15.42
90.00	16 34 17	836.87	20.94	320.73	205.25	109.51	16 48 14	236.9	23.41	312.92
100.00	12 23 15	1686.87	-13.01	5.72	190.87	117.15	12 51 22	1086.9	-9.27	358.93
100.00	18 12 14	5809.07	23.29	276.29	206.15	109.28	19 49 3	5209.1	25.71	268.33
110.00	12 57 21	1579.97	-18.37	354.63	187.88	119.35	13 23 41	980.0	-14.32	347.85
110.00	19 54 38	5488.73	29.04	254.18	208.36	108.87	21 26 6	4888.7	31.34	245.73

DIFFERENTIAL CORRECTIONS																	
TDE	-.5487	TRA	-2.3455	TC3	-.2038	BAU	.4163										
RDE	-.9993	RRA	.4020	RC3	-.0020	FAU	.01138										
FDE	.2792	FRA	1.0916	FC3	-.0645	BSP	3906										
BDE	1.1401	BRA	2.3797	BC3	.2038	FSP	-123										

MID-COURSE EXECUTION ACCURACY											
SGT	1305.4	SGR	505.3	SG3	50.5						
RRT	-.1777	RRF	.1739	RTF	-.7823						
SGB	1399.8	R23	-.0116	R13	.7830						
SG1	1309.0	SG2	495.8	THA	175.41						

ORBIT DETERMINATION ACCURACY											
ST	435.5	SR	467.1	SS	371.0						
CRT	.4740	CRS	.5114	CST	.9974						
LSA	643.6	MSA	361.9	SSA	16.2						
EL1	549.0	EL2	326.2	ALF	49.22						

LAUNCH DATE SEP 13 1965 FLIGHT TIME 94.00 ARRIVAL DATE DEC 16 1965

HELIOCENTRIC CONIC DISTANCE 194.620

RL 150.51 LAL .00 LOL 350.00 VL 21.609 GAL 19.05 AZL 91.08 HCA 69.10 SMA 102.35 ECC .55163 INC 1.0800 VI 29.604
RP 107.98 LAP -1.01 LOP 59.10 VP 34.081 GAP -33.35 AZP 90.39 TAL 162.77 TAP 231.88 RCA 45.89 APO 158.82 V2 35.095
RC 66.778 GL -1.86 GP -5.23 ZAL 50.72 ZAP 20.50 ETS 162.43 ZAE 132.17 ETE 182.67 ZAC 20.49 ETC 68.39 CLP 19.85

PLANETOCENTRIC CONIC

C3 140.861 VHL 11.868 DLA -22.12 RAL 301.87 RAD 6570.5 VEL 16.192 PTH 2.84 VHP 19.760 DPA -28.30 RAP 257.09 ECC 3.3182

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 16 32	1901.75	-10.96	22.57	191.89	116.27	11 48 14	1301.7	-7.34	15.76
90.00	16 43 56	801.24	21.73	318.41	205.21	108.62	16 57 17	201.2	24.07	310.53
100.00	12 22 3	1690.33	-13.12	5.92	190.78	117.10	12 50 13	1090.3	-9.38	359.12
100.00	18 21 6	5775.93	24.02	274.10	206.04	108.35	19 57 22	5175.9	26.30	266.04
110.00	12 57 26	1579.39	-18.35	354.59	187.86	119.36	13 23 45	979.4	-14.30	347.82
110.00	20 2 12	5459.63	29.67	252.14	208.11	107.82	21 33 12	4859.6	31.81	243.59

DIFFERENTIAL CORRECTIONS
TDE -.5658 TRA-2.3695 TC3 -.2139 BAU .4029
RDE -.9506 RRA .4067 RC3 -.0039 FAU .01152
FDE .3001 FRA 1.1305 FC3 -.0708 BSP 4063
BDE 1.1062 BRA 2.4041 BC3 .2139 FSP -133

MID-COURSE EXECUTION ACCURACY
SGT 1362.7 SGR 505.6 SG3 54.4
RRT -.1911 RRF .1883 RTF -.7945
SGB 1453.5 R23 -.0137 R13 .7953
SG1 1366.7 SG2 494.8 THA 175.33

ORBIT DETERMINATION ACCURACY
ST 460.5 SR 463.3 SS 390.3
CRT .4771 CRS .5217 CST .9972
LSA 668.4 MSA 363.4 SSA 16.3
EL1 561.4 EL2 334.0 ALF 45.37

LAUNCH DATE SEP 13 1965 FLIGHT TIME 96.00 ARRIVAL DATE DEC 18 1965

HELIOCENTRIC CONIC DISTANCE 201.017

RL 150.51 LAL .00 LOL 350.00 VL 22.013 GAL 18.25 AZL 90.87 HCA 72.32 SMA 103.77 ECC .53022 INC .8663 VI 29.604
RP 107.94 LAP -.83 LOP 62.31 VP 34.351 GAP -31.95 AZP 90.26 TAL 162.04 TAP 234.36 RCA 48.75 APO 158.78 V2 35.108
RC 64.732 GL -1.59 GP -5.45 ZAL 49.80 ZAP 19.28 ETS 160.76 ZAE 132.75 ETE 183.41 ZAC 20.20 ETC 73.63 CLP 18.52

PLANETOCENTRIC CONIC

C3 129.864 VHL 11.396 DLA -21.66 RAL 302.77 RAD 6570.4 VEL 15.849 PTH 2.81 VHP 19.021 DPA -28.79 RAP 259.17 ECC 3.1372

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 14 14	1907.67	-11.13	22.91	191.68	116.20	11 46 1	1307.7	-7.52	16.09
90.00	16 53 27	764.54	22.51	316.00	205.03	107.65	17 6 12	164.5	24.71	308.03
100.00	12 20 29	1693.83	-13.23	6.12	190.61	117.05	12 48 43	1093.8	-9.49	359.32
100.00	18 29 53	5741.64	24.74	271.80	205.80	107.34	20 5 35	5141.6	26.88	263.66
110.00	12 57 10	1578.87	-18.33	354.56	187.76	119.37	13 23 29	978.9	-14.28	347.79
110.00	20 9 42	5429.38	30.28	250.00	207.71	106.68	21 40 11	4829.4	32.26	241.34

DIFFERENTIAL CORRECTIONS
TDE -.5814 TRA-2.3925 TC3 -.2239 BAU .3889
RDE -.9023 RRA .4109 RC3 -.0062 FAU .01169
FDE .3219 FRA 1.1711 FC3 -.0779 BSP 4237
BDE 1.0734 BRA 2.4275 BC3 .2240 FSP -144

MID-COURSE EXECUTION ACCURACY
SGT 1421.7 SGR 505.4 SG3 58.5
RRT -.2058 RRF .2042 RTF -.8062
SGB 1508.8 R23 -.0159 R13 .8070
SG1 1426.0 SG2 493.1 THA 175.25

ORBIT DETERMINATION ACCURACY
ST 486.3 SR 458.5 SS 410.3
CRT .4787 CRS .5305 CST .9968
LSA 694.6 MSA 363.8 SSA 16.5
EL1 575.2 EL2 340.3 ALF 41.50

LAUNCH DATE SEP 13 1965 FLIGHT TIME 98.00 ARRIVAL DATE DEC 20 1965

HELIOCENTRIC CONIC DISTANCE 207.473

RL 150.51 LAL .00 LOL 350.00 VL 22.393 GAL 17.49 AZL 90.66 HCA 75.53 SMA 105.15 ECC .50948 INC .6601 VI 29.604
RP 107.90 LAP -.64 LOP 65.53 VP 34.609 GAP -30.60 AZP 90.17 TAL 161.34 TAP 236.87 RCA 51.58 APO 158.73 V2 35.120
RC 62.721 GL -1.29 GP -5.70 ZAL 48.92 ZAP 18.09 ETS 158.81 ZAE 133.41 ETE 184.24 ZAC 20.10 ETC 79.00 CLP 17.20

PLANETOCENTRIC CONIC

C3 119.743 VHL 10.943 DLA -21.18 RAL 303.62 RAD 6570.2 VEL 15.527 PTH 2.77 VHP 18.303 DPA -29.28 RAP 261.28 ECC 2.9707

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 11 34	1913.63	-11.31	23.26	191.39	116.13	11 43 28	1313.6	-7.71	16.43
90.00	17 2 52	726.73	23.26	313.49	204.73	106.62	17 14 59	126.7	25.32	305.43
100.00	12 18 33	1697.45	-13.34	6.33	190.35	117.00	12 46 51	1097.5	-9.61	359.53
100.00	18 38 34	5706.19	25.44	269.40	205.43	106.26	20 13 40	5106.2	27.42	261.16
110.00	12 56 31	1578.46	-18.32	354.54	187.58	119.38	13 22 50	978.5	-14.27	347.77
110.00	20 17 6	5397.94	30.87	247.74	207.18	105.47	21 47 4	4797.9	32.68	238.99

DIFFERENTIAL CORRECTIONS
TDE -.5936 TRA-2.4125 TC3 -.2331 BAU .3735
RDE -.8545 RRA .4145 RC3 -.0089 FAU .01190
FDE .3441 FRA 1.2132 FC3 -.0860 BSP 4470
BDE 1.0405 BRA 2.4478 BC3 .2333 FSP -157

MID-COURSE EXECUTION ACCURACY
SGT 1480.5 SGR 504.7 SG3 63.0
RRT -.2225 RRF .2217 RTF -.8174
SGB 1564.2 R23 -.0178 R13 .8183
SG1 1485.3 SG2 490.5 THA 175.13

ORBIT DETERMINATION ACCURACY
ST 511.9 SR 452.9 SS 430.9
CRT .4776 CRS .5376 CST .9963
LSA 721.4 MSA 363.4 SSA 16.6
EL1 589.8 EL2 345.3 ALF 37.79

LAUNCH DATE SEP 13 1965 FLIGHT TIME 100.00 ARRIVAL DATE DEC 22 1965

HELIOCENTRIC CONIC DISTANCE 213.986

RL 150.51 LAL .00 LOL 350.00 VL 22.751 GAL 16.76 AZL 90.46 HCA 78.75 SMA 106.52 ECC .48943 INC .4595 VI 29.604
RP 107.87 LAP -.45 LOP 68.75 VP 34.853 GAP -29.29 AZP 90.09 TAL 160.66 TAP 239.41 RCA 54.38 APO 158.65 V2 35.132
RC 60.751 GL -.95 GP -5.97 ZAL 48.08 ZAP 16.93 ETS 156.53 ZAE 134.16 ETE 185.17 ZAC 20.21 ETC 84.41 CLP 15.88

PLANETOCENTRIC CONIC

C3 110.432 VHL 10.509 DLA -20.66 RAL 304.41 RAD 6570.1 VEL 15.224 PTH 2.73 VHP 17.607 DPA -29.76 RAP 263.41 ECC 2.8174

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 8 33	1919.74	-11.50	23.61	191.01	116.06	11 40 33	1319.7	-7.90	16.78
90.00	17 12 12	687.78	24.00	310.87	204.28	105.50	17 23 40	87.8	25.89	302.72
100.00	12 16 15	1701.27	-13.46	6.55	190.01	116.95	12 44 36	1101.3	-9.74	359.74
100.00	18 47 11	5669.53	26.11	266.88	204.92	105.10	20 21 41	5069.5	27.93	258.55
110.00	12 55 30	1578.26	-18.31	354.53	187.31	119.38	13 21 48	978.3	-14.26	347.76
110.00	20 24 26	5365.30	31.44	245.37	206.51	104.17	21 53 51	4765.3	33.06	236.52

DIFFERENTIAL CORRECTIONS
TDE -.6047 TRA-2.4315 TC3 -.2420 BAU .3578
RDE -.8073 RRA .4177 RC3 -.0121 FAU .01214
FDE .3673 FRA 1.2573 FC3 -.0951 BSP 4710
BDE 1.0087 BRA 2.4671 BC3 .2423 FSP -171

MID-COURSE EXECUTION ACCURACY
SGT 1541.1 SGR 503.6 SG3 67.9
RRT -.2407 RRF .2409 RTF -.8281
SGB 1621.3 R23 -.0200 R13 .8290
SG1 1546.4 SG2 487.1 THA 175.01

ORBIT DETERMINATION ACCURACY
ST 538.2 SR 446.2 SS 452.4
CRT .4752 CRS .5433 CST .9957
LSA 749.7 MSA 362.1 SSA 16.7
EL1 605.9 EL2 348.7 ALF 34.18

LAUNCH DATE SEP 13 1965 FLIGHT TIME 102.00 ARRIVAL DATE DEC 24 1965

HELIOCENTRIC CONIC DISTANCE 220.549

RL	150.51	LAL	.00	LOL	350.00	VL	23.087	GAL	16.06	AZL	90.26	HCA	81.97	SMA	107.85	ECC	.47008	INC	.2633	V1	29.604
RP	107.83	LAP	-.26	LOP	71.97	VP	35.086	GAP	-28.04	AZP	90.04	TAL	160.01	TAP	241.98	RCA	57.15	APO	158.55	V2	35.144
RC	58.824	GL	-.58	GP	-6.27	ZAL	47.28	ZAP	15.82	ETS	153.84	ZAE	134.99	ETE	186.22	ZAC	20.52	ETC	89.74	CLP	14.56

PLANETOCENTRIC CONIC

C3	101.869	VHL	10.093	DLA	-20.12	RAL	305.14	RAD	6570.0	VEL	14.940	PTH	2.69	VHP	16.931	DPA	-30.24	RAP	265.56	ECC	2.6765

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 5 9	1926.11	-11.69	23.98	190.55	115.98	11 37 15	1326.1	-8.10	17.14
90.00	17 21 27	647.63	24.70	308.14	203.70	104.30	17 32 15	47.6	26.43	299.90
100.00	12 13 32	1705.39	-13.58	6.79	189.59	116.89	12 41 58	1105.4	-9.87	359.97
100.00	18 55 44	5631.63	26.75	264.25	204.27	103.85	20 29 36	5031.6	28.40	255.83
110.00	12 54 5	1578.35	-18.32	354.53	186.96	119.38	13 20 23	978.4	-14.26	347.76
110.00	20 31 41	5331.42	31.98	242.87	205.69	102.78	22 0 33	4731.4	33.40	233.93

DIFFERENTIAL CORRECTIONS								MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TDE	-.6149	TRA	-2.4495	TC3	-.2505	BAU	.3419	SGT	1603.3	SGR	502.1	SG3	73.1	ST	565.2	SR	438.4	SS	474.8
RDE	-.7605	RRA	.4208	RC3	-.0159	FAU	.01240	RRT	-.2606	RRF	.2621	RTF	-.8383	CRT	.4714	CRS	.5476	CST	.9950
FDE	.3916	FRA	1.3036	FC3	-.1054	BSP	4955	SGB	1680.1	R23	-.0225	R13	.8392	LSA	779.4	MSA	359.7	SSA	16.8
BDE	.9780	BRA	2.4854	BC3	.2510	FSP	-186	SG1	1609.2	SG2	483.0	THA	174.87	EL1	623.5	EL2	350.5	ALF	30.71

LAUNCH DATE SEP 13 1965 FLIGHT TIME 104.00 ARRIVAL DATE DEC 26 1965

HELIOCENTRIC CONIC DISTANCE 227.158

RL	150.51	LAL	.00	LOL	350.00	VL	23.404	GAL	15.39	AZL	90.07	HCA	85.19	SMA	109.16	ECC	.45146	INC	.0689	V1	29.604
RP	107.80	LAP	-.07	LOP	75.19	VP	35.306	GAP	-26.83	AZP	90.01	TAL	159.39	TAP	244.58	RCA	59.88	APO	158.44	V2	35.155
RC	56.947	GL	-.16	GP	-6.59	ZAL	46.53	ZAP	14.77	ETS	150.65	ZAE	135.92	ETE	187.40	ZAC	21.04	ETC	94.88	CLP	13.24

PLANETOCENTRIC CONIC

C3	94.000	VHL	9.695	DLA	-19.54	RAL	305.82	RAD	6569.8	VEL	14.675	PTH	2.66	VHP	16.275	DPA	-30.72	RAP	267.73	ECC	2.5470

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 1 20	1932.88	-11.89	24.38	190.02	115.89	11 33 33	1332.9	-8.31	17.53
90.00	17 30 39	606.24	25.37	305.29	202.98	103.03	17 40 45	6.2	26.91	296.96
100.00	12 10 25	1709.94	-13.72	7.06	189.09	116.82	12 38 55	1109.9	-10.02	.23
100.00	19 4 15	5592.45	27.36	261.50	203.49	102.53	20 37 27	4992.5	28.81	253.00
110.00	12 52 14	1578.87	-18.33	354.56	186.53	119.37	13 18 33	978.9	-14.28	347.79
110.00	20 38 54	5296.29	32.48	240.25	204.73	101.31	22 7 11	4696.3	33.69	231.23

DIFFERENTIAL CORRECTIONS								MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TDE	-.6271	TRA	-2.4698	TC3	-.2598	BAU	.3275	SGT	1670.3	SGR	500.3	SG3	78.8	ST	594.5	SR	429.5	SS	498.7
RDE	-.7142	RRA	.4239	RC3	-.0202	FAU	.01267	RRT	-.2818	RRF	.2853	RTF	-.8477	CRT	.4675	CRS	.5507	CST	.9943
FDE	.4177	FRA	1.3530	FC3	-.1167	BSP	5130	SGB	1743.6	R23	-.0261	R13	.8487	LSA	812.0	MSA	356.3	SSA	16.9
BDE	.9504	BRA	2.5059	BC3	.2606	FSP	-202	SG1	1676.8	SG2	478.2	THA	174.75	EL1	644.4	EL2	350.3	ALF	27.36

LAUNCH DATE SEP 13 1965 FLIGHT TIME 106.00 ARRIVAL DATE DEC 28 1965

HELIOCENTRIC CONIC DISTANCE 233.809

RL	150.51	LAL	.00	LOL	350.00	VL	23.701	GAL	14.74	AZL	89.88	HCA	88.42	SMA	110.43	ECC	.43355	INC	.1203	V1	29.604
RP	107.76	LAP	.12	LOP	78.41	VP	35.514	GAP	-25.66	AZP	90.00	TAL	158.80	TAP	247.22	RCA	62.55	APO	158.30	V2	35.166
RC	55.125	GL	.30	GP	-6.95	ZAL	45.82	ZAP	13.78	ETS	146.87	ZAE	136.94	ETE	188.74	ZAC	21.74	ETC	99.73	CLP	11.93

PLANETOCENTRIC CONIC

C3	86.772	VHL	9.315	DLA	-18.93	RAL	306.43	RAD	6569.7	VEL	14.426	PTH	2.62	VHP	15.639	DPA	-31.20	RAP	269.91	ECC	2.4280

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 57 4	1940.20	-12.11	24.81	189.41	115.79	11 29 25	1340.2	-8.54	17.95
90.00	17 39 48	5851.60	25.99	280.23	202.13	101.66	19 17 20	5251.6	27.34	271.82
100.00	12 6 50	1715.07	-13.88	7.36	188.51	116.74	12 35 25	1115.1	-10.18	.52
100.00	19 12 43	5551.96	27.93	258.62	202.57	101.11	20 45 15	4952.0	29.18	250.04
110.00	12 49 58	1579.93	-18.37	354.63	186.02	119.35	13 16 18	979.9	-14.32	347.85
110.00	20 46 5	5259.86	32.93	237.51	203.64	99.74	22 13 45	4659.9	33.92	228.41

DIFFERENTIAL CORRECTIONS								MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TDE	-.6357	TRA	-2.4862	TC3	-.2674	BAU	.3116	SGT	1736.3	SGR	498.4	SG3	85.0	ST	623.2	SR	419.5	SS	523.3
RDE	-.6685	RRA	.4271	RC3	-.0253	FAU	.01299	RRT	-.3059	RRF	.3112	RTF	-.8569	CRT	.4605	CRS	.5518	CST	.9935
FDE	.4448	FRA	1.4047	FC3	-.1296	BSP	5376	SGB	1806.4	R23	-.0295	R13	.8579	LSA	844.9	MSA	352.1	SSA	17.0
BDE	.9225	BRA	2.5226	BC3	.2686	FSP	-220	SG1	1743.5	SG2	472.6	THA	174.58	EL1	665.3	EL2	348.8	ALF	24.30

LAUNCH DATE SEP 13 1965 FLIGHT TIME 108.00 ARRIVAL DATE DEC 30 1965

HELIOCENTRIC CONIC DISTANCE 240.495

RL	150.51	LAL	.00	LOL	350.00	VL	23.980	GAL	14.12	AZL	89.69	HCA	91.64	SMA	111.66	ECC	.41637	INC	.3117	V1	29.604
RP	107.73	LAP	.31	LOP	81.64	VP	35.711	GAP	-24.53	AZP	90.01	TAL	158.24	TAP	249.89	RCA	65.17	APO	158.16	V2	35.176
RC	53.365	GL	.81	GP	-7.35	ZAL	45.16	ZAP	12.88	ETS	142.39	ZAE	138.05	ETE	190.26	ZAC	22.62	ETC	104.23	CLP	10.61

PLANETOCENTRIC CONIC

C3	80.138	VHL	8.952	DLA	-18.27	RAL	306.99	RAD	6569.6	VEL	14.195	PTH	2.59	VHP	15.022	DPA	-31.69	RAP	272.11	ECC	2.3189

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 52 21	1948.24	-12.34	25.28	188.73	115.69	11 24 50	1348.2	-8.79	18.41
90.00	17 48 56	5807.56	26.56	277.13	201.14	100.21	19 25 44	5207.6	27.70	268.65
100.00	12 2 48	1720.95	-14.06	7.70	187.87	116.65	12 31 28	1121.0	-10.37	.86
100.00	19 21 11	5510.08	28.44	255.62	201.51	99.61	20 53 1	4910.1	29.48	246.97
110.00	12 47 14	1581.70	-18.43	354.73	185.45	119.31	13 13 36	981.7	-14.38	347.95
110.00	20 53 14	5222.10	33.33	234.63	202.40	98.08	22 20 16	4622.1	34.09	225.47

DIFFERENTIAL CORRECTIONS								MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TDE	-.6433	TRA	-2.5016	TC3	-.2742	BAU	.2956	SGT	1803.7	SGR	496.5	SG3	91.7	ST	652.4	SR	408.3	SS	549.1
RDE	-.6233	RRA	.4306	RC3	-.0312	FAU	.01334	RRT	-.3324	RRF	.3397	RTF	-.8655	CRT	.4514	CRS	.5510	CST	.9925
FDE	.4734	FRA	1.4595	FC3	-.1441	BSP	5625	SGB	1870.8	R23	-.0333	R13	.8667	LSA	879.2	MSA	347.2	SSA	17.1
BDE	.8958	BRA	2.5384	BC3	.2759	FSP	-240	SG1	1811.8	SG2	466.2	THA	174.40	EL1	687.6	EL2	345.7	ALF	21.45

LAUNCH DATE SEP 13 1965 FLIGHT TIME 110.00 ARRIVAL DATE JAN 1 1966

HELIOCENTRIC CONIC DISTANCE 247.215

RL	150.51	LAL	.00	LOL	350.00	VL	24.242	GAL	13.53	AZL	89.50	HCA	94.87	SMA	112.86	ECC	.39990	INC	.5037	V1	29.604
RP	107.70	LAP	.50	LOP	84.87	VP	35.898	GAP	-23.43	AZP	90.04	TAL	157.72	TAP	252.59	RCA	67.73	APO	158.00	V2	35.186
RC	51.675	GL	1.38	GP	-7.78	ZAL	44.55	ZAP	12.10	ETS	137.11	ZAE	139.24	ETE	192.01	ZAC	23.67	ETC	108.35	CLP	9.29

PLANETOCENTRIC CONIC

C3 74.057 VHL 8.606 DLA -17.57 RAL 307.48 RAD 6569.4 VEL 13.979 PTH 2.55 VHP 14.425 DPA -32.20 RAP 274.32 ECC 2.2188

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 47 8	1957.21	-12.61	25.80	187.99	115.57	11 19 45	1357.2	-9.06	18.92
90.00	17 58 6	5762.11	27.06	273.90	200.01	98.66	19 34 8	5162.1	27.98	265.35
100.00	11 58 15	1727.77	-14.27	8.10	187.15	116.55	12 27 2	1127.8	-10.59	1.24
100.00	19 29 40	5466.78	28.89	252.48	200.32	98.02	21 0 47	4866.8	29.70	243.77
110.00	12 44 1	1584.36	-18.52	354.88	184.81	119.26	13 10 25	984.4	-14.48	348.10
110.00	21 0 23	5182.96	33.66	231.63	201.02	96.33	22 26 46	4583.0	34.17	222.42

DIFFERENTIAL CORRECTIONS

TDE	-.6499	TRA	-2.5157	TC3	-.2799	BAU	.2797												
RDE	-.5787	RRA	.4346	RC3	-.0379	FAU	.01373												
FDE	.5039	FRA	1.5176	FC3	-.1606	BSP	5884												
BDE	.8702	BRA	2.5529	BC3	.2825	FSP	-261												

MID-COURSE EXECUTION ACCURACY

SGT	1872.4	SGR	494.8	SG3	99.0						
RRT	-.3617	RRF	.3714	RTF	-.8737						
SGB	1936.7	R23	-.0377	R13	.8749						
SG1	1881.5	SG2	459.1	THA	174.19						

ORBIT DETERMINATION ACCURACY

ST	682.1	SR	395.9	SS	576.1						
CRT	.4398	CRS	.5479	CST	.9915						
LSA	914.9	MSA	341.4	SSA	17.2						
EL1	711.1	EL2	341.1	ALF	18.80						

LAUNCH DATE SEP 13 1965 FLIGHT TIME 112.00 ARRIVAL DATE JAN 3 1966

HELIOCENTRIC CONIC DISTANCE 253.962

RL	150.51	LAL	.00	LOL	350.00	VL	24.487	GAL	12.97	AZL	89.30	HCA	98.10	SMA	114.02	ECC	.38416	INC	.6975	V1	29.604
RP	107.67	LAP	.69	LOP	88.10	VP	36.073	GAP	-22.38	AZP	90.10	TAL	157.23	TAP	255.33	RCA	70.22	APO	157.83	V2	35.196
RC	50.062	GL	2.01	GP	-8.27	ZAL	43.98	ZAP	11.46	ETS	130.96	ZAE	140.52	ETE	194.02	ZAC	24.87	ETC	112.06	CLP	7.96

PLANETOCENTRIC CONIC

C3 68.488 VHL 8.276 DLA -16.81 RAL 307.91 RAD 6569.3 VEL 13.778 PTH 2.52 VHP 13.847 DPA -32.72 RAP 276.55 ECC 2.1271

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 41 23	1967.34	-12.90	26.40	187.18	115.43	11 14 10	1367.3	-9.38	19.50
90.00	18 7 17	5715.16	27.50	270.53	198.76	97.03	19 42 32	5115.2	28.19	261.93
100.00	11 53 11	1735.74	-14.51	8.56	186.38	116.42	12 22 7	1135.7	-10.85	1.69
100.00	19 38 12	5421.99	29.27	249.20	198.99	96.33	21 8 34	4822.0	29.84	240.44
110.00	12 40 17	1588.10	-18.64	355.10	184.11	119.19	13 6 45	988.1	-14.61	348.31
110.00	21 7 34	5142.39	33.92	228.49	199.51	94.49	22 33 16	4542.4	34.17	219.25

DIFFERENTIAL CORRECTIONS

TDE	-.6564	TRA	-2.5295	TC3	-.2848	BAU	.2641												
RDE	-.5344	RRA	.4396	RC3	-.0457	FAU	.01416												
FDE	.5366	FRA	1.5797	FC3	-.1789	BSP	6126												
BDE	.8465	BRA	2.5674	BC3	.2885	FSP	-284												

MID-COURSE EXECUTION ACCURACY

SGT	1943.1	SGR	493.6	SG3	106.9						
RRT	-.3939	RRF	.4063	RTF	-.8815						
SGB	2004.8	R23	-.0427	R13	.8828						
SG1	1953.4	SG2	451.4	THA	173.96						

ORBIT DETERMINATION ACCURACY

ST	712.7	SR	382.1	SS	604.8						
CRT	.4254	CRS	.5423	CST	.9903						
LSA	952.6	MSA	334.8	SSA	17.2						
EL1	736.1	EL2	334.8	ALF	16.31						

LAUNCH DATE SEP 13 1965 FLIGHT TIME 114.00 ARRIVAL DATE JAN 5 1966

HELIOCENTRIC CONIC DISTANCE 260.733

RL	150.51	LAL	.00	LOL	350.00	VL	24.717	GAL	12.42	AZL	89.11	HCA	101.33	SMA	115.14	ECC	.36912	INC	.8944	V1	29.604
RP	107.64	LAP	.88	LOP	91.33	VP	36.238	GAP	-21.35	AZP	90.18	TAL	156.77	TAP	258.11	RCA	72.64	APO	157.65	V2	35.204
RC	48.537	GL	2.71	GP	-8.81	ZAL	43.47	ZAP	11.00	ETS	123.98	ZAE	141.86	ETE	196.34	ZAC	26.20	ETC	115.37	CLP	6.62

PLANETOCENTRIC CONIC

C3 63.396 VHL 7.962 DLA -16.00 RAL 308.28 RAD 6569.2 VEL 13.592 PTH 2.48 VHP 13.287 DPA -33.26 RAP 278.79 ECC 2.0433

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 35 2	1978.88	-13.24	27.08	186.32	115.26	11 8 1	1378.9	-9.73	20.16
90.00	18 16 33	5666.63	27.86	267.02	197.37	95.31	19 51 0	5066.6	28.30	258.39
100.00	11 47 29	1745.12	-14.79	9.12	185.55	116.27	12 16 34	1145.1	-11.14	2.23
100.00	19 46 47	5375.62	29.57	245.79	197.54	94.56	21 16 23	4775.6	29.89	237.00
110.00	12 35 59	1593.18	-18.81	355.40	183.35	119.08	13 2 32	993.2	-14.79	348.59
110.00	21 14 46	5100.33	34.10	225.21	197.87	92.56	22 39 47	4500.3	34.08	215.97

DIFFERENTIAL CORRECTIONS

TDE	-.6620	TRA	-2.5417	TC3	-.2882	BAU	.2486												
RDE	-.4905	RRA	.4456	RC3	-.0546	FAU	.01462												
FDE	.5717	FRA	1.6458	FC3	-.1996	BSP	6384												
BDE	.8239	BRA	2.5805	BC3	.2933	FSP	-310												

MID-COURSE EXECUTION ACCURACY

SGT	2014.5	SGR	493.4	SG3	115.5						
RRT	-.4293	RRF	.4447	RTF	-.8888						
SGB	2074.0	R23	-.0484	R13	.8903						
SG1	2026.1	SG2	443.0	THA	173.70						

ORBIT DETERMINATION ACCURACY

ST	743.6	SR	366.9	SS	635.0						
CRT	.4071	CRS	.5332	CST	.9891						
LSA	991.6	MSA	327.5	SSA	17.3						
EL1	762.0	EL2	327.0	ALF	13.98						

LAUNCH DATE SEP 13 1965 FLIGHT TIME 116.00 ARRIVAL DATE JAN 7 1966

HELIOCENTRIC CONIC DISTANCE 267.523

RL	150.51	LAL	.00	LOL	350.00	VL	24.933	GAL	11.90	AZL	88.90	HCA	104.56	SMA	116.22	ECC	.35479	INC	1.0960	V1	29.604
RP	107.62	LAP	1.06	LOP	94.57	VP	36.394	GAP	-20.36	AZP	90.28	TAL	156.36	TAP	260.92	RCA	74.99	APO	157.46	V2	35.213
RC	47.108	GL	3.49	GP	-9.41	ZAL	43.02	ZAP	10.77	ETS	116.30	ZAE	143.25	ETE	199.03	ZAC	27.65	ETC	118.30	CLP	5.28

PLANETOCENTRIC CONIC

C3 58.749 VHL 7.665 DLA -15.12 RAL 308.58 RAD 6569.1 VEL 13.420 PTH 2.45 VHP 12.746 DPA -33.83 RAP 281.04 ECC 1.9669

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 28 3	1992.13	-13.62	27.86	185.41	115.07	11 1 16	1392.1	-10.13	20.92
90.00	18 25 55	5616.42	28.12	263.38	195.86	93.50	19 59 32	5016.4	28.31	254.72
100.00	11 41 11	1756.19	-15.13	9.78	184.67	116.09	12 10 27	1156.2	-11.50	2.87
100.00	19 55 29	5327.59	29.78	242.23	195.96	92.70	21 24 17	4727.6	29.84	233.43
110.00	12 31 6	1599.83	-19.03	355.79	182.54	118.95	12 57 46	999.8	-15.02	348.97
110.00	21 22 3	5056.71	34.18	221.81	196.11	90.55	22 46 20	4456.7	33.88	212.58

DIFFERENTIAL CORRECTIONS

TDE	-.6670	TRA	-2.5530	TC3	-.2899	BAU	.2333												
RDE	-.4468	RRA	.4530	RC3	-.0648	FAU	.01512												
FDE	.6096	FRA	1.7166	FC3	-.2229	BSP	6642												
BDE	.8028	BRA	2.5929	BC3	.2970	FSP	-338												

MID-COURSE EXECUTION ACCURACY

SGT	2086.7	SGR	494.4	SG3	124.9						
RRT	-.4680	RRF	.4867	RTF	-.8958						
SGB	2144.5	R23	-.0549	R13	.8974						
SG1	2100.0	SG2	434.2	THA	173.39						

ORBIT DETERMINATION ACCURACY

ST	774.9	SR	350.2	SS	666.9						
CRT	.3838	CRS	.5196	CST	.9878						
LSA	1032.3	MSA	319.5	SSA	17.4						
EL1	788.8	EL2	317.7	ALF	11.78						

LAUNCH DATE SEP 13 1965 FLIGHT TIME 118.00 ARRIVAL DATE JAN 9 1966

HELIOCENTRIC CONIC DISTANCE 274.331

RL	150.51	LAL	.00	LOL	350.00	VL	25.134	GAL	11.41	AZL	88.70	HCA	107.80	SMA	117.26	ECC	.34115	INC	1.3037	VI	29.604
RP	107.60	LAP	1.24	LOP	97.80	VP	36.539	GAP	-19.40	AZP	90.40	TAL	155.97	TAP	263.77	RCA	77.26	APO	157.26	V2	35.220
RC	45.785	GL	4.35	GP	-10.08	ZAL	42.63	ZAP	10.81	ETS	108.24	ZAE	144.66	ETE	202.16	ZAC	29.22	ETC	120.87	CLP	3.92

PLANETOCENTRIC CONIC

C3	54.516	VHL	7.384	DLA	-14.17	RAL	308.81	RAD	6569.0	VEL	13.262	PTH	2.42	VHP	12.224	DPA	-34.45	RAP	283.30	ECC	1.8972

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 20 24	2007.40	-14.06	28.77	184.46	114.83	10 53 51	1407.4	-10.60	21.81
90.00	18 35 26	5564.42	28.28	259.58	194.23	91.60	20 8 11	4964.4	28.20	250.92
100.00	11 34 12	1769.26	-15.52	10.55	183.75	115.87	12 3 41	1169.3	-11.91	3.62
100.00	20 4 19	5277.79	29.88	238.54	194.27	90.76	21 32 17	4677.8	29.67	229.74
110.00	12 25 34	1608.37	-19.31	356.29	181.70	118.77	12 52 22	1008.4	-15.32	349.45
110.00	21 29 26	5011.44	34.15	218.27	194.23	88.46	22 52 58	4411.4	33.56	209.08

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY				ORBIT DETERMINATION ACCURACY			
TDE	-.6719	TRA	-2.5632	TC3	-.2898	BAU	.2185	SGT	2159.6	SGR	497.5	SG3	135.2	ST	806.7	SR	331.9	SS	700.9
RDE	-.4031	RRA	.4623	RC3	-.0763	FAU	.01567	RRT	-.5099	RRF	.5323	RTF	-.9024	CRT	.3540	CRS	.5001	CST	.9863
FDE	.6508	FRA	1.7923	FC3	-.2489	BSP	6902	SGB	2216.1	R23	-.0623	R13	.9041	LSA	1074.8	MSA	310.8	SSA	17.4
BDE	.7835	BRA	2.6046	BC3	.2997	FSP	-368	SG1	2175.0	SG2	424.9	THA	173.03	EL1	816.6	EL2	306.6	ALF	9.66

LAUNCH DATE SEP 13 1965 FLIGHT TIME 120.00 ARRIVAL DATE JAN 11 1966

HELIOCENTRIC CONIC DISTANCE 281.151

RL	150.51	LAL	.00	LOL	350.00	VL	25.323	GAL	10.93	AZL	88.48	HCA	111.03	SMA	118.25	ECC	.32819	INC	1.5192	VI	29.604
RP	107.57	LAP	1.42	LOP	101.04	VP	36.676	GAP	-18.47	AZP	90.55	TAL	155.63	TAP	266.66	RCA	79.44	APO	157.06	V2	35.227
RC	44.580	GL	5.31	GP	-10.83	ZAL	42.31	ZAP	11.12	ETS	100.19	ZAE	146.05	ETE	205.80	ZAC	30.89	ETC	123.09	CLP	2.54

PLANETOCENTRIC CONIC

C3	50.673	VHL	7.118	DLA	-13.14	RAL	308.97	RAD	6568.9	VEL	13.116	PTH	2.39	VHP	11.721	DPA	-35.11	RAP	285.58	ECC	1.8339

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 11 59	2025.06	-14.56	29.83	183.48	114.55	10 45 44	1425.1	-11.13	22.83
90.00	18 45 9	5510.50	28.31	255.64	192.50	89.62	20 17 0	4910.5	27.96	246.99
100.00	11 26 29	1784.68	-15.97	11.47	182.80	115.61	11 56 14	1184.7	-12.40	4.51
100.00	20 13 20	5226.12	29.87	234.69	192.47	88.74	21 40 26	4626.1	29.37	225.92
110.00	12 19 21	1619.12	-19.66	356.93	180.82	118.54	12 46 20	1019.1	-15.70	350.05
110.00	21 36 58	4964.43	34.01	214.61	192.26	86.29	22 59 42	4364.4	33.12	205.48

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY				ORBIT DETERMINATION ACCURACY			
TDE	-.6766	TRA	-2.5726	TC3	-.2880	BAU	.2043	SGT	2233.0	SGR	503.3	SG3	146.3	ST	838.8	SR	312.1	SS	736.9
RDE	-.3592	RRA	.4740	RC3	-.0895	FAU	.01626	RRT	-.5548	RRF	.5810	RTF	-.9085	CRT	.3151	CRS	.4722	CST	.9848
FDE	.6957	FRA	1.8736	FC3	-.2778	BSP	7156	SGB	2289.0	R23	-.0708	R13	.9105	LSA	1119.3	MSA	301.5	SSA	17.4
BDE	.7660	BRA	2.6159	BC3	.3015	FSP	-401	SG1	2251.0	SG2	415.4	THA	172.62	EL1	845.4	EL2	293.9	ALF	7.61

LAUNCH DATE SEP 13 1965 FLIGHT TIME 122.00 ARRIVAL DATE JAN 13 1966

HELIOCENTRIC CONIC DISTANCE 287.980

RL	150.51	LAL	.00	LOL	350.00	VL	25.499	GAL	10.48	AZL	88.26	HCA	114.27	SMA	119.20	ECC	.31589	INC	1.7443	VI	29.604
RP	107.55	LAP	1.59	LOP	104.28	VP	36.804	GAP	-17.57	AZP	90.72	TAL	155.32	TAP	269.59	RCA	81.55	APO	156.86	V2	35.234
RC	43.503	GL	6.38	GP	-11.68	ZAL	42.06	ZAP	11.73	ETS	92.59	ZAE	147.37	ETE	210.02	ZAC	32.66	ETC	125.00	CLP	1.15

PLANETOCENTRIC CONIC

C3	47.194	VHL	6.870	DLA	-12.02	RAL	309.06	RAD	6568.8	VEL	12.983	PTH	2.37	VHP	11.237	DPA	-35.84	RAP	287.86	ECC	1.7767

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 2 45	2045.53	-15.14	31.05	182.48	114.22	10 36 50	1445.5	-11.74	24.02
90.00	18 55 7	5454.50	28.22	251.54	190.67	87.57	20 26 1	4854.5	27.59	242.93
100.00	11 17 58	1802.86	-16.50	12.56	181.82	115.28	11 48 1	1202.9	-12.96	5.56
100.00	20 22 35	5172.41	29.72	230.71	190.58	86.64	21 48 47	4572.4	28.94	221.99
110.00	12 12 22	1632.47	-20.09	357.72	179.92	118.25	12 39 35	1032.5	-16.16	350.81
110.00	21 44 40	4915.56	33.73	210.82	190.20	84.07	23 6 35	4315.6	32.54	201.79

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY				ORBIT DETERMINATION ACCURACY			
TDE	-.6816	TRA	-2.5817	TC3	-.2852	BAU	.1916	SGT	2307.2	SGR	512.8	SG3	158.4	ST	871.5	SR	290.7	SS	775.4
RDE	-.3147	RRA	.4885	RC3	-.1043	FAU	.01689	RRT	-.6015	RRF	.6321	RTF	-.9140	CRT	.2634	CRS	.4322	CST	.9832
FDE	.7451	FRA	1.9607	FC3	-.3098	BSP	7436	SGB	2363.5	R23	-.0810	R13	.9163	LSA	1166.1	MSA	291.8	SSA	17.5
BDE	.7508	BRA	2.6275	BC3	.3037	FSP	-437	SG1	2328.4	SG2	405.9	THA	172.15	EL1	875.2	EL2	279.3	ALF	5.59

LAUNCH DATE SEP 13 1965 FLIGHT TIME 124.00 ARRIVAL DATE JAN 15 1966

HELIOCENTRIC CONIC DISTANCE 294.815

RL	150.51	LAL	.00	LOL	350.00	VL	25.663	GAL	10.05	AZL	88.02	HCA	117.51	SMA	120.11	ECC	.30425	INC	1.9812	VI	29.604
RP	107.54	LAP	1.76	LOP	107.52	VP	36.923	GAP	-16.69	AZP	90.92	TAL	155.04	TAP	272.55	RCA	83.57	APO	156.65	V2	35.239
RC	42.563	GL	7.56	GP	-12.64	ZAL	41.90	ZAP	12.64	ETS	85.76	ZAE	148.54	ETE	214.87	ZAC	34.53	ETC	126.62	CLP	-.27

PLANETOCENTRIC CONIC

C3	44.060	VHL	6.638	DLA	-10.79	RAL	309.08	RAD	6568.7	VEL	12.862	PTH	2.34	VHP	10.773	DPA	-36.65	RAP	290.17	ECC	1.7251

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 52 36	2069.29	-15.80	32.49	181.47	113.81	10 27 5	1469.3	-12.45	25.41
90.00	19 5 22	5396.24	27.98	247.30	188.75	85.46	20 35 19	4796.2	27.06	238.75
100.00	11 8 33	1824.26	-17.12	13.85	180.84	114.88	11 38 57	1224.3	-13.62	6.80
100.00	20 32 7	5116.50	29.43	226.58	188.61	84.49	21 57 23	4516.5	28.35	217.94
110.00	12 4 34	1648.84	-20.62	358.71	179.01	117.89	12 32 3	1048.8	-16.72	351.74
110.00	21 52 35	4864.69	33.30	206.91	188.06	81.79	23 13 40	4264.7	31.81	198.00

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY				ORBIT DETERMINATION ACCURACY			
TDE	-.6864	TRA	-2.5884	TC3	-.2765	BAU	.1778	SGT	2378.9	SGR	527.3	SG3	171.6	ST	903.7	SR	268.1	SS	816.7
RDE	-.2692	RRA	.5066	RC3	-.1211	FAU	.01755	RRT	-.6504	RRF	.6844	RTF	-.9200	CRT	.1924	CRS	.3742	CST	.9815
FDE	.7997	FRA	2.0543	FC3	-.3449	BSP	7688	SGB	2436.6	R23	-.0908	R13	.9225	LSA	1214.9	MSA	281.8	SSA	17.4
BDE	.7373	BRA	2.6375	BC3	.3019	FSP	-477	SG1	2404.2	SG2	396.3	THA	171.57	EL1	905.4	EL2	262.6	ALF	3.57

LAUNCH DATE SEP 13 1965 FLIGHT TIME 126.00 ARRIVAL DATE JAN 17 1966

DISTANCE 301.654

HELIOCENTRIC CONIC

RL 150.51 LAL .00 LOL 350.00 VL 25.817 GAL 9.64 AZL 87.77 HCA 120.74 SMA 120.97 ECC .29324 INC 2.2326 VI 29.604
RP 107.52 LAP 1.92 LOP 110.76 VP 37.035 GAP -15.84 AZP 91.14 TAL 154.81 TAP 275.55 RCA 85.50 APO 156.45 V2 35.244
RC 41.769 GL 8.88 GP -13.72 ZAL 41.84 ZAP 13.82 ETS 79.87 ZAE 149.49 ETE 220.39 ZAC 36.49 ETC 127.97 CLP -1.71

PLANETOCENTRIC CONIC

C3 41.255 VHL 6.423 DLA -9.44 RAL 309.01 RAD 6568.6 VEL 12.752 PTH 2.32 VHP 10.329 DPA -37.56 RAP 292.50 ECC 1.6790

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 41 27	2096.87	-16.55	34.16	180.47	113.31	10 16 24	1496.9	-13.25	27.04
90.00	19 16 1	5335.49	27.57	242.90	186.77	83.29	20 44 56	4735.5	26.36	234.44
100.00	10 58 10	1849.40	-17.83	15.37	179.87	114.39	11 28 59	1249.4	-14.39	8.27
100.00	20 42 0	5058.20	28.97	222.30	186.57	82.28	22 6 18	4458.2	27.60	213.77
110.00	11 55 52	1668.72	-21.24	359.91	178.11	117.43	12 23 40	1068.7	-17.40	352.89
110.00	22 0 47	4811.64	32.71	202.88	185.87	79.48	23 20 58	4211.6	30.92	194.12

DIFFERENTIAL CORRECTIONS

TDE -.6900 TRA-2.5934 TC3 -.2644 BAU .1650
RDE -.2225 RRA .5289 RC3 -.1401 FAU .01830
FDE .8592 FRA 2.1537 FC3 -.3840 BSP 8005
BDE .7250 BRA 2.6468 BC3 .2992 FSP -521

MID-COURSE EXECUTION ACCURACY

SGT 2448.3 SGR 548.2 SG3 185.8
RRT -.6992 RRF .7365 RTF -.9254
SGB 2508.9 R23 -.1019 R13 .9282
SGI 2478.9 SG2 387.1 THA 170.88

ORBIT DETERMINATION ACCURACY

ST 934.9 SR 244.9 SS 860.2
CRT .0929 CRS .2889 CST .9796
LSA 1264.7 MSA 272.0 SSA 17.2
EL1 935.2 EL2 243.8 ALF 1.50

LAUNCH DATE SEP 13 1965 FLIGHT TIME 128.00 ARRIVAL DATE JAN 19 1966

DISTANCE 308.493

HELIOCENTRIC CONIC

RL 150.51 LAL .00 LOL 350.00 VL 25.959 GAL 9.25 AZL 87.50 HCA 123.98 SMA 121.79 ECC .28286 INC 2.5016 VI 29.604
RP 107.51 LAP 2.07 LOP 114.01 VP 37.139 GAP -15.02 AZP 91.40 TAL 154.61 TAP 278.59 RCA 87.34 APO 156.24 V2 35.249
RC 41.131 GL 10.35 GP -14.96 ZAL 41.89 ZAP 15.28 ETS 74.96 ZAE 150.11 ETE 226.52 ZAC 38.56 ETC 129.08 CLP -3.17

PLANETOCENTRIC CONIC

C3 38.766 VHL 6.226 DLA -7.97 RAL 308.87 RAD 6568.5 VEL 12.654 PTH 2.30 VHP 9.906 DPA -38.59 RAP 294.86 ECC 1.6380

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 29 11	2128.92	-17.40	36.13	179.49	112.70	10 4 40	1528.9	-14.18	28.94
90.00	19 27 7	5272.01	26.99	238.35	184.73	81.08	20 54 59	4672.0	25.48	230.00
100.00	10 46 41	1878.90	-18.65	17.18	178.92	113.79	11 18 0	1278.9	-15.28	10.01
100.00	20 52 18	4997.26	28.33	217.89	184.48	80.04	22 15 36	4397.3	26.66	209.48
110.00	11 46 9	1692.68	-21.99	1.37	177.24	116.86	12 14 22	1092.7	-18.21	354.27
110.00	22 9 19	4756.24	31.95	198.74	183.64	77.14	23 28 35	4156.2	29.85	190.16

DIFFERENTIAL CORRECTIONS

TDE -.6977 TRA-2.5999 TC3 -.2525 BAU .1552
RDE -.1733 RRA .5566 RC3 -.1611 FAU .01902
FDE .9267 FRA 2.2605 FC3 -.4247 BSP 8263
BDE .7189 BRA 2.6588 BC3 .2995 FSP -568

MID-COURSE EXECUTION ACCURACY

SGT 2519.4 SGR 577.2 SG3 201.1
RRT -.7454 RRF .7862 RTF -.9302
SGB 2584.7 R23 -.1151 R13 .9335
SGI 2556.7 SG2 379.2 THA 170.09

ORBIT DETERMINATION ACCURACY

ST 968.3 SR 222.6 SS 907.6
CRT -.0463 CRS .1616 CST .9778
LSA 1319.9 MSA 261.8 SSA 17.1
EL1 968.4 EL2 222.3 ALF 179.36

LAUNCH DATE SEP 13 1965 FLIGHT TIME 130.00 ARRIVAL DATE JAN 21 1966

DISTANCE 315.330

HELIOCENTRIC CONIC

RL 150.51 LAL .00 LOL 350.00 VL 26.092 GAL 8.88 AZL 87.21 HCA 127.22 SMA 122.57 ECC .27308 INC 2.7920 VI 29.604
RP 107.50 LAP 2.22 LOP 117.25 VP 37.235 GAP -14.22 AZP 91.69 TAL 154.44 TAP 281.66 RCA 89.10 APO 156.04 V2 35.252
RC 40.657 GL 11.98 GP -16.37 ZAL 42.06 ZAP 17.00 ETS 70.97 ZAE 150.31 ETE 233.14 ZAC 40.74 ETC 129.95 CLP -4.66

PLANETOCENTRIC CONIC

C3 36.584 VHL 6.048 DLA -6.34 RAL 308.63 RAD 6568.4 VEL 12.568 PTH 2.28 VHP 9.507 DPA -39.76 RAP 297.26 ECC 1.6021

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 15 39	2166.17	-18.36	38.44	178.56	111.94	9 51 45	1566.2	-15.23	31.17
90.00	19 38 47	5205.49	26.20	233.64	182.67	78.84	21 5 33	4605.5	24.39	225.43
100.00	10 33 59	1913.48	-19.59	19.32	178.02	113.04	11 5 52	1313.5	-16.30	12.07
100.00	21 3 9	4933.41	27.49	213.33	182.37	77.78	22 25 22	4333.4	25.53	205.07
110.00	11 35 20	1721.39	-22.86	3.14	176.42	116.13	12 4 1	1121.4	-19.16	355.96
110.00	22 18 17	4698.26	30.99	194.50	181.39	74.79	23 36 35	4098.3	28.59	186.12

DIFFERENTIAL CORRECTIONS

TDE -.7078 TRA-2.6069 TC3 -.2379 BAU .1472
RDE -.1210 RRA .5908 RC3 -.1844 FAU .01974
FDE 1.0023 FRA 2.3740 FC3 -.4671 BSP 8512
BDE .7181 BRA 2.6731 BC3 .3010 FSP -617

MID-COURSE EXECUTION ACCURACY

SGT 2589.6 SGR 616.5 SG3 217.6
RRT -.7881 RRF .8319 RTF -.9349
SGB 2662.0 R23 -.1292 R13 .9387
SGI 2635.7 SG2 372.8 THA 169.15

ORBIT DETERMINATION ACCURACY

ST 1002.6 SR 204.3 SS 958.8
CRT -.2393 CRS -.0250 CST .9762
LSA 1379.3 MSA 252.0 SSA 16.8
EL1 1003.9 EL2 198.1 ALF 177.10

LAUNCH DATE SEP 13 1965 FLIGHT TIME 132.00 ARRIVAL DATE JAN 23 1966

DISTANCE 322.161

HELIOCENTRIC CONIC

RL 150.51 LAL .00 LOL 350.00 VL 26.215 GAL 8.54 AZL 86.89 HCA 130.46 SMA 123.30 ECC .26388 INC 3.1085 VI 29.604
RP 107.49 LAP 2.36 LOP 120.50 VP 37.324 GAP -13.45 AZP 92.02 TAL 154.31 TAP 284.77 RCA 90.77 APO 155.84 V2 35.255
RC 40.351 GL 13.81 GP -17.98 ZAL 42.38 ZAP 18.98 ETS 67.81 ZAE 150.00 ETE 240.01 ZAC 43.05 ETC 130.60 CLP -6.19

PLANETOCENTRIC CONIC

C3 34.707 VHL 5.891 DLA -4.54 RAL 308.31 RAD 6568.4 VEL 12.493 PTH 2.26 VHP 9.132 DPA -41.11 RAP 299.72 ECC 1.5712

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 0 41	2209.50	-19.44	41.16	177.71	111.00	9 37 30	1609.5	-16.42	33.79
90.00	19 51 9	5135.55	25.18	228.77	180.60	76.61	21 16 44	4535.6	23.09	220.72
100.00	10 19 53	1953.97	-20.65	21.86	177.20	112.11	10 52 27	1354.0	-17.47	14.51
100.00	21 14 37	4866.31	26.44	208.62	180.26	75.52	22 35 43	4266.3	24.19	200.54
110.00	11 23 15	1755.62	-23.87	5.28	175.68	115.23	11 52 31	1155.6	-20.27	357.99
110.00	22 27 45	4637.43	29.82	190.14	179.16	72.46	23 45 2	4037.4	27.13	181.99

DIFFERENTIAL CORRECTIONS

TDE -.7174 TRA-2.6110 TC3 -.2169 BAU .1402
RDE -.0645 RRA .6328 RC3 -.2104 FAU .02050
FDE 1.0858 FRA 2.4921 FC3 -.5115 BSP 8837
BDE .7203 BRA 2.6865 BC3 .3022 FSP -673

MID-COURSE EXECUTION ACCURACY

SGT 2653.4 SGR 668.2 SG3 234.9
RRT -.8265 RRF .8721 RTF -.9394
SGB 2736.3 R23 -.1428 R13 .9439
SGI 2711.4 SG2 368.1 THA 168.02

ORBIT DETERMINATION ACCURACY

ST 1034.8 SR 195.7 SS 1012.7
CRT -.4825 CRS -.2746 CST .9743
LSA 1440.5 MSA 243.5 SSA 16.4
EL1 1039.2 EL2 170.7 ALF 174.64

LAUNCH DATE SEP 13 1965 FLIGHT TIME 134.00 ARRIVAL DATE JAN 25 1966

HELIOCENTRIC CONIC DISTANCE 328.986

RL 150.51 LAL .00 LOL 350.00 VL 26.329 GAL 8.21 AZL 86.54 HCA 133.69 SMA 124.00 ECC .25526 INC 3.4572 V1 29.604
RP 107.48 LAP 2.50 LOP 123.75 VP 37.406 GAP -12.69 AZP 92.39 TAL 154.21 TAP 287.91 RCA 92.35 APO 155.65 V2 35.257
RC 40.219 GL 15.84 GP -19.85 ZAL 42.88 ZAP 21.25 ETS 65.37 ZAE 149.10 ETE 246.84 ZAC 45.50 ETC 131.05 CLP -7.74

PLANETOCENTRIC CONIC

C3 33.141 VHL 5.757 DLA -2.54 RAL 307.88 RAD 6568.3 VEL 12.430 PTH 2.25 VHP 8.786 DPA -42.67 RAP 302.27 ECC 1.5454

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 44 4	2259.97	-20.64	44.38	176.97	109.82	9 21 44	1660.0	-17.76	36.89
90.00	20 4 21	5061.77	23.92	223.73	178.57	74.38	21 28 43	4461.8	21.55	215.86
100.00	10 4 13	2001.40	-21.83	24.89	176.50	110.94	10 37 34	1401.4	-18.79	17.41
100.00	21 26 53	4795.58	25.14	203.76	178.18	73.28	22 46 48	4195.6	22.61	195.88
110.00	11 9 44	1796.28	-25.03	7.88	175.06	114.08	11 39 41	1196.3	-21.56	.44
110.00	22 37 50	4573.46	28.42	185.69	176.97	70.16	23 54 4	3973.5	25.46	177.77

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.7340 TRA-2.6187 TC3 -.1976 BAU .1371 SGT 2718.8 SGR 735.3 SG3 253.0 ST 1070.7 SR 204.8 SS 1071.7
RDE -.0017 RRA .6847 RC3 -.2383 FAU .02115 RRT -.8585 RRF .9057 RTF -.9435 CRT -.7246 CRS -.5470 CST .9728
FDE 1.1811 FRA 2.6157 FC3 -.5525 BSP 9084 SGB 2816.5 R23 -.1572 R13 .9488 LSA 1510.3 MSA 235.7 SSA 15.8
BDE .7340 BRA 2.7068 BC3 .3095 FSP -728 SG1 2792.4 SG2 367.1 THA 166.70 EL1 1081.1 EL2 139.8 ALF 171.97

LAUNCH DATE SEP 13 1965 FLIGHT TIME 136.00 ARRIVAL DATE JAN 27 1966

HELIOCENTRIC CONIC DISTANCE 335.801

RL 150.51 LAL .00 LOL 350.00 VL 26.435 GAL 7.89 AZL 86.15 HCA 136.93 SMA 124.65 ECC .24719 INC 3.8457 V1 29.604
RP 107.48 LAP 2.62 LOP 126.99 VP 37.482 GAP -11.96 AZP 92.81 TAL 154.14 TAP 291.07 RCA 93.84 APO 155.46 V2 35.259
RC 40.263 GL 18.12 GP -22.00 ZAL 43.58 ZAP 23.80 ETS 63.55 ZAE 147.57 ETE 253.31 ZAC 48.13 ETC 131.32 CLP -9.32

PLANETOCENTRIC CONIC

C3 31.899 VHL 5.648 DLA -.33 RAL 307.34 RAD 6568.3 VEL 12.380 PTH 2.23 VHP 8.471 DPA -44.48 RAP 304.95 ECC 1.5250

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 25 31	2318.89	-21.96	48.20	176.39	108.35	9 4 10	1718.9	-19.25	40.57
90.00	20 18 36	4983.61	22.39	218.51	176.60	72.20	21 41 39	4383.6	19.75	210.84
100.00	9 46 42	2057.01	-23.14	28.50	175.95	109.47	10 20 59	1457.0	-20.28	20.88
100.00	21 40 6	4720.73	23.58	198.75	176.17	71.08	22 58 46	4120.7	20.78	191.07
110.00	10 54 35	1844.50	-26.33	11.02	174.60	112.63	11 25 20	1244.5	-23.03	3.41
110.00	22 48 42	4506.00	26.78	181.13	174.85	67.92	24 3 48	3906.0	23.55	173.46

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.7520 TRA-2.6241 TC3 -.1717 BAU .1359 SGT 2776.0 SGR 820.3 SG3 271.4 ST 1104.4 SR 238.4 SS 1133.3
RDE .0692 RRA .7481 RC3 -.2684 FAU .02177 RRT -.8850 RRF .9325 RTF -.9475 CRT -.8937 CRS -.7627 CST .9712
FDE 1.2861 FRA 2.7388 FC3 -.5909 BSP 9422 SGB 2894.6 R23 -.1692 R13 .9538 LSA 1583.6 MSA 230.1 SSA 14.9
BDE .7551 BRA 2.7286 BC3 .3186 FSP -789 SG1 2871.0 SG2 369.3 THA 165.09 EL1 1125.0 EL2 105.0 ALF 168.98

LAUNCH DATE SEP 13 1965 FLIGHT TIME 138.00 ARRIVAL DATE JAN 29 1966

HELIOCENTRIC CONIC DISTANCE 342.603

RL 150.51 LAL .00 LOL 350.00 VL 26.533 GAL 7.60 AZL 85.72 HCA 140.17 SMA 125.26 ECC .23965 INC 4.2842 V1 29.604
RP 107.48 LAP 2.74 LOP 130.24 VP 37.551 GAP -11.25 AZP 93.29 TAL 154.10 TAP 294.27 RCA 95.24 APO 155.27 V2 35.259
RC 40.482 GL 20.66 GP -24.50 ZAL 44.52 ZAP 26.69 ETS 62.25 ZAE 145.39 ETE 259.17 ZAC 50.97 ETC 131.41 CLP -10.93

PLANETOCENTRIC CONIC

C3 31.010 VHL 5.569 DLA 2.12 RAL 306.68 RAD 6568.2 VEL 12.344 PTH 2.23 VHP 8.195 DPA -46.60 RAP 307.82 ECC 1.5103

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 4 40	2387.89	-23.36	52.77	176.02	106.47	8 44 28	1787.9	-20.88	44.97
90.00	20 34 9	4900.40	20.56	213.10	174.74	70.09	21 55 50	4300.4	17.66	205.62
100.00	9 27 0	2122.33	-24.56	32.84	175.62	107.60	10 2 22	1522.3	-21.92	25.04
100.00	21 54 31	4641.20	21.73	193.57	174.27	68.95	23 11 52	4041.2	18.68	186.11
110.00	10 37 31	1901.63	-27.77	14.84	174.38	110.79	11 9 12	1301.6	-24.69	7.02
110.00	23 0 29	4434.66	24.87	176.47	172.84	65.75	24 14 24	3834.7	21.38	169.05

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.7694 TRA-2.6233 TC3 -.1352 BAU .1367 SGT 2818.6 SGR 925.9 SG3 289.0 ST 1132.8 SR 298.4 SS 1195.2
RDE .1507 RRA .8247 RC3 -.3007 FAU .02241 RRT -.9065 RRF .9529 RTF -.9514 CRT -.9737 CRS -.8893 CST .9694
FDE 1.3991 FRA 2.8537 FC3 -.6256 BSP 9946 SGB 2966.8 R23 -.1775 R13 .9589 LSA 1657.9 MSA 227.8 SSA 13.8
BDE .7840 BRA 2.7499 BC3 .3297 FSP -858 SG1 2943.1 SG2 374.3 THA 163.14 EL1 1169.6 EL2 65.9 ALF 165.57

LAUNCH DATE SEP 13 1965 FLIGHT TIME 140.00 ARRIVAL DATE JAN 31 1966

HELIOCENTRIC CONIC DISTANCE 349.391

RL 150.51 LAL .00 LOL 350.00 VL 26.623 GAL 7.33 AZL 85.21 HCA 143.40 SMA 125.83 ECC .23263 INC 4.7865 V1 29.604
RP 107.48 LAP 2.85 LOP 133.49 VP 37.615 GAP -10.56 AZP 93.85 TAL 154.09 TAP 297.48 RCA 96.55 APO 155.10 V2 35.259
RC 40.875 GL 23.50 GP -27.40 ZAL 45.74 ZAP 29.94 ETS 61.39 ZAE 142.58 ETE 264.27 ZAC 54.07 ETC 131.37 CLP -12.56

PLANETOCENTRIC CONIC

C3 30.526 VHL 5.525 DLA 4.85 RAL 305.88 RAD 6568.2 VEL 12.325 PTH 2.22 VHP 7.964 DPA -49.07 RAP 310.96 ECC 1.5024

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 41 3	2469.06	-24.82	58.27	175.94	104.09	8 22 12	1869.1	-22.64	50.28
90.00	20 51 24	4811.32	18.39	207.46	173.05	68.08	22 11 35	4211.3	15.26	200.19
100.00	9 4 40	2199.33	-26.04	38.08	175.59	105.22	9 41 20	1599.3	-23.70	30.06
100.00	22 10 27	4556.29	19.56	188.20	172.54	66.93	23 26 23	3956.3	16.27	180.95
110.00	10 18 9	1969.36	-29.32	19.50	174.47	108.42	10 50 58	1369.4	-26.52	11.43
110.00	23 13 28	4359.01	22.67	171.70	171.01	63.70	24 26 7	3759.0	18.95	164.53

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.7957 TRA-2.6258 TC3 -.0978 BAU .1417 SGT 2856.8 SGR 1055.6 SG3 305.2 ST 1163.2 SR 385.0 SS 1259.1
RDE .2476 RRA .9179 RC3 -.3333 FAU .02280 RRT -.9229 RRF .9679 RTF -.9550 CRT -.9978 CRS -.9518 CST .9680
FDE 1.5232 FRA 2.9566 FC3 -.6466 BSP 10485 SGB 3045.5 R23 -.1824 R13 .9640 LSA 1741.9 MSA 227.9 SSA 12.4
BDE .8333 BRA 2.7816 BC3 .3473 FSP -927 SG1 3021.2 SG2 384.4 THA 160.85 EL1 1225.0 EL2 24.1 ALF 161.72

LAUNCH DATE SEP 13 1965 FLIGHT TIME 142.00 ARRIVAL DATE FEB 2 1966

DISTANCE 356.171

HELIOCENTRIC CONIC

RL 150.51 LAL .00 LOL 350.00 VL 26.706 GAL 7.07 AZL 84.63 HCA 146.63 SMA 126.36 ECC .22614 INC 5.3715 V1 29.604
RP 107.48 LAP 2.95 LOP 136.74 VP 37.673 GAP -9.89 AZP 94.49 TAL 154.09 TAP 300.72 RCA 97.78 APO 154.93 V2 35.258
RC 41.437 GL 26.68 GP -30.77 ZAL 47.28 ZAP 33.59 ETS 60.90 ZAE 139.12 ETE 268.57 ZAC 57.48 ETC 131.23 CLP -14.19

PLANETOCENTRIC CONIC

C3 30.538 VHL 5.526 DLA 7.88 RAL 304.92 RAD 6568.2 VEL 12.325 PTH 2.22 VHP 7.794 DPA -51.94 RAP 314.54 ECC 1.5026

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 13 59	2565.19	-26.24	64.95	176.24	101.03	7 56 45	1965.2	-24.46	56.73
90.00	21 10 50	4715.40	15.86	201.57	171.63	66.23	22 29 26	4115.4	12.51	194.49
100.00	8 39 8	2290.57	-27.51	44.46	175.95	102.18	9 17 19	1690.6	-25.56	36.20
100.00	22 28 23	4465.25	17.03	182.62	171.07	65.06	23 42 48	3865.2	13.53	175.58
110.00	9 56 3	2049.86	-30.91	25.23	174.99	105.38	10 30 13	1449.9	-28.49	16.86
110.00	23 27 57	4278.73	20.16	166.81	169.42	61.79	24 39 16	3678.7	16.24	159.89

DIFFERENTIAL CORRECTIONS

TDE -.9245 TRA-2.7230 TC3 -.1806 BAU .1579
RDE .3828 RRA 1.0485 RC3 -.3421 FAU .02000
FDE 1.7182 FRA 3.1001 FC3 -.5670 BSP .8889
BDE 1.0006 BRA 2.9179 BC3 .3869 FSP -.867

MID-COURSE EXECUTION ACCURACY

SGT 3013.7 SGR 1226.8 SG3 324.4
RRT -.9286 RRF .9782 RTF -.9573
SGB 3253.8 R23 -.1916 R13 .9682
SG1 3225.9 SG2 425.4 THA 158.91

ORBIT DETERMINATION ACCURACY

ST 1284.5 SR 515.8 SS 1367.1
CRT -.9990 CRS -.9815 CST .9740
LSA 1933.2 MSA 217.7 SSA 11.9
EL1 1384.0 EL2 21.4 ALF 158.14

LAUNCH DATE SEP 13 1965 FLIGHT TIME 144.00 ARRIVAL DATE FEB 4 1966

DISTANCE 362.923

HELIOCENTRIC CONIC

RL 150.51 LAL .00 LOL 350.00 VL 26.783 GAL 6.83 AZL 83.93 HCA 149.86 SMA 126.85 ECC .22011 INC 6.0659 V1 29.604
RP 107.49 LAP 3.04 LOP 140.00 VP 37.726 GAP -9.23 AZP 95.25 TAL 154.11 TAP 303.97 RCA 98.93 APO 154.77 V2 35.256
RC 42.162 GL 30.22 GP -34.70 ZAL 49.21 ZAP 37.71 ETS 60.73 ZAE 135.02 ETE 272.10 ZAC 61.27 ETC 131.04 CLP -15.79

PLANETOCENTRIC CONIC

C3 31.165 VHL 5.583 DLA 11.25 RAL 303.77 RAD 6568.2 VEL 12.351 PTH 2.23 VHP 7.698 DPA -55.25 RAP 318.79 ECC 1.5129

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 42 22	2680.16	-27.48	73.13	176.98	97.11	7 27 2	2080.2	-26.21	64.69
90.00	21 33 15	4610.64	12.88	195.31	170.55	64.56	22 50 6	4010.6	9.35	188.41
100.00	8 9 22	2399.56	-28.83	52.29	176.77	98.26	8 49 22	1799.6	-27.39	43.78
100.00	22 48 56	4366.48	14.11	176.75	169.94	63.37	24 1 43	3766.5	10.42	169.90
110.00	9 30 26	2145.88	-32.43	32.30	176.04	101.45	10 6 12	1545.9	-30.51	23.61
110.00	23 44 21	4192.92	17.32	161.78	168.14	60.06	24 54 14	3592.9	13.21	155.08

DIFFERENTIAL CORRECTIONS

TDE -.9551 TRA-2.7115 TC3 -.1131 BAU .1611
RDE .5288 RRA 1.1814 RC3 -.3697 FAU .02009
FDE 1.8429 FRA 3.1270 FC3 -.5580 BSP .10117
BDE 1.0918 BRA 2.9577 BC3 .3667 FSP -.949

MID-COURSE EXECUTION ACCURACY

SGT 3004.6 SGR 1411.9 SG3 331.0
RRT -.9400 RRF .9854 RTF -.9610
SGB 3319.8 R23 -.1822 R13 .9737
SG1 3290.5 SG2 439.7 THA 155.71

ORBIT DETERMINATION ACCURACY

ST 1298.3 SR 657.5 SS 1417.4
CRT -.9931 CRS -.9927 CST .9721
LSA 2018.8 MSA 226.1 SSA 9.9
EL1 1453.6 EL2 68.9 ALF 153.24

LAUNCH DATE SEP 13 1965 FLIGHT TIME 146.00 ARRIVAL DATE FEB 6 1966

DISTANCE 369.656

HELIOCENTRIC CONIC

RL 150.51 LAL .00 LOL 350.00 VL 26.853 GAL 6.61 AZL 83.09 HCA 153.08 SMA 127.31 ECC .21455 INC 6.9095 V1 29.604
RP 107.49 LAP 3.12 LOP 143.25 VP 37.773 GAP -8.60 AZP 96.17 TAL 154.15 TAP 307.23 RCA 99.99 APO 154.62 V2 35.254
RC 43.042 GL 34.16 GP -39.25 ZAL 51.56 ZAP 42.32 ETS 60.82 ZAE 130.26 ETE 275.00 ZAC 65.50 ETC 130.91 CLP -17.31

PLANETOCENTRIC CONIC

C3 32.655 VHL 5.714 DLA 14.97 RAL 302.39 RAD 6568.3 VEL 12.411 PTH 2.24 VHP 7.706 DPA -59.00 RAP 324.16 ECC 1.5374

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 4 36	2819.80	-28.25	83.27	178.23	92.09	6 51 35	2219.8	-27.66	74.65
90.00	21 59 59	4494.50	9.40	188.56	170.02	63.16	23 14 54	3894.5	5.72	181.81
100.00	7 34 2	2531.33	-29.73	61.97	178.15	93.24	8 16 14	1931.3	-28.97	53.25
100.00	23 13 13	4258.21	10.72	170.49	169.32	61.93	24 24 12	3658.2	6.88	163.81
110.00	9 0 22	2261.20	-33.65	41.07	177.76	96.40	9 38 4	1661.2	-32.40	32.06
110.00	0 7 19	4101.10	14.13	156.58	167.33	58.55	1 15 40	3501.1	9.86	150.08

DIFFERENTIAL CORRECTIONS

TDE-1.0380 TRA-2.7385 TC3 -.0849 BAU .1697
RDE .7227 RRA 1.3446 RC3 -.3793 FAU .01857
FDE 1.9832 FRA 3.1153 FC3 -.4923 BSP .10772
BDE 1.2648 BRA 3.0508 BC3 .3887 FSP -.975

MID-COURSE EXECUTION ACCURACY

SGT 3028.3 SGR 1631.1 SG3 331.5
RRT -.9472 RRF .9901 RTF -.9642
SGB 3439.6 R23 -.1703 R13 .9788
SG1 3408.1 SG2 464.9 THA 152.41

ORBIT DETERMINATION ACCURACY

ST 1345.5 SR 836.9 SS 1473.0
CRT -.9867 CRS -.9975 CST .9730
LSA 2150.9 MSA 232.3 SSA 8.3
EL1 1580.3 EL2 115.9 ALF 148.27

LAUNCH DATE SEP 13 1965 FLIGHT TIME 148.00 ARRIVAL DATE FEB 8 1966

DISTANCE 376.365

HELIOCENTRIC CONIC

RL 150.51 LAL .00 LOL 350.00 VL 26.917 GAL 6.41 AZL 82.04 HCA 156.30 SMA 127.73 ECC .20946 INC 7.9631 V1 29.604
RP 107.50 LAP 3.19 LOP 146.50 VP 37.816 GAP -7.98 AZP 97.30 TAL 154.20 TAP 310.50 RCA 100.98 APO 154.48 V2 35.250
RC 44.068 GL 38.51 GP -44.47 ZAL 54.38 ZAP 47.45 ETS 61.19 ZAE 124.83 ETE 277.47 ZAC 70.25 ETC 130.98 CLP -18.64

PLANETOCENTRIC CONIC

C3 35.414 VHL 5.951 DLA 19.04 RAL 300.71 RAD 6568.4 VEL 12.521 PTH 2.27 VHP 7.858 DPA -63.12 RAP 331.44 ECC 1.5828

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 17 40	2994.04	-28.02	96.00	179.92	85.72	6 7 34	2394.0	-28.32	87.34
90.00	22 33 33	4361.19	5.22	180.99	170.31	62.13	23 46 14	3761.2	1.45	174.34
100.00	6 50 43	2693.99	-29.75	74.05	180.05	86.89	7 35 37	2094.0	-29.86	65.25
100.00	23 43 11	4136.47	6.74	163.65	169.48	60.81	24 52 8	3536.5	2.80	157.08
110.00	8 24 19	2401.13	-34.18	51.95	180.19	89.98	9 4 20	1801.1	-33.81	42.73
110.00	0 30 0	4002.09	10.55	151.15	167.17	57.29	1 36 42	3402.1	6.16	144.80

DIFFERENTIAL CORRECTIONS

TDE-1.1734 TRA-2.7977 TC3 -.0776 BAU .1773
RDE .9804 RRA 1.5363 RC3 -.3663 FAU .01567
FDE 2.1170 FRA 3.0344 FC3 -.3831 BSP .11227
BDE 1.5291 BRA 3.1918 BC3 .3744 FSP -.957

MID-COURSE EXECUTION ACCURACY

SGT 3066.8 SGR 1878.7 SG3 322.3
RRT -.9520 RRF .9930 RTF -.9675
SGB 3596.5 R23 -.1540 R13 .9836
SG1 3562.2 SG2 495.0 THA 149.09

ORBIT DETERMINATION ACCURACY

ST 1416.7 SR 1054.3 SS 1520.4
CRT -.9826 CRS -.9994 CST .9757
LSA 2318.2 MSA 237.4 SSA 6.8
EL1 1758.9 EL2 157.7 ALF 143.48

LAUNCH DATE SEP 13 1965 FLIGHT TIME 150.00 ARRIVAL DATE FEB 10 1966

HELIOCENTRIC CONIC DISTANCE 383.045

RL	150.51	LAL	.00	LOL	350.00	VL	26.975	GAL	6.23	AZL	80.67	HCA	159.50	SMA	128.12	ECC	.20481	INC	9.3249
RP	107.51	LAP	3.25	LOP	149.75	VP	37.854	GAP	-7.38	AZP	98.74	TAL	154.26	TAP	313.76	RCA	101.88	APO	154.36
RC	45.230	GL	43.26	GP	-50.39	ZAL	57.72	ZAP	53.07	ETS	61.91	ZAE	118.72	ETE	279.81	ZAC	75.58	ETC	131.54

V1	29.604	V2	35.247	CLP	-19.56														

PLANETOCENTRIC CONIC

C3	40.197	VHL	6.340	DLA	23.45	RAL	298.65	RAD	6568.5	VEL	12.711	PTH	2.31	VHP	8.223	DPA	-67.35	RAP	342.08

ECC	1.6615																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 14 34	3225.14	-25.74	112.50	181.57	77.77	5 8 19	2625.1	-27.17	104.12
90.00	23 20 15	4194.10	-.15	171.65	171.98	61.68	24 30 9	3594.1	-3.94	165.02
100.00	5 54 21	2903.41	-27.99	89.35	182.09	79.05	6 42 44	2303.4	-29.21	80.76
100.00	0 27 5	3991.06	1.85	155.62	170.86	60.16	1 33 36	3391.1	-2.13	149.10
110.00	7 39 40	2573.93	-33.37	65.36	183.13	82.10	8 22 34	1973.9	-34.10	56.20
110.00	0 58 16	3893.31	6.49	145.34	167.99	56.37	2 3 9	3293.3	2.03	139.09

DIFFERENTIAL CORRECTIONS

TDE	-1.3748	TRA	-2.8922	TC3	-.0747	BAU	.1803												

RDE	1.3245	RRA	1.7475	RC3	-.3270	FAU	.01170												

FDE	2.2178	FRA	2.8584	FC3	-.2521	BSP	11835												

BDE	1.9090	BRA	3.3791	BC3	.3354	FSP	-905												

MID-COURSE EXECUTION ACCURACY

SGT	3109.5	SGR	2137.2	SG3	299.9														

RRT	-.9558	RRF	.9946	RTF	-.9712														

SGB	3773.2	R23	-.1334	R13	.9881														

SG1	3736.7	SG2	523.0	THA	145.94														

ORBIT DETERMINATION ACCURACY

ST	1508.0	SR	1303.7	SS	1545.2														

CRT	-.9809	CRS	-1.0000	CST	.9793														

LSA	2510.6	MSA	241.8	SSA	5.5														

EL1	1984.1	EL2	192.6	ALF	139.24														

LAUNCH DATE SEP 13 1965 FLIGHT TIME 152.00 ARRIVAL DATE FEB 12 1966

HELIOCENTRIC CONIC DISTANCE 389.690

RL	150.51	LAL	.00	LOL	350.00	VL	27.028	GAL	6.06	AZL	78.84	HCA	162.69	SMA	128.47	ECC	.20059	INC	11.1648
RP	107.53	LAP	3.30	LOP	153.00	VP	37.887	GAP	-6.80	AZP	100.67	TAL	154.31	TAP	317.00	RCA	102.70	APO	154.24
RC	46.516	GL	48.35	GP	-56.97	ZAL	61.59	ZAP	59.10	ETS	63.33	ZAE	111.93	ETE	282.60	ZAC	81.53	ETC	133.11

V1	29.604	V2	35.242	CLP	-19.59														

PLANETOCENTRIC CONIC

C3	48.515	VHL	6.965	DLA	28.09	RAL	296.09	RAD	6568.8	VEL	13.034	PTH	2.38	VHP	8.913	DPA	-70.98	RAP	358.50

ECC	1.7984																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	2 10 46	3654.28	-16.61	140.56	180.39	66.74	3 11 40	3054.3	-19.62	133.18
90.00	1 7 31	3859.57	-10.72	152.76	177.59	63.63	2 11 51	3259.6	-14.18	145.78
100.00	4 27 31	3213.41	-22.17	110.49	182.76	69.42	5 21 4	2613.4	-24.77	102.66
100.00	1 33 27	3775.68	-5.43	143.77	174.76	60.56	2 36 23	3175.7	-9.31	137.14
110.00	6 41 8	2795.16	-30.08	81.74	185.76	72.95	7 27 43	2195.2	-32.12	73.12
110.00	1 36 19	3766.68	1.68	138.69	170.35	55.85	2 39 6	3166.7	-2.81	132.49

DIFFERENTIAL CORRECTIONS

TDE	-1.7107	TRA	-3.0660	TC3	-.0847	BAU	.1741												

RDE	1.7902	RRA	1.9597	RC3	-.2547	FAU	.00649												

FDE	2.2727	FRA	2.5897	FC3	-.1158	BSP	12425												

BDE	2.4761	BRA	3.6388	BC3	.2685	FSP	-807												

MID-COURSE EXECUTION ACCURACY

SGT	3188.6	SGR	2373.5	SG3	264.2														

RRT	-.9585	RRF	.9951	RTF	-.9758														

SGB	3975.0	R23	-.1093	R13	.9921														

SG1	3937.0	SG2	547.8	THA	143.68														

ORBIT DETERMINATION ACCURACY

ST	1648.0	SR	1571.3	SS	1544.0														

CRT	-.9818	CRS	-.9999	CST	.9842														

LSA	2740.3	MSA	243.6	SSA	4.3														

EL1	2266.7	EL2	217.1	ALF	136.39														

LAUNCH DATE SEP 13 1965 FLIGHT TIME 154.00 ARRIVAL DATE FEB 14 1966

HELIOCENTRIC CONIC DISTANCE 396.286

RL	150.51	LAL	.00	LOL	350.00	VL	27.076	GAL	5.92	AZL	76.20	HCA	165.86	SMA	128.80	ECC	.19682	INC	13.8015
RP	107.55	LAP	3.34	LOP	156.25	VP	37.916	GAP	-6.25	AZP	103.40	TAL	154.34	TAP	320.20	RCA	103.45	APO	154.15
RC	47.916	GL	53.59	GP	-64.07	ZAL	65.97	ZAP	65.36	ETS	66.59	ZAE	104.49	ETE	287.16	ZAC	88.16	ETC	137.03

V1	29.604	V2	35.236	CLP	-17.54														

PLANETOCENTRIC CONIC

C3	63.727	VHL	7.983	DLA	32.76	RAL	292.82	RAD	6569.2	VEL	13.604	PTH	2.49	VHP	10.136	DPA	-72.63	RAP	22.29

ECC	2.0488																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
72.79	23 10 2	4246.35	-13.49	182.97	180.95	59.86	24 20 49	3646.3	-17.39	176.14
107.21	3 38 13	3401.67	-13.47	120.25	180.94	59.85	4 34 54	2801.7	-17.38	113.42
72.79	23 10 2	4246.35	-13.49	182.97	180.95	59.86	24 20 49	3646.3	-17.39	176.14
107.21	3 38 13	3401.67	-13.47	120.25	180.94	59.85	4 34 54	2801.7	-17.38	113.42
110.00	5 10 6	3118.75	-21.69	103.09	185.64	62.90	6 2 5	2518.7	-25.14	95.64
110.00	2 41 15	3577.26	-5.55	128.79	175.94	56.22	3 40 52	2977.3	-9.95	122.46

DIFFERENTIAL CORRECTIONS

TDE	-2.3389	TRA	-3.4075	TC3	-.1054	BAU	.1592												

RDE	2.3939	RRA	2.0965	RC3	-.1544	FAU	.00032												

FDE	2.2726	FRA	2.2492	FC3	-.0044	BSP	13064												

BDE	3.3468	BRA	4.0008	BC3	.1869	FSP	-675												

MID-COURSE EXECUTION ACCURACY

SGT	3362.2	SGR	2492.9	SG3	217.6														

RRT	-.9600	RRF	.9935	RTF	-.9823														

SGB	4185.6	R23	-.0818	R13	.9954														

SG1	4147.2	SG2	565.6	THA	143.77														

ORBIT DETERMINATION ACCURACY

ST	1891.9	SR	1800.1	SS	1514.9														

CRT	-.9844	CRS	-.9993	CST	.9902														

LSA	3009.3	MSA	241.4	SSA	3.2														

EL1	2601.3	EL2	230.0	ALF	136.45														

LAUNCH DATE SEP 13 1965 FLIGHT TIME 156.00 ARRIVAL DATE FEB 16 1966

HELIOCENTRIC CONIC DISTANCE 402.809

RL	150.51	LAL	.00	LOL	350.00	VL	27.120	GAL	5.80	AZL	72.10	HCA	168.98	SMA	129.09	ECC	.19351	INC	17.9048
RP	107.56	LAP	3.37	LOP	159.50	VP	37.942	GAP	-5.71	AZP	107.60	TAL	154.34	TAP	323.31	RCA	104.11	APO	154.07
RC	49.420	GL	58.59	GP	-71.30	ZAL	70.78	ZAP	71.58	ETS	75.97	ZAE	96.35	ETE	297.87	ZAC	95.62	ETC	147.68

V1	29.604	V2	35.230	CLP	-9.84														

PLANETOCENTRIC CONIC

C3	94.460	VHL	9.719	DLA	37.01	RAL	288.55	RAD	6569.8	VEL	14.690	PTH	2.66	VHP	12.318	DPA	-70.61	RAP	48.10

ECC	2.5546																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
65.10	22 8 9	4472.71	-11.51	199.48	182.89	54.58	23 22 42	3872.7	-16.06	193.12
114.90	4 6 2	3356.58	-11.50	115.40	182.88	54.57	5 1 59	2756.6	-16.05	109.04
65.10	22 8 9	4472.71	-11.51	199.48	182.89	54.58	23 22 42	3872.7	-16.06	193.12
114.90	4 6 2	3356.58	-11.50	115.40	182.88	54.57	5 1 59	2756.6	-16.05	109.04
65.10	22 8 9	4472.71	-11.51	199.48	182.89	54.58	23 22 42	3872.7	-16.06	193.12
114.90	4 6 2	3356.58	-11.50	115.40	182.88	54.57	5 1 59	2756.6	-16.05	109.04

DIFFERENTIAL CORRECTIONS

TDE	-3.8025	TRA	-4.1757	TC3	-.1446	BAU	.1940												

RDE	2.8765	RRA	1.7914	RC3	-.0520	FAU	-.00673												

FDE	2.2413	FRA	1.8967	FC3	.0616	BSP	13662												

BDE	4.7679	BRA	4.5438	BC3	.1537	FSP	-524												

MID-COURSE EXECUTION ACCURACY

SGT	3822.0	SGR	2152.9	SG3	166.7														

RRT	-.9540	RRF	.9826	RTF	-.9918														

SGB	4386.7	R23	-.0500	R13	.9980														

SG1	4349.9	SG2	566.9	THA	151.21														

ORBIT DETERMINATION ACCURACY

ST	2424.9	SR	1741.6	SS	1475.6														

CRT	-.9870	CRS	-.9970	CST	.9965														

LSA	3322.2	MSA	231.3	SSA	2.4														

EL1	2976.8	EL2	228.2	ALF	144.43														

LAUNCH DATE SEP 13 1965 FLIGHT TIME 158.00 ARRIVAL DATE FEB 18 1966

DISTANCE 409.196

HELIOCENTRIC CONIC

RL	150.51	LAL	.00	LOL	350.00	VL	27.158	GAL	5.71	AZL	64.88	HCA	172.00	SMA	129.36	ECC	.19075	INC	25.1171
RP	107.58	LAP	3.39	LOP	162.74	VP	37.963	GAP	-5.23	AZP	114.90	TAL	154.26	TAP	326.26	RCA	104.68	APO	154.03
RC	51.018	GL	62.27	GP	-76.96	ZAL	75.87	ZAP	77.44	ETS	110.01	ZAE	87.19	ETE	333.19	ZAC	104.49	ETC	183.62

V1	29.604																		
V2	35.224																		
CLP	15.49																		

PLANETOCENTRIC CONIC

C3	167.931	VHL	12.959	DLA	39.80	RAL	282.91	RAD	6570.8	VEL	17.008	PTH	2.92	VHP	16.473	DPA	-64.36	RAP	66.99

ECC	3.7637																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
60.78	21 24 27	4646.13	-7.47	210.69	183.87	50.80	22 41 53	4046.1	-12.47	204.76
119.22	4 4 45	3407.52	-7.45	116.48	183.86	50.79	5 1 32	2807.5	-12.46	110.56
60.78	21 24 27	4646.13	-7.47	210.69	183.87	50.80	22 41 53	4046.1	-12.47	204.76
119.22	4 4 45	3407.52	-7.45	116.48	183.86	50.79	5 1 32	2807.5	-12.46	110.56
60.78	21 24 27	4646.13	-7.47	210.69	183.87	50.80	22 41 53	4046.1	-12.47	204.76
119.22	4 4 45	3407.52	-7.45	116.48	183.86	50.79	5 1 32	2807.5	-12.46	110.56

DIFFERENTIAL CORRECTIONS

TDE	-7.2825	TRA	-5.3046	TC3	-.2129	BAU	.5020												
RDE	-.3172	RRA	-1.3566	RC3	-.0685	FAU	-.01575												
FDE	2.2699	FRA	1.6343	FC3	.0812	BSP	14034												
BDE	7.2894	BRA	5.4753	BC3	.2236	FSP	-381												

MID-COURSE EXECUTION ACCURACY

SGT	4471.0	SGR	812.8	SG3	120.2														
RRT	.8070	RRF	-.8067	RTF	-.9996														
SGB	4544.3	R23	.0155	R13	-.9995														
SG1	4519.4	SG2	474.9	THA	8.44														

ORBIT DETERMINATION ACCURACY

ST	3347.6	SR	273.0	SS	1483.8														
CRT	.7288	CRS	.7267	CST	1.0000														
LSA	3667.1	MSA	186.8	SSA	1.7														
EL1	3353.5	EL2	186.6	ALF	3.41														

LAUNCH DATE SEP 13 1965 FLIGHT TIME 160.00 ARRIVAL DATE FEB 20 1966

DISTANCE 415.242

HELIOCENTRIC CONIC

RL	150.51	LAL	.00	LOL	350.00	VL	27.193	GAL	5.70	AZL	49.68	HCA	174.75	SMA	129.59	ECC	.18882	INC	40.3208
RP	107.61	LAP	3.39	LOP	165.99	VP	37.981	GAP	-4.83	AZP	130.20	TAL	153.97	TAP	328.72	RCA	105.12	APO	154.06
RC	52.701	GL	61.49	GP	-73.71	ZAL	80.87	ZAP	82.48	ETS	164.81	ZAE	75.62	ETE	28.36	ZAC	116.90	ETC	240.56

V1	29.604																		
V2	35.216																		
CLP	62.21																		

PLANETOCENTRIC CONIC

C3	397.017	VHL	19.925	DLA	38.23	RAL	275.70	RAD	6572.1	VEL	22.767	PTH	3.27	VHP	25.464	DPA	-52.91	RAP	77.40

ECC	7.5339																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
63.16	21 7 4	4727.88	-2.44	213.45	182.62	51.83	22 25 52	4127.9	-7.36	207.54
116.84	3 24 38	3554.34	-2.42	124.68	182.61	51.83	4 23 52	2954.3	-7.34	118.77
63.16	21 7 4	4727.88	-2.44	213.45	182.62	51.83	22 25 52	4127.9	-7.36	207.54
116.84	3 24 38	3554.34	-2.42	124.68	182.61	51.83	4 23 52	2954.3	-7.34	118.77
63.16	21 7 4	4727.88	-2.44	213.45	182.62	51.83	22 25 52	4127.9	-7.36	207.54
116.84	3 24 38	3554.34	-2.42	124.68	182.61	51.83	4 23 52	2954.3	-7.34	118.77

DIFFERENTIAL CORRECTIONS

TDE	-6.5114	TRA	-2.4082	TC3	-.1521	BAU	1.6209												
RDE	-10.0961	RRA	-6.9880	RC3	-.2648	FAU	-.03384												
FDE	2.5997	FRA	1.6545	FC3	.0738	BSP	14107												
BDE	12.0138	BRA	7.3913	BC3	.3054	FSP	-279												

MID-COURSE EXECUTION ACCURACY

SGT	2156.5	SGR	4010.7	SG3	86.9														
RRT	.9632	RRF	-.9987	RTF	-.9734														
SGB	4553.7	R23	-.0171	R13	-.9995														
SG1	4524.6	SG2	513.9	THA	62.23														

ORBIT DETERMINATION ACCURACY

ST	1891.1	SR	3003.1	SS	1692.7														
CRT	.9930	CRS	.9998	CST	.9952														
LSA	3927.3	MSA	189.9	SSA	1.7														
EL1	3543.8	EL2	188.8	ALF	57.88														

LAUNCH DATE SEP 13 1965 FLIGHT TIME 162.00 ARRIVAL DATE FEB 22 1966

DISTANCE 420.105

HELIOCENTRIC CONIC

RL	150.51	LAL	.00	LOL	350.00	VL	27.224	GAL	5.90	AZL	12.66	HCA	176.53	SMA	129.80	ECC	.18909	INC	77.3405
RP	107.63	LAP	3.39	LOP	169.24	VP	37.996	GAP	-4.72	AZP	167.32	TAL	152.94	TAP	329.47	RCA	105.26	APO	154.35
RC	54.462	GL	47.88	GP	-53.84	ZAL	84.75	ZAP	85.89	ETS	180.12	ZAE	58.10	ETE	38.39	ZAC	139.06	ETC	256.11

V1	29.604																		
V2	35.208																		
CLP	83.03																		

PLANETOCENTRIC CONIC

C3	1268.795	VHL	35.620	DLA	24.45	RAL	268.41	RAD	6573.1	VEL	37.284	PTH	3.54	VHP	45.729	DPA	-30.90	RAP	81.06

ECC	21.8812																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	1 58 13	3785.05	-12.94	148.40	185.63	64.59	3 1 18	3185.0	-16.26	141.30
90.00	21 35 19	4644.31	13.86	197.30	173.20	65.06	22 52 43	4044.3	10.38	190.35
100.00	3 40 36	3455.00	-15.65	125.46	186.98	64.20	4 38 11	2855.0	-18.99	118.26
100.00	22 35 38	4449.59	16.58	181.67	171.88	64.77	23 49 47	3849.6	13.05	174.67
110.00	5 29 43	3113.60	-21.84	102.77	190.22	63.03	6 21 36	2513.6	-25.28	95.31
110.00	23 3 0	4363.75	22.81	171.99	168.70	63.82	24 15 44	3763.8	19.11	164.81

DIFFERENTIAL CORRECTIONS

TDE	-7.1164	TRA	-.7136	TC3	-.1186	BAU	5.2485												
RDE	-15.4203	RRA	-10.7866	RC3	-.2858	FAU	-.09579												
FDE	3.3961	FRA	2.3956	FC3	.0654	BSP	11897												
BDE	16.9832	BRA	10.8102	BC3	.3094	FSP	-223												

MID-COURSE EXECUTION ACCURACY

SGT	1428.3	SGR	3732.3	SG3	72.0														
RRT	.9004	RRF	-.9999	RTF	-.9008														
SGB	3996.2	R23	-.0512	R13	-.9986														
SG1	3952.9	SG2	586.8	THA	70.54														

ORBIT DETERMINATION ACCURACY

ST	1145.6	SR	2546.2	SS	2216.6														
CRT	.9813	CRS	1.0000	CST	.9810														
LSA	3558.7	MSA	209.8	SSA	1.6														
EL1	2784.7	EL2	201.4	ALF	66.04														

LAUNCH DATE SEP 13 1965 FLIGHT TIME 164.00 ARRIVAL DATE FEB 24 1966

DISTANCE 431.937

HELIOCENTRIC CONIC

RL	150.51	LAL	.00	LOL	350.00	VL	27.251	GAL	4.90	AZL	143.72	HCA	184.19	SMA	129.99	ECC	.17895	INC	53.7207
RP	107.66	LAP	3.38	LOP	172.48	VP	38.007	GAP	-2.91	AZP	36.35	TAL	156.40	TAP	340.59	RCA	106.73	APO	153.25
RC	56.291	GL	-57.73	GP	66.96	ZAL	83.82	ZAP	86.41	ETS	197.02	ZAE	82.61	ETE	324.26	ZAC	98.32	ETC	110.42

V1	29.604																		
V2	35.200																		
CLP	80.80																		

PLANETOCENTRIC CONIC

C3	670.033	VHL	25.885	DLA	-81.15	RAL	275.68	RAD	6572.6	VEL	28.130	PTH	3.42	VHP	33.374	DPA	80.28	RAP	348.76

ECC	12.0270																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
10.07	6 35 54	2439.69	1.05	84.28	185.50	171.14	7 16 34	1839.7	8.96	83.46
169.93	17 55 37	638.47	1.06	281.44	185.53	171.14	18 6 16	38.5	8.96	280.61
10.07	6 35 54	2439.69	1.05	84.28	185.50	171.14	7 16 34	1839.7	8.96	83.46
169.93	17 55 37	638.47	1.06	281.44	185.53	171.14	18 6 16	38.5	8.96	280.61
10.07	6 35 54	2439.69	1.05	84.28	185.50	171.14	7 16 34	1839.7	8.96	83.46
169.93	17 55 37	638.47	1.06	281.44	185.53	171.14	18 6 16	38.5	8.96	280.61

DIFFERENTIAL CORRECTIONS

TDE	10.2609	TRA	-.7184	TC3	-.1876	BAU	3.0434												
RDE	-10.6628	RRA	1.6934	RC3	.2832	FAU	-.05234												
FDE	-3.1036	FRA	.3909	FC3	.0676	BSP	14074												
BDE	14.7980	BRA	1.8395	BC3	.3398	FSP	-255												

MID-COURSE EXECUTION ACCURACY

SGT	2677.6	SGR	3694.6	SG3	82.4														
RRT	-.9402	RRF	.9938	RTF	-.9711														
SGB	4562.8	R23	-.0095	R13	.9996														
SG1	4501.0	SG2	748.9	THA	125.40														

ORBIT DETERMINATION ACCURACY

ST	2292.5	SR	2471.0	SS	2039.9														
CRT	-.9865	CRS	-.9982	CST	.9945														
LSA	3930.1	MSA	277.8	SSA	2.1														
EL1	3359.3	EL2	276.3	ALF	132.82														

LAUNCH DATE SEP 13 1965 FLIGHT TIME 166.00 ARRIVAL DATE FEB 26 1966

HELIOCENTRIC CONIC DISTANCE 437.557

RL	150.51	LAL	.00	LOL	350.00	VL	27.274	GAL	4.99	AZL	120.41	HCA	186.63	SMA	130.15	ECC	.17847	INC	30.4094
RP	107.69	LAP	3.35	LOP	175.72	VP	38.015	GAP	-2.64	AZP	59.76	TAL	155.80	TAP	342.43	RCA	106.93	APO	153.38
RC	58.184	GL	-63.73	GP	80.64	ZAL	79.35	ZAP	84.42	ETS	231.87	ZAE	95.40	ETE	355.33	ZAC	83.36	ETC	140.92

V1	29.604	CLP	53.29																
V2	35.191																		

PLANETOCENTRIC CONIC

C3	235.228	VHL	15.337	DLA	-83.23	RAL	342.18	RAD	6571.4	VEL	18.882	PTH	3.07	VHP	19.703	DPA	70.55	RAP	299.38
ECC	4.8713																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
7.69	10 56 37	2338.02	8.09	85.06	251.21	173.17	11 35 35	1738.0	16.03	84.49
172.31	22 25 29	5820.27	8.09	257.84	251.23	173.17	24 2 29	5220.3	16.03	257.27
7.69	10 56 37	2338.02	8.09	85.06	251.21	173.17	11 35 35	1738.0	16.03	84.49
172.31	22 25 29	5820.27	8.09	257.84	251.23	173.17	24 2 29	5220.3	16.03	257.27
7.69	10 56 37	2338.02	8.09	85.06	251.21	173.17	11 35 35	1738.0	16.03	84.49
172.31	22 25 29	5820.27	8.09	257.84	251.23	173.17	24 2 29	5220.3	16.03	257.27

DIFFERENTIAL CORRECTIONS

TDE	-2.3167	TRA	-1.3821	TC3	-.2518	BAU	.9110												
RDE	2.7640	RRA	.5722	RC3	.1432	FAU	-.01781												
FDE	.8818	FRA	.3876	FC3	.0656	BSP	15462												
BDE	3.6065	BRA	1.4959	BC3	.2897	FSP	-348												

MID-COURSE EXECUTION ACCURACY

SGT	4533.0	SGR	2133.2	SG3	111.3														
RRT	-.9497	RRF	.9673	RTF	-.9977														
SGB	5009.8	R23	-.0077	R13	.9997														
SG1	4972.7	SG2	609.2	THA	155.53														

ORBIT DETERMINATION ACCURACY

ST	1574.1	SR	1167.3	SS	841.7														
CRT	-.8759	CRS	-.9372	CST	.9892														
LSA	2081.2	MSA	466.1	SSA	1.5														
EL1	1903.5	EL2	465.7	ALF	144.55														

LAUNCH DATE SEP 13 1965 FLIGHT TIME 168.00 ARRIVAL DATE FEB 28 1966

HELIOCENTRIC CONIC DISTANCE 443.726

RL	150.51	LAL	.00	LOL	350.00	VL	27.294	GAL	5.00	AZL	110.38	HCA	189.55	SMA	130.29	ECC	.17746	INC	20.3836
RP	107.72	LAP	3.31	LOP	178.96	VP	38.021	GAP	-2.23	AZP	69.88	TAL	155.57	TAP	345.12	RCA	107.17	APO	153.42
RC	60.133	GL	-62.17	GP	82.90	ZAL	74.62	ZAP	83.03	ETS	281.57	ZAE	103.09	ETE	42.23	ZAC	74.97	ETC	186.10

V1	29.604	CLP	-10.97																
V2	35.181																		

PLANETOCENTRIC CONIC

C3	114.679	VHL	10.709	DLA	-78.57	RAL	349.10	RAD	6570.2	VEL	15.363	PTH	2.75	VHP	13.635	DPA	62.42	RAP	292.58
ECC	2.8873																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
13.01	11 34 32	2208.38	16.22	80.61	255.72	168.09	12 11 20	1608.4	24.04	79.22
166.99	22 42 46	5702.63	16.23	258.51	255.74	168.09	24 17 49	5102.6	24.05	257.13
13.01	11 34 32	2208.38	16.22	80.61	255.72	168.09	12 11 20	1608.4	24.04	79.22
166.99	22 42 46	5702.63	16.23	258.51	255.74	168.09	24 17 49	5102.6	24.05	257.13
13.01	11 34 32	2208.38	16.22	80.61	255.72	168.09	12 11 20	1608.4	24.04	79.22
166.99	22 42 46	5702.63	16.23	258.51	255.74	168.09	24 17 49	5102.6	24.05	257.13

DIFFERENTIAL CORRECTIONS

TDE	-3.6412	TRA	-1.5434	TC3	-.1760	BAU	.2698												
RDE	-.6850	RRA	-.8101	RC3	.0005	FAU	-.00388												
FDE	1.3135	FRA	.6286	FC3	.0293	BSP	15984												
BDE	3.7051	BRA	1.7430	BC3	.1760	FSP	-503												

MID-COURSE EXECUTION ACCURACY

SGT	4616.1	SGR	2218.0	SG3	158.8														
RRT	.9602	RRF	-.9739	RTF	-.9979														
SGB	5121.3	R23	-.0047	R13	-.9994														
SG1	5090.4	SG2	561.9	THA	25.09														

ORBIT DETERMINATION ACCURACY

ST	2314.9	SR	751.7	SS	1022.4														
CRT	.8819	CRS	.9071	CST	.9984														
LSA	2617.8	MSA	340.7	SSA	2.1														
EL1	2410.0	EL2	340.4	ALF	16.31														

LAUNCH DATE SEP 13 1965 FLIGHT TIME 170.00 ARRIVAL DATE MAR 2 1966

HELIOCENTRIC CONIC DISTANCE 450.051

RL	150.51	LAL	.00	LOL	350.00	VL	27.311	GAL	5.00	AZL	105.11	HCA	192.62	SMA	130.41	ECC	.17648	INC	15.1109
RP	107.75	LAP	3.27	LOP	182.20	VP	38.024	GAP	-1.78	AZP	75.24	TAL	155.43	TAP	348.06	RCA	107.40	APO	153.43
RC	62.133	GL	-58.31	GP	79.14	ZAL	70.09	ZAP	82.48	ETS	309.43	ZAE	108.59	ETE	67.68	ZAC	69.09	ETC	209.41

V1	29.604	CLP	-46.05																
V2	35.171																		

PLANETOCENTRIC CONIC

C3	69.480	VHL	8.335	DLA	-73.93	RAL	343.83	RAD	6569.3	VEL	13.814	PTH	2.52	VHP	10.463	DPA	56.43	RAP	290.33
ECC	2.1435																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
18.33	11 24 10	2088.19	23.11	74.74	246.75	162.48	11 58 58	1488.2	30.71	72.36
161.67	22 11 3	5601.13	23.11	257.92	246.78	162.48	23 44 24	5001.1	30.72	255.55
18.33	11 24 10	2088.19	23.11	74.74	246.75	162.48	11 58 58	1488.2	30.71	72.36
161.67	22 11 3	5601.13	23.11	257.92	246.78	162.48	23 44 24	5001.1	30.72	255.55
18.33	11 24 10	2088.19	23.11	74.74	246.75	162.48	11 58 58	1488.2	30.71	72.36
161.67	22 11 3	5601.13	23.11	257.92	246.78	162.48	23 44 24	5001.1	30.72	255.55

DIFFERENTIAL CORRECTIONS

TDE	-1.9742	TRA	-1.1256	TC3	-.0956	BAU	.1277												
RDE	-1.3995	RRA	-1.6117	RC3	.0988	FAU	.00585												
FDE	1.1938	FRA	.9807	FC3	-.0729	BSP	16204												
BDE	2.4199	BRA	1.9658	BC3	.1375	FSP	-709												

MID-COURSE EXECUTION ACCURACY

SGT	3110.6	SGR	4118.5	SG3	222.2														
RRT	.9726	RRF	-.9960	RTF	-.9871														
SGB	5161.2	R23	-.0054	R13	-.9991														
SG1	5128.4	SG2	580.5	THA	53.15														

ORBIT DETERMINATION ACCURACY

ST	1595.1	SR	1538.3	SS	993.1														
CRT	.9421	CRS	.9859	CST	.9849														
LSA	2398.9	MSA	376.8	SSA	2.9														
EL1	2183.7	EL2	376.7	ALF	43.90														

LAUNCH DATE SEP 13 1965 FLIGHT TIME 172.00 ARRIVAL DATE MAR 4 1966

HELIOCENTRIC CONIC DISTANCE 456.428

RL	150.51	LAL	.00	LOL	350.00	VL	27.325	GAL	4.99	AZL	101.89	HCA	195.76	SMA	130.51	ECC	.17567	INC	11.8943
RP	107.78	LAP	3.21	LOP	185.43	VP	38.024	GAP	-1.33	AZP	78.54	TAL	155.32	TAP	351.08	RCA	107.59	APO	153.44
RC	64.180	GL	-53.83	GP	74.97	ZAL	65.91	ZAP	82.78	ETS	324.38	ZAE	112.88	ETE	80.63	ZAC	64.35	ETC	219.96

V1	29.604	CLP	-61.04																
V2	35.160																		

PLANETOCENTRIC CONIC

C3	48.308	VHL	6.950	DLA	-69.37	RAL	338.51	RAD	6568.8	VEL	13.026	PTH	2.38	VHP	8.564	DPA	51.59	RAP	288.94
ECC	1.7950																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
23.60	11 14 2	1986.56	28.04	67.88	236.93	156.47	11 47 8	1386.6	35.32	64.39
156.40	21 38 46	5525.16	28.05	256.51	236.95	156.47	23 10 51	4925.2	35.33	253.02
23.60	11 14 2	1986.56	28.04	67.88	236.93	156.47	11 47 8	1386.6	35.32	64.39
156.40	21 38 46	5525.16	28.05	256.51	236.95	156.47	23 10 51	4925.2	35.33	253.02
23.60	11 14 2	1986.56	28.04	67.88	236.93	156.47	11 47 8	1386.6	35.32	64.39
156.40	21 38 46	5525.16	28.05	256.51	236.95	156.47	23 10 51	4925.2	35.33	253.02

DIFFERENTIAL CORRECTIONS

TDE	-1.1451	TRA	-.7529	TC3	-.0943	BAU	.1953												
RDE	-1.1281	RRA	-1.9914	RC3	.2874	FAU	.01461												
FDE	1.0798	FRA	1.4169	FC3	-.2619	BSP	16256												
BDE	1.6074	BRA	2.1290	BC3	.3025	FSP	-955												

MID-COURSE EXECUTION ACCURACY

SGT	2002.5	SGR	4767.1	SG3	298.2														
RRT	.9459	RRF	-.9976	RTF	-.9593														
SGB	5170.6	R23	.0009	R13	-.9988														
SG1	5135.3	SG2	603.1	THA	68.01														

ORBIT DETERMINATION ACCURACY

ST	1081.8	SR	1678.7	SS	987.5														
CRT	.8900	CRS	.9898	CST	.9459														
LSA	2187.1	MSA	424.4	SSA	3.8														
EL1	1951.5	EL2	424.3	ALF	58.51														

LAUNCH DATE SEP 13 1965 FLIGHT TIME 174.00 ARRIVAL DATE MAR 6 1966

HELIOCENTRIC CONIC DISTANCE 462.818

RL 150.51 LAL .00 LOL 350.00 VL 27.337 GAL 4.99 AZL 99.73 HCA 198.92 SMA 130.59 ECC .17507 INC 9.7284 V1 29.604
RP 107.81 LAP 3.14 LOP 188.67 VP 38.022 GAP -.87 AZP 80.79 TAL 155.20 TAP 354.12 RCA 107.73 APO 153.45 V2 35.149
RC 66.268 GL -49.30 GP 71.15 ZAL 62.12 ZAP 83.87 ETS 334.66 ZAE 116.36 ETE 89.43 ZAC 60.22 ETC 226.08 CLP -70.72

PLANETOCENTRIC CONIC

C3 36.847 VHL 6.070 DLA -64.95 RAL 334.31 RAD 6568.4 VEL 12.578 PTH 2.28 VHP 7.320 DPA 47.41 RAP 287.67 ECC 1.6064

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
28.75	11 8 44	1901.91	31.13	60.53	227.90	150.35	11 40 26	1301.9	37.99	55.94
151.25	21 10 30	5473.36	31.14	254.77	227.92	150.35	22 41 44	4873.4	37.99	250.18
28.75	11 8 44	1901.91	31.13	60.53	227.90	150.35	11 40 26	1301.9	37.99	55.94
151.25	21 10 30	5473.36	31.14	254.77	227.92	150.35	22 41 44	4873.4	37.99	250.18
28.75	11 8 44	1901.91	31.13	60.53	227.90	150.35	11 40 26	1301.9	37.99	55.94
151.25	21 10 30	5473.36	31.14	254.77	227.92	150.35	22 41 44	4873.4	37.99	250.18

DIFFERENTIAL CORRECTIONS

TDE -.7365 TRA -.4211 TC3 -.1546 BAU .2556
RDE -.8629 RRA-2.2058 RC3 .4952 FAU .02317
FDE 1.0201 FRA 1.9172 FC3 -.5445 BSP 16253
BDE 1.1344 BRA 2.2456 BC3 .5188 FSP -1232

MID-COURSE EXECUTION ACCURACY

SGT 1183.0 SGR 5020.2 SG3 382.8
RRT .8535 RRF -.9979 RTF -.8694
SGB 5157.7 R23 .0099 R13 -.9985
SG1 5122.2 SG2 604.2 THA 78.47

ORBIT DETERMINATION ACCURACY

ST 750.1 SR 1685.1 SS 1014.1
CRT .7765 CRS .9903 CST .8566
LSA 2056.9 MSA 446.9 SSA 4.6
EL1 1790.0 EL2 444.9 ALF 69.62

LAUNCH DATE SEP 13 1965 FLIGHT TIME 176.00 ARRIVAL DATE MAR 8 1966

HELIOCENTRIC CONIC DISTANCE 469.206

RL 150.51 LAL .00 LOL 350.00 VL 27.346 GAL 5.00 AZL 98.17 HCA 202.10 SMA 130.65 ECC .17469 INC 8.1664 V1 29.604
RP 107.85 LAP 3.06 LOP 191.90 VP 38.018 GAP -.42 AZP 82.43 TAL 155.06 TAP 357.17 RCA 107.83 APO 153.48 V2 35.138
RC 68.394 GL -44.94 GP 67.63 ZAL 58.72 ZAP 85.67 ETS 342.86 ZAE 119.24 ETE 96.74 ZAC 56.41 ETC 230.47 CLP -78.57

PLANETOCENTRIC CONIC

C3 30.013 VHL 5.478 DLA -60.74 RAL 331.08 RAD 6568.2 VEL 12.304 PTH 2.22 VHP 6.456 DPA 43.66 RAP 286.32 ECC 1.4939

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
33.73	11 7 47	1830.19	32.74	53.12	219.95	144.47	11 38 18	1230.2	39.11	47.56
146.27	20 45 43	5441.70	32.75	253.17	219.97	144.47	22 16 25	4841.7	39.12	247.60
33.73	11 7 47	1830.19	32.74	53.12	219.95	144.47	11 38 18	1230.2	39.11	47.56
146.27	20 45 43	5441.70	32.75	253.17	219.97	144.47	22 16 25	4841.7	39.12	247.60
33.73	11 7 47	1830.19	32.74	53.12	219.95	144.47	11 38 18	1230.2	39.11	47.56
146.27	20 45 43	5441.70	32.75	253.17	219.97	144.47	22 16 25	4841.7	39.12	247.60

DIFFERENTIAL CORRECTIONS

TDE -.5036 TRA -.0993 TC3 -.2679 BAU .2972
RDE -.6886 RRA-2.3310 RC3 .6905 FAU .03150
FDE 1.0162 FRA 2.4627 FC3 -.9086 BSP 16184
BDE .8531 BRA 2.3331 BC3 .7406 FSP -1527

MID-COURSE EXECUTION ACCURACY

SGT 639.3 SGR 5095.6 SG3 472.3
RRT .3737 RRF -.9979 RTF -.3970
SGB 5135.6 R23 .0205 R13 -.9980
SG1 5101.3 SG2 592.3 THA 87.28

ORBIT DETERMINATION ACCURACY

ST 530.6 SR 1660.7 SS 1062.6
CRT .5385 CRS .9897 CST .6532
LSA 1991.9 MSA 448.1 SSA 5.5
EL1 1686.9 EL2 440.1 ALF 79.52

LAUNCH DATE SEP 13 1965 FLIGHT TIME 178.00 ARRIVAL DATE MAR 10 1966

HELIOCENTRIC CONIC DISTANCE 475.583

RL 150.51 LAL .00 LOL 350.00 VL 27.352 GAL 5.03 AZL 96.98 HCA 205.29 SMA 130.70 ECC .17455 INC 6.9816 V1 29.604
RP 107.89 LAP 2.98 LOP 195.13 VP 38.011 GAP .03 AZP 83.68 TAL 154.90 TAP .19 RCA 107.89 APO 153.51 V2 35.126
RC 70.553 GL -40.83 GP 64.31 ZAL 55.67 ZAP 88.09 ETS 349.89 ZAE 121.60 ETE 103.50 ZAC 52.77 ETC 234.07 CLP -85.59

PLANETOCENTRIC CONIC

C3 25.662 VHL 5.066 DLA -56.77 RAL 328.59 RAD 6568.0 VEL 12.126 PTH 2.17 VHP 5.834 DPA 40.16 RAP 284.87 ECC 1.4223

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
38.50	11 10 13	1767.57	33.26	45.95	213.13	139.05	11 39 41	1167.6	39.12	39.62
141.50	20 23 26	5426.31	33.27	252.00	213.15	139.04	21 53 53	4826.3	39.13	245.66
38.50	11 10 13	1767.57	33.26	45.95	213.13	139.05	11 39 41	1167.6	39.12	39.62
141.50	20 23 26	5426.31	33.27	252.00	213.15	139.04	21 53 53	4826.3	39.13	245.66
38.50	11 10 13	1767.57	33.26	45.95	213.13	139.05	11 39 41	1167.6	39.12	39.62
141.50	20 23 26	5426.31	33.27	252.00	213.15	139.04	21 53 53	4826.3	39.13	245.66

DIFFERENTIAL CORRECTIONS

TDE -.3489 TRA .2231 TC3 -.4269 BAU .3277
RDE -.5816 RRA-2.3920 RC3 .8544 FAU .03940
FDE 1.0605 FRA 3.0301 FC3-1.3291 BSP 16062
BDE .6782 BRA 2.4024 BC3 .9551 FSP -1824

MID-COURSE EXECUTION ACCURACY

SGT 744.8 SGR 5054.8 SG3 562.3
RRT -.6341 RRF -.9978 RTF .6164
SGB 5109.4 R23 .0318 R13 -.9975
SG1 5077.1 SG2 573.4 THA 95.41

ORBIT DETERMINATION ACCURACY

ST 418.3 SR 1620.7 SS 1122.5
CRT .0807 CRS .9886 CST .2295
LSA 1967.3 MSA 437.3 SSA 6.3
EL1 1621.0 EL2 416.8 ALF 88.72

LAUNCH DATE SEP 13 1965 FLIGHT TIME 180.00 ARRIVAL DATE MAR 12 1966

HELIOCENTRIC CONIC DISTANCE 481.945

RL 150.51 LAL .00 LOL 350.00 VL 27.356 GAL 5.06 AZL 96.05 HCA 208.49 SMA 130.73 ECC .17464 INC 6.0475 V1 29.604
RP 107.92 LAP 2.88 LOP 198.35 VP 38.003 GAP .48 AZP 84.68 TAL 154.71 TAP 3.20 RCA 107.90 APO 153.56 V2 35.114
RC 72.741 GL -36.99 GP 61.11 ZAL 52.96 ZAP 91.03 ETS 356.09 ZAE 123.50 ETE 110.04 ZAC 49.23 ETC 237.21 CLP -92.13

PLANETOCENTRIC CONIC

C3 22.770 VHL 4.772 DLA -53.04 RAL 326.65 RAD 6567.9 VEL 12.006 PTH 2.14 VHP 5.377 DPA 36.83 RAP 283.33 ECC 1.3747

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
43.07	11 15 24	1710.86	33.00	39.15	207.39	134.21	11 43 55	1110.9	38.37	32.26
136.93	20 2 45	5424.38	33.01	251.45	207.40	134.20	21 33 9	4824.4	38.38	244.56
43.07	11 15 24	1710.86	33.00	39.15	207.39	134.21	11 43 55	1110.9	38.37	32.26
136.93	20 2 45	5424.38	33.01	251.45	207.40	134.20	21 33 9	4824.4	38.38	244.56
43.07	11 15 24	1710.86	33.00	39.15	207.39	134.21	11 43 55	1110.9	38.37	32.26
136.93	20 2 45	5424.38	33.01	251.45	207.40	134.20	21 33 9	4824.4	38.38	244.56

DIFFERENTIAL CORRECTIONS

TDE -.2298 TRA .5469 TC3 -.6204 BAU .3525
RDE -.5148 RRA-2.4049 RC3 .9778 FAU .04668
FDE 1.1418 FRA 3.5995 FC3-1.7749 BSP 15960
BDE .5638 BRA 2.4663 BC3 1.1581 FSP -2114

MID-COURSE EXECUTION ACCURACY

SGT 1272.7 SGR 4931.7 SG3 649.0
RRT -.8967 RRF -.9976 RTF .8867
SGB 5093.3 R23 .0430 R13 -.9968
SG1 5063.7 SG2 548.7 THA 103.19

ORBIT DETERMINATION ACCURACY

ST 428.7 SR 1568.2 SS 1187.5
CRT -.4493 CRS .9871 CST -.3005
LSA 1968.8 MSA 420.5 SSA 7.1
EL1 1580.7 EL2 380.0 ALF 97.44

LAUNCH DATE SEP 13 1965 FLIGHT TIME 182.00 ARRIVAL DATE MAR 14 1966

HELIOCENTRIC CONIC DISTANCE 488.289

RL 150.51 LAL .00 LOL 350.00 VL 27.358 GAL 5.11 AZL 95.29 HCA 211.68 SMA 130.74 ECC .17497 INC 5.2883 V1 29.604
RP 107.96 LAP 2.77 LOP 201.57 VP 37.993 GAP .92 AZP 85.50 TAL 154.49 TAP 6.18 RCA 107.87 APO 153.62 V2 35.101
RC 74.954 GL -33.42 GP 57.96 ZAL 50.53 ZAP 94.38 ETS 1.57 ZAE 124.97 ETE 116.42 ZAC 45.75 ETC 240.03 CLP -98.28

PLANETOCENTRIC CONIC

C3 20.798 VHL 4.561 DLA -49.56 RAL 325.11 RAD 6567.8 VEL 11.924 PTH 2.12 VHP 5.042 DPA 33.59 RAP 281.77 ECC 1.3423

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
47.46	11 22 55	1657.58	32.21	32.73	202.63	129.95	11 50 33	1057.6	37.12	25.46
132.54	19 42 59	5433.92	32.22	251.60	202.64	129.95	21 13 33	4833.9	37.13	244.33
47.46	11 22 55	1657.58	32.21	32.73	202.63	129.95	11 50 33	1057.6	37.12	25.46
132.54	19 42 59	5433.92	32.22	251.60	202.64	129.95	21 13 33	4833.9	37.13	244.33
47.46	11 22 55	1657.58	32.21	32.73	202.63	129.95	11 50 33	1057.6	37.12	25.46
132.54	19 42 59	5433.92	32.22	251.60	202.64	129.95	21 13 33	4833.9	37.13	244.33

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.1270 TRA .8685 TC3 -.8373 BAU .3752 SGT 1854.4 SGR 4732.7 SG3 726.6 ST 529.8 SR 1499.7 SS 1250.1
RDE -.4693 RRA-2.3725 RC3 1.0582 FAU .05319 RRT -.9542 RRF -.9973 RTF .9471 CRT -.7582 CRS .9850 CST -.6345
FDE 1.2470 FRA 4.1365 FC3-2.2140 BSP 15923 SGB 5083.1 R23 .0535 R13 -.9959 LSA 1982.7 MSA 401.9 SSA 7.9
BDE .4861 BRA 2.5265 BC3 1.3494 FSP -2388 SG1 5056.5 SG2 519.4 THA 110.73 EL1 1555.3 EL2 333.1 ALF 105.73

LAUNCH DATE SEP 13 1965 FLIGHT TIME 184.00 ARRIVAL DATE MAR 16 1966

HELIOCENTRIC CONIC DISTANCE 494.611

RL 150.51 LAL .00 LOL 350.00 VL 27.358 GAL 5.18 AZL 94.66 HCA 214.88 SMA 130.75 ECC .17552 INC 4.6556 V1 29.604
RP 108.00 LAP 2.66 LOP 204.79 VP 37.982 GAP 1.36 AZP 86.18 TAL 154.24 TAP 9.12 RCA 107.80 APO 153.69 V2 35.089
RC 77.191 GL -30.10 GP 54.84 ZAL 48.37 ZAP 98.06 ETS 6.41 ZAE 126.02 ETE 122.62 ZAC 42.32 ETC 242.55 CLP-104.09

PLANETOCENTRIC CONIC

C3 19.445 VHL 4.410 DLA -46.32 RAL 323.89 RAD 6567.8 VEL 11.867 PTH 2.11 VHP 4.798 DPA 30.42 RAP 280.23 ECC 1.3200

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
51.68	11 32 33	1605.74	31.07	26.64	198.74	126.25	11 59 19	1005.7	35.56	19.13
128.32	19 23 36	5453.68	31.09	252.48	198.75	126.24	20 54 30	4853.7	35.58	244.97
51.68	11 32 33	1605.74	31.07	26.64	198.74	126.25	11 59 19	1005.7	35.56	19.13
128.32	19 23 36	5453.68	31.09	252.48	198.75	126.24	20 54 30	4853.7	35.58	244.97
51.68	11 32 33	1605.74	31.07	26.64	198.74	126.25	11 59 19	1005.7	35.56	19.13
128.32	19 23 36	5453.68	31.09	252.48	198.75	126.24	20 54 30	4853.7	35.58	244.97

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.0307 TRA 1.1837 TC3-1.0651 BAU .3965 SGT 2417.2 SGR 4481.3 SG3 792.1 ST 669.9 SR 1420.1 SS 1309.1
RDE -.4359 RRA-2.3069 RC3 1.0919 FAU .05851 RRT -.9736 RRF -.9969 RTF .9680 CRT -.8914 CRS .9824 CST -.7913
FDE 1.3685 FRA 4.6220 FC3-2.6049 BSP 15920 SGB 5091.7 R23 .0623 R13 -.9950 LSA 2007.9 MSA 383.7 SSA 8.6
BDE .4370 BRA 2.5929 BC3 1.5254 FSP -2624 SG1 5068.2 SG2 488.0 THA 117.99 EL1 1545.2 EL2 279.0 ALF 113.62

LAUNCH DATE SEP 13 1965 FLIGHT TIME 186.00 ARRIVAL DATE MAR 18 1966

HELIOCENTRIC CONIC DISTANCE 500.912

RL 150.51 LAL .00 LOL 350.00 VL 27.357 GAL 5.26 AZL 94.12 HCA 218.08 SMA 130.73 ECC .17630 INC 4.1173 V1 29.604
RP 108.04 LAP 2.54 LOP 208.01 VP 37.969 GAP 1.80 AZP 86.76 TAL 153.95 TAP 12.03 RCA 107.68 APO 153.78 V2 35.076
RC 79.446 GL -27.03 GP 51.76 ZAL 46.43 ZAP 101.95 ETS 10.64 ZAE 126.68 ETE 128.57 ZAC 38.96 ETC 244.73 CLP-109.54

PLANETOCENTRIC CONIC

C3 18.529 VHL 4.304 DLA -43.28 RAL 322.92 RAD 6567.8 VEL 11.828 PTH 2.09 VHP 4.629 DPA 27.30 RAP 278.77 ECC 1.3049

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
55.78	11 44 19	1553.47	29.72	20.76	195.59	123.05	12 10 12	953.5	33.84	13.10
124.22	19 4 4	5483.21	29.74	254.11	195.60	123.03	20 35 27	4883.2	33.85	246.45
55.78	11 44 19	1553.47	29.72	20.76	195.59	123.05	12 10 12	953.5	33.84	13.10
124.22	19 4 4	5483.21	29.74	254.11	195.60	123.03	20 35 27	4883.2	33.85	246.45
55.78	11 44 19	1553.47	29.72	20.76	195.59	123.05	12 10 12	953.5	33.84	13.10
124.22	19 4 4	5483.21	29.74	254.11	195.60	123.03	20 35 27	4883.2	33.85	246.45

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE .0637 TRA 1.4892 TC3-1.2913 BAU .4177 SGT 2942.3 SGR 4193.6 SG3 842.4 ST 821.9 SR 1331.5 SS 1362.0
RDE -.4076 RRA-2.2161 RC3 1.0846 FAU .06249 RRT -.9821 RRF -.9963 RTF .9773 CRT -.9502 CRS .9792 CST -.8673
FDE 1.4952 FRA 5.0359 FC3-2.9200 BSP 15989 SGB 5122.9 R23 .0685 R13 -.9940 LSA 2041.7 MSA 367.2 SSA 9.3
BDE .4125 BRA 2.6700 BC3 1.6864 FSP -2817 SG1 5102.6 SG2 455.9 THA 124.89 EL1 1549.2 EL2 220.1 ALF 121.09

LAUNCH DATE SEP 13 1965 FLIGHT TIME 188.00 ARRIVAL DATE MAR 20 1966

HELIOCENTRIC CONIC DISTANCE 507.190

RL 150.51 LAL .00 LOL 350.00 VL 27.353 GAL 5.35 AZL 93.65 HCA 221.28 SMA 130.71 ECC .17731 INC 3.6509 V1 29.604
RP 108.08 LAP 2.41 LOP 211.22 VP 37.954 GAP 2.23 AZP 87.25 TAL 153.63 TAP 14.91 RCA 107.53 APO 153.88 V2 35.063
RC 81.719 GL -24.17 GP 48.71 ZAL 44.69 ZAP 105.96 ETS 14.30 ZAE 126.97 ETE 134.17 ZAC 35.69 ETC 246.56 CLP-114.63

PLANETOCENTRIC CONIC

C3 17.938 VHL 4.235 DLA -40.45 RAL 322.14 RAD 6567.7 VEL 11.803 PTH 2.09 VHP 4.520 DPA 24.26 RAP 277.44 ECC 1.2952

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
59.81	11 58 21	1498.89	28.24	14.96	193.08	120.26	12 23 20	898.9	32.03	7.22
120.19	18 43 50	5522.63	28.25	256.50	193.09	120.25	20 15 53	4922.6	32.04	248.77
59.81	11 58 21	1498.89	28.24	14.96	193.08	120.26	12 23 20	898.9	32.03	7.22
120.19	18 43 50	5522.63	28.25	256.50	193.09	120.25	20 15 53	4922.6	32.04	248.77
59.81	11 58 21	1498.89	28.24	14.96	193.08	120.26	12 23 20	898.9	32.03	7.22
120.19	18 43 50	5522.63	28.25	256.50	193.09	120.25	20 15 53	4922.6	32.04	248.77

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE .1600 TRA 1.7843 TC3-1.5028 BAU .4380 SGT 3424.9 SGR 3887.9 SG3 876.7 ST 976.7 SR 1239.0 SS 1409.8
RDE -.3825 RRA-2.1102 RC3 1.0380 FAU .06473 RRT -.9862 RRF -.9956 RTF .9820 CRT -.9785 CRS .9752 CST -.9087
FDE 1.6235 FRA 5.3697 FC3-3.1243 BSP 16077 SGB 5181.3 R23 .0716 R13 -.9931 LSA 2086.2 MSA 352.9 SSA 10.0
BDE .4146 BRA 2.7635 BC3 1.8264 FSP -2945 SG1 5163.7 SG2 426.7 THA 131.33 EL1 1569.6 EL2 159.2 ALF 128.10

LAUNCH DATE SEP 13 1965 FLIGHT TIME 190.00 ARRIVAL DATE MAR 22 1966

HELIOCENTRIC CONIC DISTANCE 513.444

RL 150.51 LAL .00 LOL 350.00 VL 27.348 GAL 5.46 AZL 93.24 HCA 224.48 SMA 130.67 ECC .17855 INC 3.2407 V1 29.604
RP 108.12 LAP 2.27 LOP 214.43 VP 37.938 GAP 2.66 AZP 87.69 TAL 153.27 TAP 17.75 RCA 107.34 APO 154.00 V2 35.050
RC 84.008 GL -21.52 GP 45.75 ZAL 43.13 ZAP 110.01 ETS 17.44 ZAE 126.95 ETE 139.35 ZAC 32.55 ETC 247.97 CLP-119.37

PLANETOCENTRIC CONIC

C3 17.600 VHL 4.195 DLA -37.81 RAL 321.53 RAD 6567.7 VEL 11.789 PTH 2.08 VHP 4.462 DPA 21.31 RAP 276.27 ECC 1.2896

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
63.83	12 15 2	1439.84	26.70	9.06	191.11	117.83	12 39 2	839.8	30.19	1.29
116.17	18 22 17	5572.83	26.71	259.73	191.12	117.82	19 55 10	4972.8	30.21	251.96
63.83	12 15 2	1439.84	26.70	9.06	191.11	117.83	12 39 2	839.8	30.19	1.29
116.17	18 22 17	5572.83	26.71	259.73	191.12	117.82	19 55 10	4972.8	30.21	251.96
63.83	12 15 2	1439.84	26.70	9.06	191.11	117.83	12 39 2	839.8	30.19	1.29
116.17	18 22 17	5572.83	26.71	259.73	191.12	117.82	19 55 10	4972.8	30.21	251.96

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE .2572 TRA 2.0660 TC3-1.6949 BAU .4598 SGT 3860.1 SGR 3572.9 SG3 893.6 ST 1128.3 SR 1141.4 SS 1446.4
RDE -.3544 RRA-1.9927 RC3 .9727 FAU .06585 RRT -.9885 RRF -.9947 RTF .9848 CRT -.9925 CRS .9700 CST -.9334
FDE 1.7346 FRA 5.6079 FC3-3.2390 BSP 16305 SGB 5259.9 R23 .0707 R13 -.9922 LSA 2133.5 MSA 340.6 SSA 10.6
BDE .4379 BRA 2.8704 BC3 1.9542 FSP -3031 SG1 5244.8 SG2 398.5 THA 137.24 EL1 1602.0 EL2 98.1 ALF 134.67

LAUNCH DATE SEP 13 1965 FLIGHT TIME 192.00 ARRIVAL DATE MAR 24 1966

HELIOCENTRIC CONIC DISTANCE 519.672

RL 150.51 LAL .00 LOL 350.00 VL 27.342 GAL 5.58 AZL 92.87 HCA 227.68 SMA 130.63 ECC .18002 INC 2.8750 V1 29.604
RP 108.16 LAP 2.13 LOP 217.64 VP 37.921 GAP 3.10 AZP 88.06 TAL 152.88 TAP 20.56 RCA 107.11 APO 154.14 V2 35.036
RC 86.309 GL -19.06 GP 42.88 ZAL 41.71 ZAP 114.03 ETS 20.11 ZAE 126.65 ETE 144.05 ZAC 29.56 ETC 248.91 CLP-123.76

PLANETOCENTRIC CONIC

C3 17.468 VHL 4.179 DLA -35.33 RAL 321.05 RAD 6567.7 VEL 11.784 PTH 2.08 VHP 4.447 DPA 18.46 RAP 275.31 ECC 1.2875

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
67.93	12 35 2	1373.34	25.13	2.82	189.61	115.70	12 57 55	773.3	28.37	355.04
112.07	17 58 30	5635.85	25.14	263.93	189.62	115.69	19 32 26	5035.9	28.38	256.15
67.93	12 35 2	1373.34	25.13	2.82	189.61	115.70	12 57 55	773.3	28.37	355.04
112.07	17 58 30	5635.85	25.14	263.93	189.62	115.69	19 32 26	5035.9	28.38	256.15
67.93	12 35 2	1373.34	25.13	2.82	189.61	115.70	12 57 55	773.3	28.37	355.04
112.07	17 58 30	5635.85	25.14	263.93	189.62	115.69	19 32 26	5035.9	28.38	256.15

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE .3558 TRA 2.3352 TC3-1.8619 BAU .4821 SGT 4249.5 SGR 3262.3 SG3 894.6 ST 1275.1 SR 1043.2 SS 1473.1
RDE -.3244 RRA-1.8714 RC3 .8917 FAU .06564 RRT -.9895 RRF -.9934 RTF .9865 CRT -.9987 CRS .9634 CST -.9494
FDE 1.8271 FRA 5.7557 FC3-3.2533 BSP 16630 SGB 5357.3 R23 .0663 R13 -.9915 LSA 2185.2 MSA 330.6 SSA 11.2
BDE .4815 BRA 2.9925 BC3 2.0644 FSP -3068 SG1 5344.1 SG2 375.7 THA 142.56 EL1 1647.0 EL2 40.4 ALF 140.72

LAUNCH DATE SEP 13 1965 FLIGHT TIME 194.00 ARRIVAL DATE MAR 26 1966

HELIOCENTRIC CONIC DISTANCE 525.875

RL 150.51 LAL .00 LOL 350.00 VL 27.334 GAL 5.72 AZL 92.54 HCA 230.87 SMA 130.57 ECC .18172 INC 2.5448 V1 29.604
RP 108.20 LAP 1.97 LOP 220.84 VP 37.903 GAP 3.53 AZP 88.39 TAL 152.45 TAP 23.32 RCA 106.84 APO 154.30 V2 35.023
RC 88.623 GL -16.77 GP 40.14 ZAL 40.42 ZAP 117.95 ETS 22.39 ZAE 126.14 ETE 148.24 ZAC 26.75 ETC 249.30 CLP-127.82

PLANETOCENTRIC CONIC

C3 17.511 VHL 4.185 DLA -33.02 RAL 320.70 RAD 6567.7 VEL 11.785 PTH 2.08 VHP 4.470 DPA 15.74 RAP 274.56 ECC 1.2882

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
72.27	12 59 43	1294.30	23.57	355.86	188.51	113.82	13 21 17	694.3	26.58	348.09
107.73	17 30 57	5716.04	23.58	269.40	188.52	113.81	19 6 13	5116.0	26.59	261.63
72.27	12 59 43	1294.30	23.57	355.86	188.51	113.82	13 21 17	694.3	26.58	348.09
107.73	17 30 57	5716.04	23.58	269.40	188.52	113.81	19 6 13	5116.0	26.59	261.63
110.00	16 37 28	5880.55	17.87	279.05	185.45	119.64	18 15 29	5280.6	21.68	271.99
110.00	18 52 23	5465.83	29.54	252.58	191.06	108.04	20 23 29	4865.8	31.72	244.05

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE .4577 TRA 2.5946 TC3-1.9981 BAU .5040 SGT 4597.5 SGR 2966.9 SG3 882.5 ST 1418.0 SR 948.4 SS 1492.4
RDE -.2939 RRA-1.7527 RC3 .8016 FAU .06421 RRT -.9896 RRF -.9917 RTF .9875 CRT -.9997 CRS .9549 CST -.9605
FDE 1.9023 FRA 5.8254 FC3-3.1744 BSP 16995 SGB 5471.7 R23 .0588 R13 -.9909 LSA 2243.4 MSA 322.6 SSA 11.7
BDE .5439 BRA 3.1311 BC3 2.1529 FSP -3053 SG1 5459.9 SG2 359.3 THA 147.28 EL1 1705.8 EL2 19.2 ALF 146.23

LAUNCH DATE SEP 13 1965 FLIGHT TIME 196.00 ARRIVAL DATE MAR 28 1966

HELIOCENTRIC CONIC DISTANCE 532.050

RL 150.51 LAL .00 LOL 350.00 VL 27.324 GAL 5.88 AZL 92.24 HCA 234.07 SMA 130.51 ECC .18366 INC 2.2436 V1 29.604
RP 108.24 LAP 1.82 LOP 224.05 VP 37.884 GAP 3.96 AZP 88.68 TAL 151.99 TAP 26.06 RCA 106.54 APO 154.48 V2 35.010
RC 90.946 GL -14.65 GP 37.55 ZAL 39.25 ZAP 121.73 ETS 24.33 ZAE 125.48 ETE 151.93 ZAC 24.15 ETC 249.06 CLP-131.56

PLANETOCENTRIC CONIC

C3 17.709 VHL 4.208 DLA -30.85 RAL 320.44 RAD 6567.7 VEL 11.794 PTH 2.09 VHP 4.525 DPA 13.17 RAP 274.03 ECC 1.2915

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
77.23	13 32 20	1191.69	22.04	347.36	187.76	112.15	13 52 12	591.7	24.84	339.61
102.77	16 56 17	5823.87	22.05	276.89	187.76	112.14	18 33 20	5223.9	24.85	269.14
77.23	13 32 20	1191.69	22.04	347.36	187.76	112.15	13 52 12	591.7	24.84	339.61
102.77	16 56 17	5823.87	22.05	276.89	187.76	112.14	18 33 20	5223.9	24.85	269.14
110.00	15 50 27	742.25	12.63	309.59	182.73	122.03	16 2 49	142.2	16.78	302.92
110.00	19 37 20	5321.31	32.13	242.12	191.27	102.36	21 6 2	4721.3	33.49	233.16

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE .5613 TRA 2.8447 TC3-2.1041 BAU .5258 SGT 4906.3 SGR 2690.6 SG3 859.3 ST 1555.2 SR 857.5 SS 1502.6
RDE -.2618 RRA-1.6389 RC3 .7102 FAU .06186 RRT -.9890 RRF -.9896 RTF .9882 CRT -.9963 CRS .9440 CST -.9686
FDE 1.9549 FRA 5.8254 FC3-3.0239 BSP 17423 SGB 5595.6 R23 .0493 R13 -.9904 LSA 2304.6 MSA 316.3 SSA 12.1
BDE .6194 BRA 3.2831 BC3 2.2207 FSP -3001 SG1 5584.7 SG2 349.4 THA 151.40 EL1 1774.7 EL2 64.8 ALF 151.18

LAUNCH DATE SEP 13 1965 FLIGHT TIME 198.00 ARRIVAL DATE MAR 30 1966

HELIOCENTRIC CONIC DISTANCE 538.198

RL 150.51 LAL .00 LOL 350.00 VL 27.314 GAL 6.05 AZL 91.97 HCA 237.26 SMA 130.43 ECC .18585 INC 1.9660 V1 29.604
RP 108.29 LAP 1.65 LOP 227.24 VP 37.864 GAP 4.40 AZP 88.94 TAL 151.50 TAP 28.76 RCA 106.19 APO 154.67 V2 34.996
RC 93.279 GL -12.67 GP 35.13 ZAL 38.17 ZAP 125.35 ETS 25.99 ZAE 124.71 ETE 155.13 ZAC 21.78 ETC 248.09 CLP-135.02

PLANETOCENTRIC CONIC

C3 18.050 VHL 4.248 DLA -28.81 RAL 320.27 RAD 6567.7 VEL 11.808 PTH 2.09 VHP 4.609 DPA 10.76 RAP 273.72 ECC 1.2971

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
84.44	14 27 19	1018.08	20.54	333.85	187.31	110.66	14 44 17	418.1	23.17	326.13
95.56	15 59 56	718.30	20.55	311.89	187.31	110.65	16 11 54	118.3	23.18	304.16
100.00	15 27 34	822.50	15.31	317.19	184.94	115.99	15 41 17	222.5	18.68	310.02
100.00	17 42 22	5677.16	25.97	267.41	189.23	105.34	19 16 59	5077.2	27.83	259.10
110.00	15 19 56	846.52	8.81	315.24	181.17	123.16	15 34 3	246.5	13.11	308.78
110.00	20 6 29	5225.91	33.29	234.92	190.98	98.25	21 33 35	4625.9	34.07	225.77

DIFFERENTIAL CORRECTIONS

TDE .6708 TRA 3.0915 TC3-2.1730 BAU .5451
RDE -.2315 RRA-1.5346 RC3 .6170 FAU .05841
FDE 1.9967 FRA 5.7777 FC3-2.8016 BSP 17803
BDE .7096 BRA 3.4514 BC3 2.2589 FSP -2900

MID-COURSE EXECUTION ACCURACY

SGT 5183.5 SGR 2439.6 SG3 828.7
RRT -.9877 RRF -.9869 RTF .9885
SGB 5728.9 R23 .0400 R13 -.9900
SG1 5718.5 SG2 346.2 THA 154.97

ORBIT DETERMINATION ACCURACY

ST 1690.9 SR 774.5 SS 1509.7
CRT -.9887 CRS .9305 CST -.9747
LSA 2375.1 MSA 311.4 SSA 12.4
EL1 1856.8 EL2 105.7 ALF 155.55

LAUNCH DATE SEP 13 1965 FLIGHT TIME 200.00 ARRIVAL DATE APR 1 1966

HELIOCENTRIC CONIC DISTANCE 544.316

RL 150.51 LAL .00 LOL 350.00 VL 27.302 GAL 6.24 AZL 91.71 HCA 240.45 SMA 130.35 ECC .18828 INC 1.7079 V1 29.604
RP 108.33 LAP 1.49 LOP 230.44 VP 37.844 GAP 4.83 AZP 89.16 TAL 150.97 TAP 31.42 RCA 105.81 APO 154.89 V2 34.983
RC 95.621 GL -10.83 GP 32.88 ZAL 37.18 ZAP 128.78 ETS 27.44 ZAE 123.88 ETE 157.90 ZAC 19.65 ETC 246.26 CLP-138.22

PLANETOCENTRIC CONIC

C3 18.524 VHL 4.304 DLA -26.91 RAL 320.17 RAD 6567.7 VEL 11.828 PTH 2.09 VHP 4.718 DPA 8.51 RAP 273.64 ECC 1.3049

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	13 54 52	1130.54	13.24	338.83	184.63	115.26	14 13 43	530.5	16.54	331.70
90.00	16 31 37	618.00	25.18	306.10	189.05	103.39	16 41 55	18.0	26.78	297.80
100.00	14 42 48	975.71	10.55	326.08	183.24	118.13	14 59 4	375.7	14.23	319.22
100.00	18 26 22	5536.10	28.13	257.49	189.75	100.55	19 58 38	4936.1	29.30	248.88
110.00	14 56 40	932.17	5.59	319.78	180.24	123.78	15 12 13	332.2	9.99	313.45
110.00	20 28 59	5152.40	33.87	229.26	190.66	94.95	21 54 52	4552.4	34.18	220.03

DIFFERENTIAL CORRECTIONS

TDE .7798 TRA 3.3306 TC3-2.2185 BAU .5651
RDE -.1989 RRA-1.4373 RC3 .5345 FAU .05483
FDE 2.0125 FRA 5.6811 FC3-2.5624 BSP 18281
BDE .8048 BRA 3.6275 BC3 2.2820 FSP -2793

MID-COURSE EXECUTION ACCURACY

SGT 5426.3 SGR 2210.3 SG3 791.7
RRT -.9856 RRF -.9836 RTF .9887
SGB 5859.2 R23 .0303 R13 -.9897
SG1 5848.9 SG2 346.4 THA 158.04

ORBIT DETERMINATION ACCURACY

ST 1818.2 SR 696.2 SS 1506.3
CRT -.9763 CRS .9127 CST -.9794
LSA 2442.2 MSA 307.5 SSA 12.7
EL1 1941.8 EL2 141.0 ALF 159.39

LAUNCH DATE SEP 13 1965 FLIGHT TIME 202.00 ARRIVAL DATE APR 3 1966

HELIOCENTRIC CONIC DISTANCE 550.404

RL 150.51 LAL .00 LOL 350.00 VL 27.290 GAL 6.45 AZL 91.47 HCA 243.64 SMA 130.26 ECC .19098 INC 1.4657 V1 29.604
RP 108.37 LAP 1.31 LOP 233.63 VP 37.823 GAP 5.28 AZP 89.35 TAL 150.42 TAP 34.06 RCA 105.39 APO 155.14 V2 34.970
RC 97.969 GL -9.12 GP 30.80 ZAL 36.27 ZAP 132.01 ETS 28.72 ZAE 123.02 ETE 160.27 ZAC 17.79 ETC 243.44 CLP-141.19

PLANETOCENTRIC CONIC

C3 19.131 VHL 4.374 DLA -25.12 RAL 320.14 RAD 6567.8 VEL 11.854 PTH 2.10 VHP 4.850 DPA 6.43 RAP 273.76 ECC 1.3149

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	13 15 19	1271.23	9.02	347.01	183.47	116.95	13 36 30	671.2	12.57	340.12
90.00	17 10 56	5780.52	26.87	275.21	189.58	99.29	18 47 17	5180.5	27.88	266.69
100.00	14 13 25	1083.63	7.03	332.15	182.40	119.13	14 31 29	483.6	10.86	325.46
100.00	18 55 31	5443.35	29.10	250.77	189.95	97.14	20 26 15	4843.4	29.79	242.03
110.00	14 37 50	1007.06	2.74	323.71	179.75	124.09	14 54 37	407.1	7.20	317.45
110.00	20 47 36	5092.69	34.12	224.62	190.43	92.21	22 12 29	4492.7	34.05	215.37

DIFFERENTIAL CORRECTIONS

TDE .8920 TRA 3.5676 TC3-2.2367 BAU .5840
RDE -.1671 RRA-1.3497 RC3 .4594 FAU .05093
FDE 2.0145 FRA 5.5562 FC3-2.3046 BSP 18752
BDE .9075 BRA 3.8143 BC3 2.2834 FSP -2668

MID-COURSE EXECUTION ACCURACY

SGT 5642.1 SGR 2005.5 SG3 751.4
RRT -.9828 RRF -.9794 RTF .9887
SGB 5987.9 R23 .0217 R13 -.9894
SG1 5977.7 SG2 350.0 THA 160.68

ORBIT DETERMINATION ACCURACY

ST 1940.7 SR 625.5 SS 1498.2
CRT -.9586 CRS .8904 CST -.9831
LSA 2511.8 MSA 304.4 SSA 12.9
EL1 2031.9 EL2 170.2 ALF 162.71

LAUNCH DATE SEP 13 1965 FLIGHT TIME 204.00 ARRIVAL DATE APR 5 1966

HELIOCENTRIC CONIC DISTANCE 556.460

RL 150.51 LAL .00 LOL 350.00 VL 27.276 GAL 6.68 AZL 91.24 HCA 246.83 SMA 130.17 ECC .19395 INC 1.2367 V1 29.604
RP 108.41 LAP 1.14 LOP 236.82 VP 37.801 GAP 5.72 AZP 89.51 TAL 149.83 TAP 36.66 RCA 104.92 APO 155.41 V2 34.957
RC 100.323 GL -7.54 GP 28.90 ZAL 35.41 ZAP 135.05 ETS 29.89 ZAE 122.16 ETE 162.30 ZAC 16.22 ETC 239.55 CLP-143.94

PLANETOCENTRIC CONIC

C3 19.871 VHL 4.458 DLA -23.44 RAL 320.17 RAD 6567.8 VEL 11.885 PTH 2.11 VHP 5.003 DPA 4.51 RAP 274.08 ECC 1.3270

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 47 57	1375.67	5.75	352.94	182.98	117.77	13 10 53	775.7	9.42	346.19
90.00	17 38 32	5694.06	27.67	269.01	189.94	96.28	19 13 26	5094.1	28.25	260.39
100.00	13 50 52	1172.58	4.05	337.08	182.05	119.64	14 10 25	572.6	7.97	330.48
100.00	19 18 18	5372.38	29.59	245.55	190.14	94.44	20 47 50	4772.4	29.89	236.76
110.00	14 22 4	1074.76	.15	327.24	179.62	124.18	14 39 59	474.8	4.64	321.03
110.00	21 3 36	5042.97	34.18	220.74	190.35	89.91	22 27 38	4443.0	33.79	211.51

DIFFERENTIAL CORRECTIONS

TDE 1.0073 TRA 3.8040 TC3-2.2296 BAU .6014
RDE -.1361 RRA-1.2713 RC3 .3923 FAU .04684
FDE 2.0046 FRA 5.4121 FC3-2.0407 BSP 19221
BDE 1.0164 BRA 4.0108 BC3 2.2639 FSP -2535

MID-COURSE EXECUTION ACCURACY

SGT 5833.3 SGR 1823.5 SG3 709.5
RRT -.9790 RRF -.9744 RTF .9886
SGB 6111.6 R23 .0145 R13 -.9890
SG1 6101.3 SG2 355.6 THA 162.92

ORBIT DETERMINATION ACCURACY

ST 2058.1 SR 562.3 SS 1485.7
CRT -.9344 CRS .8623 CST -.9860
LSA 2582.2 MSA 301.8 SSA 13.1
EL1 2124.7 EL2 194.1 ALF 165.55

LAUNCH DATE SEP 13 1965 FLIGHT TIME 206.00 ARRIVAL DATE APR 7 1966

HELIOCENTRIC CONIC DISTANCE 562.482

RL 150.51 LAL .00 LOL 350.00 VL 27.262 GAL 6.93 AZL 91.02 HCA 250.01 SMA 130.07 ECC .19720 INC 1.0185 V1 29.604
RP 108.44 LAP .96 LOP 240.01 VP 37.779 GAP 6.18 AZP 89.65 TAL 149.22 TAP 39.23 RCA 104.42 APO 155.72 V2 34.945
RC 102.682 GL -6.06 GP 27.16 ZAL 34.61 ZAP 137.90 ETS 30.97 ZAE 121.32 ETE 164.02 ZAC 14.97 ETC 234.52 CLP-146.50

PLANETOCENTRIC CONIC

C3 20.748 VHL 4.555 DLA -21.87 RAL 320.25 RAD 6567.8 VEL 11.922 PTH 2.12 VHP 5.174 DPA 2.75 RAP 274.59 ECC 1.3415

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 26 35	1463.19	2.95	357.85	182.90	118.18	12 50 59	863.2	6.70	351.17
90.00	18 0 32	5627.15	28.07	264.16	190.32	93.88	19 34 19	5027.1	28.31	255.50
100.00	13 32 31	1250.42	1.42	341.36	182.05	119.86	13 53 21	650.4	5.39	334.82
100.00	19 37 18	5315.15	29.82	241.31	190.43	92.22	21 5 53	4715.1	29.81	232.51
110.00	14 8 37	1137.24	-2.23	330.50	179.77	124.12	14 27 34	537.2	2.26	324.30
110.00	21 17 41	5001.10	34.13	217.47	190.43	87.98	22 41 2	4401.1	33.47	208.29

DIFFERENTIAL CORRECTIONS
TDE 1.1262 TRA 4.0422 TC3-2.2001 BAU .6172
RDE -.1063 RRA-1.2021 RC3 .3332 FAU .04270
FDE 1.9863 FRA 5.2581 FC3-1.7817 BSP 19667
BDE 1.1312 BRA 4.2172 BC3 2.2252 FSP -2395

MID-COURSE EXECUTION ACCURACY
SGT 6003.4 SGR 1662.7 SG3 667.4
RRT -.9742 RRF -.9684 RTF .9885
SGB 6229.4 R23 .0087 R13 -.9887
SG1 6218.9 SG2 362.3 THA 164.85

ORBIT DETERMINATION ACCURACY
ST 2170.7 SR 506.8 SS 1470.3
CRT -.9029 CRS .8277 CST -.9885
LSA 2653.5 MSA 299.4 SSA 13.2
EL1 2218.9 EL2 213.1 ALF 167.98

LAUNCH DATE SEP 13 1965 FLIGHT TIME 208.00 ARRIVAL DATE APR 9 1966

HELIOCENTRIC CONIC DISTANCE 568.468

RL 150.51 LAL .00 LOL 350.00 VL 27.246 GAL 7.20 AZL 90.81 HCA 253.20 SMA 129.96 ECC .20075 INC .8092 V1 29.604
RP 108.48 LAP .77 LOP 243.19 VP 37.756 GAP 6.64 AZP 89.77 TAL 148.58 TAP 41.78 RCA 103.87 APO 156.05 V2 34.932
RC 105.043 GL -4.69 GP 25.57 ZAL 33.87 ZAP 140.56 ETS 32.02 ZAE 120.51 ETE 165.49 ZAC 14.07 ETC 228.45 CLP-148.89

PLANETOCENTRIC CONIC

C3 21.768 VHL 4.666 DLA -20.39 RAL 320.38 RAD 6567.9 VEL 11.964 PTH 2.13 VHP 5.364 DPA 1.14 RAP 275.26 ECC 1.3582

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 9 2	1540.42	.46	2.16	183.13	118.31	12 34 42	940.4	4.25	355.52
90.00	18 19 5	5573.01	28.26	260.21	190.79	91.91	19 51 58	4973.0	28.22	251.54
100.00	13 17 5	1320.79	-.96	345.22	182.34	119.88	13 39 6	720.8	3.02	338.70
100.00	19 53 43	5267.87	29.89	237.80	190.83	90.37	21 21 31	4667.9	29.62	229.00
110.00	13 56 59	1195.74	-4.46	333.56	180.16	123.93	14 16 55	595.7	.02	327.35
110.00	21 30 18	4965.68	34.01	214.71	190.69	86.35	22 53 4	4365.7	33.13	205.58

DIFFERENTIAL CORRECTIONS
TDE 1.2512 TRA 4.2866 TC3-2.1462 BAU .6299
RDE -.0783 RRA-1.1419 RC3 .2803 FAU .03841
FDE 1.9647 FRA 5.1040 FC3-1.5276 BSP 20023
BDE 1.2536 BRA 4.4361 BC3 2.1644 FSP -2245

MID-COURSE EXECUTION ACCURACY
SGT 6157.2 SGR 1521.8 SG3 626.4
RRT -.9684 RRF -.9615 RTF .9882
SGB 6342.5 R23 .0045 R13 -.9884
SG1 6331.8 SG2 369.3 THA 166.49

ORBIT DETERMINATION ACCURACY
ST 2281.0 SR 459.1 SS 1454.3
CRT -.8637 CRS .7863 CST -.9904
LSA 2727.7 MSA 297.1 SSA 13.3
EL1 2315.6 EL2 227.9 ALF 170.04

LAUNCH DATE SEP 13 1965 FLIGHT TIME 210.00 ARRIVAL DATE APR 11 1966

HELIOCENTRIC CONIC DISTANCE 574.416

RL 150.51 LAL .00 LOL 350.00 VL 27.230 GAL 7.49 AZL 90.61 HCA 256.38 SMA 129.85 ECC .20462 INC .6068 V1 29.604
RP 108.52 LAP .59 LOP 246.37 VP 37.734 GAP 7.11 AZP 89.86 TAL 147.93 TAP 44.30 RCA 103.28 APO 156.42 V2 34.920
RC 107.406 GL -3.42 GP 24.12 ZAL 33.16 ZAP 143.06 ETS 33.06 ZAE 119.73 ETE 166.75 ZAC 13.56 ETC 221.61 CLP-151.13

PLANETOCENTRIC CONIC

C3 22.941 VHL 4.790 DLA -19.01 RAL 320.54 RAD 6567.9 VEL 12.013 PTH 2.14 VHP 5.571 DPA -.32 RAP 276.09 ECC 1.3775

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 54 12	1610.59	-1.80	6.07	183.62	118.26	12 21 2	1010.6	1.99	359.45
90.00	18 35 14	5528.30	28.32	256.94	191.39	90.27	20 7 22	4928.3	28.05	248.28
100.00	13 3 52	1385.72	-3.16	348.79	182.86	119.74	13 26 58	785.7	.82	342.27
100.00	20 8 14	5228.39	29.87	234.86	191.37	88.82	21 35 22	4628.4	29.39	226.09
110.00	13 46 50	1251.09	-6.56	336.48	180.76	123.62	14 7 41	651.1	-2.09	330.24
110.00	21 41 45	4935.79	33.86	212.39	191.12	84.99	23 4 1	4335.8	32.79	203.31

DIFFERENTIAL CORRECTIONS
TDE 1.3774 TRA 4.5328 TC3-2.0810 BAU .6424
RDE -.0506 RRA-1.0883 RC3 .2366 FAU .03447
FDE 1.9340 FRA 4.9457 FC3-1.3009 BSP 20432
BDE 1.3784 BRA 4.6617 BC3 2.0944 FSP -2110

MID-COURSE EXECUTION ACCURACY
SGT 6291.2 SGR 1396.8 SG3 586.4
RRT -.9614 RRF -.9535 RTF .9879
SGB 6444.4 R23 .0009 R13 -.9880
SG1 6433.4 SG2 375.8 THA 167.91

ORBIT DETERMINATION ACCURACY
ST 2383.0 SR 417.6 SS 1434.2
CRT -.8149 CRS .7360 CST -.9921
LSA 2797.0 MSA 294.8 SSA 13.3
EL1 2407.4 EL2 239.6 ALF 171.79

LAUNCH DATE SEP 13 1965 FLIGHT TIME 212.00 ARRIVAL DATE APR 13 1966

HELIOCENTRIC CONIC DISTANCE 580.323

RL 150.51 LAL .00 LOL 350.00 VL 27.213 GAL 7.80 AZL 90.41 HCA 259.56 SMA 129.73 ECC .20883 INC .4099 V1 29.604
RP 108.56 LAP .40 LOP 249.55 VP 37.711 GAP 7.59 AZP 89.93 TAL 147.25 TAP 46.80 RCA 102.64 APO 156.83 V2 34.909
RC 109.770 GL -2.24 GP 22.81 ZAL 32.49 ZAP 145.40 ETS 34.12 ZAE 119.00 ETE 167.82 ZAC 13.42 ETC 214.40 CLP-153.24

PLANETOCENTRIC CONIC

C3 24.279 VHL 4.927 DLA -17.71 RAL 320.74 RAD 6568.0 VEL 12.069 PTH 2.16 VHP 5.795 DPA -1.65 RAP 277.06 ECC 1.3996

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 41 25	1675.52	-3.89	9.70	184.32	118.07	12 9 21	1075.5	-.10	3.07
90.00	18 49 34	5491.08	28.30	254.22	192.10	88.91	20 21 5	4891.1	27.85	245.58
100.00	12 52 24	1446.48	-5.21	352.14	183.59	119.48	13 16 30	846.5	-1.24	345.60
100.00	20 21 17	5195.34	29.80	232.41	192.05	87.53	21 47 52	4595.3	29.14	223.67
110.00	13 37 55	1303.88	-8.54	339.28	181.55	123.23	13 59 39	703.9	-4.11	333.00
110.00	21 52 15	4910.71	33.69	210.45	191.71	83.85	23 14 6	4310.7	32.47	201.42

DIFFERENTIAL CORRECTIONS
TDE 1.5077 TRA 4.7852 TC3-2.0022 BAU .6531
RDE -.0240 RRA-1.0414 RC3 .1993 FAU .03070
FDE 1.9002 FRA 4.7913 FC3-1.0946 BSP 20815
BDE 1.5079 BRA 4.8972 BC3 2.0121 FSP -1978

MID-COURSE EXECUTION ACCURACY
SGT 6409.7 SGR 1286.6 SG3 548.1
RRT -.9533 RRF -.9443 RTF .9877
SGB 6537.5 R23 -.0018 R13 -.9877
SG1 6526.4 SG2 381.7 THA 169.13

ORBIT DETERMINATION ACCURACY
ST 2479.5 SR 382.4 SS 1412.7
CRT -.7567 CRS .6773 CST -.9934
LSA 2864.3 MSA 292.4 SSA 13.3
EL1 2496.5 EL2 248.3 ALF 173.28

LAUNCH DATE SEP 13 1965 FLIGHT TIME 214.00 ARRIVAL DATE APR 15 1966

HELIOCENTRIC CONIC DISTANCE 586.185

RL 150.51 LAL .00 LOL 350.00 VL 27.196 GAL 8.14 AZL 90.22 HCA 262.73 SMA 129.61 ECC .21340 INC .2168 V1 29.604
RP 108.59 LAP .22 LOP 252.73 VP 37.687 GAP 8.08 AZP 89.97 TAL 146.55 TAP 49.28 RCA 101.95 APO 157.27 V2 34.897
RC 112.133 GL -1.15 GP 21.61 ZAL 31.86 ZAP 147.59 ETS 35.23 ZAE 118.31 ETE 168.73 ZAC 13.66 ETC 207.33 CLP-155.24

PLANETOCENTRIC CONIC

C3 25.797 VHL 5.079 DLA -16.49 RAL 320.96 RAD 6568.0 VEL 12.132 PTH 2.17 VHP 6.035 DPA -2.84 RAP 278.16 ECC 1.4246

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 30 18	1736.42	-5.83	13.13	185.21	117.76	11 59 14	1136.4	-2.07	6.46
90.00	19 2 30	5460.06	28.24	251.95	192.95	87.77	20 33 30	4860.1	27.63	243.34
100.00	12 42 21	1503.94	-7.12	355.33	184.50	119.11	13 7 25	903.9	-3.19	348.76
100.00	20 33 8	5167.77	29.70	230.36	192.86	86.46	21 59 16	4567.8	28.89	221.65
110.00	13 30 2	1354.55	-10.42	342.00	182.51	122.74	13 52 36	754.6	-6.03	335.66
110.00	22 1 56	4889.93	33.53	208.85	192.45	82.92	23 23 26	4289.9	32.19	199.87

DIFFERENTIAL CORRECTIONS

TDE 1.6425 TRA 5.0458 TC3-1.9116 BAU .6618
RDE .0016 RRA-1.0005 RC3 .1674 FAU .02710
FDE 1.8645 FRA 4.6434 FC3 -.9094 BSP 21171
BDE 1.6425 BRA 5.1440 BC3 1.9189 FSP -1852

MID-COURSE EXECUTION ACCURACY

SGT 6514.7 SGR 1189.2 SG3 512.0
RRT -.9440 RRF -.9341 RTF .9873
SGB 6622.3 R23 -.0039 R13 -.9874
SG1 6611.0 SG2 386.6 THA 170.19

ORBIT DETERMINATION ACCURACY

ST 2570.6 SR 353.1 SS 1390.4
CRT -.6893 CRS .6106 CST -.3946
LSA 2929.5 MSA 289.8 SSA 13.3
EL1 2582.2 EL2 254.7 ALF 174.54

LAUNCH DATE SEP 13 1965 FLIGHT TIME 216.00 ARRIVAL DATE APR 17 1966

HELIOCENTRIC CONIC DISTANCE 591.999

RL 150.51 LAL .00 LOL 350.00 VL 27.178 GAL 8.51 AZL 90.03 HCA 265.91 SMA 129.49 ECC .21837 INC .0221 V1 29.604
RP 108.63 LAP .03 LOP 255.91 VP 37.664 GAP 8.59 AZP 90.00 TAL 145.83 TAP 51.74 RCA 101.21 APO 157.77 V2 34.886
RC 114.493 GL -.14 GP 20.52 ZAL 31.26 ZAP 149.64 ETS 36.41 ZAE 117.67 ETE 169.51 ZAC 14.23 ETC 200.80 CLP-157.12

PLANETOCENTRIC CONIC

C3 27.515 VHL 5.246 DLA -15.35 RAL 321.21 RAD 6568.1 VEL 12.202 PTH 2.19 VHP 6.293 DPA -3.92 RAP 279.38 ECC 1.4528

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 20 31	1794.10	-7.65	16.39	186.26	117.35	11 50 25	1194.1	-3.92	9.69
90.00	19 14 17	5434.37	28.15	250.07	193.92	86.84	20 44 51	4834.4	27.42	241.48
100.00	12 33 28	1558.71	-8.92	358.40	185.58	118.65	12 59 27	958.7	-5.03	351.78
100.00	20 44 1	5145.00	29.59	228.68	193.81	85.58	22 9 46	4545.0	28.67	220.00
110.00	13 23 2	1403.45	-12.20	344.66	183.62	122.18	13 46 26	803.4	-7.87	338.25
110.00	22 10 56	4873.02	33.38	207.55	193.33	82.16	23 32 9	4273.0	31.94	198.62

DIFFERENTIAL CORRECTIONS

TDE 1.7829 TRA 5.3162 TC3-1.8108 BAU .6681
RDE .0260 RRA -.9648 RC3 .1401 FAU .02366
FDE 1.8288 FRA 4.5039 FC3 -.7443 BSP 21489
BDE 1.7831 BRA 5.4030 BC3 1.8162 FSP -1731

MID-COURSE EXECUTION ACCURACY

SGT 6607.5 SGR 1102.9 SG3 478.1
RRT -.9336 RRF -.9228 RTF .9870
SGB 6699.0 R23 -.0053 R13 -.9870
SG1 6687.6 SG2 390.5 THA 171.11

ORBIT DETERMINATION ACCURACY

ST 2656.9 SR 329.1 SS 1368.3
CRT -.6143 CRS .5373 CST -.3955
LSA 2992.8 MSA 286.9 SSA 13.2
EL1 2664.7 EL2 258.9 ALF 175.61

LAUNCH DATE SEP 13 1965 FLIGHT TIME 218.00 ARRIVAL DATE APR 19 1966

HELIOCENTRIC CONIC DISTANCE 597.760

RL 150.51 LAL .00 LOL 350.00 VL 27.160 GAL 8.91 AZL 89.84 HCA 269.08 SMA 129.36 ECC .22375 INC .1598 V1 29.604
RP 108.66 LAP -.16 LOP 259.08 VP 37.641 GAP 9.11 AZP 90.00 TAL 145.11 TAP 54.19 RCA 100.42 APO 158.31 V2 34.875
RC 116.852 GL .79 GP 19.54 ZAL 30.69 ZAP 151.57 ETS 37.68 ZAE 117.06 ETE 170.19 ZAC 15.08 ETC 195.07 CLP-158.92

PLANETOCENTRIC CONIC

C3 29.456 VHL 5.427 DLA -14.28 RAL 321.48 RAD 6568.2 VEL 12.281 PTH 2.21 VHP 6.568 DPA -4.89 RAP 280.69 ECC 1.4848

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 11 52	1849.15	-9.35	19.53	187.47	116.85	11 42 41	1249.1	-5.68	12.78
90.00	19 25 5	5413.35	28.07	248.54	195.01	86.07	20 55 19	4813.3	27.23	239.98
100.00	12 25 36	1611.25	-10.62	1.37	186.80	118.11	12 52 28	1011.3	-6.78	354.69
100.00	20 54 2	5126.49	29.49	227.31	194.88	84.87	22 19 29	4526.5	28.47	218.66
110.00	13 16 49	1450.83	-13.91	347.28	184.87	121.55	13 41 0	850.8	-9.63	340.79
110.00	22 19 19	4859.66	33.25	206.53	194.36	81.57	23 40 18	4259.7	31.73	197.63

DIFFERENTIAL CORRECTIONS

TDE 1.9317 TRA 5.6004 TC3-1.6990 BAU .6706
RDE .0491 RRA -.9339 RC3 .1161 FAU .02029
FDE 1.7962 FRA 4.3755 FC3 -.5963 BSP 21719
BDE 1.9323 BRA 5.6778 BC3 1.7030 FSP -1611

MID-COURSE EXECUTION ACCURACY

SGT 6691.7 SGR 1026.4 SG3 446.7
RRT -.9221 RRF -.9106 RTF .9867
SGB 6770.0 R23 -.0062 R13 -.9867
SG1 6758.6 SG2 393.3 THA 171.92

ORBIT DETERMINATION ACCURACY

ST 2740.7 SR 309.6 SS 1347.7
CRT -.5340 CRS .4600 CST -.3963
LSA 3056.7 MSA 283.5 SSA 13.2
EL1 2745.8 EL2 261.3 ALF 176.52

LAUNCH DATE SEP 13 1965 FLIGHT TIME 220.00 ARRIVAL DATE APR 21 1966

HELIOCENTRIC CONIC DISTANCE 603.463

RL 150.51 LAL .00 LOL 350.00 VL 27.141 GAL 9.34 AZL 89.65 HCA 272.25 SMA 129.23 ECC .22960 INC .3481 V1 29.604
RP 108.69 LAP -.35 LOP 262.25 VP 37.618 GAP 9.66 AZP 89.99 TAL 144.37 TAP 56.62 RCA 99.56 APO 158.91 V2 34.865
RC 119.206 GL 1.66 GP 18.64 ZAL 30.14 ZAP 153.38 ETS 39.09 ZAE 116.49 ETE 170.77 ZAC 16.16 ETC 190.22 CLP-160.64

PLANETOCENTRIC CONIC

C3 31.645 VHL 5.625 DLA -13.27 RAL 321.77 RAD 6568.3 VEL 12.370 PTH 2.23 VHP 6.861 DPA -5.75 RAP 282.10 ECC 1.5208

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 4 11	1901.98	-10.96	22.58	188.81	116.27	11 35 53	1302.0	-7.35	15.77
90.00	19 35 4	5396.50	27.98	247.32	196.21	85.47	21 5 0	4796.5	27.06	238.77
100.00	12 18 36	1661.88	-12.23	4.27	188.15	117.49	12 46 18	1061.9	-8.45	357.52
100.00	21 3 20	5111.84	29.40	226.23	196.07	84.31	22 28 32	4511.8	28.30	217.60
110.00	13 11 16	1496.90	-15.53	349.86	186.25	120.84	13 36 13	896.9	-11.33	343.28
110.00	22 27 9	4849.57	33.15	205.76	195.51	81.13	23 47 58	4249.6	31.57	196.89

DIFFERENTIAL CORRECTIONS

TDE 2.0830 TRA 5.8942 TC3-1.5862 BAU .6723
RDE .0720 RRA -.9061 RC3 .0964 FAU .01726
FDE 1.7609 FRA 4.2535 FC3 -.4723 BSP 21997
BDE 2.0843 BRA 5.9635 BC3 1.5892 FSP -1506

MID-COURSE EXECUTION ACCURACY

SGT 6762.6 SGR 957.3 SG3 417.2
RRT -.9094 RRF -.8973 RTF .9865
SGB 6830.0 R23 -.0070 R13 -.9864
SG1 6818.6 SG2 394.9 THA 172.64

ORBIT DETERMINATION ACCURACY

ST 2815.7 SR 293.8 SS 1325.6
CRT -.4485 CRS .3781 CST -.3969
LSA 3113.4 MSA 280.0 SSA 13.1
EL1 2818.8 EL2 262.3 ALF 177.30

LAUNCH DATE SEP 14 1965 FLIGHT TIME 70.00 ARRIVAL DATE NOV 23 1965

HELIOCENTRIC CONIC DISTANCE 125.155

RL 150.47 LAL .00 LOL 350.97 VL 14.454 GAL 31.91 AZL 95.28 HCA 31.41 SMA 85.34 ECC .83611 INC 5.2838 V1 29.612
RP 108.45 LAP -2.75 LOP 22.27 VP 29.875 GAP -55.26 AZP 94.51 TAL 172.70 TAP 204.11 RCA 13.99 APO 156.70 V2 34.945
RC 91.865 GL -3.37 GP -3.64 ZAL 65.06 ZAP 36.70 ETS 171.86 ZAE 131.23 ETE 177.97 ZAC 31.88 ETC 31.42 CLP 36.55

PLANETOCENTRIC CONIC

C3 369.427 VHL 19.220 DLA -25.84 RAL 287.75 RAD 6572.0 VEL 22.152 PTH 3.24 VHP 30.340 DPA -22.40 RAP 235.74 ECC 7.0798

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 16 10	1831.58	-8.81	18.53	188.45	117.02	11 46 42	1231.6	-5.12	11.79
90.00	14 43 50	1148.15	12.73	339.87	198.99	115.51	15 2 58	548.1	16.06	332.78
100.00	12 11 13	1653.82	-11.98	3.81	186.79	117.59	12 38 47	1053.8	-8.19	357.07
100.00	16 31 28	801.14	15.94	315.92	200.58	115.63	16 44 49	201.1	19.26	308.70
110.00	12 31 57	1588.74	-18.66	355.14	183.05	119.17	12 58 26	988.7	-14.63	348.34
110.00	18 27 13	5727.01	22.78	269.84	204.10	116.21	20 2 40	5127.0	26.11	262.27

DIFFERENTIAL CORRECTIONS

TDE -.3422 TRA-2.0891 TC3 -.1089 BAU .5384
RDE-1.5167 RRA .2962 RC3 .0045 FAU .01084
FDE .0992 FRA .7376 FC3 -.0254 BSP 1914
BDE 1.5548 BRA 2.1100 BC3 .1090 FSP -46

MID-COURSE EXECUTION ACCURACY

SGT 815.1 SGR 463.0 SG3 22.9
RRT -.0771 RRF .0725 RTF -.6078
SGB 937.4 R23 -.0037 R13 .6083
SG1 816.3 SG2 461.0 THA 176.32

ORBIT DETERMINATION ACCURACY

ST 231.6 SR 453.1 SS 207.3
CRT .3812 CRS .3131 CST .9932
LSA 473.8 MSA 278.0 SSA 14.2
EL1 463.9 EL2 209.1 ALF 76.09

LAUNCH DATE SEP 14 1965 FLIGHT TIME 72.00 ARRIVAL DATE NOV 25 1965

HELIOCENTRIC CONIC DISTANCE 130.401

RL 150.47 LAL .00 LOL 350.97 VL 15.274 GAL 30.36 AZL 94.65 HCA 34.58 SMA 86.70 ECC .81132 INC 4.6474 V1 29.612
RP 108.41 LAP -2.64 LOP 25.47 VP 30.295 GAP -52.86 AZP 93.83 TAL 171.82 TAP 206.41 RCA 16.36 APO 157.04 V2 34.957
RC 89.619 GL -3.32 GP -3.73 ZAL 63.63 ZAP 35.20 ETS 171.43 ZAE 130.99 ETE 178.20 ZAC 30.57 ETC 33.21 CLP 35.02

PLANETOCENTRIC CONIC

C3 339.480 VHL 18.425 DLA -25.61 RAL 289.33 RAD 6571.9 VEL 21.466 PTH 3.21 VHP 29.270 DPA -22.93 RAP 237.45 ECC 6.5870

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 17 47	1838.40	-9.02	18.92	189.27	116.95	11 48 25	1238.4	-5.34	12.18
90.00	14 54 45	1123.34	13.45	338.41	200.17	115.15	15 13 28	523.3	16.73	331.26
100.00	12 13 54	1657.18	-12.08	4.00	187.67	117.55	12 41 31	1057.2	-8.30	357.26
100.00	16 41 19	779.79	16.57	314.64	201.68	115.24	16 54 19	179.8	19.83	307.37
110.00	12 35 52	1588.24	-18.65	355.11	184.00	119.18	13 2 21	988.2	-14.61	348.31
110.00	18 35 50	5709.54	23.30	268.75	205.09	115.75	20 10 59	5109.5	26.56	261.11

DIFFERENTIAL CORRECTIONS

TDE -.3671 TRA-2.1088 TC3 -.1166 BAU .5298
RDE-1.4688 RRA .3122 RC3 .0045 FAU .01083
FDE .1140 FRA .7658 FC3 -.0276 BSP 2038
BDE 1.5139 BRA 2.1318 BC3 .1167 FSP -50

MID-COURSE EXECUTION ACCURACY

SGT 852.4 SGR 469.6 SG3 24.6
RRT -.0832 RRF .0788 RTF -.6266
SGB 973.2 R23 -.0042 R13 .6272
SG1 853.7 SG2 467.2 THA 176.25

ORBIT DETERMINATION ACCURACY

ST 246.5 SR 457.9 SS 219.6
CRT .3993 CRS .3427 CST .9943
LSA 484.8 MSA 288.8 SSA 14.4
EL1 471.4 EL2 219.5 ALF 74.40

LAUNCH DATE SEP 14 1965 FLIGHT TIME 74.00 ARRIVAL DATE NOV 27 1965

HELIOCENTRIC CONIC DISTANCE 135.781

RL 150.47 LAL .00 LOL 350.97 VL 16.048 GAL 28.94 AZL 94.11 HCA 37.76 SMA 88.10 ECC .78618 INC 4.1053 V1 29.612
RP 108.37 LAP -2.51 LOP 28.66 VP 30.706 GAP -50.58 AZP 93.25 TAL 170.95 TAP 208.71 RCA 18.84 APO 157.35 V2 34.970
RC 87.380 GL -3.26 GP -3.82 ZAL 62.24 ZAP 33.71 ETS 170.97 ZAE 130.82 ETE 178.45 ZAC 29.28 ETC 35.20 CLP 33.52

PLANETOCENTRIC CONIC

C3 312.126 VHL 17.667 DLA -25.36 RAL 290.84 RAD 6571.8 VEL 20.819 PTH 3.18 VHP 28.237 DPA -23.47 RAP 239.19 ECC 6.1368

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 18 57	1845.47	-9.24	19.32	190.00	116.89	11 49 43	1245.5	-5.56	12.58
90.00	15 5 39	1097.28	14.20	336.86	201.24	114.76	15 23 56	497.3	17.42	329.66
100.00	12 16 8	1660.84	-12.20	4.21	188.46	117.50	12 43 49	1060.8	-8.42	357.46
100.00	16 51 9	757.14	17.22	313.28	202.69	114.82	17 3 46	157.1	20.42	305.95
110.00	12 39 23	1587.90	-18.63	355.09	184.86	119.19	13 5 51	987.9	-14.60	348.30
110.00	18 44 23	5690.89	23.85	267.58	205.99	115.25	20 19 14	5090.9	27.04	259.87

DIFFERENTIAL CORRECTIONS

TDE -.3911 TRA-2.1295 TC3 -.1247 BAU .5205
RDE-1.4204 RRA .3268 RC3 .0044 FAU .01083
FDE .1291 FRA .7946 FC3 -.0300 BSP 2167
BDE 1.4732 BRA 2.1544 BC3 .1247 FSP -55

MID-COURSE EXECUTION ACCURACY

SGT 891.1 SGR 475.6 SG3 26.5
RRT -.0899 RRF .0855 RTF -.6449
SGB 1010.1 R23 -.0048 R13 .6455
SG1 892.6 SG2 472.9 THA 176.18

ORBIT DETERMINATION ACCURACY

ST 262.3 SR 462.0 SS 232.5
CRT .4154 CRS .3699 CST .9952
LSA 496.6 MSA 299.2 SSA 14.6
EL1 478.8 EL2 230.3 ALF 72.57

LAUNCH DATE SEP 14 1965 FLIGHT TIME 76.00 ARRIVAL DATE NOV 29 1965

HELIOCENTRIC CONIC DISTANCE 141.286

RL 150.47 LAL .00 LOL 350.97 VL 16.776 GAL 27.62 AZL 93.64 HCA 40.94 SMA 89.52 ECC .76088 INC 3.6354 V1 29.612
RP 108.33 LAP -2.38 LOP 31.86 VP 31.108 GAP -48.42 AZP 92.75 TAL 170.08 TAP 211.02 RCA 21.41 APO 157.63 V2 34.983
RC 85.148 GL -3.19 GP -3.91 ZAL 60.89 ZAP 32.26 ETS 170.46 ZAE 130.71 ETE 178.73 ZAC 28.03 ETC 37.43 CLP 32.05

PLANETOCENTRIC CONIC

C3 287.103 VHL 16.944 DLA -25.09 RAL 292.29 RAD 6571.7 VEL 20.209 PTH 3.15 VHP 27.239 DPA -24.00 RAP 240.98 ECC 5.7250

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 19 44	1852.64	-9.46	19.73	190.64	116.81	11 50 37	1252.6	-5.79	12.98
90.00	15 16 28	1070.09	14.97	335.23	202.21	114.32	15 34 18	470.1	18.13	327.98
100.00	12 17 57	1664.69	-12.32	4.44	189.15	117.45	12 45 42	1064.7	-8.54	357.68
100.00	17 0 56	733.28	17.89	311.83	203.59	114.35	17 13 10	133.3	21.03	304.44
110.00	12 42 30	1587.67	-18.63	355.08	185.62	119.19	13 8 58	987.7	-14.59	348.28
110.00	18 52 53	5671.11	24.41	266.32	206.78	114.70	20 27 24	5071.1	27.53	258.55

DIFFERENTIAL CORRECTIONS

TDE -.4140 IRA-2.1508 TC3 -.1329 BAU .5104
RDE-1.3716 RRA .3400 RC3 .0042 FAU .01084
FDE .1448 FRA .8240 FC3 -.0327 BSP 2310
BDE 1.4328 BRA 2.1775 BC3 .1330 FSP -60

MID-COURSE EXECUTION ACCURACY

SGT 931.3 SGR 481.1 SG3 28.6
RRT -.0971 RRF .0927 RTF -.6626
SGB 1048.2 R23 -.0054 R13 .6632
SG1 932.9 SG2 478.0 THA 176.11

ORBIT DETERMINATION ACCURACY

ST 279.0 SR 465.4 SS 246.0
CRT .4295 CRS .3947 CST .9960
LSA 509.0 MSA 309.2 SSA 14.8
EL1 486.0 EL2 241.2 ALF 70.61

LAUNCH DATE SEP 14 1965 FLIGHT TIME 78.00 ARRIVAL DATE DEC 1 1965

HELIOCENTRIC CONIC DISTANCE 146,910

RL	150.47	LAL	.00	LOL	350.97	VL	17.463	GAL	26.39	AZL	93.22	HCA	44.13	SMA	90.96	ECC	.73557	INC	3.2219	V1	29.612
RP	108.29	LAP	-2.24	LOP	35.06	VP	31.498	GAP	-46.36	AZP	92.31	TAL	169.21	TAP	213.34	RCA	24.05	APO	157.87	V2	34.996
RC	82.926	GL	-3.10	GP	-4.02	ZAL	59.59	ZAP	30.83	ETS	169.90	ZAE	130.66	ETE	179.04	ZAC	26.80	ETC	39.93	CLP	30.59

PLANETOCENTRIC CONIC

C3 264.182 VHL 16.254 DLA -24.80 RAL 293.69 RAD 6571.5 VEL 19.634 PTH 3.12 VHP 26.272 DPA -24.53 RAP 242.80 ECC 5.3478

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 20 10	1859.82	-9.68	20.15	191.19	116.74	11 51 10	1259.8	-6.02	13.38
90.00	15 27 12	1041.83	15.76	333.53	203.08	113.84	15 44 34	441.8	18.85	326.22
100.00	12 19 23	1668.63	-12.44	4.66	189.75	117.40	12 47 12	1068.6	-8.67	357.90
100.00	17 10 40	708.25	18.59	310.30	204.39	113.84	17 22 28	108.3	21.65	302.84
110.00	12 45 15	1587.49	-18.62	355.07	186.30	119.20	13 11 43	987.5	-14.59	348.27
110.00	19 1 17	5650.20	25.00	264.99	207.46	114.11	20 35 27	5050.2	28.04	257.13

DIFFERENTIAL CORRECTIONS

TDE -.4362 TRA-2.1728 TC3 -.1415 BAU .4998
RDE-1.3226 RRA .3520 RC3 .0040 FAU .01086
FDE .1610 FRA .8540 FC3 -.0356 BSP 2456
BDE 1.3927 BRA 2.2012 BC3 .1415 FSP -66

MID-COURSE EXECUTION ACCURACY

SGT 973.1 SGR 486.0 SG3 30.7
RRT -.1048 RRF .1005 RTF -.6797
SGB 1087.8 R23 -.0061 R13 .6803
SG1 974.9 SG2 482.5 THA 176.03

ORBIT DETERMINATION ACCURACY

ST 296.5 SR 468.0 SS 260.1
CRT .4418 CRS .4173 CST .9967
LSA 522.4 MSA 318.5 SSA 15.1
EL1 493.2 EL2 252.4 ALF 68.46

LAUNCH DATE SEP 14 1965 FLIGHT TIME 80.00 ARRIVAL DATE DEC 3 1965

HELIOCENTRIC CONIC DISTANCE 152,645

RL	150.47	LAL	.00	LOL	350.97	VL	18.109	GAL	25.24	AZL	92.85	HCA	47.32	SMA	92.42	ECC	.71039	INC	2.8530	V1	29.612
RP	108.24	LAP	-2.10	LOP	38.26	VP	31.876	GAP	-44.41	AZP	91.94	TAL	168.35	TAP	215.67	RCA	26.76	APO	158.07	V2	35.010
RC	80.714	GL	-3.00	GP	-4.14	ZAL	58.34	ZAP	29.42	ETS	169.27	ZAE	130.68	ETE	179.38	ZAC	25.63	ETC	42.72	CLP	29.16

PLANETOCENTRIC CONIC

C3 243.162 VHL 15.594 DLA -24.49 RAL 295.03 RAD 6571.4 VEL 19.091 PTH 3.08 VHP 25.336 DPA -25.05 RAP 244.66 ECC 5.0018

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 20 15	1866.91	-9.90	20.55	191.65	116.67	11 51 22	1266.9	-6.24	13.78
90.00	15 37 49	1012.56	16.55	331.75	203.84	113.31	15 54 41	412.6	19.57	324.37
100.00	12 20 26	1672.60	-12.57	4.89	190.26	117.35	12 48 19	1072.6	-8.80	358.12
100.00	17 20 18	682.10	19.30	308.68	205.08	113.28	17 31 40	82.1	22.29	301.16
110.00	12 47 38	1587.31	-18.61	355.06	186.89	119.20	13 14 5	987.3	-14.58	348.26
110.00	19 9 36	5628.19	25.61	263.56	208.03	113.46	20 43 24	5028.2	28.55	255.62

DIFFERENTIAL CORRECTIONS

TDE -.4570 TRA-2.1949 TC3 -.1501 BAU .4882
RDE-1.2734 RRA .3627 RC3 .0035 FAU .01090
FDE .1776 FRA .8847 FC3 -.0388 BSP 2623
BDE 1.3529 BRA 2.2247 BC3 .1502 FSP -72

MID-COURSE EXECUTION ACCURACY

SGT 1016.3 SGR 490.4 SG3 33.1
RRT -.1131 RRF .1090 RTF -.6963
SGB 1128.4 R23 -.0068 R13 .6969
SG1 1018.3 SG2 486.3 THA 175.95

ORBIT DETERMINATION ACCURACY

ST 314.8 SR 469.9 SS 274.8
CRT .4521 CRS .4377 CST .9972
LSA 536.8 MSA 327.1 SSA 15.3
EL1 500.4 EL2 263.7 ALF 66.16

LAUNCH DATE SEP 14 1965 FLIGHT TIME 82.00 ARRIVAL DATE DEC 5 1965

HELIOCENTRIC CONIC DISTANCE 158,486

RL	150.47	LAL	.00	LOL	350.97	VL	18.719	GAL	24.15	AZL	92.52	HCA	50.51	SMA	93.88	ECC	.68545	INC	2.5199	V1	29.612
RP	108.20	LAP	-1.94	LOP	41.46	VP	32.240	GAP	-42.55	AZP	91.60	TAL	167.51	TAP	218.02	RCA	29.53	APO	158.23	V2	35.023
RC	78.516	GL	-2.88	GP	-4.26	ZAL	57.13	ZAP	28.04	ETS	168.58	ZAE	130.76	ETE	179.76	ZAC	24.53	ETC	45.83	CLP	27.74

PLANETOCENTRIC CONIC

C3 223.869 VHL 14.962 DLA -24.16 RAL 296.32 RAD 6571.3 VEL 18.579 PTH 3.05 VHP 24.430 DPA -25.57 RAP 246.54 ECC 4.6843

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 20 1	1873.86	-10.11	20.95	192.02	116.59	11 51 14	1273.9	-6.46	14.18
90.00	15 48 17	982.29	17.36	329.89	204.48	112.73	16 4 39	382.3	20.29	322.44
100.00	12 21 8	1676.54	-12.69	5.12	190.68	117.29	12 49 5	1076.5	-8.93	358.35
100.00	17 29 51	654.84	20.03	306.98	205.66	112.67	17 40 46	54.8	22.92	299.38
110.00	12 49 39	1587.10	-18.61	355.04	187.38	119.21	13 16 6	987.1	-14.57	348.25
110.00	19 17 49	5605.08	26.22	262.05	208.48	112.76	20 51 14	5005.1	29.07	254.02

DIFFERENTIAL CORRECTIONS

TDE -.4795 TRA-2.2199 TC3 -.1595 BAU .4776
RDE-1.2240 RRA .3723 RC3 .0030 FAU .01094
FDE .1950 FRA .9166 FC3 -.0423 BSP 2734
BDE 1.3146 BRA 2.2509 BC3 .1596 FSP -78

MID-COURSE EXECUTION ACCURACY

SGT 1062.9 SGR 494.2 SG3 35.6
RRT -.1215 RRF .1178 RTF -.7121
SGB 1172.2 R23 -.0081 R13 .7128
SG1 1065.1 SG2 489.5 THA 175.90

ORBIT DETERMINATION ACCURACY

ST 334.7 SR 471.1 SS 290.3
CRT .4627 CRS .4568 CST .9975
LSA 553.1 MSA 334.8 SSA 15.5
EL1 508.2 EL2 275.1 ALF 63.49

LAUNCH DATE SEP 14 1965 FLIGHT TIME 84.00 ARRIVAL DATE DEC 7 1965

HELIOCENTRIC CONIC DISTANCE 164,426

RL	150.47	LAL	.00	LOL	350.97	VL	19.293	GAL	23.11	AZL	92.22	HCA	53.71	SMA	95.35	ECC	.66084	INC	2.2158	V1	29.612
RP	108.16	LAP	-1.79	LOP	44.66	VP	32.591	GAP	-40.76	AZP	91.31	TAL	166.67	TAP	220.38	RCA	32.34	APO	158.37	V2	35.036
RC	76.333	GL	-2.74	GP	-4.40	ZAL	55.96	ZAP	26.68	ETS	167.80	ZAE	130.92	ETE	180.18	ZAC	23.50	ETC	49.28	CLP	26.34

PLANETOCENTRIC CONIC

C3 206.148 VHL 14.358 DLA -23.82 RAL 297.54 RAD 6571.2 VEL 18.096 PTH 3.01 VHP 23.550 DPA -26.09 RAP 248.47 ECC 4.3927

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 19 27	1880.64	-10.32	21.35	192.30	116.52	11 50 48	1280.6	-6.67	14.56
90.00	15 58 37	951.05	18.17	327.96	205.01	112.10	16 14 28	351.1	21.01	320.44
100.00	12 21 29	1680.42	-12.81	5.34	191.01	117.24	12 49 29	1080.4	-9.06	358.56
100.00	17 39 17	626.50	20.76	305.19	206.12	112.00	17 49 44	26.5	23.56	297.52
110.00	12 51 19	1586.85	-18.60	355.03	187.78	119.21	13 17 46	986.8	-14.56	348.24
110.00	19 25 56	5580.88	26.85	260.45	208.81	112.00	20 58 57	4980.9	29.59	252.33

DIFFERENTIAL CORRECTIONS

TDE -.5055 TRA-2.2496 TC3 -.1701 BAU .4688
RDE-1.1745 RRA .3809 RC3 .0023 FAU .01097
FDE .2135 FRA .9500 FC3 -.0461 BSP 2744
BDE 1.2787 BRA 2.2816 BC3 .1701 FSP -84

MID-COURSE EXECUTION ACCURACY

SGT 1114.5 SGR 497.3 SG3 38.3
RRT -.1293 RRF .1272 RTF -.7272
SGB 1220.4 R23 -.0105 R13 .7279
SG1 1116.8 SG2 492.1 THA 175.90

ORBIT DETERMINATION ACCURACY

ST 357.2 SR 471.3 SS 306.8
CRT .4745 CRS .4748 CST .9977
LSA 572.0 MSA 341.3 SSA 15.7
EL1 517.4 EL2 286.4 ALF 60.31

LAUNCH DATE SEP 14 1965 FLIGHT TIME 86.00 ARRIVAL DATE DEC 9 1965

DISTANCE 170.452

HELIOCENTRIC CONIC

RL 150.47 LAL .00 LOL 350.97 VL 19.833 GAL 22.13 AZL 91.94 HCA 56.91 SMA 96.83 ECC .63661 INC 1.9356 V1 29.612
RP 108.12 LAP -1.62 LOP 47.87 VP 32.928 GAP -39.06 AZP 91.06 TAL 165.85 TAP 222.76 RCA 35.19 APO 158.47 V2 35.049
RC 74.169 GL -2.58 GP -4.55 ZAL 54.84 ZAP 25.34 ETS 166.92 ZAE 131.14 ETE 180.64 ZAC 22.57 ETC 53.10 CLP 24.95

PLANETOCENTRIC CONIC

C3 189.826 VHL 13.778 DLA -23.45 RAL 298.71 RAD 6571.0 VEL 17.639 PTH 2.98 VHP 22.696 DPA -26.59 RAP 250.42 ECC 4.1241

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 18 36	1887.14	-10.51	21.72	192.49	116.44	11 50 3	1287.1	-6.88	14.93
90.00	16 8 47	918.87	18.98	325.95	205.41	111.41	16 24 6	318.9	21.73	318.35
100.00	12 21 29	1684.15	-12.93	5.56	191.24	117.19	12 49 33	1084.1	-9.18	358.77
100.00	17 48 35	5885.13	21.50	281.23	206.46	111.28	19 26 40	5285.1	24.20	273.47
110.00	12 52 38	1586.47	-18.59	355.01	188.09	119.22	13 19 5	986.5	-14.55	348.22
110.00	19 33 55	5555.58	27.48	258.75	209.01	111.17	21 6 31	4955.6	30.11	250.54

DIFFERENTIAL CORRECTIONS

TDE -.4599 TRA-2.2083 TC3 -.1661 BAU .4216
RDE-1.1265 RRA .3868 RC3 .0010 FAU .01143
FDE .2234 FRA .9753 FC3 -.0521 BSP 4455
BDE 1.2168 BRA 2.2419 BC3 .1661 FSP -109

MID-COURSE EXECUTION ACCURACY

SGT 1117.2 SGR 500.2 SG3 41.0
RRT -.1561 RRF .1416 RTF -.7449
SGB 1224.1 R23 .0028 R13 .7454
SG1 1120.6 SG2 492.6 THA 175.04

ORBIT DETERMINATION ACCURACY

ST 356.3 SR 471.4 SS 317.6
CRT .4394 CRS .4786 CST .9969
LSA 572.5 MSA 349.5 SSA 15.4
EL1 512.3 EL2 294.5 ALF 61.42

LAUNCH DATE SEP 14 1965 FLIGHT TIME 88.00 ARRIVAL DATE DEC 11 1965

DISTANCE 176.575

HELIOCENTRIC CONIC

RL 150.47 LAL .00 LOL 350.97 VL 20.343 GAL 21.20 AZL 91.67 HCA 60.11 SMA 98.29 ECC .61291 INC 1.6748 V1 29.612
RP 108.08 LAP -1.45 LOP 51.07 VP 33.251 GAP -37.43 AZP 90.83 TAL 165.05 TAP 225.16 RCA 38.05 APO 158.54 V2 35.063
RC 72.025 GL -2.40 GP -4.71 ZAL 53.75 ZAP 24.02 ETS 165.93 ZAE 131.44 ETE 181.16 ZAC 21.75 ETC 57.29 CLP 23.58

PLANETOCENTRIC CONIC

C3 174.866 VHL 13.224 DLA -23.07 RAL 299.82 RAD 6570.9 VEL 17.210 PTH 2.94 VHP 21.869 DPA -27.09 RAP 252.40 ECC 3.8778

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 17 26	1893.57	-10.71	22.09	192.59	116.37	11 49 0	1293.6	-7.08	15.29
90.00	16 18 51	885.68	19.79	323.85	205.70	110.67	16 33 36	285.7	22.43	316.17
100.00	12 21 9	1687.88	-13.04	5.78	191.39	117.14	12 49 17	1087.9	-9.30	358.98
100.00	17 57 48	5854.63	22.24	279.27	206.68	110.51	19 35 23	5254.6	24.83	271.42
110.00	12 53 37	1586.11	-18.57	354.99	188.31	119.23	13 20 3	986.1	-14.54	348.20
110.00	19 41 50	5529.17	28.12	256.96	209.10	110.29	21 13 59	4929.2	30.62	248.65

DIFFERENTIAL CORRECTIONS

TDE -.5183 TRA-2.2722 TC3 -.1840 BAU .4302
RDE-1.0765 RRA .3942 RC3 .0001 FAU .01129
FDE .2475 FRA 1.0152 FC3 -.0559 BSP 3658
BDE 1.1948 BRA 2.3062 BC3 .1840 FSP -106

MID-COURSE EXECUTION ACCURACY

SGT 1196.8 SGR 502.0 SG3 44.2
RRT -.1565 RRF .1506 RTF -.7570
SGB 1297.8 R23 -.0079 R13 .7577
SG1 1199.9 SG2 494.6 THA 175.47

ORBIT DETERMINATION ACCURACY

ST 392.0 SR 469.8 SS 338.5
CRT .4717 CRS .4995 CST .9976
LSA 603.6 MSA 352.6 SSA 15.8
EL1 529.4 EL2 306.7 ALF 55.54

LAUNCH DATE SEP 14 1965 FLIGHT TIME 90.00 ARRIVAL DATE DEC 13 1965

DISTANCE 182.776

HELIOCENTRIC CONIC

RL 150.47 LAL .00 LOL 350.97 VL 20.822 GAL 20.30 AZL 91.43 HCA 63.32 SMA 99.75 ECC .58974 INC 1.4302 V1 29.612
RP 108.04 LAP -1.28 LOP 54.28 VP 33.561 GAP -35.87 AZP 90.64 TAL 164.26 TAP 227.58 RCA 40.92 APO 158.58 V2 35.076
RC 69.906 GL -2.20 GP -4.89 ZAL 52.71 ZAP 22.72 ETS 164.80 ZAE 131.81 ETE 181.72 ZAC 21.07 ETC 61.85 CLP 22.22

PLANETOCENTRIC CONIC

C3 161.089 VHL 12.692 DLA -22.66 RAL 300.88 RAD 6570.8 VEL 16.805 PTH 2.90 VHP 21.066 DPA -27.59 RAP 254.42 ECC 3.6511

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 15 58	1899.78	-10.90	22.45	192.61	116.30	11 47 37	1299.8	-7.28	15.64
90.00	16 28 44	851.51	20.60	321.67	205.85	109.87	16 42 56	251.5	23.12	313.90
100.00	12 20 29	1691.50	-13.15	5.99	191.45	117.09	12 48 41	1091.5	-9.42	359.19
100.00	18 6 54	5823.05	22.98	277.21	206.77	109.67	19 43 57	5223.1	25.45	269.28
110.00	12 54 15	1585.66	-18.56	354.96	188.44	119.23	13 20 41	985.7	-14.52	348.17
110.00	19 49 38	5501.66	28.76	255.07	209.05	109.33	21 21 19	4901.7	31.12	246.67

DIFFERENTIAL CORRECTIONS

TDE -.5411 TRA-2.3009 TC3 -.1949 BAU .4198
RDE-1.0275 RRA .4000 RC3 -.0013 FAU .01138
FDE .2678 FRA 1.0519 FC3 -.0612 BSP 3698
BDE 1.1613 BRA 2.3354 BC3 .1949 FSP -114

MID-COURSE EXECUTION ACCURACY

SGT 1253.6 SGR 503.4 SG3 47.6
RRT -.1668 RRF .1627 RTF -.7702
SGB 1350.9 R23 -.0106 R13 .7709
SG1 1256.9 SG2 495.1 THA 175.46

ORBIT DETERMINATION ACCURACY

ST 417.0 SR 467.5 SS 357.0
CRT .4794 CRS .5127 CST .9975
LSA 626.9 MSA 355.9 SSA 16.0
EL1 540.7 EL2 316.5 ALF 51.72

LAUNCH DATE SEP 14 1965 FLIGHT TIME 92.00 ARRIVAL DATE DEC 15 1965

DISTANCE 189.052

HELIOCENTRIC CONIC

RL 150.47 LAL .00 LOL 350.97 VL 21.274 GAL 19.45 AZL 91.20 HCA 66.53 SMA 101.20 ECC .56715 INC 1.1987 V1 29.612
RP 108.00 LAP -1.10 LOP 57.49 VP 33.856 GAP -34.36 AZP 90.48 TAL 163.50 TAP 230.02 RCA 43.80 APO 158.59 V2 35.089
RC 67.813 GL -1.97 GP -5.09 ZAL 51.71 ZAP 21.45 ETS 163.50 ZAE 132.26 ETE 182.36 ZAC 20.54 ETC 66.73 CLP 20.87

PLANETOCENTRIC CONIC

C3 148.413 VHL 12.182 DLA -22.23 RAL 301.88 RAD 6570.6 VEL 16.424 PTH 2.87 VHP 20.287 DPA -28.08 RAP 256.46 ECC 3.4425

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 14 10	1905.84	-11.08	22.80	192.54	116.23	11 45 56	1305.8	-7.47	15.99
90.00	16 38 30	816.32	21.40	319.40	205.88	109.00	16 52 6	216.3	23.79	311.54
100.00	12 19 29	1695.06	-13.26	6.19	191.42	117.04	12 47 44	1095.1	-9.53	359.39
100.00	18 15 53	5790.37	23.71	275.06	206.74	108.76	19 52 23	5190.4	26.05	267.04
110.00	12 54 32	1585.18	-18.54	354.93	188.48	119.24	13 20 57	985.2	-14.51	348.14
110.00	19 57 19	5473.02	29.38	253.08	208.86	108.31	21 28 32	4873.0	31.60	244.57

DIFFERENTIAL CORRECTIONS

TDE -.5579 TRA-2.3244 TC3 -.2048 BAU .4064
RDE -.9788 RRA .4048 RC3 -.0030 FAU .01151
FDE .2881 FRA 1.0893 FC3 -.0672 BSP 3863
BDE 1.1267 BRA 2.3594 BC3 .2048 FSP -124

MID-COURSE EXECUTION ACCURACY

SGT 1308.7 SGR 504.3 SG3 51.2
RRT -.1795 RRF .1762 RTF -.7831
SGB 1402.5 R23 -.0124 R13 .7838
SG1 1312.3 SG2 494.7 THA 175.39

ORBIT DETERMINATION ACCURACY

ST 441.1 SR 464.5 SS 375.7
CRT .4829 CRS .5235 CST .9973
LSA 650.2 MSA 358.4 SSA 16.2
EL1 552.0 EL2 325.1 ALF 48.05

LAUNCH DATE SEP 14 1965 FLIGHT TIME 94.00 ARRIVAL DATE DEC 17 1965

HELIOCENTRIC CONIC DISTANCE 195.398

RL	150.47	LAL	.00	LOL	350.97	VL	21.699	GAL	18.63	AZL	90.98	HCA	69.74	SMA	102.63	ECC	.54519	INC	.9781	VI	29.612
RP	107.96	LAP	-.92	LOP	60.71	VP	34.138	GAP	-32.92	AZP	90.34	TAL	162.75	TAP	232.49	RCA	46.68	APO	158.58	V2	35.101
RC	65.751	GL	-1.72	GP	-5.30	ZAL	50.76	ZAP	20.21	ETS	162.01	ZAE	132.79	ETE	183.06	ZAC	20.19	ETC	71.89	CLP	19.53

PLANETOCENTRIC CONIC

C3 136.750 VHL 11.694 DLA -21.78 RAL 302.82 RAD 6570.5 VEL 16.065 PTH 2.83 VHP 19.530 DPA -28.56 RAP 258.52 ECC 3.2506

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 12 4	1911.80	-11.26	23.15	192.38	116.15	11 43 56	1311.8	-7.65	16.33
90.00	16 48 7	780.10	22.18	317.03	205.77	108.07	17 1 7	180.1	24.45	309.09
100.00	12 18 7	1698.60	-13.37	6.40	191.30	116.98	12 46 26	1098.6	-9.65	359.59
100.00	18 24 45	5756.57	24.43	272.81	206.57	107.78	20 0 42	5156.6	26.63	264.70
110.00	12 54 27	1584.70	-18.53	354.90	188.43	119.25	13 20 52	984.7	-14.49	348.12
110.00	20 4 54	5443.23	30.00	250.98	208.54	107.20	21 35 37	4843.2	32.06	242.37

DIFFERENTIAL CORRECTIONS

TDE	-.5709	TRA	-2.3443	TC3	-.2138	BAU	.3911												
RDE	-.9306	RRA	.4089	RC3	-.0051	FAU	.01169												
FDE	.3087	FRA	1.1278	FC3	-.0740	BSP	4103												
BDE	1.0917	BRA	2.3797	BC3	.2139	FSP	-135												

MID-COURSE EXECUTION ACCURACY

SGT	1363.3	SGR	504.6	SG3	55.1						
RRT	-.1939	RRF	.1911	RTF	-.7955						
SGB	1453.6	R23	-.0138	R13	.7963						
SG1	1367.3	SG2	493.5	THA	175.28						

ORBIT DETERMINATION ACCURACY

ST	464.9	SR	460.5	SS	394.9						
CRT	.4835	CRS	.5326	CST	.9969						
LSA	674.1	MSA	360.0	SSA	16.3						
EL1	563.6	EL2	332.5	ALF	44.43						

LAUNCH DATE SEP 14 1965 FLIGHT TIME 96.00 ARRIVAL DATE DEC 19 1965

HELIOCENTRIC CONIC DISTANCE 201.810

RL	150.47	LAL	.00	LOL	350.97	VL	22.099	GAL	17.85	AZL	90.77	HCA	72.95	SMA	104.04	ECC	.52389	INC	.7662	VI	29.612
RP	107.92	LAP	-.73	LOP	63.92	VP	34.406	GAP	-31.53	AZP	90.22	TAL	162.04	TAP	234.99	RCA	49.53	APO	158.54	V2	35.114
RC	63.722	GL	-1.44	GP	-5.53	ZAL	49.85	ZAP	18.99	ETS	160.27	ZAE	133.41	ETE	183.84	ZAC	20.02	ETC	77.22	CLP	18.20

PLANETOCENTRIC CONIC

C3 126.022 VHL 11.226 DLA -21.31 RAL 303.70 RAD 6570.3 VEL 15.728 PTH 2.79 VHP 18.796 DPA -29.03 RAP 260.61 ECC 3.0740

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 9 37	1917.75	-11.44	23.50	192.14	116.08	11 41 35	1317.7	-7.84	16.67
90.00	16 57 38	742.80	22.95	314.56	205.53	107.06	17 10 0	142.8	25.07	306.53
100.00	12 16 24	1702.19	-13.48	6.61	191.09	116.93	12 44 47	1102.2	-9.77	359.79
100.00	18 33 31	5721.63	25.14	270.45	206.26	106.73	20 8 53	5121.6	27.19	262.25
110.00	12 54 1	1584.29	-18.51	354.88	188.30	119.26	13 20 26	984.3	-14.47	348.09
110.00	20 12 24	5412.29	30.61	248.77	208.08	106.02	21 42 36	4812.3	32.50	240.07

DIFFERENTIAL CORRECTIONS

TDE	-.5864	TRA	-2.3674	TC3	-.2239	BAU	.3774												
RDE	-.8827	RRA	.4126	RC3	-.0076	FAU	.01187												
FDE	.3307	FRA	1.1686	FC3	-.0815	BSP	4260												
BDE	1.0597	BRA	2.4031	BC3	.2240	FSP	-146												

MID-COURSE EXECUTION ACCURACY

SGT	1422.8	SGR	504.3	SG3	59.4						
RRT	-.2087	RRF	.2072	RTF	-.8071						
SGB	1509.5	R23	-.0162	R13	.8079						
SG1	1427.2	SG2	491.7	THA	175.20						

ORBIT DETERMINATION ACCURACY

ST	491.1	SR	455.6	SS	415.3						
CRT	.4848	CRS	.5408	CST	.9965						
LSA	700.9	MSA	360.3	SSA	16.4						
EL1	578.0	EL2	338.6	ALF	40.59						

LAUNCH DATE SEP 14 1965 FLIGHT TIME 98.00 ARRIVAL DATE DEC 21 1965

HELIOCENTRIC CONIC DISTANCE 208.280

RL	150.47	LAL	.00	LOL	350.97	VL	22.475	GAL	17.10	AZL	90.56	HCA	76.17	SMA	105.42	ECC	.50327	INC	.5615	VI	29.612
RP	107.89	LAP	-.55	LOP	67.14	VP	34.662	GAP	-30.19	AZP	90.13	TAL	161.34	TAP	237.51	RCA	52.37	APO	158.48	V2	35.126
RC	61.731	GL	-1.12	GP	-5.78	ZAL	48.98	ZAP	17.80	ETS	158.24	ZAE	134.11	ETE	184.72	ZAC	20.05	ETC	82.64	CLP	16.87

PLANETOCENTRIC CONIC

C3 116.154 VHL 10.777 DLA -20.81 RAL 304.53 RAD 6570.2 VEL 15.411 PTH 2.75 VHP 18.083 DPA -29.50 RAP 262.73 ECC 2.9116

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 6 49	1923.75	-11.62	23.85	191.81	116.01	11 38 53	1323.7	-8.03	17.01
90.00	17 7 1	704.39	23.69	311.99	205.16	105.98	17 18 46	104.4	25.66	303.88
100.00	12 14 19	1705.90	-13.60	6.82	190.80	116.88	12 42 45	1105.9	-9.89	.00
100.00	18 42 12	5685.51	25.82	267.98	205.82	105.61	20 16 58	5085.5	27.71	259.69
110.00	12 53 13	1584.01	-18.50	354.86	188.08	119.27	13 19 37	984.0	-14.46	348.08
110.00	20 19 48	5380.17	31.19	246.45	207.48	104.76	21 49 28	4780.2	32.90	237.65

DIFFERENTIAL CORRECTIONS

TDE	-.5980	TRA	-2.3865	TC3	-.2329	BAU	.3620												
RDE	-.8353	RRA	.4157	RC3	-.0105	FAU	.01208												
FDE	.3532	FRA	1.2108	FC3	-.0901	BSP	4496												
BDE	1.0273	BRA	2.4225	BC3	.2331	FSP	-159												

MID-COURSE EXECUTION ACCURACY

SGT	1481.6	SGR	503.6	SG3	63.9						
RRT	-.2256	RRF	.2250	RTF	-.8184						
SGB	1564.9	R23	-.0182	R13	.8192						
SG1	1486.5	SG2	489.0	THA	175.08						

ORBIT DETERMINATION ACCURACY

ST	516.8	SR	449.7	SS	436.2						
CRT	.4832	CRS	.5473	CST	.9960						
LSA	728.0	MSA	359.8	SSA	16.5						
EL1	592.9	EL2	343.2	ALF	36.95						

LAUNCH DATE SEP 14 1965 FLIGHT TIME 100.00 ARRIVAL DATE DEC 23 1965

HELIOCENTRIC CONIC DISTANCE 214.805

RL	150.47	LAL	.00	LOL	350.97	VL	22.829	GAL	16.39	AZL	90.36	HCA	79.39	SMA	106.78	ECC	.48335	INC	.3621	VI	29.612
RP	107.85	LAP	-.36	LOP	70.36	VP	34.904	GAP	-28.90	AZP	90.07	TAL	160.68	TAP	240.07	RCA	55.17	APO	158.40	V2	35.138
RC	59.781	GL	-.77	GP	-6.06	ZAL	48.15	ZAP	16.66	ETS	155.86	ZAE	134.89	ETE	185.71	ZAC	20.29	ETC	88.02	CLP	15.55

PLANETOCENTRIC CONIC

C3 107.081 VHL 10.348 DLA -20.28 RAL 305.30 RAD 6570.1 VEL 15.114 PTH 2.72 VHP 17.391 DPA -29.97 RAP 264.86 ECC 2.7623

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 3 39	1929.91	-11.80	24.21	191.40	115.93	11 35 49	1329.9	-8.22	17.36
90.00	17 16 19	664.83	24.41	309.32	204.65	104.82	17 27 24	64.8	26.21	301.11
100.00	12 11 51	1709.82	-13.72	7.05	190.43	116.82	12 40 21	1109.8	-10.01	.23
100.00	18 50 48	5648.19	26.48	265.41	205.25	104.40	20 24 57	5048.2	28.20	257.03
110.00	12 52 1	1583.94	-18.50	354.86	187.78	119.27	13 18 25	983.9	-14.46	348.07
110.00	20 27 8	5346.84	31.74	244.01	206.74	103.42	21 56 15	4746.8	33.26	235.11

DIFFERENTIAL CORRECTIONS

TDE	-.6086	TRA	-2.4049	TC3	-.2415	BAU	.3463												
RDE	-.7884	RRA	.4185	RC3	-.0139	FAU	.01233												
FDE	.3767	FRA	1.2550	FC3	-.0997	BSP	4736												
BDE	.9960	BRA	2.4411	BC3	.2419	FSP	-174												

MID-COURSE EXECUTION ACCURACY

SGT	1542.2	SGR	502.4	SG3	68.8						
RRT	-.2441	RRF	.2446	RTF	-.8291						
SGB	1622.0	R23	-.0205	R13	.8299						
SG1	1547.6	SG2	485.5	THA	174.95						

ORBIT DETERMINATION ACCURACY

ST	543.3	SR	442.8	SS	458.0						
CRT	.4804	CRS	.5525	CST	.9953						
LSA	756.5	MSA	358.3	SSA	16.7						
EL1	609.4	EL2	346.2	ALF	33.40						

LAUNCH DATE SEP 14 1965 FLIGHT TIME 102.00 ARRIVAL DATE DEC 25 1965

HELIOCENTRIC CONIC DISTANCE 221.379

RL	150.47	LAL	.00	LOL	350.97	VL	23.162	GAL	15.70	AZL	90.17	HCA	82.61	SMA	108.11	ECC	.46415	INC	.1667
RP	107.81	LAP	-.17	LOP	73.58	VP	35.134	GAP	-27.65	AZP	90.02	TAL	160.04	TAP	242.65	RCA	57.93	APO	158.30
RC	57.879	GL	-.37	GP	-6.36	ZAL	47.37	ZAP	15.56	ETS	153.04	ZAE	135.77	ETE	186.82	ZAC	20.72	ETC	93.25

V1	29.612																		
V2	35.149																		
CLP	14.23																		

PLANETOCENTRIC CONIC

C3	98.744	VHL	9.937	DLA	-19.72	RAL	306.01	RAD	6569.9	VEL	14.835	PTH	2.68	VHP	16.719	DPA	-30.44	RAP	267.02
ECC	2.6251																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 0 6	1936.37	-11.99	24.58	190.91	115.84	11 32 22	1336.4	-8.42	17.73
90.00	17 25 33	624.07	25.09	306.52	204.00	103.58	17 35 57	24.1	26.71	298.23
100.00	12 8 59	1714.08	-13.85	7.30	189.97	116.76	12 37 33	1114.1	-10.15	.47
100.00	18 59 21	5609.63	27.10	262.71	204.53	103.11	20 32 50	5009.6	28.64	254.25
110.00	12 50 25	1584.19	-18.51	354.87	187.39	119.26	13 16 50	984.2	-14.47	348.09
110.00	20 34 23	5312.28	32.26	241.45	205.85	101.98	22 2 56	4712.3	33.57	232.46

DIFFERENTIAL CORRECTIONS

TDE	-.6211	TRA	-2.4253	TC3	-.2508	BAU	.3320												
RDE	-.7420	RRA	.4213	RC3	-.0179	FAU	.01259												
FDE	.4018	FRA	1.3021	FC3	-.1103	BSP	4912												
BDE	.9676	BRA	-2.4616	BC3	.2515	FSP	-188												

MID-COURSE EXECUTION ACCURACY

SGT	1607.3	SGR	500.9	SG3	74.2														
RRT	-.2637	RRF	.2660	RTF	-.8390														
SGB	1683.5	R23	-.0238	R13	.8400														
SG1	1613.2	SG2	481.4	THA	174.84														

ORBIT DETERMINATION ACCURACY

ST	571.9	SR	434.8	SS	481.2														
CRT	.4775	CRS	.5565	CST	.9947														
LSA	788.0	MSA	355.7	SSA	16.8														
EL1	628.8	EL2	347.4	ALF	29.92														

LAUNCH DATE SEP 14 1965 FLIGHT TIME 104.00 ARRIVAL DATE DEC 27 1965

HELIOCENTRIC CONIC DISTANCE 227.998

RL	150.47	LAL	.00	LOL	350.97	VL	23.475	GAL	15.04	AZL	89.97	HCA	85.83	SMA	109.41	ECC	.44567	INC	.0185
RP	107.78	LAP	.03	LOP	76.80	VP	35.352	GAP	-26.45	AZP	90.00	TAL	159.44	TAP	245.27	RCA	60.65	APO	158.18
RC	56.028	GL	.06	GP	-6.69	ZAL	46.63	ZAP	14.51	ETS	149.71	ZAE	136.75	ETE	188.08	ZAC	21.35	ETC	98.22

V1	29.612																		
V2	35.160																		
CLP	12.91																		

PLANETOCENTRIC CONIC

C3	91.086	VHL	9.544	DLA	-19.12	RAL	306.66	RAD	6569.8	VEL	14.575	PTH	2.64	VHP	16.068	DPA	-30.91	RAP	269.19
ECC	2.4991																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 56 7	1943.25	-12.20	24.99	190.35	115.75	11 28 30	1343.3	-8.63	18.12
90.00	17 34 43	5870.10	25.73	281.52	203.21	102.26	19 12 33	5270.1	27.16	273.14
100.00	12 5 41	1718.79	-13.99	7.58	189.44	116.69	12 34 19	1118.8	-10.30	.73
100.00	19 7 50	5569.79	27.69	259.89	203.68	101.74	20 40 40	4969.8	29.03	251.35
110.00	12 48 25	1584.89	-18.53	354.91	186.93	119.25	13 14 49	984.9	-14.50	348.13
110.00	20 41 36	5276.46	32.73	238.76	204.82	100.46	22 9 32	4676.5	33.83	229.70

DIFFERENTIAL CORRECTIONS

TDE	-.6297	TRA	-2.4418	TC3	-.2586	BAU	.3161												
RDE	-.6962	RRA	.4239	RC3	-.0226	FAU	.01289												
FDE	.4278	FRA	1.3512	FC3	-.1225	BSP	5156												
BDE	.9388	BRA	2.4784	BC3	.2596	FSP	-205												

MID-COURSE EXECUTION ACCURACY

SGT	1671.4	SGR	499.1	SG3	80.0														
RRT	-.2860	RRF	.2899	RTF	-.8486														
SGB	1744.4	R23	-.0268	R13	.8496														
SG1	1678.1	SG2	476.4	THA	174.69														

ORBIT DETERMINATION ACCURACY

ST	599.8	SR	425.7	SS	505.0														
CRT	.4716	CRS	.5587	CST	.9939														
LSA	819.5	MSA	352.4	SSA	16.9														
EL1	648.4	EL2	347.3	ALF	26.72														

LAUNCH DATE SEP 14 1965 FLIGHT TIME 106.00 ARRIVAL DATE DEC 29 1965

HELIOCENTRIC CONIC DISTANCE 234.657

RL	150.47	LAL	.00	LOL	350.97	VL	23.768	GAL	14.40	AZL	89.78	HCA	89.06	SMA	110.68	ECC	.42792	INC	.2160
RP	107.75	LAP	.22	LOP	80.03	VP	35.558	GAP	-25.29	AZP	90.00	TAL	158.86	TAP	247.92	RCA	63.32	APO	158.04
RC	54.237	GL	.54	GP	-7.06	ZAL	45.94	ZAP	13.55	ETS	145.75	ZAE	137.81	ETE	189.51	ZAC	22.17	ETC	102.87

V1	29.612																		
V2	35.171																		
CLP	11.59																		

PLANETOCENTRIC CONIC

C3	84.058	VHL	9.168	DLA	-18.48	RAL	307.25	RAD	6569.6	VEL	14.332	PTH	2.61	VHP	15.437	DPA	-31.38	RAP	271.38
ECC	2.3834																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 51 42	1950.73	-12.42	25.42	189.71	115.65	11 24 13	1350.7	-8.86	18.55
90.00	17 43 51	5826.79	26.32	278.49	202.28	100.85	19 20 57	5226.8	27.55	270.03
100.00	12 1 56	1724.12	-14.16	7.89	188.83	116.60	12 30 40	1124.1	-10.47	1.04
100.00	19 16 18	5528.63	28.22	256.95	202.68	100.28	20 48 27	4928.6	29.35	248.33
110.00	12 45 57	1586.17	-18.58	354.99	186.39	119.22	13 12 23	986.2	-14.54	348.20
110.00	20 48 46	5239.33	33.15	235.95	203.65	98.84	22 16 5	4639.3	34.02	226.81

DIFFERENTIAL CORRECTIONS

TDE	-.6380	TRA	-2.4579	TC3	-.2658	BAU	.3004												
RDE	-.6510	RRA	.4268	RC3	-.0280	FAU	.01322												
FDE	.4553	FRA	1.4032	FC3	-.1362	BSP	5397												
BDE	.9115	BRA	2.4947	BC3	.2673	FSP	-224												

MID-COURSE EXECUTION ACCURACY

SGT	1737.7	SGR	497.2	SG3	86.3														
RRT	-.3105	RRF	.3162	RTF	-.8577														
SGB	1807.4	R23	-.0303	R13	.8588														
SG1	1745.0	SG2	470.6	THA	174.52														

ORBIT DETERMINATION ACCURACY

ST	628.7	SR	415.5	SS	530.1														
CRT	.4641	CRS	.5592	CST	.9930														
LSA	852.8	MSA	348.2	SSA	17.0														
EL1	669.7	EL2	345.5	ALF	23.72														

LAUNCH DATE SEP 14 1965 FLIGHT TIME 108.00 ARRIVAL DATE DEC 31 1965

HELIOCENTRIC CONIC DISTANCE 241.352

RL	150.47	LAL	.00	LOL	350.97	VL	24.044	GAL	13.80	AZL	89.59	HCA	92.28	SMA	111.91	ECC	.41090	INC	.4073
RP	107.72	LAP	.41	LOP	83.25	VP	35.753	GAP	-24.17	AZP	90.02	TAL	158.32	TAP	250.60	RCA	65.93	APO	157.89
RC	52.511	GL	1.08	GP	-7.47	ZAL	45.29	ZAP	12.67	ETS	141.06	ZAE	138.96	ETE	191.14	ZAC	23.15	ETC	107.14

V1	29.612																		
V2	35.181																		
CLP	10.27																		

PLANETOCENTRIC CONIC

C3	77.613	VHL	8.810	DLA	-17.80	RAL	307.78	RAD	6569.5	VEL	14.105	PTH	2.57	VHP	14.825	DPA	-31.86	RAP	273.59
ECC	2.2773																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 46 48	1958.98	-12.66	25.91	189.00	115.54	11 19 27	1359.0	-9.12	19.02
90.00	17 52 58	5782.12	26.85	275.32	201.22	99.35	19 29 20	5182.1	27.87	266.81
100.00	11 57 42	1730.24	-14.34	8.25	188.16	116.51	12 26 32	1130.2	-10.67	1.39
100.00	19 24 46	5486.08	28.70	253.88	201.55	98.73	20 56 12	4886.1	29.61	245.19
110.00	12 43 1	1588.21	-18.64	355.11	185.79	119.18	13 9 30	988.2	-14.61	348.31
110.00	20 55 55	5200.88	33.52	233.00	202.34	97.14	22 22 36	4600.9	34.14	223.82

DIFFERENTIAL CORRECTIONS

TDE	-.6450	TRA	-2.4726	TC3	-.2720	BAU	.2845												
RDE	-.6062	RRA	.4301	RC3	-.0342	FAU	.01359												
FDE	.4844	FRA	1.4582	FC3	-.1516	BSP	5648												
BDE	.8852	BRA	2.5097	BC3	.2742	FSP	-244												

MID-COURSE EXECUTION ACCURACY

SGT	1805.1	SGR	495.4	SG3	93.2														
RRT	-.3376	RRF	.3454	RTF	-.8664														
SGB	1871.8	R23	-.0342	R13	.8675														
SG1	1813.4	SG2	464.2	THA	174.33														

ORBIT DETERMINATION ACCURACY

ST	658.0	SR	404.0	SS	556.3														
CRT	.4543	CRS	.5578	CST	.9920														
LSA	887.4	MSA	343.2	SSA	17.0														
EL1	692.2	EL2	342.1	ALF	20.92														

LAUNCH DATE SEP 14 1965 FLIGHT TIME 110.00 ARRIVAL DATE JAN 2 1966

HELIOCENTRIC CONIC DISTANCE 248.077

RL	150.47	LAL	.00	LOL	350.97	VL	24.302	GAL	13.22	AZL	89.40	HCA	95.51	SMA	113.10	ECC	.39460	INC	.5993	VI	29.612
RP	107.69	LAP	.60	LOP	86.48	VP	35.937	GAP	-23.09	AZP	90.06	TAL	157.81	TAP	253.32	RCA	68.47	APO	157.73	V2	35.191
RC	50.858	GL	1.67	GP	-7.92	ZAL	44.70	ZAP	11.92	ETS	135.54	ZAE	140.20	ETE	193.02	ZAC	24.28	ETC	111.02	CLP	8.94

PLANETOCENTRIC CONIC

C3	71.710	VHL	8.468	DLA	-17.08	RAL	308.25	RAD	6569.4	VEL	13.895	PTH	2.54	VHP	14.232	DPA	-32.36	RAP	275.80	ECC	2.1802

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 41 24	1968.22	-12.93	26.45	188.23	115.41	11 14 12	1368.2	-9.40	19.55
90.00	18 2 5	5736.01	27.32	272.03	200.02	97.76	19 37 41	5136.0	28.11	263.45
100.00	11 52 57	1737.36	-14.56	8.67	187.41	116.40	12 21 54	1137.4	-10.90	1.79
100.00	19 33 14	5442.10	29.11	250.68	200.29	97.09	21 3 56	4842.1	29.79	241.94
110.00	12 39 36	1591.19	-18.74	355.28	185.12	119.12	13 6 7	991.2	-14.72	348.48
110.00	21 3 4	5161.04	33.81	229.93	200.89	95.34	22 29 5	4561.0	34.18	-220.71

DIFFERENTIAL CORRECTIONS

TDE	-.6516	TRA	-2.4862	TC3	-.2773	BAU	.2688												
RDE	-.5620	RRA	.4340	RC3	-.0414	FAU	.01400												
FDE	.5155	FRA	1.5167	FC3	-.1690	BSP	5898												
BDE	.8605	BRA	2.5238	BC3	.2804	FSP	-266												

MID-COURSE EXECUTION ACCURACY

SGT	1874.0	SGR	493.8	SG3	100.6						
RRT	-.3674	RRF	.3777	RTF	-.8746						
SGB	1937.9	R23	-.0388	R13	.8758						
SG1	1883.3	SG2	457.0	THA	174.12						

ORBIT DETERMINATION ACCURACY

ST	688.0	SR	391.2	SS	583.9
CRT	.4422	CRS	.5540	CST	.9909
LSA	923.7	MSA	337.3	SSA	17.1
EL1	716.0	EL2	337.2	ALF	18.31

LAUNCH DATE SEP 14 1965 FLIGHT TIME 112.00 ARRIVAL DATE JAN 4 1966

HELIOCENTRIC CONIC DISTANCE 254.829

RL	150.47	LAL	.00	LOL	350.97	VL	24.545	GAL	12.66	AZL	89.21	HCA	98.74	SMA	114.25	ECC	.37903	INC	.7933	VI	29.612
RP	107.66	LAP	.78	LOP	89.71	VP	36.110	GAP	-22.04	AZP	90.12	TAL	157.34	TAP	256.08	RCA	70.95	APO	157.56	V2	35.200
RC	49.288	GL	2.33	GP	-8.42	ZAL	44.15	ZAP	11.32	ETS	129.16	ZAE	141.51	ETE	195.18	ZAC	25.56	ETC	114.50	CLP	7.60

PLANETOCENTRIC CONIC

C3	66.309	VHL	8.143	DLA	-16.30	RAL	308.65	RAD	6569.3	VEL	13.699	PTH	2.50	VHP	13.658	DPA	-32.87	RAP	278.03	ECC	2.0913

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 35 27	1978.68	-13.23	27.07	187.40	115.26	11 8 25	1378.7	-9.72	20.15
90.00	18 11 16	5688.41	27.71	268.60	198.70	96.08	19 46 4	5088.4	28.26	259.98
100.00	11 47 39	1745.70	-14.81	9.16	186.61	116.26	12 16 44	1145.7	-11.16	2.27
100.00	19 41 45	5396.62	29.45	247.34	198.90	95.37	21 11 41	4796.6	29.88	238.56
110.00	12 35 39	1595.31	-18.88	355.53	184.39	119.04	13 2 14	995.3	-14.86	348.71
110.00	21 10 14	5119.77	34.03	226.73	199.31	93.46	22 35 33	4519.8	34.13	217.48

DIFFERENTIAL CORRECTIONS

TDE	-.6573	TRA	-2.4988	TC3	-.2812	BAU	.2531												
RDE	-.5181	RRA	.4387	RC3	-.0497	FAU	.01445												
FDE	.5489	FRA	1.5791	FC3	-.1886	BSP	6153												
BDE	.8369	BRA	2.5370	BC3	.2855	FSP	-290												

MID-COURSE EXECUTION ACCURACY

SGT	1944.0	SGR	492.8	SG3	108.7						
RRT	-.4003	RRF	.4134	RTF	-.8823						
SGB	2005.5	R23	-.0439	R13	.8837						
SG1	1954.5	SG2	449.2	THA	173.88						

ORBIT DETERMINATION ACCURACY

ST	718.4	SR	377.1	SS	613.0
CRT	.4267	CRS	.5475	CST	.9897
LSA	961.5	MSA	330.7	SSA	17.2
EL1	740.9	EL2	330.7	ALF	15.87

LAUNCH DATE SEP 14 1965 FLIGHT TIME 114.00 ARRIVAL DATE JAN 6 1966

HELIOCENTRIC CONIC DISTANCE 261.604

RL	150.47	LAL	.00	LOL	350.97	VL	24.772	GAL	12.13	AZL	89.01	HCA	101.97	SMA	115.37	ECC	.36416	INC	.9909	VI	29.612
RP	107.63	LAP	.97	LOP	92.95	VP	36.273	GAP	-21.02	AZP	90.21	TAL	156.90	TAP	258.87	RCA	73.35	APO	157.38	V2	35.209
RC	47.809	GL	3.06	GP	-8.97	ZAL	43.67	ZAP	10.92	ETS	121.95	ZAE	142.88	ETE	197.68	ZAC	26.95	ETC	117.59	CLP	6.26

PLANETOCENTRIC CONIC

C3	61.376	VHL	7.834	DLA	-15.46	RAL	308.99	RAD	6569.1	VEL	13.518	PTH	2.47	VHP	13.104	DPA	-33.41	RAP	280.28	ECC	2.0101

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 28 53	1990.64	-13.58	27.78	186.51	115.09	11 2 4	1390.6	-10.09	20.84
90.00	18 20 31	5639.21	28.01	265.03	197.24	94.32	19 54 30	5039.2	28.32	256.38
100.00	11 41 45	1755.53	-15.11	9.74	185.76	116.10	12 11 1	1155.5	-11.48	2.83
100.00	19 50 20	5349.55	29.70	243.86	197.37	93.55	21 19 29	4749.6	29.88	235.06
110.00	12 31 8	1600.84	-19.06	355.85	183.60	118.93	12 57 49	1000.8	-15.06	349.02
110.00	21 17 26	5077.01	34.15	223.39	197.61	91.49	22 42 3	4477.0	33.98	214.15

DIFFERENTIAL CORRECTIONS

TDE	-.6628	TRA	-2.5106	TC3	-.2839	BAU	.2379												
RDE	-.4745	RRA	.4447	RC3	-.0591	FAU	.01493												
FDE	.5849	FRA	1.6458	FC3	-.2106	BSP	6402												
BDE	.8151	BRA	2.5497	BC3	.2899	FSP	-316												

MID-COURSE EXECUTION ACCURACY

SGT	2015.5	SGR	492.8	SG3	117.6						
RRT	-.4364	RRF	.4526	RTF	-.8896						
SGB	2074.8	R23	-.0499	R13	.8911						
SG1	2027.5	SG2	440.8	THA	173.61						

ORBIT DETERMINATION ACCURACY

ST	749.5	SR	361.5	SS	643.8
CRT	.4074	CRS	.5374	CST	.9884
LSA	1001.1	MSA	323.4	SSA	17.3
EL1	767.1	EL2	322.6	ALF	13.56

LAUNCH DATE SEP 14 1965 FLIGHT TIME 116.00 ARRIVAL DATE JAN 8 1966

HELIOCENTRIC CONIC DISTANCE 268.398

RL	150.47	LAL	.00	LOL	350.97	VL	24.984	GAL	11.62	AZL	88.81	HCA	105.21	SMA	116.44	ECC	.35001	INC	1.1934	VI	29.612
RP	107.61	LAP	1.15	LOP	96.18	VP	36.426	GAP	-20.04	AZP	90.31	TAL	156.50	TAP	261.71	RCA	75.68	APO	157.19	V2	35.217
RC	46.433	GL	3.88	GP	-9.59	ZAL	43.24	ZAP	10.76	ETS	114.12	ZAE	144.29	ETE	200.58	ZAC	28.47	ETC	120.30	CLP	4.91

PLANETOCENTRIC CONIC

C3	56.879	VHL	7.542	DLA	-14.56	RAL	309.26	RAD	6569.0	VEL	13.351	PTH	2.44	VHP	12.568	DPA	-33.98	RAP	282.53	ECC	1.9361

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 21 41	2004.39	-13.98	28.59	185.58	114.88	10 55 5	1404.4	-10.51	21.63
90.00	18 29 53	5588.32	28.22	261.33	195.67	92.47	20 3 1	4988.3	28.26	252.66
100.00	11 35 13	1767.12	-15.45	10.43	184.85	115.91	12 4 40	1167.1	-11.84	3.49
100.00	19 59 1	5300.82	29.85	240.25	195.73	91.66	21 27 22	4700.8	29.76	231.44
110.00	12 26 1	1608.01	-19.30	356.27	182.77	118.78	12 52 49	1008.0	-15.31	349.43
110.00	21 24 43	5032.67	34.18	219.93	195.78	89.44	22 48 36	4432.7	33.72	210.72

DIFFERENTIAL CORRECTIONS

TDE	-.6674	TRA	-2.5210	TC3	-.2846	BAU	.2228												
RDE	-.4311	RRA	.4522	RC3	-.0698	FAU	.01546												
FDE	.6236	FRA	1.7170	FC3	-.2353	BSP	6663												
BDE	.7945	BRA	2.5612	BC3	.2930	FSP	-344												

MID-COURSE EXECUTION ACCURACY

SGT	2087.3	SGR	494.3	SG3	127.2						
RRT	-.4759	RRF	.4955	RTF	-.8965						
SGB	2145.0	R23	-.0566	R13	.8982						
SG1	2101.1	SG2	431.9	THA	173.28						

ORBIT DETERMINATION ACCURACY

ST	780.8	SR	344.4	SS	676.4
CRT	.3826	CRS	.5225	CST	.9871
LSA	1042.1	MSA	315.3	SSA	17.3
EL1	793.9	EL2	312.9	ALF	11.37

LAUNCH DATE SEP 14 1965 FLIGHT TIME 118.00 ARRIVAL DATE JAN 10 1966

HELIOCENTRIC CONIC DISTANCE 275.208

RL	150.47	LAL	.00	LOL	350.97	VL	25.183	GAL	11.13	AZL	88.60	HCA	108.44	SMA	117.47	ECC	.33654	INC	1.4022	V1	29.612
RP	107.58	LAP	1.33	LOP	99.42	VP	36,570	GAP	-19.09	AZP	90.44	TAL	156.13	TAP	264.57	RCA	77.93	APO	157.00	V2	35.224
RC	45.168	GL	4.77	GP	-10.28	ZAL	42.87	ZAP	10.86	ETS	106.00	ZAE	145.70	ETE	203.96	ZAC	30.08	ETC	122.67	CLP	3.54

PLANETOCENTRIC CONIC

C3 52.788 VHL 7.266 DLA -13.58 RAL 309.46 RAD 6568.9 VEL 13.197 PTH 2.41 VHP 12.050 DPA -34.59 RAP 284.79 ECC 1.8688

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 13 47	2020.27	-14.43	29.54	184.61	114.63	10 47 27	1420.3	-10.99	22.55
90.00	18 39 24	5535.61	28.31	257.47	193.98	90.54	20 11 39	4935.6	28.09	248.81
100.00	11 28 0	1780.81	-15.86	11.24	183.91	115.68	11 57 40	1180.8	-12.27	4.28
100.00	20 7 52	5250.30	29.89	236.49	193.98	89.68	21 35 22	4650.3	29.53	227.71
110.00	12 20 14	1617.19	-19.60	356.82	181.90	118.58	12 47 11	1017.2	-15.63	349.94
110.00	21 32 7	4986.69	34.09	216.34	193.86	87.32	22 55 13	4386.7	33.34	207.18

DIFFERENTIAL CORRECTIONS

TDE	-.6721	TRA	-2.5305	TC3	-.2836	BAU	.2084												
RDE	-.3876	RRA	.4617	RC3	-.0821	FAU	.01602												
FDE	.6660	FRA	1.7933	FC3	-.2628	BSP	6917												
BDE	.7759	BRA	2.5723	BC3	.2953	FSP	-375												

MID-COURSE EXECUTION ACCURACY

SGT	2159.9	SGR	497.9	SG3	137.7						
RRT	-.5186	RRF	.5419	RTF	-.9031						
SGB	2216.6	R23	-.0642	R13	.9049						
SG1	2175.9	SG2	422.6	THA	172.91						

ORBIT DETERMINATION ACCURACY

ST	812.6	SR	325.7	SS	711.1						
CRT	.3508	CRS	.5011	CST	.9856						
LSA	1085.3	MSA	306.7	SSA	17.4						
EL1	821.9	EL2	301.5	ALF	9.26						

LAUNCH DATE SEP 14 1965 FLIGHT TIME 120.00 ARRIVAL DATE JAN 12 1966

HELIOCENTRIC CONIC DISTANCE 282.029

RL	150.47	LAL	.00	LOL	350.97	VL	25.369	GAL	10.66	AZL	88.38	HCA	111.68	SMA	118.45	ECC	.32375	INC	1.6191	V1	29.612
RP	107.56	LAP	1.50	LOP	102.66	VP	36,705	GAP	-18.17	AZP	90.60	TAL	155.80	TAP	267.48	RCA	80.10	APO	156.80	V2	35.231
RC	44.025	GL	5.77	GP	-11.06	ZAL	42.58	ZAP	11.26	ETS	98.03	ZAE	147.08	ETE	207.89	ZAC	31.80	ETC	124.72	CLP	2.15

PLANETOCENTRIC CONIC

C3 49.079 VHL 7.006 DLA -12.51 RAL 309.59 RAD 6568.8 VEL 13.055 PTH 2.38 VHP 11.552 DPA -35.26 RAP 287.07 ECC 1.8077

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 5 6	2038.66	-14.95	30.64	183.61	114.33	10 39 5	1438.7	-11.54	23.62
90.00	18 49 7	5480.97	28.28	253.48	192.19	88.54	20 20 28	4881.0	27.78	244.85
100.00	11 20 1	1796.97	-16.33	12.21	182.95	115.39	11 49 58	1197.0	-12.78	5.22
100.00	20 16 53	5197.89	29.81	232.60	192.13	87.63	21 43 31	4597.9	29.16	223.85
110.00	12 13 45	1628.67	-19.97	357.50	181.01	118.34	12 40 53	1028.7	-16.03	350.59
110.00	21 39 39	4938.95	33.88	212.63	191.83	85.13	23 1 57	4339.0	32.83	203.55

DIFFERENTIAL CORRECTIONS

TDE	-.6767	TRA	-2.5391	TC3	-.2802	BAU	.1943												
RDE	-.3438	RRA	.4735	RC3	-.0959	FAU	.01664												
FDE	.7122	FRA	1.8751	FC3	-.2935	BSP	7177												
BDE	.7591	BRA	2.5829	BC3	.2962	FSP	-409												

MID-COURSE EXECUTION ACCURACY

SGT	2232.7	SGR	504.5	SG3	149.1						
RRT	-.5641	RRF	.5913	RTF	-.9093						
SGB	2289.0	R23	-.0729	R13	.9113						
SG1	2251.4	SG2	413.1	THA	172.48						

ORBIT DETERMINATION ACCURACY

ST	844.8	SR	305.4	SS	748.0						
CRT	.3091	CRS	.4705	CST	.9841						
LSA	1130.3	MSA	297.4	SSA	17.4						
EL1	850.7	EL2	288.4	ALF	7.21						

LAUNCH DATE SEP 14 1965 FLIGHT TIME 122.00 ARRIVAL DATE JAN 14 1966

HELIOCENTRIC CONIC DISTANCE 288.858

RL	150.47	LAL	.00	LOL	350.97	VL	25.542	GAL	10.22	AZL	88.15	HCA	114.91	SMA	119.39	ECC	.31163	INC	1.8461	V1	29.612
RP	107.55	LAP	1.67	LOP	105.90	VP	36,830	GAP	-17.27	AZP	90.78	TAL	155.51	TAP	270.43	RCA	82.18	APO	156.60	V2	35.237
RC	43.015	GL	6.88	GP	-11.93	ZAL	42.37	ZAP	11.95	ETS	90.59	ZAE	148.34	ETE	212.44	ZAC	33.61	ETC	126.48	CLP	.75

PLANETOCENTRIC CONIC

C3 45.728 VHL 6.762 DLA -11.35 RAL 309.65 RAD 6568.7 VEL 12.926 PTH 2.36 VHP 11.073 DPA -36.00 RAP 289.36 ECC 1.7526

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 55 35	2059.99	-15.54	31.92	182.60	113.97	10 29 54	1460.0	-12.17	24.87
90.00	18 59 6	5424.22	28.11	249.33	190.31	86.47	20 29 30	4824.2	27.33	240.76
100.00	11 11 12	1816.02	-16.88	13.35	181.96	115.04	11 41 28	1216.0	-13.37	6.32
100.00	20 26 9	5143.42	29.59	228.56	190.20	85.52	21 51 53	4543.4	28.65	219.88
110.00	12 6 29	1642.86	-20.43	358.35	180.09	118.02	12 33 52	1042.9	-16.52	351.40
110.00	21 47 21	4889.34	33.52	208.80	189.73	82.89	23 8 51	4289.3	32.18	199.83

DIFFERENTIAL CORRECTIONS

TDE	-.6804	TRA	-2.4747	TC3	-.2732	BAU	.1804												
RDE	-.2994	RRA	.4894	RC3	-.1115	FAU	.01729												
FDE	.7633	FRA	1.9630	FC3	-.3274	BSP	7486												
BDE	.7434	BRA	2.5227	BC3	.2951	FSP	-447												

MID-COURSE EXECUTION ACCURACY

SGT	2245.6	SGR	515.7	SG3	161.5						
RRT	-.6066	RRF	.6436	RTF	-.9144						
SGB	2304.1	R23	-.0881	R13	.9170						
SG1	2268.0	SG2	405.9	THA	171.80						

ORBIT DETERMINATION ACCURACY

ST	862.6	SR	283.7	SS	787.5						
CRT	.2651	CRS	.4258	CST	.9848						
LSA	1167.8	MSA	284.0	SSA	17.4						
EL1	866.3	EL2	272.4	ALF	5.53						

LAUNCH DATE SEP 14 1965 FLIGHT TIME 124.00 ARRIVAL DATE JAN 16 1966

HELIOCENTRIC CONIC DISTANCE 295.693

RL	150.47	LAL	.00	LOL	350.97	VL	25,704	GAL	9.80	AZL	87.91	HCA	118.15	SMA	120.29	ECC	.30017	INC	2.0855	V1	29.612
RP	107.53	LAP	1.84	LOP	109.14	VP	36,948	GAP	-16.40	AZP	90.98	TAL	155.26	TAP	273.41	RCA	84.18	APO	156.39	V2	35.242
RC	42.147	GL	8.11	GP	-12.92	ZAL	42.24	ZAP	12.93	ETS	83.99	ZAE	149.43	ETE	217.65	ZAC	35.51	ETC	127.95	CLP	-.68

PLANETOCENTRIC CONIC

C3 42.716 VHL 6.536 DLA -10.08 RAL 309.63 RAD 6568.6 VEL 12.809 PTH 2.33 VHP 10.615 DPA -36.82 RAP 291.67 ECC 1.7030

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 45 7	2084.75	-16.22	33.43	181.58	113.53	10 19 52	1484.7	-12.90	26.32
90.00	19 9 23	5365.17	27.79	245.04	188.36	84.34	20 38 49	4765.2	26.72	236.54
100.00	11 1 28	1838.42	-17.52	14.71	180.97	114.61	11 32 7	1238.4	-14.06	7.63
100.00	20 35 43	5086.73	29.21	224.39	188.19	83.36	22 0 30	4486.7	27.98	215.80
110.00	11 58 23	1660.21	-20.98	359.39	179.18	117.63	12 26 3	1060.2	-17.11	352.40
110.00	21 55 18	4837.71	33.02	204.86	187.56	80.61	23 15 56	4237.7	31.37	196.02

DIFFERENTIAL CORRECTIONS

TDE	-.6873	TRA	-2.5540	TC3	-.2663	BAU	.1690												
RDE	-.2538	RRA	.5070	RC3	-.1292	FAU	.01798												
FDE	.8197	FRA	2.0574	FC3	-.3644	BSP	7698												
BDE	.7327	BRA	2.6039	BC3	.2960	FSP	-487												

MID-COURSE EXECUTION ACCURACY

SGT	2378.2	SGR	530.9	SG3	174.9						
RRT	-.6604	RRF	.6955	RTF	-.9207						
SGB	2436.7	R23	-.0935	R13	.9233						
SG1	2404.6	SG2	394.3	THA	171.38						

ORBIT DETERMINATION ACCURACY

ST	910.3	SR	260.5	SS	829.8						
CRT	.1760	CRS	.3623	CST	.9808						
LSA	1227.8	MSA	277.8	SSA	17.3						
EL1	911.5	EL2	256.1	ALF	3.13						

LAUNCH DATE SEP 14 1965 FLIGHT TIME 126.00 ARRIVAL DATE JAN 18 1966

HELIOCENTRIC CONIC DISTANCE 302.530

RL	150.47	LAL	.00	LOL	350.97	VL	25.855	GAL	9.40	AZL	87.66	HCA	121.39	SMA	121.14	ECC	.28933	INC	2.3399	VI	29.612
RP	107.51	LAP	2.00	LOP	112.38	VP	37.057	GAP	-15.56	AZP	91.22	TAL	155.04	TAP	276.43	RCA	86.09	APO	156.19	V2	35.247
RC	41.430	GL	9.47	GP	-14.04	ZAL	42.22	ZAP	14.20	ETS	78.36	ZAE	150.25	ETE	223.51	ZAC	37.50	ETC	129.18	CLP	-2.13

PLANETOCENTRIC CONIC

C3	40.028	VHL	6.327	DLA	-8.70	RAL	309.53	RAD	6568.5	VEL	12.704	PTH	2.31	VHP	10.176	DPA	-37.74	RAP	294.01	ECC	1.6588

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 33 38	2113.51	-16.99	35.18	180.58	113.00	10 8 51	1513.5	-13.74	28.02
90.00	19 20 5	5303.61	27.30	240.61	186.35	82.17	20 48 29	4703.6	25.93	232.21
100.00	10 50 44	1864.73	-18.26	16.31	180.00	114.08	11 21 49	1264.7	-14.86	9.17
100.00	20 45 39	5027.62	28.67	220.08	186.12	81.15	22 9 27	4427.6	27.15	211.61
110.00	11 49 21	1681.22	-21.64	.67	178.28	117.13	12 17 22	1081.2	-17.82	353.61
110.00	22 3 32	4783.90	32.35	200.80	185.34	78.29	23 23 16	4183.9	30.40	192.13

DIFFERENTIAL CORRECTIONS

TDE	-.6939	TRA	-2.5605	TC3	-.2555	BAU	.1583
RDE	-.2066	RRA	.5301	RC3	-.1490	FAU	.01870
FDE	.8825	FRA	2.1582	FC3	-.4045	BSP	7956
BDE	.7240	BRA	2.6148	BC3	.2957	FSP	-530

MID-COURSE EXECUTION ACCURACY

SGT	2449.9	SGR	553.5	SG3	189.5		
RRT	-.7085	RRF	.7473	RTF	-.9259		
SGB	2511.7	R23	-.1058	R13	.9289		
SG1	2481.9	SG2	385.6	THA	170.68		

ORBIT DETERMINATION ACCURACY

ST	943.5	SR	237.2	SS	875.2		
CRT	.0675	CRS	.2669	CST	.9791		
LSA	1280.8	MSA	267.8	SSA	17.2		
EL1	943.7	EL2	236.6	ALF	1.04		

LAUNCH DATE SEP 14 1965 FLIGHT TIME 128.00 ARRIVAL DATE JAN 20 1966

HELIOCENTRIC CONIC DISTANCE 309.367

RL	150.47	LAL	.00	LOL	350.97	VL	25.995	GAL	9.02	AZL	87.39	HCA	124.63	SMA	121.95	ECC	.27912	INC	2.6124	VI	29.612
RP	107.50	LAP	2.15	LOP	115.63	VP	37.159	GAP	-14.75	AZP	91.49	TAL	154.86	TAP	279.49	RCA	87.91	APO	155.99	V2	35.251
RC	40.873	GL	10.99	GP	-15.31	ZAL	42.31	ZAP	15.72	ETS	73.69	ZAE	150.71	ETE	229.95	ZAC	39.60	ETC	130.17	CLP	-3.61

PLANETOCENTRIC CONIC

C3	37.651	VHL	6.136	DLA	-7.17	RAL	309.34	RAD	6568.5	VEL	12.610	PTH	2.29	VHP	9.760	DPA	-38.79	RAP	296.38	ECC	1.6196

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 20 59	2146.91	-17.87	37.24	179.61	112.34	9 56 46	1546.9	-14.69	30.01
90.00	19 31 16	5239.27	26.62	236.02	184.29	79.97	20 58 35	4639.3	24.96	227.74
100.00	10 38 53	1895.58	-19.11	18.21	179.05	113.43	11 10 29	1295.6	-15.78	11.00
100.00	20 56 2	4965.84	27.94	215.63	184.02	78.92	22 18 48	4365.8	26.13	207.30
110.00	11 39 17	1706.48	-22.41	2.22	177.41	116.51	12 7 43	1106.5	-18.67	355.08
110.00	22 12 8	4727.70	31.50	196.64	183.10	75.97	23 30 55	4127.7	29.25	188.16

DIFFERENTIAL CORRECTIONS

TDE	-.6996	TRA	-2.5638	TC3	-.2389	BAU	.1479
RDE	-.1571	RRA	.5585	RC3	-.1712	FAU	.01950
FDE	.9516	FRA	2.2646	FC3	-.4483	BSP	8277
BDE	.7170	BRA	2.6239	BC3	.2939	FSP	-580

MID-COURSE EXECUTION ACCURACY

SGT	2516.9	SGR	584.8	SG3	205.1		
RRT	-.7548	RRF	.7965	RTF	-.9309		
SGB	2583.9	R23	-.1183	R13	.9344		
SG1	2556.1	SG2	377.7	THA	169.83		

ORBIT DETERMINATION ACCURACY

ST	975.1	SR	215.4	SS	923.2		
CRT	-.0870	CRS	.1246	CST	.9771		
LSA	1335.1	MSA	258.2	SSA	17.0		
EL1	975.3	EL2	214.6	ALF	178.84		

LAUNCH DATE SEP 14 1965 FLIGHT TIME 130.00 ARRIVAL DATE JAN 22 1966

HELIOCENTRIC CONIC DISTANCE 316.201

RL	150.47	LAL	.00	LOL	350.97	VL	26.125	GAL	8.65	AZL	87.09	HCA	127.87	SMA	122.72	ECC	.26951	INC	2.9073	VI	29.612
RP	107.49	LAP	2.29	LOP	118.87	VP	37.253	GAP	-13.95	AZP	91.79	TAL	154.71	TAP	282.58	RCA	89.64	APO	155.79	V2	35.254
RC	40.482	GL	12.69	GP	-16.77	ZAL	42.54	ZAP	17.51	ETS	69.93	ZAE	150.70	ETE	236.79	ZAC	41.81	ETC	130.93	CLP	-5.11

PLANETOCENTRIC CONIC

C3	35.579	VHL	5.965	DLA	-5.49	RAL	309.07	RAD	6568.4	VEL	12.528	PTH	2.27	VHP	9.367	DPA	-40.00	RAP	298.79	ECC	1.5855

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 7 1	2185.74	-18.86	39.66	178.69	111.52	9 43 27	1585.7	-15.77	32.35
90.00	19 43 2	5171.84	25.73	231.28	182.22	77.75	21 9 13	4571.8	23.79	223.15
100.00	10 25 46	1931.71	-20.07	20.46	178.17	112.63	10 57 58	1331.7	-16.83	13.17
100.00	21 6 58	4901.10	27.01	211.05	181.90	76.68	22 28 39	4301.1	24.91	202.88
110.00	11 28 4	1736.67	-23.32	4.09	176.60	115.74	11 57 1	1136.7	-19.66	356.86
110.00	22 21 9	4668.91	30.45	192.38	180.86	73.65	23 38 58	4068.9	27.91	184.11

DIFFERENTIAL CORRECTIONS

TDE	-.7107	TRA	-2.5704	TC3	-.2231	BAU	.1411
RDE	-.1039	RRA	.5939	RC3	-.1956	FAU	.02023
FDE	1.0304	FRA	2.3786	FC3	-.4923	BSP	8521
BDE	.7183	BRA	2.6381	BC3	.2967	FSP	-630

MID-COURSE EXECUTION ACCURACY

SGT	2586.4	SGR	626.8	SG3	221.8		
RRT	-.7966	RRF	.8412	RTF	-.9355		
SGB	2661.2	R23	-.1327	R13	.9396		
SG1	2635.1	SG2	371.9	THA	168.85		

ORBIT DETERMINATION ACCURACY

ST	1009.9	SR	198.9	SS	975.9		
CRT	-.2976	CRS	-.0824	CST	.9755		
LSA	1396.3	MSA	248.7	SSA	16.7		
EL1	1011.7	EL2	189.6	ALF	176.52		

LAUNCH DATE SEP 14 1965 FLIGHT TIME 132.00 ARRIVAL DATE JAN 24 1966

HELIOCENTRIC CONIC DISTANCE 323.029

RL	150.47	LAL	.00	LOL	350.97	VL	26.246	GAL	8.31	AZL	86.77	HCA	131.10	SMA	123.44	ECC	.26048	INC	3.2293	VI	29.612
RP	107.48	LAP	2.43	LOP	122.12	VP	37.341	GAP	-13.18	AZP	92.12	TAL	154.60	TAP	285.70	RCA	91.29	APO	155.59	V2	35.256
RC	40.263	GL	14.57	GP	-18.45	ZAL	42.92	ZAP	19.57	ETS	66.97	ZAE	150.14	ETE	243.74	ZAC	44.15	ETC	131.49	CLP	-6.65

PLANETOCENTRIC CONIC

C3	33.811	VHL	5.815	DLA	-3.64	RAL	308.70	RAD	6568.3	VEL	12.457	PTH	2.25	VHP	8.999	DPA	-41.38	RAP	301.27	ECC	1.5564

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 51 35	2230.91	-19.96	42.52	177.86	110.51	9 28 46	1630.9	-16.99	35.10
90.00	19 55 31	5100.93	24.62	226.39	180.16	75.54	21 20 32	4500.9	22.39	218.43
100.00	10 11 14	1974.01	-21.16	23.14	177.37	111.62	10 44 8	1374.0	-18.03	15.73
100.00	21 18 34	4833.07	25.85	206.32	179.80	74.45	22 39 7	4233.1	23.47	198.34
110.00	11 15 34	1772.59	-24.36	6.36	175.89	114.76	11 45 6	1172.6	-20.81	359.01
110.00	22 30 43	4607.25	29.18	188.03	178.64	71.36	23 47 30	4007.3	26.36	179.98

DIFFERENTIAL CORRECTIONS

TDE	-.7248	TRA	-2.5768	TC3	-.2046	BAU	.1366
RDE	-.0458	RRA	.6376	RC3	-.2223	FAU	.02094
FDE	1.1190	FRA	2.4981	FC3	-.5362	BSP	8768
BDE	.7263	BRA	2.6545	BC3	.3021	FSP	-684

MID-COURSE EXECUTION ACCURACY

SGT	2653.3	SGR	682.0	SG3	239.6		
RRT	-.8333	RRF	.8800	RTF	-.9399		
SGB	2739.5	R23	-.1472	R13	.9446		
SG1	2714.6	SG2	368.5	THA	167.68		

ORBIT DETERMINATION ACCURACY

ST	1045.3	SR	194.3	SS	1032.6		
CRT	-.5507	CRS	-.3493	CST	.9740		
LSA	1462.5	MSA	240.1	SSA	16.2		
EL1	1050.9	EL2	161.3	ALF	174.01		

LAUNCH DATE SEP 14 1965 FLIGHT TIME 134.00 ARRIVAL DATE JAN 26 1966

HELIOCENTRIC CONIC DISTANCE 329.848

RL 150.47 LAL .00 LOL 350.97 VL 26.358 GAL 7.99 AZL 86.42 HCA 134.34 SMA 124.12 ECC .25203 INC 3.5848 VI 29.612
RP 107.48 LAP 2.56 LOP 125.37 VP 37.421 GAP -12.44 AZP 92.51 TAL 154.52 TAP 288.86 RCA 92.84 APO 155.40 V2 35.258
RC 40.219 GL 16.68 GP -20.38 ZAL 43.48 ZAP 21.91 ETS 64.69 ZAE 148.98 ETE 250.49 ZAC 46.64 ETC 131.86 CLP -8.22

PLANETOCENTRIC CONIC

C3 32.353 VHL 5.688 DLA -1.59 RAL 308.23 RAD 6568.3 VEL 12.399 PTH 2.24 VHP 8.661 DPA -42.99 RAP 303.85 ECC 1.5325

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 34 26	2283.52	-21.18	45.90	177.16	109.25	9 12 29	1683.5	-18.36	38.36
90.00	20 8 54	5026.10	23.25	221.33	178.15	73.36	21 32 40	4426.1	20.75	213.55
100.00	9 55 2	2023.51	-22.36	26.32	176.70	110.37	10 28 46	1423.5	-19.39	18.78
100.00	21 30 59	4761.34	24.45	201.46	177.74	72.25	22 50 20	4161.3	21.80	193.67
110.00	11 1 35	1815.20	-25.55	9.10	175.30	113.53	11 31 50	1215.2	-22.14	1.60
110.00	22 40 55	4542.42	27.69	183.57	176.48	69.10	23 56 38	3942.4	24.59	175.77

DIFFERENTIAL CORRECTIONS
TDE -.7394 TRA-2.5803 TC3 -.1794 BAU .1336
RDE .0186 RRA .6909 RC3 -.2515 FAU .02167
FDE 1.2167 FRA 2.6192 FC3 -.5799 BSP 9102
BDE .7396 BRA 2.6712 BC3 .3090 FSP -743

MID-COURSE EXECUTION ACCURACY
SGT 2712.4 SGR 753.0 SG3 257.8
RRT -.8646 RRF .9121 RTF -.9441
SGB 2815.0 R23 -.1603 R13 .9497
SG1 2790.9 SG2 367.7 THA 166.26

ORBIT DETERMINATION ACCURACY
ST 1078.5 SR 209.9 SS 1092.0
CRT -.7812 CRS -.6156 CST .9723
LSA 1531.3 MSA 233.3 SSA 15.5
EL1 1091.1 EL2 129.5 ALF 171.23

LAUNCH DATE SEP 14 1965 FLIGHT TIME 136.00 ARRIVAL DATE JAN 28 1966

HELIOCENTRIC CONIC DISTANCE 336.658

RL 150.47 LAL .00 LOL 350.97 VL 26.462 GAL 7.69 AZL 86.02 HCA 137.58 SMA 124.76 ECC .24412 INC 3.9820 VI 29.612
RP 107.48 LAP 2.68 LOP 128.62 VP 37.495 GAP -11.71 AZP 92.94 TAL 154.47 TAP 292.04 RCA 94.30 APO 155.22 V2 35.259
RC 40.350 GL 19.02 GP -22.61 ZAL 44.25 ZAP 24.55 ETS 63.01 ZAE 147.20 ETE 256.74 ZAC 49.30 ETC 132.06 CLP -9.82

PLANETOCENTRIC CONIC

C3 31.223 VHL 5.588 DLA .68 RAL 307.64 RAD 6568.2 VEL 12.353 PTH 2.23 VHP 8.355 DPA -44.86 RAP 306.57 ECC 1.5139

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 15 16	2344.94	-22.50	49.91	176.63	107.66	8 54 21	1744.9	-19.88	42.22
90.00	20 23 23	4946.80	21.61	216.10	176.22	71.24	21 45 50	4346.8	18.85	208.51
100.00	9 36 56	2081.54	-23.69	30.12	176.21	108.78	10 11 37	1481.5	-20.91	22.43
100.00	21 44 24	4685.43	22.78	196.43	175.77	70.11	23 2 30	4085.4	19.87	188.85
110.00	10 45 54	1865.65	-26.87	12.42	174.90	111.97	11 17 0	1265.7	-23.65	4.74
110.00	22 51 56	4474.08	25.95	179.02	174.40	66.92	24 6 30	3874.1	22.60	171.47

DIFFERENTIAL CORRECTIONS
TDE -.7599 TRA-2.5853 TC3 -.1532 BAU .1341
RDE .0922 RRA .7564 RC3 -.2825 FAU .02227
FDE 1.3265 FRA 2.7407 FC3 -.6175 BSP 9425
BDE .7655 BRA 2.6937 BC3 .3213 FSP -804

MID-COURSE EXECUTION ACCURACY
SGT 2768.5 SGR 842.7 SG3 276.3
RRT -.8897 RRF .9375 RTF -.9480
SGB 2893.9 R23 -.1720 R13 .9547
SG1 2870.1 SG2 371.1 THA 164.58

ORBIT DETERMINATION ACCURACY
ST 1113.4 SR 251.3 SS 1155.4
CRT -.9243 CRS -.8079 CST .9710
LSA 1607.9 MSA 228.2 SSA 14.6
EL1 1137.6 EL2 93.9 ALF 168.13

LAUNCH DATE SEP 14 1965 FLIGHT TIME 138.00 ARRIVAL DATE JAN 30 1966

HELIOCENTRIC CONIC DISTANCE 343.455

RL 150.47 LAL .00 LOL 350.97 VL 26.558 GAL 7.40 AZL 85.57 HCA 140.81 SMA 125.36 ECC .23675 INC 4.4315 VI 29.612
RP 107.48 LAP 2.80 LOP 131.87 VP 37.563 GAP -11.01 AZP 93.44 TAL 154.44 TAP 295.25 RCA 95.68 APO 155.04 V2 35.259
RC 40.657 GL 21.64 GP -25.20 ZAL 45.26 ZAP 27.52 ETS 61.83 ZAE 144.78 ETE 262.28 ZAC 52.18 ETC 132.09 CLP -11.44

PLANETOCENTRIC CONIC

C3 30.455 VHL 5.519 DLA 3.20 RAL 306.93 RAD 6568.2 VEL 12.322 PTH 2.22 VHP 8.090 DPA -47.05 RAP 309.49 ECC 1.5012

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 53 42	2416.88	-23.91	54.72	176.33	105.64	8 33 59	1816.9	-21.53	46.85
90.00	20 39 16	4862.34	19.66	210.67	174.41	69.20	22 0 18	4262.3	16.65	203.28
100.00	9 16 33	2149.69	-25.11	34.68	175.95	106.78	9 52 22	1549.7	-22.57	26.81
100.00	21 59 7	4604.76	20.82	191.25	173.93	68.05	23 15 51	4004.8	17.66	183.88
110.00	10 28 13	1925.36	-28.33	16.46	174.75	109.98	11 0 18	1325.4	-25.35	8.55
110.00	23 3 56	4401.85	23.94	174.38	172.46	64.83	24 17 17	3801.9	20.34	167.07

DIFFERENTIAL CORRECTIONS
TDE -.7879 TRA-2.5927 TC3 -.1263 BAU .1378
RDE .1784 RRA .8366 RC3 -.3141 FAU .02266
FDE 1.4489 FRA 2.8573 FC3 -.6442 BSP 9759
BDE .8079 BRA 2.7243 BC3 .3386 FSP -865

MID-COURSE EXECUTION ACCURACY
SGT 2820.8 SGR 954.6 SG3 294.2
RRT -.9093 RRF .9566 RTF -.9517
SGB 2978.0 R23 -.1809 R13 .9597
SG1 2953.7 SG2 379.4 THA 162.60

ORBIT DETERMINATION ACCURACY
ST 1150.4 SR 320.2 SS 1222.2
CRT -.9843 CRS -.9134 CST .9701
LSA 1693.7 MSA 225.3 SSA 13.5
EL1 1192.9 EL2 54.6 ALF 164.65

LAUNCH DATE SEP 14 1965 FLIGHT TIME 140.00 ARRIVAL DATE FEB 1 1966

HELIOCENTRIC CONIC DISTANCE 350.238

RL 150.47 LAL .00 LOL 350.97 VL 26.646 GAL 7.13 AZL 85.05 HCA 144.05 SMA 125.92 ECC .22989 INC 4.9479 VI 29.612
RP 107.48 LAP 2.90 LOP 135.12 VP 37.625 GAP -10.32 AZP 94.01 TAL 154.44 TAP 298.49 RCA 96.97 APO 154.86 V2 35.258
RC 41.135 GL 24.56 GP -28.21 ZAL 46.56 ZAP 30.87 ETS 61.07 ZAE 141.74 ETE 267.01 ZAC 55.33 ETC 132.00 CLP -13.08

PLANETOCENTRIC CONIC

C3 30.103 VHL 5.487 DLA 6.00 RAL 306.07 RAD 6568.2 VEL 12.308 PTH 2.22 VHP 7.872 DPA -49.60 RAP 312.72 ECC 1.4954

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 29 13	2501.56	-25.34	60.51	176.33	103.08	8 10 54	1901.6	-23.29	52.44
90.00	20 56 56	4771.82	17.37	205.01	172.81	67.28	22 16 28	4171.8	14.15	197.82
100.00	8 53 24	2230.03	-26.57	40.21	176.00	104.23	9 30 34	1630.0	-24.35	32.11
100.00	22 15 26	4518.58	18.54	185.87	172.28	66.12	23 30 44	3918.6	15.15	178.71
110.00	10 8 9	1996.08	-29.88	21.38	174.94	107.44	10 41 25	1396.1	-27.20	13.21
110.00	23 17 10	4325.30	21.64	169.62	170.71	62.87	24 29 15	3725.3	17.83	162.56

DIFFERENTIAL CORRECTIONS
TDE -.8222 TRA-2.5990 TC3 -.0948 BAU .1442
RDE .2813 RRA .9337 RC3 -.3455 FAU .02283
FDE 1.5812 FRA 2.9579 FC3 -.6567 BSP 10198
BDE .8690 BRA 2.7616 BC3 .3583 FSP -926

MID-COURSE EXECUTION ACCURACY
SGT 2862.8 SGR 1091.4 SG3 310.2
RRT -.9244 RRF .9705 RTF -.9552
SGB 3063.8 R23 -.1849 R13 .9648
SG1 3038.6 SG2 392.2 THA 160.24

ORBIT DETERMINATION ACCURACY
ST 1186.4 SR 415.9 SS 1289.7
CRT -.9993 CRS -.9631 CST .9693
LSA 1786.9 MSA 225.3 SSA 12.2
EL1 1257.1 EL2 15.2 ALF 160.69

LAUNCH DATE SEP 14 1965 FLIGHT TIME 142.00 ARRIVAL DATE FEB 3 1966

HELIOCENTRIC CONIC DISTANCE 357.011

RL 150.47 LAL .00 LOL 350.97 VL 26.728 GAL 6.88 AZL 84.45 HCA 147.28 SMA 126.44 ECC .22355 INC 5.5515 V1 29.612
RP 107.48 LAP 3.00 LOP 138.37 VP 37.681 GAP -9.66 AZP 94.67 TAL 154.46 TAP 301.73 RCA 98.17 APO 154.70 V2 35.257
RC 41.780 GL 27.81 GP -31.71 ZAL 48.19 ZAP 34.63 ETS 60.66 ZAE 138.09 ETE 270.93 ZAC 58.80 ETC 131.83 CLP -14.72

PLANETOCENTRIC CONIC

C3 30.270 VHL 5.502 DLA 9.09 RAL 305.06 RAD 6568.2 VEL 12.314 PTH 2.22 VHP 7.717 DPA -52.55 RAP 316.44 ECC 1.4982

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 1 4	2601.98	-26.70	67.54	176.74	99.81	7 44 26	2002.0	-25.07	59.25
90.00	21 16 59	4674.18	14.71	199.08	171.50	65.53	22 34 53	4074.2	11.28	192.08
100.00	8 26 51	2325.30	-27.99	46.93	176.47	100.96	9 5 37	1725.3	-26.19	38.59
100.00	22 33 53	4426.09	15.90	180.27	170.92	64.35	23 47 39	3826.1	12.31	173.31
110.00	9 45 13	2080.08	-31.44	27.43	175.59	104.18	10 19 53	1480.1	-29.17	18.95
110.00	23 32 1	4244.08	19.04	164.76	169.22	61.06	24 42 45	3644.1	15.03	157.93

DIFFERENTIAL CORRECTIONS
TDE -.9601 TRA-2.7008 TC3 -.1849 BAU .1605
RDE .4256 RRA 1.0697 RC3 -.3508 FAU .01971
FDE 1.7855 FRA 3.0978 FC3 -.5638 BSP 8504
BDE 1.0502 BRA 2.9049 BC3 .3966 FSP -854

MID-COURSE EXECUTION ACCURACY
SGT 3025.6 SGR 1272.1 SG3 329.2
RRT -.9296 RRF .9799 RTF -.9576
SGB 3282.2 R23 -.1920 R13 .9692
SG1 3253.1 SG2 436.0 THA 158.24

ORBIT DETERMINATION ACCURACY
ST 1315.2 SR 557.8 SS 1401.6
CRT -.9982 CRS -.9860 CST .9754
LSA 1989.7 MSA 215.5 SSA 11.6
EL1 1428.3 EL2 31.1 ALF 157.04

LAUNCH DATE SEP 14 1965 FLIGHT TIME 144.00 ARRIVAL DATE FEB 5 1966

HELIOCENTRIC CONIC DISTANCE 363.754

RL 150.47 LAL .00 LOL 350.97 VL 26.802 GAL 6.65 AZL 83.73 HCA 150.50 SMA 126.92 ECC .21766 INC 6.2712 V1 29.612
RP 107.49 LAP 3.08 LOP 141.62 VP 37.732 GAP -9.01 AZP 95.46 TAL 154.50 TAP 305.00 RCA 99.30 APO 154.55 V2 35.255
RC 42.583 GL 31.44 GP -35.77 ZAL 50.21 ZAP 38.86 ETS 60.54 ZAE 133.82 ETE 274.12 ZAC 62.65 ETC 131.63 CLP -16.33

PLANETOCENTRIC CONIC

C3 31.087 VHL 5.576 DLA 12.53 RAL 303.84 RAD 6568.2 VEL 12.347 PTH 2.23 VHP 7.643 DPA -55.95 RAP 320.91 ECC 1.5116

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 28 0	2722.40	-27.80	76.18	177.59	95.61	7 13 22	2122.4	-26.73	67.68
90.00	21 40 18	4567.15	11.60	192.76	170.57	63.99	22 56 25	3967.1	8.01	185.93
100.00	7 55 47	2439.28	-29.18	55.19	177.41	96.77	8 36 26	1839.3	-27.94	46.60
100.00	22 55 12	4325.49	12.84	174.36	169.94	62.77	24 7 17	3725.5	9.09	167.58
110.00	9 18 33	2180.29	-32.87	34.89	176.78	99.98	9 54 53	1580.3	-31.14	26.09
110.00	23 48 55	4157.25	16.10	159.74	168.08	59.43	24 58 12	3557.3	11.92	153.12

DIFFERENTIAL CORRECTIONS
TDE -.9791 TRA-2.6720 TC3 -.0949 BAU .1632
RDE .5779 RRA 1.2020 RC3 -.3811 FAU .02021
FDE 1.9004 FRA 3.0989 FC3 -.5629 BSP 10160
BDE 1.1370 BRA 2.9299 BC3 .3928 FSP -958

MID-COURSE EXECUTION ACCURACY
SGT 2989.1 SGR 1461.0 SG3 332.9
RRT -.9415 RRF .9866 RTF -.9614
SGB 3327.1 R23 -.1800 R13 .9748
SG1 3297.0 SG2 446.3 THA 154.79

ORBIT DETERMINATION ACCURACY
ST 1313.2 SR 705.0 SS 1442.4
CRT -.9915 CRS -.9945 CST .9728
LSA 2061.7 MSA 226.3 SSA 9.5
EL1 1488.2 EL2 81.1 ALF 151.88

LAUNCH DATE SEP 14 1965 FLIGHT TIME 146.00 ARRIVAL DATE FEB 7 1966

HELIOCENTRIC CONIC DISTANCE 370.479

RL 150.47 LAL .00 LOL 350.97 VL 26.871 GAL 6.44 AZL 82.85 HCA 153.72 SMA 127.37 ECC .21226 INC 7.1499 V1 29.612
RP 107.50 LAP 3.16 LOP 144.87 VP 37.778 GAP -8.38 AZP 96.42 TAL 154.55 TAP 308.27 RCA 100.33 APO 154.40 V2 35.252
RC 43.538 GL 35.45 GP -40.46 ZAL 52.64 ZAP 43.59 ETS 60.68 ZAE 128.90 ETE 276.73 ZAC 66.96 ETC 131.51 CLP -17.84

PLANETOCENTRIC CONIC

C3 32.835 VHL 5.730 DLA 16.30 RAL 302.38 RAD 6568.3 VEL 12.418 PTH 2.24 VHP 7.678 DPA -59.78 RAP 326.63 ECC 1.5404

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 48 12	2869.36	-28.32	86.89	178.93	90.27	6 36 1	2269.4	-27.98	78.24
90.00	22 8 26	4447.70	7.95	185.89	170.25	62.73	23 22 34	3847.7	4.23	179.18
100.00	7 18 41	2577.57	-29.86	65.40	178.91	91.44	8 1 38	1977.6	-29.34	56.64
100.00	23 20 38	4214.72	9.31	168.03	169.52	61.47	24 30 53	3614.7	5.43	161.39
110.00	8 47 10	2300.73	-33.91	44.13	178.66	94.61	9 25 30	1700.7	-32.90	35.04
110.00	0 12 35	4064.33	12.81	154.54	167.44	58.04	1 20 19	3464.3	8.50	148.10

DIFFERENTIAL CORRECTIONS
TDE-1.0771 TRA-2.7065 TC3 -.0765 BAU .1723
RDE .7872 RRA 1.3700 RC3 -.3849 FAU .01827
FDE 2.0453 FRA 3.0748 FC3 -.4818 BSP 10683
BDE 1.3341 BRA 3.0335 BC3 .3925 FSP -970

MID-COURSE EXECUTION ACCURACY
SGT 3019.6 SGR 1688.6 SG3 331.8
RRT -.9480 RRF .9908 RTF -.9646
SGB 3459.6 R23 -.1670 R13 .9799
SG1 3427.0 SG2 473.7 THA 151.48

ORBIT DETERMINATION ACCURACY
ST 1369.5 SR 896.2 SS 1499.1
CRT -.9859 CRS -.9982 CST .9744
LSA 2207.3 MSA 231.5 SSA 7.9
EL1 1631.8 EL2 126.0 ALF 146.95

LAUNCH DATE SEP 14 1965 FLIGHT TIME 148.00 ARRIVAL DATE FEB 9 1966

HELIOCENTRIC CONIC DISTANCE 377.178

RL 150.47 LAL .00 LOL 350.97 VL 26.933 GAL 6.24 AZL 81.75 HCA 156.94 SMA 127.78 ECC .20730 INC 8.2541 V1 29.612
RP 107.51 LAP 3.22 LOP 148.12 VP 37.819 GAP -7.77 AZP 97.60 TAL 154.61 TAP 311.55 RCA 101.29 APO 154.27 V2 35.249
RC 44.633 GL 39.86 GP -45.84 ZAL 55.55 ZAP 48.83 ETS 61.10 ZAE 123.33 ETE 278.98 ZAC 71.79 ETC 131.65 CLP -19.12

PLANETOCENTRIC CONIC

C3 35.967 VHL 5.997 DLA 20.41 RAL 300.61 RAD 6568.4 VEL 12.543 PTH 2.27 VHP 7.870 DPA -63.94 RAP 334.49 ECC 1.5919

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 57 59	3054.81	-27.63	100.40	180.63	83.55	5 48 54	2454.8	-28.24	91.79
90.00	22 44 33	4308.24	3.53	178.02	170.86	61.89	23 56 21	3708.2	-.26	171.39
100.00	6 32 38	2749.58	-29.47	78.16	180.84	84.75	7 18 28	2149.6	-29.89	69.38
100.00	23 52 35	4088.71	5.15	161.00	169.97	60.51	25 0 43	3488.7	1.18	154.45
110.00	8 9 17	2447.22	-34.12	55.55	181.20	87.86	8 50 4	1847.2	-34.04	46.31
110.00	0 36 21	3963.83	9.13	149.09	167.53	56.92	1 42 25	3363.8	4.71	142.79

DIFFERENTIAL CORRECTIONS
TDE-1.2208 TRA-2.7650 TC3 -.0660 BAU .1795
RDE 1.0633 RRA 1.5628 RC3 -.3673 FAU .01526
FDE 2.1717 FRA 2.9707 FC3 -.3673 BSP 11267
BDE 1.6189 BRA 3.1761 BC3 .3732 FSP -950

MID-COURSE EXECUTION ACCURACY
SGT 3051.4 SGR 1940.1 SG3 319.4
RRT -.9527 RRF .9935 RTF -.9680
SGB 3615.9 R23 -.1493 R13 .9847
SG1 3580.9 SG2 502.2 THA 148.09

ORBIT DETERMINATION ACCURACY
ST 1440.6 SR 1122.7 SS 1540.2
CRT -.9824 CRS -.9996 CST .9770
LSA 2377.4 MSA 236.8 SSA 6.5
EL1 1818.8 EL2 166.2 ALF 142.19

LAUNCH DATE SEP 14 1965 FLIGHT TIME 150.00 ARRIVAL DATE FEB 11 1966

HELIOCENTRIC CONIC DISTANCE 383.848

RL	150.47	LAL	.00	LOL	350.97	VL	26.990	GAL	6.06	AZL	80.31	HCA	160.14	SMA	128.16	ECC	.20279	INC	9.6928
RP	107.52	LAP	3.28	LOP	151.37	VP	37.856	GAP	-7.17	AZP	99.13	TAL	154.67	TAP	314.81	RCA	102.17	APO	154.15
RC	45.858	GL	44.65	GP	-51.90	ZAL	58.97	ZAP	54.54	ETS	61.90	ZAE	117.09	ETE	281.22	ZAC	77.20	ETC	132.36

V1	29.612	V2	35.244	CLP	-19.93														

PLANETOCENTRIC CONIC

C3	41.347	VHL	6.430	DLA	24.83	RAL	298.44	RAD	6568.6	VEL	12.756	PTH	2.32	VHP	8.292	DPA	-68.08	RAP	346.13

ECC	1.6805																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	3 47 34	3309.61	-24.39	118.32	181.96	75.16	4 42 44	2709.6	-26.20	110.12
90.00	23 37 41	4123.89	-2.42	167.73	173.12	61.78	24 46 24	3523.9	-6.17	161.07
100.00	5 31 8	2975.70	-26.95	94.47	182.68	76.54	6 20 44	2375.7	-28.53	86.02
100.00	0 40 44	3933.03	-.12	152.43	171.84	60.11	1 46 17	3333.0	-4.09	145.90
110.00	7 21 54	2629.18	-32.77	69.56	184.09	79.68	8 5 43	2029.2	-33.85	60.49
110.00	1 6 27	3852.31	4.94	143.17	168.69	56.13	2 10 40	3252.3	.46	136.96

DIFFERENTIAL CORRECTIONS								MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY			
TDE	-1.4440	TRA	-2.8668	TC3	-.0658	BAU	.1810	SGT	3095.9	SGR	2197.9	SG3	293.8	ST	1539.0	SR	1380.1	SS	1558.5
RDE	1.4337	RRA	1.7725	RC3	-.3208	FAU	.01104	RRT	-.9563	RRF	.9949	RTF	-.9718	CRT	-.9814	CRS	-1.0000	CST	.9809
FDE	2.2627	FRA	2.7727	FC3	-.2311	BSP	11910	SGB	3796.7	R23	-.1278	R13	.9891	LSA	2577.6	MSA	240.5	SSA	5.2
BDE	2.0348	BRA	3.3705	BC3	.3275	FSP	-890	SG1	3759.7	SG2	529.3	THA	145.03	EL1	2057.6	EL2	198.1	ALF	138.17

LAUNCH DATE SEP 14 1965 FLIGHT TIME 152.00 ARRIVAL DATE FEB 13 1966

HELIOCENTRIC CONIC DISTANCE 390.480

RL	150.47	LAL	.00	LOL	350.97	VL	27.042	GAL	5.91	AZL	78.34	HCA	163.33	SMA	128.51	ECC	.19872	INC	11.6568
RP	107.54	LAP	3.32	LOP	154.62	VP	37.888	GAP	-6.60	AZP	101.18	TAL	154.72	TAP	318.05	RCA	102.97	APO	154.04
RC	47.202	GL	49.73	GP	-58.59	ZAL	62.89	ZAP	60.62	ETS	63.55	ZAE	110.19	ETE	284.11	ZAC	83.23	ETC	134.28

V1	29.612	V2	35.239	CLP	-19.69														

PLANETOCENTRIC CONIC

C3	50.734	VHL	7.123	DLA	29.44	RAL	295.74	RAD	6568.9	VEL	13.119	PTH	2.40	VHP	9.071	DPA	-71.39	RAP	3.98

ECC	1.8350																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
81.60	0 24 55	3990.59	-13.93	163.99	179.67	63.81	1 31 26	3390.6	-17.34	156.89
98.40	2 42 41	3545.58	-13.92	131.31	179.66	63.80	3 41 46	2945.6	-17.33	124.21
100.00	3 38 57	3365.40	-18.23	120.05	181.77	65.89	4 35 3	2765.4	-21.33	112.63
100.00	2 11 19	3646.00	-9.71	136.52	177.44	61.59	3 12 5	3046.0	-13.43	129.71
110.00	6 18 15	2866.31	-28.56	86.72	186.28	70.36	7 6 1	2266.3	-30.96	78.34
110.00	1 48 31	3717.85	-.19	136.15	171.65	55.82	2 50 29	3117.9	-4.67	129.93

DIFFERENTIAL CORRECTIONS								MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY			
TDE	-1.8231	TRA	-3.0590	TC3	-.0792	BAU	.1718	SGT	3185.3	SGR	2421.4	SG3	255.3	ST	1693.9	SR	1648.9	SS	1549.6
RDE	1.9337	RRA	1.9746	RC3	-.2405	FAU	.00557	RRT	-.9588	RRF	.9950	RTF	-.9768	CRT	-.9828	CRS	-.9998	CST	.9859
FDE	2.3039	FRA	2.4866	FC3	-.0950	BSP	12526	SGB	4001.2	R23	-.1029	R13	.9929	LSA	2816.2	MSA	241.3	SSA	4.0
BDE	2.6576	BRA	3.6409	BC3	.2532	FSP	-784	SG1	3962.8	SG2	552.7	THA	143.08	EL1	2353.7	EL2	219.5	ALF	135.78

LAUNCH DATE SEP 14 1965 FLIGHT TIME 154.00 ARRIVAL DATE FEB 15 1966

HELIOCENTRIC CONIC DISTANCE 397.060

RL	150.47	LAL	.00	LOL	350.97	VL	27.088	GAL	5.77	AZL	75.49	HCA	166.48	SMA	128.82	ECC	.19509	INC	14.5114
RP	107.55	LAP	3.36	LOP	157.87	VP	37.916	GAP	-6.05	AZP	104.13	TAL	154.76	TAP	321.24	RCA	103.69	APO	153.95
RC	48.656	GL	54.90	GP	-65.75	ZAL	67.29	ZAP	66.86	ETS	67.51	ZAE	102.65	ETE	289.31	ZAC	89.94	ETC	139.05

V1	29.612	V2	35.234	CLP	-16.93														

PLANETOCENTRIC CONIC

C3	68.129	VHL	8.254	DLA	33.99	RAL	292.28	RAD	6569.3	VEL	13.765	PTH	2.51	VHP	10.444	DPA	-72.36	RAP	28.64

ECC	2.1212																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
70.35	22 48 43	4309.27	-13.38	187.77	181.66	58.45	24 0 32	3709.3	-17.45	181.04
109.65	3 47 25	3370.74	-13.36	117.79	181.65	58.45	4 43 35	2770.7	-17.44	111.07
70.35	22 48 43	4309.27	-13.38	187.77	181.66	58.45	24 0 32	3709.3	-17.45	181.04
109.65	3 47 25	3370.74	-13.36	117.79	181.65	58.45	4 43 35	2770.7	-17.44	111.07
110.00	4 16 49	3281.02	-16.35	112.65	183.51	59.56	5 11 30	2681.0	-20.27	105.72
110.00	3 22 25	3446.98	-10.42	121.85	179.76	57.26	4 19 52	2847.0	-14.66	115.32

DIFFERENTIAL CORRECTIONS								MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY			
TDE	-2.5584	TRA	-3.4494	TC3	-.1040	BAU	.1551	SGT	3394.7	SGR	2492.3	SG3	207.0	ST	1976.0	SR	1852.9	SS	1514.1
RDE	2.5622	RRA	2.0682	RC3	-.1348	FAU	-.00079	RRT	-.9599	RRF	.9927	RTF	-.9839	CRT	-.9856	CRS	-.9991	CST	.9918
FDE	2.2900	FRA	2.1401	FC3	.0100	BSP	13171	SGB	4211.3	R23	-.0746	R13	.9961	LSA	3094.2	MSA	238.0	SSA	3.0
BDE	3.6208	BRA	4.0220	BC3	.1703	FSP	-646	SG1	4172.8	SG2	568.3	THA	144.06	EL1	2699.1	EL2	229.3	ALF	136.87

LAUNCH DATE SEP 14 1965 FLIGHT TIME 156.00 ARRIVAL DATE FEB 17 1966

HELIOCENTRIC CONIC DISTANCE 403.559

RL	150.47	LAL	.00	LOL	350.97	VL	27.130	GAL	5.66	AZL	70.95	HCA	169.59	SMA	129.11	ECC	.19193	INC	19.0459
RP	107.57	LAP	3.38	LOP	161.12	VP	37.940	GAP	-5.53	AZP	108.75	TAL	154.75	TAP	324.34	RCA	104.33	APO	153.88
RC	50.208	GL	59.67	GP	-72.87	ZAL	72.09	ZAP	73.00	ETS	79.63	ZAE	94.38	ETE	302.74	ZAC	97.54	ETC	152.63

V1	29.612	V2	35.227	CLP	-7.03														

PLANETOCENTRIC CONIC

C3	104.182	VHL	10.207	DLA	37.98	RAL	287.79	RAD	6570.0	VEL	15.017	PTH	2.70	VHP	12.908	DPA	-69.50	RAP	53.25

ECC	2.7146																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
63.56	21 53 21	4516.62	-10.92	202.63	183.50	53.40	23 8 37	3916.6	-15.61	196.38
116.44	4 6 55	3354.66	-10.90	114.81	183.48	53.39	5 2 49	2754.7	-15.59	108.56
63.56	21 53 21	4516.62	-10.92	202.63	183.50	53.40	23 8 37	3916.6	-15.61	196.38
116.44	4 6 55	3354.66	-10.90	114.81	183.48	53.39	5 2 49	2754.7	-15.59	108.56
63.56	21 53 21	4516.62	-10.92	202.63	183.50	53.40	23 8 37	3916.6	-15.61	196.38
116.44	4 6 55	3354.66	-10.90	114.81	183.48	53.39	5 2 49	2754.7	-15.59	108.56

DIFFERENTIAL CORRECTIONS								MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY			
TDE	-4.3671	TRA	-4.3453	TC3	-.1499	BAU	.2158	SGT	3959.5	SGR	1928.4	SG3	156.0	ST	2621.3	SR	1626.5	SS	1474.8
RDE	2.8391	RRA	1.5204	RC3	-.0393	FAU	-.00803	RRT	-.9472	RRF	.9743	RTF	-.9941	CRT	-.9871	CRS	-.9956	CST	.9977
FDE	2.2541	FRA	1.7986	FC3	.0667	BSP	13819	SGB	4404.2	R23	-.0419	R13	.9984	LSA	3412.0	MSA	224.2	SSA	2.2
BDE	5.2088	BRA	4.6036	BC3	.1550	FSP	-497	SG1	4368.4	SG2	560.3	THA	154.79	EL1	3076.9	EL2	222.1	ALF	148.33

LAUNCH DATE SEP 14 1965 FLIGHT TIME 158.00 ARRIVAL DATE FEB 19 1966

HELIOCENTRIC CONIC DISTANCE 409.900

RL 150.47 LAL .00 LOL 350.97 VL 27.168 GAL 5.59 AZL 62.73 HCA 172.58 SMA 129.36 ECC .18933 INC27.2673 V1 29.612
RP 107.60 LAP 3.39 LOP 164.37 VP 37.960 GAP -5.05 AZP 117.07 TAL 154.65 TAP 327.23 RCA 104.87 APO 153.85 V2 35.220
RC 51.850 GL 62.74 GP -77.54 ZAL 77.11 ZAP 78.68 ETS 123.03 ZAE 84.94 ETE 347.32 ZAC 106.79 ETC 198.08 CLP 24.54

PLANETOCENTRIC CONIC

C3 194.189 VHL 13.935 DLA 40.13 RAL 281.89 RAD 6571.1 VEL 17.763 PTH 2.99 VHP 17.696 DPA -62.42 RAP 70.22 ECC 4.1959

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
60.29	21 14 12	4676.27	-6.49	212.42	184.15	50.31	22 32 8	4076.3	-11.55	206.57
119.71	3 58 59	3424.98	-6.47	117.15	184.14	50.31	4 56 4	2825.0	-11.53	111.29
60.29	21 14 12	4676.27	-6.49	212.42	184.15	50.31	22 32 8	4076.3	-11.55	206.57
119.71	3 58 59	3424.98	-6.47	117.15	184.14	50.31	4 56 4	2825.0	-11.53	111.29
60.29	21 14 12	4676.27	-6.49	212.42	184.15	50.31	22 32 8	4076.3	-11.55	206.57
119.71	3 58 59	3424.98	-6.47	117.15	184.14	50.31	4 56 4	2825.0	-11.53	111.29

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE-7.6921 TRA-4.9412 TC3 -.2116 BAU .6182 SGT 4172.5 SGR 1804.8 SG3 111.7 ST 3261.6 SR 1098.0 SS 1504.9
RDE-2.4464 RRA-2.7286 RC3 -.1093 FAU-.01793 RRT .9640 RRF -.9718 RTF -.9991 CRT .9863 CRS .9886 CST .9999
FDE 2.3126 FRA 1.5767 FC3 .0799 BSP 14119 SGB 4546.1 R23 .0085 R13 -.9996 LSA 3752.2 MSA 171.8 SSA 1.6
BDE 8.0717 BRA 5.6446 BC3 .2381 FSP -358 SG1 4524.5 SG2 442.7 THA 22.87 EL1 3437.2 EL2 171.8 ALF 18.42

LAUNCH DATE SEP 14 1965 FLIGHT TIME 160.00 ARRIVAL DATE FEB 21 1966

HELIOCENTRIC CONIC DISTANCE 415.815

RL 150.47 LAL .00 LOL 350.97 VL 27.201 GAL 5.60 AZL 44.65 HCA 175.23 SMA 129.59 ECC .18770 INC45.3502 V1 29.612
RP 107.62 LAP 3.39 LOP 167.61 VP 37.977 GAP -4.69 AZP 135.25 TAL 154.27 TAP 329.50 RCA 105.27 APO 153.92 V2 35.212
RC 53.572 GL 60.19 GP -71.22 ZAL 81.92 ZAP 83.43 ETS 170.64 ZAE 72.49 ETE 34.80 ZAC 120.44 ETC 247.87 CLP 69.17

PLANETOCENTRIC CONIC

C3 492.644 VHL 22.196 DLA 36.87 RAL 274.58 RAD 6572.3 VEL 24.778 PTH 3.33 VHP 28.356 DPA -49.51 RAP 79.20 ECC 9.1077

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
65.34	21 9 47	4714.91	-1.57	211.73	182.51	53.16	22 28 21	4114.9	-6.35	205.71
114.66	3 5 8	3606.21	-1.55	128.25	182.49	53.16	4 5 14	3006.2	-6.33	122.24
65.34	21 9 47	4714.91	-1.57	211.73	182.51	53.16	22 28 21	4114.9	-6.35	205.71
114.66	3 5 8	3606.21	-1.55	128.25	182.49	53.16	4 5 14	3006.2	-6.33	122.24
65.34	21 9 47	4714.91	-1.57	211.73	182.51	53.16	22 28 21	4114.9	-6.35	205.71
114.66	3 5 8	3606.21	-1.55	128.25	182.49	53.16	4 5 14	3006.2	-6.33	122.24

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE-6.2945 TRA-1.7978 TC3 -.1360 BAU 2.0635 SGT 1827.9 SGR 4110.0 SG3 82.1 ST 1634.2 SR 3126.1 SS 1783.4
RD-11.7642 RRA-7.6547 RC3 -.2822 FAU-.04045 RRT .9482 RRF -.9993 RTF -.9562 CRT .9912 CRS .9999 CST .9927
FDE 2.7467 FRA 1.6984 FC3 .0711 BSP 13961 SGB 4498.1 R23 -.0241 R13 -.9994 LSA 3947.9 MSA 193.7 SSA 1.7
BDE13.3423 BRA 7.8630 BC3 .3133 FSP -265 SG1 4466.3 SG2 534.3 THA 66.78 EL1 3522.3 EL2 191.8 ALF 62.52

LAUNCH DATE SEP 14 1965 FLIGHT TIME 162.00 ARRIVAL DATE FEB 23 1966

HELIOCENTRIC CONIC DISTANCE 420.209

RL 150.47 LAL .00 LOL 350.97 VL 27.231 GAL 5.89 AZL 1.92 HCA 176.61 SMA 129.79 ECC .18880 INC88.0742 V1 29.612
RP 107.64 LAP 3.38 LOP 170.86 VP 37.991 GAP -4.70 AZP 178.08 TAL 152.95 TAP 329.57 RCA 105.29 APO 154.30 V2 35.204
RC 55.368 GL 43.15 GP -48.13 ZAL 85.28 ZAP 86.31 ETS 180.96 ZAE 53.64 ETE 37.34 ZAC 145.08 ETC 257.85 CLP 84.47

PLANETOCENTRIC CONIC

C31567.084 VHL 39.586 DLA 19.72 RAL 268.02 RAD 6573.2 VEL 41.090 PTH 3.57 VHP 50.809 DPA -24.94 RAP 82.00 ECC26.7902

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	2 55 56	3565.78	-18.91	135.08	186.85	68.52	3 55 22	2965.8	-21.66	127.49
90.00	20 26 39	4877.69	20.03	211.65	172.29	69.55	21 47 57	4277.7	17.06	204.22
100.00	4 29 44	3263.29	-20.94	113.69	187.71	68.17	5 24 7	2663.3	-23.72	105.99
100.00	21 35 32	4655.41	22.08	194.49	171.47	69.32	22 53 7	4055.4	19.06	186.98
110.00	6 4 47	2965.90	-26.10	93.41	190.02	67.09	6 54 13	2365.9	-28.96	85.41
110.00	22 16 58	4525.56	27.27	182.44	169.27	68.55	23 32 24	3925.6	24.11	174.70

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE-7.2673 TRA -.4959 TC3 -.1189 BAU 6.1309 SGT 1413.5 SGR 3454.1 SG3 70.6 ST 1052.5 SR 2206.0 SS 2255.5
RD-14.8295 RR-10.9634 RC3 -.2674 FAU-.11637 RRT .8969 RRF -.9999 RTF -.8960 CRT .9781 CRS 1.0000 CST .9773
FDE 3.4507 FRA 2.5938 FC3 .0643 BSP 11278 SGB 3732.1 R23 -.0617 R13 -.9980 LSA 3319.3 MSA 210.1 SSA 1.4
BDE16.5144 BRA10.9747 BC3 .2926 FSP -222 SG1 3685.8 SG2 585.9 THA 69.30 EL1 2436.2 EL2 198.3 ALF 64.81

LAUNCH DATE SEP 14 1965 FLIGHT TIME 164.00 ARRIVAL DATE FEB 25 1966

HELIOCENTRIC CONIC DISTANCE 432.404

RL 150.47 LAL .00 LOL 350.97 VL 27.257 GAL 4.82 AZL 137.12 HCA 184.59 SMA 129.97 ECC .17822 INC47.1194 V1 29.612
RP 107.67 LAP 3.36 LOP 174.10 VP 38.001 GAP -2.80 AZP 42.97 TAL 156.67 TAP 341.26 RCA 106.81 APO 153.14 V2 35.195
RC 57.230 GL -60.06 GP 70.78 ZAL 83.11 ZAP 86.09 ETS 201.37 ZAE 85.52 ETE 326.93 ZAC 94.51 ETC 112.95 CLP 78.04

PLANETOCENTRIC CONIC

C3 527.496 VHL 22.967 DLA -83.15 RAL 290.86 RAD 6572.4 VEL 25.471 PTH 3.35 VHP 29.628 DPA 79.39 RAP 327.50 ECC 9.6812

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
7.79	7 28 9	2424.86	2.21	85.35	200.59	173.14	8 8 34	1824.9	10.15	84.80
172.21	18 56 39	619.23	2.21	280.32	200.61	173.14	19 6 58	19.2	10.16	279.77
7.79	7 28 9	2424.86	2.21	85.35	200.59	173.14	8 8 34	1824.9	10.15	84.80
172.21	18 56 39	619.23	2.21	280.32	200.61	173.14	19 6 58	19.2	10.16	279.77
7.79	7 28 9	2424.86	2.21	85.35	200.59	173.14	8 8 34	1824.9	10.15	84.80
172.21	18 56 39	619.23	2.21	280.32	200.61	173.14	19 6 58	19.2	10.16	279.77

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE 8.4693 TRA -.8601 TC3 -.1993 BAU 2.3624 SGT 2921.6 SGR 3647.6 SG3 85.9 ST 2180.8 SR 1909.4 SS 1570.8
RDE-6.7556 RRA 1.4296 RC3 .2693 FAU-.04123 RRT -.9448 RRF .9915 RTF -.9788 CRT -.9716 CRS -.9937 CST .9919
FDE-2.2867 FRA .3601 FC3 .0677 BSP 14728 SGB 4673.4 R23 -.0004 R13 .9998 LSA 3278.8 MSA 344.1 SSA 1.6
BDE10.8336 BRA 1.6684 BC3 .3350 FSP -273 SG1 4611.7 SG2 757.4 THA 128.34 EL1 2878.2 EL2 342.6 ALF 138.91

LAUNCH DATE SEP 14 1965 FLIGHT TIME 166.00 ARRIVAL DATE FEB 27 1966

HELIOCENTRIC CONIC DISTANCE 438.198

RL	150.47	LAL	.00	LOL	350.97	VL	27.279	GAL	4.89	AZL	117.69	HCA	187.19	SMA	130.13	ECC	.17757	INC	27.6936
RP	107.70	LAP	3.33	LOP	177.34	VP	38.008	GAP	-2.49	AZP	62.49	TAL	156.18	TAP	343.37	RCA	107.02	APO	153.24
RC	59.152	GL	-63.84	GP	82.07	ZAL	78.56	ZAP	84.22	ETS	242.17	ZAE	96.96	ETE	4.33	ZAC	81.44	ETC	149.40

V1	29.612																		
V2	35.186																		
CLP	43.13																		

PLANETOCENTRIC CONIC

C3	198.063	VHL	14.073	DLA	-82.13	RAL	348.08	RAD	6571.1	VEL	17.871	PTH	3.00	VHP	18.090	DPA	68.88	RAP	296.68

ECC	4.2596																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
8.95	11 18 37	2311.45	9.78	84.16	256.70	172.01	11 57 8	1711.5	17.70	83.41
171.05	22 42 39	5795.97	9.79	258.15	256.72	172.01	24 19 15	5196.0	17.70	257.40
8.95	11 18 37	2311.45	9.78	84.16	256.70	172.01	11 57 8	1711.5	17.70	83.41
171.05	22 42 39	5795.97	9.79	258.15	256.72	172.01	24 19 15	5196.0	17.70	257.40
8.95	11 18 37	2311.45	9.78	84.16	256.70	172.01	11 57 8	1711.5	17.70	83.41
171.05	22 42 39	5795.97	9.79	258.15	256.72	172.01	24 19 15	5196.0	17.70	257.40

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-3.5528	TRA	-1.5328	TC3	-.2471	BAU	.7037	SGT	4829.4	SGR	1386.0	SG3	118.8	ST	1989.9	SR	1005.8	SS	945.9
RDE	2.3676	RRA	.3221	RC3	.0977	FAU	-.01393	RRT	-.8883	RRF	.9050	RTF	-.9989	CRT	-.8927	CRS	-.9216	CST	.9976
FDE	1.1481	FRA	.4312	FC3	.0609	BSP	15551	SGB	5024.3	R23	-.0064	R13	.9996	LSA	2386.7	MSA	411.9	SSA	1.6
BDE	4.2694	BRA	1.5663	BC3	.2658	FSP	-373	SG1	4986.3	SG2	616.6	THA	165.47	EL1	2191.4	EL2	411.5	ALF	154.76

LAUNCH DATE SEP 14 1965 FLIGHT TIME 168.00 ARRIVAL DATE MAR 1 1966

HELIOCENTRIC CONIC DISTANCE 444.409

RL	150.47	LAL	.00	LOL	350.97	VL	27.298	GAL	4.90	AZL	109.01	HCA	190.15	SMA	130.26	ECC	.17658	INC	19.0080
RP	107.73	LAP	3.29	LOP	180.58	VP	38.013	GAP	-2.07	AZP	71.27	TAL	155.98	TAP	346.13	RCA	107.26	APO	153.26
RC	61.127	GL	-61.59	GP	82.51	ZAL	73.89	ZAP	83.05	ETS	289.54	ZAE	104.10	ETE	49.03	ZAC	73.76	ETC	192.25

V1	29.612																		
V2	35.176																		
CLP	-21.75																		

PLANETOCENTRIC CONIC

C3	101.443	VHL	10.072	DLA	-77.46	RAL	349.32	RAD	6570.0	VEL	14.926	PTH	2.69	VHP	12.830	DPA	61.26	RAP	291.77

ECC	2.6695																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
14.28	11 33 58	2180.95	17.85	79.35	255.20	166.81	12 10 19	1581.0	25.62	77.75
165.72	22 37 10	5679.05	17.85	258.51	255.22	166.81	24 11 49	5079.0	25.63	256.91
14.28	11 33 58	2180.95	17.85	79.35	255.20	166.81	12 10 19	1581.0	25.62	77.75
165.72	22 37 10	5679.05	17.85	258.51	255.22	166.81	24 11 49	5079.0	25.63	256.91
14.28	11 33 58	2180.95	17.85	79.35	255.20	166.81	12 10 19	1581.0	25.62	77.75
165.72	22 37 10	5679.05	17.85	258.51	255.22	166.81	24 11 49	5079.0	25.63	256.91

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-3.2390	TRA	-1.4645	TC3	-.1472	BAU	.1998	SGT	4265.9	SGR	2832.5	SG3	169.6	ST	2172.4	SR	1038.3	SS	1018.0
RDE	-1.0996	RRA	-1.0547	RC3	.0073	FAU	-.00143	RRT	.9720	RRF	-.9866	RTF	-.9965	CRT	.9338	CRS	.9588	CST	.9970
FDE	1.2984	FRA	.6945	FC3	.0122	BSP	15953	SGB	5120.6	R23	-.0050	R13	-.9994	LSA	2592.1	MSA	338.8	SSA	2.2
BDE	3.4205	BRA	1.8047	BC3	.1473	FSP	-536	SG1	5090.2	SG2	557.4	THA	33.29	EL1	2383.9	EL2	338.6	ALF	24.58

LAUNCH DATE SEP 14 1965 FLIGHT TIME 170.00 ARRIVAL DATE MAR 3 1966

HELIOCENTRIC CONIC DISTANCE 450.745

RL	150.47	LAL	.00	LOL	350.97	VL	27.314	GAL	4.89	AZL	104.28	HCA	193.24	SMA	130.37	ECC	.17566	INC	14.2801
RP	107.76	LAP	3.24	LOP	183.82	VP	38.015	GAP	-1.62	AZP	76.08	TAL	155.85	TAP	349.09	RCA	107.47	APO	153.28
RC	63.151	GL	-57.52	GP	78.44	ZAL	69.45	ZAP	82.72	ETS	313.87	ZAE	109.31	ETE	71.06	ZAC	68.18	ETC	212.06

V1	29.612																		
V2	35.166																		
CLP	-50.76																		

PLANETOCENTRIC CONIC

C3	63.330	VHL	7.958	DLA	-72.85	RAL	343.60	RAD	6569.2	VEL	13.590	PTH	2.48	VHP	9.994	DPA	55.54	RAP	289.92

ECC	2.0422																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
19.57	11 21 54	2063.35	24.40	73.22	245.54	161.11	11 56 17	1463.4	31.94	70.59
160.43	22 3 40	5581.65	24.41	257.66	245.57	161.11	23 36 42	4981.7	31.94	255.03
19.57	11 21 54	2063.35	24.40	73.22	245.54	161.11	11 56 17	1463.4	31.94	70.59
160.43	22 3 40	5581.65	24.41	257.66	245.57	161.11	23 36 42	4981.7	31.94	255.03
19.57	11 21 54	2063.35	24.40	73.22	245.54	161.11	11 56 17	1463.4	31.94	70.59
160.43	22 3 40	5581.65	24.41	257.66	245.57	161.11	23 36 42	4981.7	31.94	255.03

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-1.7207	TRA	-1.0173	TC3	-.0845	BAU	.1400	SGT	2778.8	SGR	4337.8	SG3	235.5	ST	1445.7	SR	1609.5	SS	985.5
RDE	-1.3826	RRA	-1.7268	RC3	.1421	FAU	.00804	RRT	.9685	RRF	-.9967	RTF	-.9825	CRT	.9350	CRS	.9879	CST	.9787
FDE	1.1618	FRA	1.0601	FC3	-.1099	BSP	16160	SGB	5151.5	R23	-.0032	R13	-.9991	LSA	2345.5	MSA	387.8	SSA	3.0
BDE	2.2073	BRA	2.0041	BC3	.1653	FSP	-751	SG1	5118.0	SG2	586.6	THA	57.71	EL1	2128.4	EL2	387.8	ALF	48.28

LAUNCH DATE SEP 14 1965 FLIGHT TIME 172.00 ARRIVAL DATE MAR 5 1966

HELIOCENTRIC CONIC DISTANCE 457.122

RL	150.47	LAL	.00	LOL	350.97	VL	27.327	GAL	4.89	AZL	101.33	HCA	196.38	SMA	130.47	ECC	.17493	INC	11.3295
RP	107.80	LAP	3.18	LOP	187.05	VP	38.014	GAP	-1.17	AZP	79.12	TAL	155.73	TAP	352.11	RCA	107.65	APO	153.29
RC	65.219	GL	-52.98	GP	74.31	ZAL	65.36	ZAP	83.22	ETS	327.53	ZAE	113.43	ETE	82.86	ZAC	63.60	ETC	221.36

V1	29.612																		
V2	35.155																		
CLP	-64.14																		

PLANETOCENTRIC CONIC

C3	44.888	VHL	6.700	DLA	-68.31	RAL	338.39	RAD	6568.7	VEL	12.894	PTH	2.35	VHP	8.261	DPA	50.84	RAP	288.64

ECC	1.7387																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
24.82	11 12 17	1964.61	28.96	66.16	235.67	155.02	11 45 1	1364.6	36.15	62.41
155.18	21 31 42	5510.27	28.97	256.09	235.69	155.02	23 3 32	4910.3	36.16	252.33
24.82	11 12 17	1964.61	28.96	66.16	235.67	155.02	11 45 1	1364.6	36.15	62.41
155.18	21 31 42	5510.27	28.97	256.09	235.69	155.02	23 3 32	4910.3	36.16	252.33
24.82	11 12 17	1964.61	28.96	66.16	235.67	155.02	11 45 1	1364.6	36.15	62.41
155.18	21 31 42	5510.27	28.97	256.09	235.69	155.02	23 3 32	4910.3	36.16	252.33

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-1.0137	TRA	-.6474	TC3	-.1004	BAU	.2163	SGT	1736.3	SGR	4852.4	SG3	313.0	ST	976.5	SR	1691.4	SS	984.1
RDE	-1.0692	RRA	-2.0493	RC3	.3462	FAU	.01682	RRT	.9302	RRF	-.9978	RTF	-.9442	CRT	.8671	CRS	.9902	CST	.9280
FDE	1.0522	FRA	1.5047	FC3	-.3245	BSP	16229	SGB	5153.7	R23	.0040	R13	-.9987	LSA	2143.8	MSA	432.3	SSA	3.9
BDE	1.4734	BRA	2.1492	BC3	.3604	FSP	-1005	SG1	5118.1	SG2	604.4	THA	71.32	EL1	1904.7	EL2	431.9	ALF	61.83

LAUNCH DATE SEP 14 1965 FLIGHT TIME 174.00 ARRIVAL DATE MAR 7 1966

HELIOCENTRIC CONIC DISTANCE 463.509

RL 150.47 LAL .00 LOL 350.97 VL 27.338 GAL 4.89 AZL 99.31 HCA 199.55 SMA 130.54 ECC .17440 INC 9.3116 V1 29.612
RP 107.83 LAP 3.10 LOP 190.28 VP 38.011 GAP -.72 AZP 81.22 TAL 155.60 TAP 355.15 RCA 107.77 APO 153.31 V2 35.143
RC 67.327 GL -48.44 GP 70.53 ZAL 61.65 ZAP 84.50 ETS 337.25 ZAE 116.79 ETE 91.27 ZAC 59.53 ETC 227.00 CLP -73.29

PLANETOCENTRIC CONIC

C3 34.693 VHL 5.890 DLA -63.92 RAL 334.32 RAD 6568.4 VEL 12.493 PTH 2.26 VHP 7.110 DPA 46.74 RAP 287.40 ECC 1.5710

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
29.96	11 7 42	1882.22	31.72	58.69	226.70	148.88	11 39 4	1282.2	38.46	53.84
150.04	21 3 49	5462.63	31.73	254.31	226.72	148.88	22 34 51	4862.6	38.47	249.46
29.96	11 7 42	1882.22	31.72	58.69	226.70	148.88	11 39 4	1282.2	38.46	53.84
150.04	21 3 49	5462.63	31.73	254.31	226.72	148.88	22 34 51	4862.6	38.47	249.46
29.96	11 7 42	1882.22	31.72	58.69	226.70	148.88	11 39 4	1282.2	38.46	53.84
150.04	21 3 49	5462.63	31.73	254.31	226.72	148.88	22 34 51	4862.6	38.47	249.46

DIFFERENTIAL CORRECTIONS
TDE -.6598 TRA -.3169 TC3 -.1781 BAU .2722
RDE -.8157 RRA-2.2336 RC3 .5592 FAU .02537
FDE 1.0012 FRA 2.0105 FC3 -.6331 BSP 16187
BDE 1.0492 BRA 2.2560 BC3 .5868 FSP -1284

MID-COURSE EXECUTION ACCURACY
SGT 973.4 SGR 5048.7 SG3 398.7
RRT .7806 RRF -.9980 RTF -.7987
SGB 5141.7 R23 .0135 R13 -.9984
SG1 5106.4 SG2 601.5 THA 81.32

ORBIT DETERMINATION ACCURACY
ST 675.4 SR 1681.8 SS 1015.0
CRT .7228 CRS .9904 CST .8115
LSA 2027.9 MSA 450.0 SSA 4.8
EL1 1756.4 EL2 447.0 ALF 72.65

LAUNCH DATE SEP 14 1965 FLIGHT TIME 176.00 ARRIVAL DATE MAR 9 1966

HELIOCENTRIC CONIC DISTANCE 469.891

RL 150.47 LAL .00 LOL 350.97 VL 27.346 GAL 4.91 AZL 97.84 HCA 202.73 SMA 130.60 ECC .17411 INC 7.8399 V1 29.612
RP 107.87 LAP 3.02 LOP 193.51 VP 38.006 GAP -.27 AZP 82.76 TAL 155.46 TAP 358.19 RCA 107.86 APO 153.34 V2 35.132
RC 69.470 GL -44.09 GP 67.03 ZAL 58.32 ZAP 86.46 ETS 345.15 ZAE 119.58 ETE 98.44 ZAC 55.75 ETC 231.16 CLP -80.91

PLANETOCENTRIC CONIC

C3 28.532 VHL 5.342 DLA -59.73 RAL 331.20 RAD 6568.1 VEL 12.244 PTH 2.20 VHP 6.304 DPA 43.02 RAP 286.07 ECC 1.4696

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
34.93	11 7 22	1812.02	33.06	51.23	218.86	143.03	11 37 34	1212.0	39.30	45.43
145.07	20 39 16	5434.54	33.07	252.74	218.88	143.02	22 9 51	4834.5	39.31	246.95
34.93	11 7 22	1812.02	33.06	51.23	218.86	143.03	11 37 34	1212.0	39.30	45.43
145.07	20 39 16	5434.54	33.07	252.74	218.88	143.02	22 9 51	4834.5	39.31	246.95
34.93	11 7 22	1812.02	33.06	51.23	218.86	143.03	11 37 34	1212.0	39.30	45.43
145.07	20 39 16	5434.54	33.07	252.74	218.88	143.02	22 9 51	4834.5	39.31	246.95

DIFFERENTIAL CORRECTIONS
TDE -.4533 TRA .0040 TC3 -.3095 BAU .3105
RDE -.6558 RRA-2.3384 RC3 .7530 FAU .03362
FDE 1.0069 FRA 2.5580 FC3-1.0200 BSP 16075
BDE .7972 BRA 2.3384 BC3 .8141 FSP -1576

MID-COURSE EXECUTION ACCURACY
SGT 588.1 SGR 5089.5 SG3 488.6
RRT .0113 RRF -.9979 RTF -.0357
SGB 5123.4 R23 .0243 R13 -.9979
SG1 5089.5 SG2 588.0 THA 89.92

ORBIT DETERMINATION ACCURACY
ST 486.4 SR 1650.4 SS 1066.5
CRT .4211 CRS .9896 CST .5467
LSA 1974.1 MSA 448.1 SSA 5.6
EL1 1664.0 EL2 437.6 ALF 82.40

LAUNCH DATE SEP 14 1965 FLIGHT TIME 178.00 ARRIVAL DATE MAR 11 1966

HELIOCENTRIC CONIC DISTANCE 476.261

RL 150.47 LAL .00 LOL 350.97 VL 27.352 GAL 4.94 AZL 96.71 HCA 205.92 SMA 130.64 ECC .17404 INC 6.7142 V1 29.612
RP 107.90 LAP 2.93 LOP 196.74 VP 37.999 GAP .18 AZP 83.96 TAL 155.29 TAP 1.21 RCA 107.90 APO 153.37 V2 35.120
RC 71.643 GL -39.99 GP 63.71 ZAL 55.34 ZAP 89.02 ETS 351.96 ZAE 121.86 ETE 105.15 ZAC 52.12 ETC 234.61 CLP -87.79

PLANETOCENTRIC CONIC

C3 24.577 VHL 4.957 DLA -55.78 RAL 328.79 RAD 6568.0 VEL 12.081 PTH 2.16 VHP 5.722 DPA 39.54 RAP 284.62 ECC 1.4045

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
39.71	11 10 23	1750.19	33.36	44.04	212.17	137.67	11 39 34	1150.2	39.09	37.52
140.29	20 17 1	5422.39	33.38	251.68	212.19	137.66	21 47 24	4822.4	39.10	245.16
39.71	11 10 23	1750.19	33.36	44.04	212.17	137.67	11 39 34	1150.2	39.09	37.52
140.29	20 17 1	5422.39	33.38	251.68	212.19	137.66	21 47 24	4822.4	39.10	245.16
39.71	11 10 23	1750.19	33.36	44.04	212.17	137.67	11 39 34	1150.2	39.09	37.52
140.29	20 17 1	5422.39	33.38	251.68	212.19	137.66	21 47 24	4822.4	39.10	245.16

DIFFERENTIAL CORRECTIONS
TDE -.3112 TRA .3252 TC3 -.4836 BAU .3400
RDE -.5570 RRA-2.3822 RC3 .9147 FAU .04152
FDE 1.0569 FRA 3.1204 FC3-1.4627 BSP 15991
BDE .6380 BRA 2.4043 BC3 1.0347 FSP -1874

MID-COURSE EXECUTION ACCURACY
SGT 897.6 SGR 5020.0 SG3 577.7
RRT -.7710 RRF -.9977 RTF .7565
SGB 5099.6 R23 .0356 R13 -.9973
SG1 5068.1 SG2 566.2 THA 97.95

ORBIT DETERMINATION ACCURACY
ST 412.0 SR 1603.7 SS 1126.7
CRT -.0958 CRS .9884 CST .0565
LSA 1955.0 MSA 434.8 SSA 6.5
EL1 1604.2 EL2 410.0 ALF 91.51

LAUNCH DATE SEP 14 1965 FLIGHT TIME 180.00 ARRIVAL DATE MAR 13 1966

HELIOCENTRIC CONIC DISTANCE 482.614

RL 150.47 LAL .00 LOL 350.97 VL 27.355 GAL 4.98 AZL 95.82 HCA 209.12 SMA 130.66 ECC .17421 INC 5.8208 V1 29.612
RP 107.94 LAP 2.83 LOP 199.96 VP 37.991 GAP .62 AZP 84.91 TAL 155.08 TAP 4.20 RCA 107.90 APO 153.42 V2 35.108
RC 73.845 GL -36.16 GP 60.49 ZAL 52.68 ZAP 92.07 ETS 357.96 ZAE 123.69 ETE 111.64 ZAC 48.57 ETC 237.63 CLP -94.21

PLANETOCENTRIC CONIC

C3 21.936 VHL 4.684 DLA -52.07 RAL 326.91 RAD 6567.9 VEL 11.971 PTH 2.13 VHP 5.294 DPA 36.19 RAP 283.11 ECC 1.3610

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
44.29	11 16 10	1693.65	32.94	37.23	206.57	132.91	11 44 23	1093.6	38.16	30.19
135.71	19 56 13	5423.50	32.95	251.29	206.59	132.90	21 26 36	4823.5	38.18	244.25
44.29	11 16 10	1693.65	32.94	37.23	206.57	132.91	11 44 23	1093.6	38.16	30.19
135.71	19 56 13	5423.50	32.95	251.29	206.59	132.90	21 26 36	4823.5	38.18	244.25
44.29	11 16 10	1693.65	32.94	37.23	206.57	132.91	11 44 23	1093.6	38.16	30.19
135.71	19 56 13	5423.50	32.95	251.29	206.59	132.90	21 26 36	4823.5	38.18	244.25

DIFFERENTIAL CORRECTIONS
TDE -.1988 TRA .6454 TC3 -.6912 BAU .3644
RDE -.4950 RRA-2.3780 RC3 1.0325 FAU .04874
FDE 1.1418 FRA 3.6745 FC3-1.9237 BSP 15917
BDE .5334 BRA 2.4641 BC3 1.2425 FSP -2160

MID-COURSE EXECUTION ACCURACY
SGT 1458.8 SGR 4867.9 SG3 661.8
RRT -.9234 RRF -.9975 RTF .9146
SGB 5081.8 R23 .0467 R13 -.9965
SG1 5053.1 SG2 539.5 THA 105.65

ORBIT DETERMINATION ACCURACY
ST 456.1 SR 1543.7 SS 1189.9
CRT -.5687 CRS .9866 CST -.4271
LSA 1957.8 MSA 416.7 SSA 7.2
EL1 1566.6 EL2 369.6 ALF 100.11

LAUNCH DATE SEP 14 1965 FLIGHT TIME 182.00 ARRIVAL DATE MAR 15 1966

HELIOCENTRIC CONIC DISTANCE 488.949

RL 150.47 LAL .00 LOL 350.97 VL 27.356 GAL 5.04 AZL 95.09 HCA 212.31 SMA 130.67 ECC .17460 INC 5.0908 V1 29.612
RP 107.98 LAP 2.72 LOP 203.18 VP 37.980 GAP 1.06 AZP 85.69 TAL 154.85 TAP 7.16 RCA 107.86 APO 153.49 V2 35.095
RC 76.070 GL -32.61 GP 57.31 ZAL 50.31 ZAP 95.51 ETS 3.26 ZAE 125.09 ETE 117.98 ZAC 45.08 ETC 240.32 CLP-100.25

PLANETOCENTRIC CONIC

C3 20.135 VHL 4.487 DLA -48.60 RAL 325.42 RAD 6567.8 VEL 11.896 PTH 2.11 VHP 4.981 DPA 32.93 RAP 281.58 ECC 1.3314

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
48.69	11 24 18	1639.97	32.02	30.79	201.95	128.74	11 51 38	1040.0	36.79	23.42
131.31	19 36 12	5436.04	32.03	251.63	201.96	128.73	21 6 48	4836.0	36.80	244.26
48.69	11 24 18	1639.97	32.02	30.79	201.95	128.74	11 51 38	1040.0	36.79	23.42
131.31	19 36 12	5436.04	32.03	251.63	201.96	128.73	21 6 48	4836.0	36.80	244.26
48.69	11 24 18	1639.97	32.02	30.79	201.95	128.74	11 51 38	1040.0	36.79	23.42
131.31	19 36 12	5436.04	32.03	251.63	201.96	128.73	21 6 48	4836.0	36.80	244.26

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.0996 TRA .9613 TC3 -.9196 BAU .3866 SGT 2035.3 SGR 4650.5 SG3 736.4 ST 571.7 SR 1471.1 SS 1251.6
RDE -.4534 RRA-2.3342 RC3 1.1032 FAU .05504 RRT -.9623 RRF -.9972 RTF .9558 CRT -.8086 CRS .9844 CST -.6924
FDE 1.2512 FRA 4.1940 FC3-2.3664 BSP 15898 SGB 5076.4 R23 .0568 R13 -.9957 LSA 1974.7 MSA 397.6 SSA 8.0
BDE .4642 BRA 2.5244 BC3 1.4362 FSP -2425 SG1 5050.8 SG2 509.4 THA 113.09 EL1 1545.5 EL2 320.2 ALF 108.25

LAUNCH DATE SEP 14 1965 FLIGHT TIME 184.00 ARRIVAL DATE MAR 17 1966

HELIOCENTRIC CONIC DISTANCE 495.263

RL 150.47 LAL .00 LOL 350.97 VL 27.356 GAL 5.11 AZL 94.48 HCA 215.51 SMA 130.67 ECC .17523 INC 4.4797 V1 29.612
RP 108.02 LAP 2.60 LOP 206.40 VP 37.968 GAP 1.50 AZP 86.35 TAL 154.58 TAP 10.09 RCA 107.77 APO 153.56 V2 35.082
RC 78.316 GL -29.31 GP 54.17 ZAL 48.19 ZAP 99.25 ETS 7.92 ZAE 126.08 ETE 124.11 ZAC 41.65 ETC 242.67 CLP-105.94

PLANETOCENTRIC CONIC

C3 18.905 VHL 4.348 DLA -45.36 RAL 324.24 RAD 6567.8 VEL 11.844 PTH 2.10 VHP 4.756 DPA 29.74 RAP 280.09 ECC 1.3111

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
52.95	11 34 41	1587.09	30.78	24.65	198.19	125.13	12 1 8	987.1	35.14	17.07
127.05	19 16 23	5459.03	30.80	252.74	198.20	125.12	20 47 22	4859.0	35.15	245.16
52.95	11 34 41	1587.09	30.78	24.65	198.19	125.13	12 1 8	987.1	35.14	17.07
127.05	19 16 23	5459.03	30.80	252.74	198.20	125.12	20 47 22	4859.0	35.15	245.16
52.95	11 34 41	1587.09	30.78	24.65	198.19	125.13	12 1 8	987.1	35.14	17.07
127.05	19 16 23	5459.03	30.80	252.74	198.20	125.12	20 47 22	4859.0	35.15	245.16

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.0048 TRA 1.2697 TC3-1.1550 BAU .4078 SGT 2584.4 SGR 4386.3 SG3 798.1 ST 715.0 SR 1388.5 SS 1309.5
RDE -.4224 RRA-2.2602 RC3 1.1266 FAU .06009 RRT -.9770 RRF -.9968 RTF .9716 CRT -.9124 CRS .9816 CST -.8175
FDE 1.3749 FRA 4.6576 FC3-2.7519 BSP 15908 SGB 5091.1 R23 .0649 R13 -.9947 LSA 2002.6 MSA 379.1 SSA 8.7
BDE .4224 BRA 2.5924 BC3 1.6135 FSP -2650 SG1 5068.6 SG2 477.3 THA 120.22 EL1 1539.3 EL2 264.0 ALF 115.99

LAUNCH DATE SEP 14 1965 FLIGHT TIME 186.00 ARRIVAL DATE MAR 19 1966

HELIOCENTRIC CONIC DISTANCE 501.555

RL 150.47 LAL .00 LOL 350.97 VL 27.354 GAL 5.19 AZL 93.96 HCA 218.71 SMA 130.65 ECC .17608 INC 3.9577 V1 29.612
RP 108.06 LAP 2.47 LOP 209.62 VP 37.954 GAP 1.93 AZP 86.91 TAL 154.28 TAP 12.99 RCA 107.65 APO 153.66 V2 35.069
RC 80.581 GL -26.24 GP 51.07 ZAL 46.30 ZAP 103.17 ETS 11.97 ZAE 126.67 ETE 129.97 ZAC 38.29 ETC 244.68 CLP-111.26

PLANETOCENTRIC CONIC

C3 18.081 VHL 4.252 DLA -42.34 RAL 323.30 RAD 6567.7 VEL 11.809 PTH 2.09 VHP 4.602 DPA 26.62 RAP 278.69 ECC 1.2976

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
57.10	11 47 18	1533.16	29.35	18.69	195.17	122.00	12 12 51	933.2	33.35	10.99
122.90	18 56 15	5492.08	29.37	254.63	195.18	121.99	20 27 47	4892.1	33.36	246.92
57.10	11 47 18	1533.16	29.35	18.69	195.17	122.00	12 12 51	933.2	33.35	10.99
122.90	18 56 15	5492.08	29.37	254.63	195.18	121.99	20 27 47	4892.1	33.36	246.92
57.10	11 47 18	1533.16	29.35	18.69	195.17	122.00	12 12 51	933.2	33.35	10.99
122.90	18 56 15	5492.08	29.37	254.63	195.18	121.99	20 27 47	4892.1	33.36	246.92

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE .0890 TRA 1.5672 TC3-1.3858 BAU .4292 SGT 3092.7 SGR 4090.7 SG3 844.1 ST 866.1 SR 1297.9 SS 1360.7
RDE -.3951 RRA-2.1638 RC3 1.1103 FAU .06381 RRT -.9837 RRF -.9962 RTF .9791 CRT -.9599 CRS .9781 CST -.8806
FDE 1.5014 FRA 5.0460 FC3-3.0554 BSP 16009 SGB 5128.2 R23 .0701 R13 -.9937 LSA 2038.3 MSA 362.5 SSA 9.4
BDE .4050 BRA 2.6717 BC3 1.7757 FSP -2831 SG1 5108.9 SG2 445.0 THA 126.97 EL1 1547.0 EL2 203.7 ALF 123.30

LAUNCH DATE SEP 14 1965 FLIGHT TIME 188.00 ARRIVAL DATE MAR 21 1966

HELIOCENTRIC CONIC DISTANCE 507.824

RL 150.47 LAL .00 LOL 350.97 VL 27.349 GAL 5.29 AZL 93.50 HCA 221.91 SMA 130.62 ECC .17715 INC 3.5042 V1 29.612
RP 108.10 LAP 2.34 LOP 212.83 VP 37.939 GAP 2.37 AZP 87.39 TAL 153.94 TAP 15.85 RCA 107.48 APO 153.76 V2 35.056
RC 82.862 GL -23.40 GP 48.02 ZAL 44.60 ZAP 107.20 ETS 15.47 ZAE 126.92 ETE 135.45 ZAC 35.03 ETC 246.29 CLP-116.23

PLANETOCENTRIC CONIC

C3 17.563 VHL 4.191 DLA -39.52 RAL 322.55 RAD 6567.7 VEL 11.788 PTH 2.08 VHP 4.505 DPA 23.57 RAP 277.44 ECC 1.2890

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
61.20	12 2 24	1476.07	27.81	12.75	192.77	119.29	12 27 0	876.1	31.49	4.98
118.80	18 35 11	5535.64	27.83	257.33	192.78	119.27	20 7 27	4935.6	31.50	249.56
61.20	12 2 24	1476.07	27.81	12.75	192.77	119.29	12 27 0	876.1	31.49	4.98
118.80	18 35 11	5535.64	27.83	257.33	192.78	119.27	20 7 27	4935.6	31.50	249.56
61.20	12 2 24	1476.07	27.81	12.75	192.77	119.29	12 27 0	876.1	31.49	4.98
118.80	18 35 11	5535.64	27.83	257.33	192.78	119.27	20 7 27	4935.6	31.50	249.56

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE .1858 TRA 1.8545 TC3-1.5976 BAU .4494 SGT 3558.1 SGR 3782.7 SG3 874.3 ST 1019.0 SR 1205.3 SS 1407.7
RDE -.3712 RRA-2.0555 RC3 1.0543 FAU .06570 RRT -.9871 RRF -.9954 RTF .9830 CRT -.9832 CRS .9739 CST -.9163
FDE 1.6297 FRA 5.3550 FC3-3.2384 BSP 16112 SGB 5193.2 R23 .0722 R13 -.9928 LSA 2085.9 MSA 348.4 SSA 10.1
BDE .4151 BRA 2.7684 BC3 1.9141 FSP -2944 SG1 5176.4 SG2 416.7 THA 133.22 EL1 1571.9 EL2 142.5 ALF 130.13

LAUNCH DATE SEP 14 1965 FLIGHT TIME 190.00 ARRIVAL DATE MAR 23 1966

HELIOCENTRIC CONIC DISTANCE 514.068

RL 150.47 LAL .00 LOL 350.97 VL 27.344 GAL 5.40 AZL 93.10 HCA 225.11 SMA 130.58 ECC .17846 INC 3.1041 VI 29.612
RP 108.14 LAP 2.20 LOP 216.04 VP 37.923 GAP 2.80 AZP 87.81 TAL 153.57 TAP 18.68 RCA 107.28 APO 153.89 V2 35.043
RC 85.157 GL -20.77 GP 45.05 ZAL 43.06 ZAP 111.24 ETS 18.45 ZAE 126.85 ETE 140.50 ZAC 31.92 ETC 247.46 CLP-120.85

PLANETOCENTRIC CONIC

C3 17.285 VHL 4.158 DLA -36.88 RAL 321.97 RAD 6567.7 VEL 11.776 PTH 2.08 VHP 4.458 DPA 20.61 RAP 276.36 ECC 1.2845

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
65.31	12 20 29	1413.29	26.22	6.62	190.92	116.92	12 44 2	813.3	29.61	358.83
114.69	18 12 27	5591.03	26.24	260.94	190.92	116.91	19 45 38	4991.0	29.62	253.15
65.31	12 20 29	1413.29	26.22	6.62	190.92	116.92	12 44 2	813.3	29.61	358.83
114.69	18 12 27	5591.03	26.24	260.94	190.92	116.91	19 45 38	4991.0	29.62	253.15
65.31	12 20 29	1413.29	26.22	6.62	190.92	116.92	12 44 2	813.3	29.61	358.83
114.69	18 12 27	5591.03	26.24	260.94	190.92	116.91	19 45 38	4991.0	29.62	253.15

DIFFERENTIAL CORRECTIONS
TDE .2832 TRA 2.1280 TC3-1.7886 BAU .4716
RDE -.3433 RRA-1.9370 RC3 .9823 FAU .06651
FDE 1.7376 FRA 5.5676 FC3-3.3314 BSP 16378
BDE .4450 BRA 2.8776 BC3 2.0406 FSP -3020

MID-COURSE EXECUTION ACCURACY
SGT 3975.8 SGR 3468.3 SG3 887.1
RRT -.9889 RRF -.9943 RTF .9854
SGB 5276.0 R23 .0702 R13 -.9920
SG1 5261.6 SG2 390.0 THA 138.94

ORBIT DETERMINATION ACCURACY
ST 1168.0 SR 1107.7 SS 1442.4
CRT -.9948 CRS .9683 CST -.9382
LSA 2135.0 MSA 336.4 SSA 10.7
EL1 1607.6 EL2 81.8 ALF 136.53

LAUNCH DATE SEP 14 1965 FLIGHT TIME 192.00 ARRIVAL DATE MAR 25 1966

HELIOCENTRIC CONIC DISTANCE 520.287

RL 150.47 LAL .00 LOL 350.97 VL 27.337 GAL 5.53 AZL 92.75 HCA 228.30 SMA 130.53 ECC .17999 INC 2.7464 VI 29.612
RP 108.18 LAP 2.05 LOP 219.24 VP 37.905 GAP 3.23 AZP 88.17 TAL 153.16 TAP 21.46 RCA 107.04 APO 154.03 V2 35.030
RC 87.465 GL -18.32 GP 42.20 ZAL 41.67 ZAP 115.22 ETS 21.00 ZAE 126.52 ETE 145.05 ZAC 28.97 ETC 248.13 CLP-125.12

PLANETOCENTRIC CONIC

C3 17.204 VHL 4.148 DLA -34.42 RAL 321.52 RAD 6567.7 VEL 11.772 PTH 2.08 VHP 4.453 DPA 17.78 RAP 275.48 ECC 1.2831

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
69.56	12 42 25	1341.17	24.62	.02	189.52	114.85	13 4 46	741.2	27.76	352.24
110.44	17 46 56	5660.96	24.64	265.64	189.52	114.83	19 21 17	5061.0	27.77	257.85
69.56	12 42 25	1341.17	24.62	.02	189.52	114.85	13 4 46	741.2	27.76	352.24
110.44	17 46 56	5660.96	24.64	265.64	189.52	114.83	19 21 17	5061.0	27.77	257.85
69.56	12 42 25	1341.17	24.62	.02	189.52	114.85	13 4 46	741.2	27.76	352.24
110.44	17 46 56	5660.96	24.64	265.64	189.52	114.83	19 21 17	5061.0	27.77	257.85

DIFFERENTIAL CORRECTIONS
TDE .3835 TRA 2.3907 TC3-1.9503 BAU .4935
RDE -.3144 RRA-1.8177 RC3 .8949 FAU .06595
FDE 1.8292 FRA 5.6961 FC3-3.3186 BSP 16698
BDE .4959 BRA 3.0032 BC3 2.1458 FSP -3041

MID-COURSE EXECUTION ACCURACY
SGT 4350.2 SGR 3162.9 SG3 885.1
RRT -.9896 RRF -.9930 RTF .9868
SGB 5378.5 R23 .0648 R13 -.9913
SG1 5365.8 SG2 369.2 THA 144.07

ORBIT DETERMINATION ACCURACY
ST 1313.5 SR 1011.4 SS 1469.0
CRT -.9995 CRS .9612 CST -.9529
LSA 2190.7 MSA 326.5 SSA 11.3
EL1 1657.6 EL2 25.8 ALF 142.41

LAUNCH DATE SEP 14 1965 FLIGHT TIME 194.00 ARRIVAL DATE MAR 27 1966

HELIOCENTRIC CONIC DISTANCE 526.480

RL 150.47 LAL .00 LOL 350.97 VL 27.328 GAL 5.67 AZL 92.42 HCA 231.50 SMA 130.47 ECC .18176 INC 2.4229 VI 29.612
RP 108.22 LAP 1.90 LOP 222.45 VP 37.887 GAP 3.66 AZP 88.49 TAL 152.72 TAP 24.22 RCA 106.76 APO 154.19 V2 35.016
RC 89.783 GL -16.05 GP 39.49 ZAL 40.41 ZAP 119.10 ETS 23.15 ZAE 126.00 ETE 149.11 ZAC 26.21 ETC 248.21 CLP-129.06

PLANETOCENTRIC CONIC

C3 17.291 VHL 4.158 DLA -32.11 RAL 321.18 RAD 6567.7 VEL 11.776 PTH 2.08 VHP 4.483 DPA 15.08 RAP 274.82 ECC 1.2846

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
74.18	13 10 12	1252.64	23.04	352.42	188.51	113.02	13 31 4	652.6	25.95	344.65
105.82	17 16 28	5751.84	23.05	271.89	188.51	113.00	18 52 20	5151.8	25.96	264.12
74.18	13 10 12	1252.64	23.04	352.42	188.51	113.02	13 31 4	652.6	25.95	344.65
105.82	17 16 28	5751.84	23.05	271.89	188.51	113.00	18 52 20	5151.8	25.96	264.12
110.00	16 13 18	659.61	15.57	304.98	184.50	120.82	16 24 18	59.6	19.54	298.11
110.00	19 12 32	5392.87	30.96	247.37	191.59	105.27	20 42 25	4792.9	32.74	238.60

DIFFERENTIAL CORRECTIONS
TDE .4860 TRA 2.6432 TC3-2.0813 BAU .5156
RDE -.2839 RRA-1.7011 RC3 .8016 FAU .06429
FDE 1.9001 FRA 5.7473 FC3-3.2187 BSP 17087
BDE .5628 BRA 3.1433 BC3 2.2303 FSP -3018

MID-COURSE EXECUTION ACCURACY
SGT 4683.3 SGR 2873.2 SG3 870.2
RRT -.9895 RRF -.9912 RTF .9877
SGB 5494.4 R23 .0565 R13 -.9907
SG1 5483.0 SG2 354.7 THA 148.59

ORBIT DETERMINATION ACCURACY
ST 1454.3 SR 918.0 SS 1486.6
CRT -.9992 CRS .9522 CST -.9631
LSA 2250.8 MSA 318.7 SSA 11.8
EL1 1719.5 EL2 31.7 ALF 147.75

LAUNCH DATE SEP 14 1965 FLIGHT TIME 196.00 ARRIVAL DATE MAR 29 1966

HELIOCENTRIC CONIC DISTANCE 532.646

RL 150.47 LAL .00 LOL 350.97 VL 27.318 GAL 5.84 AZL 92.13 HCA 234.69 SMA 130.40 ECC .18376 INC 2.1272 VI 29.612
RP 108.26 LAP 1.74 LOP 225.64 VP 37.868 GAP 4.09 AZP 88.77 TAL 152.24 TAP 26.93 RCA 106.44 APO 154.37 V2 35.003
RC 92.112 GL -13.94 GP 36.93 ZAL 39.26 ZAP 122.83 ETS 25.00 ZAE 125.33 ETE 152.66 ZAC 23.67 ETC 247.62 CLP-132.71

PLANETOCENTRIC CONIC

C3 17.529 VHL 4.187 DLA -29.96 RAL 320.95 RAD 6567.7 VEL 11.786 PTH 2.08 VHP 4.546 DPA 12.54 RAP 274.38 ECC 1.2885

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
79.79	13 49 24	1129.02	21.49	342.44	187.84	111.39	14 8 13	529.0	24.20	334.69
100.21	16 35 23	5881.78	21.50	280.98	187.85	111.38	18 13 25	5281.8	24.21	273.23
79.79	13 49 24	1129.02	21.49	342.44	187.84	111.39	14 8 13	529.0	24.20	334.69
100.21	16 35 23	5881.78	21.50	280.98	187.85	111.38	18 13 25	5281.8	24.21	273.23
110.00	15 34 34	786.13	11.04	311.98	182.31	122.56	15 47 40	186.1	15.25	305.42
110.00	19 49 24	5272.67	32.78	238.48	191.43	100.29	21 17 17	4672.7	33.85	229.40

DIFFERENTIAL CORRECTIONS
TDE .5912 TRA 2.8882 TC3-2.1795 BAU .5370
RDE -.2526 RRA-1.5909 RC3 .7072 FAU .06168
FDE 1.9510 FRA 5.7354 FC3-3.0464 BSP 17512
BDE .6430 BRA 3.2974 BC3 2.2913 FSP -2955

MID-COURSE EXECUTION ACCURACY
SGT 4979.7 SGR 2604.7 SG3 845.2
RRT -.9887 RRF -.9889 RTF .9883
SGB 5619.8 R23 .0468 R13 -.9903
SG1 5609.0 SG2 346.7 THA 152.54

ORBIT DETERMINATION ACCURACY
ST 1590.8 SR 829.5 SS 1496.6
CRT -.9945 CRS .9406 CST -.9706
LSA 2315.4 MSA 312.6 SSA 12.2
EL1 1792.5 EL2 76.9 ALF 152.53

LAUNCH DATE SEP 14 1965 FLIGHT TIME 198.00 ARRIVAL DATE MAR 31 1966

HELIOCENTRIC CONIC DISTANCE 538.784

RL 150.47 LAL .00 LOL 350.97 VL 27.308 GAL 6.01 AZL 91.85 HCA 237.88 SMA 130.33 ECC .18601 INC 1.8541 V1 29.612
RP 108.31 LAP 1.57 LOP 228.84 VP 37.848 GAP 4.52 AZP 89.01 TAL 151.73 TAP 29.61 RCA 106.09 APO 154.57 V2 34.990
RC 94.449 GL -11.98 GP 34.55 ZAL 38.21 ZAP 126.38 ETS 26.58 ZAE 124.56 ETE 155.75 ZAC 21.37 ETC 246.25 CLP-136.07

PLANETOCENTRIC CONIC

C3 17.906 VHL 4.232 DLA -27.94 RAL 320.80 RAD 6567.7 VEL 11.802 PTH 2.09 VHP 4.636 DPA 10.16 RAP 274.16 ECC 1.2947

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	14 31 3	998.75	16.92	330.90	186.20	113.05	14 47 41	398.7	19.90	323.49
90.00	15 52 33	733.90	23.12	313.97	188.59	106.82	16 4 47	133.9	25.21	305.92
100.00	15 2 33	896.87	13.04	321.55	184.32	117.14	15 17 30	296.9	16.58	314.55
100.00	18 3 44	5599.05	27.27	261.97	189.80	102.75	19 37 3	4999.1	28.75	253.48
110.00	15 7 8	882.46	7.46	317.15	181.01	123.46	15 21 51	282.5	11.81	310.76
110.00	20 15 38	5186.23	33.64	231.88	191.05	96.48	21 42 4	4586.2	34.17	222.67

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE .7016 TRA 3.1298 TC3-2.2416 BAU .5563 SGT 5245.1 SGR 2361.2 SG3 813.4 ST 1725.2 SR 748.5 SS 1502.5
RDE -.2224 RRA-1.4900 RC3 .6136 FAU .05815 RRT -.9871 RRF -.9860 RTF .9885 CRT -.9856 CRS .9262 CST -.9764
FDE 1.9888 FRA 5.6779 FC3-2.8114 BSP 17903 SGB 5752.0 R23 .0372 R13 -.9899 LSA 2387.3 MSA 307.9 SSA 12.5
BDE .7360 BRA 3.4664 BC3 2.3241 FSP -2852 SG1 5741.7 SG2 344.9 THA 155.95 EL1 1877.0 EL2 116.2 ALF 156.75

LAUNCH DATE SEP 14 1965 FLIGHT TIME 200.00 ARRIVAL DATE APR 2 1966

HELIOCENTRIC CONIC DISTANCE 544.893

RL 150.47 LAL .00 LOL 350.97 VL 27.295 GAL 6.21 AZL 91.60 HCA 241.07 SMA 130.24 ECC .18850 INC 1.5997 V1 29.612
RP 108.35 LAP 1.40 LOP 232.04 VP 37.827 GAP 4.96 AZP 89.23 TAL 151.19 TAP 32.26 RCA 105.69 APO 154.80 V2 34.977
RC 96.794 GL -10.17 GP 32.34 ZAL 37.24 ZAP 129.75 ETS 27.96 ZAE 123.74 ETE 158.41 ZAC 19.34 ETC 243.98 CLP-139.18

PLANETOCENTRIC CONIC

C3 18.415 VHL 4.291 DLA -26.04 RAL 320.72 RAD 6567.7 VEL 11.824 PTH 2.09 VHP 4.750 DPA 7.95 RAP 274.16 ECC 1.3031

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	13 32 7	1199.54	11.21	342.87	184.24	116.18	13 52 7	599.5	14.64	335.87
90.00	16 50 53	5834.26	26.22	279.01	189.56	101.09	18 28 7	5234.3	27.49	270.57
100.00	14 26 5	1025.27	8.95	328.88	183.05	118.64	14 43 11	425.3	12.70	322.11
100.00	18 39 36	5483.77	28.73	253.71	190.05	98.65	20 11 0	4883.8	29.62	245.02
110.00	14 45 38	963.93	4.38	321.45	180.26	123.93	15 1 42	363.9	8.81	315.16
110.00	20 36 32	5117.87	34.04	226.58	190.71	93.37	22 1 50	4517.9	34.13	217.34

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE .8125 TRA 3.3652 TC3-2.2791 BAU .5761 SGT 5478.3 SGR 2140.1 SG3 776.0 ST 1852.3 SR 672.9 SS 1499.2
RDE -.1907 RRA-1.3967 RC3 .5304 FAU .05444 RRT -.9848 RRF -.9824 RTF .9886 CRT -.9718 CRS .9074 CST -.9808
FDE 2.0038 FRA 5.5770 FC3-2.5595 BSP 18376 SGB 5881.5 R23 .0278 R13 -.9895 LSA 2457.4 MSA 304.2 SSA 12.8
BDE .8345 BRA 3.6436 BC3 2.3400 FSP -2742 SG1 5871.3 SG2 346.4 THA 158.88 EL1 1965.0 EL2 149.5 ALF 160.44

LAUNCH DATE SEP 14 1965 FLIGHT TIME 202.00 ARRIVAL DATE APR 4 1966

HELIOCENTRIC CONIC DISTANCE 550.971

RL 150.47 LAL .00 LOL 350.97 VL 27.282 GAL 6.42 AZL 91.36 HCA 244.26 SMA 130.15 ECC .19126 INC 1.3606 V1 29.612
RP 108.39 LAP 1.23 LOP 235.23 VP 37.805 GAP 5.40 AZP 89.41 TAL 150.62 TAP 34.88 RCA 105.26 APO 155.05 V2 34.964
RC 99.145 GL -8.48 GP 30.30 ZAL 36.33 ZAP 132.92 ETS 29.19 ZAE 122.90 ETE 160.69 ZAC 17.58 ETC 240.71 CLP-142.07

PLANETOCENTRIC CONIC

C3 19.056 VHL 4.365 DLA -24.27 RAL 320.71 RAD 6567.8 VEL 11.851 PTH 2.10 VHP 4.887 DPA 5.90 RAP 274.36 ECC 1.3136

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 59 4	1320.65	7.48	349.83	183.41	117.39	13 21 4	720.7	11.10	343.01
90.00	17 23 52	5729.23	27.38	271.54	189.93	97.52	18 59 21	5129.2	28.14	262.96
100.00	13 59 53	1124.29	5.68	334.41	182.42	119.40	14 18 38	524.3	9.55	327.77
100.00	19 5 43	5400.83	29.42	247.65	190.19	95.53	20 35 44	4800.8	29.88	238.87
110.00	14 27 59	1036.20	1.63	325.23	179.91	124.15	14 45 15	436.2	6.10	319.00
110.00	20 54 7	5061.69	34.18	222.20	190.50	90.78	22 18 29	4461.7	33.91	212.96

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE .9260 TRA 3.5990 TC3-2.2893 BAU .5946 SGT 5685.3 SGR 1942.8 SG3 735.7 ST 1974.1 SR 604.5 SS 1490.6
RDE -.1594 RRA-1.3128 RC3 .4553 FAU .05047 RRT -.9817 RRF -.9780 RTF .9886 CRT -.9523 CRS .8837 CST -.9843
FDE 2.0039 FRA 5.4501 FC3-2.2929 BSP 18846 SGB 6008.1 R23 .0196 R13 -.9892 LSA 2528.6 MSA 301.2 SSA 13.0
BDE .9396 BRA 3.8309 BC3 2.3341 FSP -2616 SG1 5997.8 SG2 350.8 THA 161.39 EL1 2057.0 EL2 177.1 ALF 163.62

LAUNCH DATE SEP 14 1965 FLIGHT TIME 204.00 ARRIVAL DATE APR 6 1966

HELIOCENTRIC CONIC DISTANCE 557.016

RL 150.47 LAL .00 LOL 350.97 VL 27.268 GAL 6.66 AZL 91.13 HCA 247.45 SMA 130.06 ECC .19429 INC 1.1342 V1 29.612
RP 108.43 LAP 1.05 LOP 238.41 VP 37.784 GAP 5.85 AZP 89.56 TAL 150.02 TAP 37.47 RCA 104.79 APO 155.32 V2 34.951
RC 101.502 GL -6.92 GP 28.44 ZAL 35.49 ZAP 135.90 ETS 30.32 ZAE 122.05 ETE 162.64 ZAC 16.14 ETC 236.37 CLP-144.75

PLANETOCENTRIC CONIC

C3 19.829 VHL 4.453 DLA -22.61 RAL 320.76 RAD 6567.8 VEL 11.883 PTH 2.11 VHP 5.044 DPA 4.03 RAP 274.76 ECC 1.3263

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 34 33	1417.01	4.43	355.26	183.10	118.00	12 58 10	817.0	8.15	348.55
90.00	17 48 45	5651.72	27.94	265.94	190.24	94.77	19 22 57	5051.7	28.31	257.30
100.00	13 39 11	1208.42	2.85	339.06	182.22	119.77	13 59 19	608.4	6.79	332.49
100.00	19 26 49	5335.53	29.75	242.82	190.38	93.01	20 55 44	4735.5	29.85	234.02
110.00	14 13 6	1102.08	-.89	328.67	179.89	124.17	14 31 28	502.1	3.60	322.46
110.00	21 9 23	5014.64	34.16	218.52	190.45	88.61	22 32 58	4414.6	33.59	209.33

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE 1.0433 TRA 3.8332 TC3-2.2744 BAU .6117 SGT 5869.3 SGR 1767.8 SG3 694.1 ST 2091.6 SR 543.8 SS 1478.5
RDE -.1292 RRA-1.2381 RC3 .3883 FAU .04634 RRT -.9776 RRF -.9727 RTF .9885 CRT -.9262 CRS .8541 CST -.9871
FDE 1.9940 FRA 5.3071 FC3-2.0230 BSP 19299 SGB 6129.8 R23 .0128 R13 -.9889 LSA 2601.4 MSA 298.6 SSA 13.1
BDE 1.0513 BRA 4.0282 BC3 2.3073 FSP -2481 SG1 6119.4 SG2 357.0 THA 163.54 EL1 2151.9 EL2 199.3 ALF 166.34

LAUNCH DATE SEP 14 1965 FLIGHT TIME 206.00 ARRIVAL DATE APR 8 1966

DISTANCE 563.028

HELIOCENTRIC CONIC

RL 150.47 LAL .00 LOL 350.97 VL 27.254 GAL 6.91 AZL 90.92 HCA 250.63 SMA 129.95 ECC .19761 INC .9181 VI 29.612
RP 108.46 LAP .87 LOP 241.60 VP 37.761 GAP 6.30 AZP 89.70 TAL 149.39 TAP 40.02 RCA 104.27 APO 155.63 V2 34.939
RC 103.862 GL -5.46 GP 26.73 ZAL 34.71 ZAP 138.69 ETS 31.39 ZAE 121.23 ETE 164.30 ZAC 15.03 ETC 230.96 CLP-147.25

PLANETOCENTRIC CONIC

C3 20.740 VHL 4.554 DLA -21.05 RAL 320.86 RAD 6567.8 VEL 11,921 PTH 2.12 VHP 5.219 DPA 2.31 RAP 275.33 ECC 1.3413

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 14 54	1499.93	1.77	359.90	183.16	118.27	12 39 54	899.9	5.54	353.25
90.00	18 9 11	5590.22	28.21	261.46	190.63	92.54	19 42 21	4990.2	28.27	252.80
100.00	13 22 4	1283.18	.31	343.16	182.35	119.89	13 43 27	683.2	4.29	336.63
100.00	19 44 42	5282.20	29.88	238.86	190.68	90.93	21 12 45	4682.2	29.69	230.06
110.00	14 0 20	1163.21	-3.23	331.86	180.14	124.05	14 19 44	563.2	1.27	325.65
110.00	21 22 55	4974.93	34.05	215.43	190.59	86.78	22 45 50	4374.9	33.23	206.28

DIFFERENTIAL CORRECTIONS

TDE 1.1638 TRA 4.0695 TC3-2.2375 BAU .6271
RDE -.0998 RRA-1.1721 RC3 .3298 FAU .04219
FDE 1.9750 FRA 5.1554 FC3-1.7612 BSP 19741
BDE 1.1681 BRA 4.2349 BC3 2.2617 FSP -2343

MID-COURSE EXECUTION ACCURACY

SGT 6032.8 SGR 1613.3 SG3 652.6
RRT -.9725 RRF -.9664 RTF .9884
SGB 6244.8 R23 .0074 R13 -.9886
SG1 6234.2 SG2 363.9 THA 165.37

ORBIT DETERMINATION ACCURACY

ST 2203.7 SR 490.5 SS 1463.0
CRT -.8924 CRS .8176 CST -.9893
LSA 2673.8 MSA 296.3 SSA 13.2
EL1 2247.2 EL2 217.0 ALF 168.66

LAUNCH DATE SEP 14 1965 FLIGHT TIME 208.00 ARRIVAL DATE APR 10 1966

DISTANCE 569.803

HELIOCENTRIC CONIC

RL 150.47 LAL .00 LOL 350.97 VL 27.238 GAL 7.19 AZL 90.71 HCA 253.81 SMA 129.84 ECC .20123 INC .7105 VI 29.612
RP 108.50 LAP .68 LOP 244.78 VP 37.739 GAP 6.76 AZP 89.80 TAL 148.74 TAP 42.56 RCA 103.72 APO 155.97 V2 34.926
RC 106.225 GL -4.12 GP 25.18 ZAL 33.97 ZAP 141.30 ETS 32.42 ZAE 120.44 ETE 165.71 ZAC 14.30 ETC 224.66 CLP-149.59

PLANETOCENTRIC CONIC

C3 21.794 VHL 4.668 DLA -19.59 RAL 321.00 RAD 6567.9 VEL 11.966 PTH 2.13 VHP 5.413 DPA .74 RAP 276.07 ECC 1.3587

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 58 32	1574.13	-.62	4.04	183.51	118.31	12 24 46	974.1	3.16	357.41
90.00	18 26 41	5539.88	28.31	257.79	191.12	90.70	19 59 1	4939.9	28.11	249.13
100.00	13 7 34	1351.39	-2.00	346.90	182.74	119.83	13 30 5	751.4	1.98	340.38
100.00	20 0 21	5237.86	29.88	235.57	191.12	89.20	21 27 38	4637.9	29.45	226.79
110.00	13 49 16	1220.68	-5.41	334.87	180.62	123.80	14 9 37	620.7	-.93	328.65
110.00	21 35 7	4941.34	33.89	212.82	190.89	85.24	22 57 29	4341.3	32.86	203.73

DIFFERENTIAL CORRECTIONS

TDE 1.2910 TRA 4.3125 TC3-2.1765 BAU .6393
RDE -.0724 RRA-1.1149 RC3 .2774 FAU .03790
FDE 1.9540 FRA 5.0049 FC3-1.5053 BSP 20085
BDE 1.2930 BRA 4.4543 BC3 2.1941 FSP -2195

MID-COURSE EXECUTION ACCURACY

SGT 6180.8 SGR 1478.0 SG3 612.4
RRT -.9662 RRF -.9591 RTF .9881
SGB 6355.1 R23 .0035 R13 -.9882
SG1 6344.2 SG2 371.0 THA 166.94

ORBIT DETERMINATION ACCURACY

ST 2314.0 SR 444.8 SS 1447.4
CRT -.8508 CRS .7742 CST -.9912
LSA 2749.7 MSA 294.0 SSA 13.3
EL1 2345.1 EL2 230.6 ALF 170.62

LAUNCH DATE SEP 14 1965 FLIGHT TIME 210.00 ARRIVAL DATE APR 12 1966

DISTANCE 574.940

HELIOCENTRIC CONIC

RL 150.47 LAL .00 LOL 350.97 VL 27.221 GAL 7.49 AZL 90.51 HCA 256.99 SMA 129.73 ECC .20517 INC .5097 VI 29.612
RP 108.54 LAP .50 LOP 247.96 VP 37.716 GAP 7.23 AZP 89.89 TAL 148.07 TAP 45.06 RCA 103.11 APO 156.35 V2 34.914
RC 108.588 GL -2.87 GP 23.77 ZAL 33.27 ZAP 143.74 ETS 33.45 ZAE 119.69 ETE 166.92 ZAC 13.95 ETC 217.79 CLP-151.78

PLANETOCENTRIC CONIC

C3 23.004 VHL 4.796 DLA -18.23 RAL 321.18 RAD 6567.9 VEL 12.016 PTH 2.14 VHP 5.623 DPA -.68 RAP 276.95 ECC 1.3786

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 44 36	1642.12	-2.82	7.83	184.09	118.19	12 11 58	1042.1	.97	1.21
90.00	18 42 4	5498.09	28.31	254.73	191.75	89.17	20 13 42	4898.1	27.89	246.09
100.00	12 55 4	1414.69	-4.14	350.39	183.36	119.63	13 18 39	814.7	-.16	343.85
100.00	20 14 16	5200.75	29.82	232.81	191.70	87.75	21 40 57	4600.7	29.18	224.06
110.00	13 39 36	1275.18	-7.47	337.75	181.31	123.46	14 0 51	675.2	-3.01	331.49
110.00	21 46 14	4913.02	33.71	210.63	191.37	83.95	23 8 7	4313.0	32.50	201.60

DIFFERENTIAL CORRECTIONS

TDE 1.4188 TRA 4.5577 TC3-2.1058 BAU .6516
RDE -.0451 RRA-1.0640 RC3 .2345 FAU .03401
FDE 1.9234 FRA 4.8511 FC3-1.2799 BSP 20486
BDE 1.4195 BRA 4.6803 BC3 2.1188 FSP -2062

MID-COURSE EXECUTION ACCURACY

SGT 6309.7 SGR 1358.0 SG3 573.2
RRT -.9589 RRF -.9506 RTF .9878
SGB 6454.2 R23 .0001 R13 -.9879
SG1 6443.2 SG2 377.4 THA 168.30

ORBIT DETERMINATION ACCURACY

ST 2415.3 SR 405.1 SS 1427.3
CRT -.7993 CRS .7216 CST -.9927
LSA 2819.5 MSA 291.7 SSA 13.3
EL1 2437.1 EL2 241.3 ALF 172.29

LAUNCH DATE SEP 14 1965 FLIGHT TIME 212.00 ARRIVAL DATE APR 14 1966

DISTANCE 580.835

HELIOCENTRIC CONIC

RL 150.47 LAL .00 LOL 350.97 VL 27.204 GAL 7.81 AZL 90.31 HCA 260.17 SMA 129.61 ECC .20945 INC .3139 VI 29.612
RP 108.58 LAP .31 LOP 251.14 VP 37.693 GAP 7.71 AZP 89.95 TAL 147.37 TAP 47.55 RCA 102.46 APO 156.76 V2 34.903
RC 110.951 GL -1.72 GP 22.49 ZAL 32.61 ZAP 146.03 ETS 34.51 ZAE 118.98 ETE 167.95 ZAC 13.97 ETC 210.79 CLP-153.85

PLANETOCENTRIC CONIC

C3 24.380 VHL 4.938 DLA -16.95 RAL 321.39 RAD 6568.0 VEL 12.073 PTH 2.16 VHP 5.850 DPA -1.97 RAP 277.97 ECC 1.4012

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 32 32	1705.41	-4.84	11.38	184.88	117.93	12 0 57	1105.4	-1.07	4.73
90.00	18 55 50	5463.22	28.24	252.18	192.51	87.89	20 26 53	4863.2	27.65	243.56
100.00	12 44 11	1474.18	-6.13	353.68	184.17	119.31	13 8 45	874.2	-2.18	347.12
100.00	20 26 51	5169.68	29.71	230.51	192.42	86.54	21 53 1	4569.7	28.91	221.79
110.00	13 31 5	1327.28	-9.41	340.54	182.17	123.01	13 53 12	727.3	-5.00	334.23
110.00	21 56 27	4889.35	33.52	208.80	192.01	82.89	23 17 56	4289.4	32.18	199.83

DIFFERENTIAL CORRECTIONS

TDE 1.5510 TRA 4.8099 TC3-2.0209 BAU .6618
RDE -.0189 RRA-1.0194 RC3 .1975 FAU .03024
FDE 1.8901 FRA 4.7019 FC3-1.0740 BSP 20860
BDE 1.5512 BRA 4.9168 BC3 2.0305 FSP -1934

MID-COURSE EXECUTION ACCURACY

SGT 6423.9 SGR 1252.1 SG3 535.9
RRT -.9503 RRF -.9411 RTF .9875
SGB 6544.8 R23 -.0023 R13 -.9875
SG1 6533.6 SG2 383.1 THA 169.47

ORBIT DETERMINATION ACCURACY

ST 2511.4 SR 371.7 SS 1406.0
CRT -.7383 CRS .6605 CST -.9940
LSA 2887.6 MSA 289.4 SSA 13.3
EL1 2526.5 EL2 249.2 ALF 173.70

LAUNCH DATE SEP 14 1965 FLIGHT TIME 214.00 ARRIVAL DATE APR 16 1966

HELIOCENTRIC CONIC DISTANCE 586.685

RL 150.47 LAL .00 LOL 350.97 VL 27.187 GAL 8.15 AZL 90.12 HCA 263.35 SMA 129.49 ECC .21410 INC .1213 VI 29.612
RP 108.61 LAP .12 LOP 254.32 VP 37.669 GAP 8.21 AZP 89.99 TAL 146.66 TAP 50.01 RCA 101.77 APO 157.21 V2 34.892
RC 113.313 GL -.65 GP 21.32 ZAL 31.98 ZAP 148.18 ETS 35.63 ZAE 118.31 ETE 168.83 ZAC 14.36 ETC 204.11 CLP-155.80

PLANETOCENTRIC CONIC

C3 25.940 VHL 5.093 DLA -15.75 RAL 321.63 RAD 6568.0 VEL 12.137 PTH 2.18 VHP 6.093 OPA -3.13 RAP 279.12 ECC 1.4269

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 21 59	1765.02	-6.73	14.74	185.84	117.57	11 51 24	1165.0	-2.99	8.06
90.00	19 8 18	5434.19	28.15	250.06	193.39	86.83	20 38 52	4834.2	27.42	241.47
100.00	12 34 38	1530.61	-8.00	356.82	185.16	118.90	13 0 8	930.6	-4.08	350.22
100.00	20 38 20	5143.83	29.59	228.59	193.28	85.54	22 4 4	4543.8	28.66	219.91
110.00	13 23 33	1377.36	-11.25	343.24	183.20	122.49	13 46 31	777.4	-6.89	336.87
110.00	22 5 54	4869.85	33.35	207.31	192.80	82.02	23 27 4	4269.8	31.89	198.38

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE 1.6883 TRA 5.0706 TC3-1.9247 BAU .6699 SGT 6525.0 SGR 1158.5 SG3 500.7 ST 2602.3 SR 343.9 SS 1384.4
RDE .0062 RRA -.9806 RC3 .1659 FAU .02666 RRT -.9406 RRF -.9304 RTF .9872 CRT -.6685 CRS .5917 CST -.9950
FDE 1.8557 FRA 4.5595 FC3 -.8897 BSP .21200 SGB 6627.1 R23 -.0042 R13 -.9872 LSA 2953.7 MSA 286.7 SSA 13.3
BDE 1.6883 BRA 5.1646 BC3 1.9318 FSP -1809 SG1 6615.7 SG2 387.9 THA 170.49 EL1 2612.5 EL2 254.8 ALF 174.90

LAUNCH DATE SEP 14 1965 FLIGHT TIME 216.00 ARRIVAL DATE APR 18 1966

HELIOCENTRIC CONIC DISTANCE 592.487

RL 150.47 LAL .00 LOL 350.97 VL 27.168 GAL 8.53 AZL 89.93 HCA 266.52 SMA 129.37 ECC .21915 INC .0641 VI 29.612
RP 108.64 LAP -.07 LOP 257.49 VP 37.646 GAP 8.72 AZP 90.00 TAL 145.94 TAP 52.46 RCA 101.01 APO 157.72 V2 34.881
RC 115.673 GL .34 GP 20.26 ZAL 31.38 ZAP 150.19 ETS 36.82 ZAE 117.68 ETE 169.59 ZAC 15.05 ETC 198.06 CLP-157.65

PLANETOCENTRIC CONIC

C3 27.703 VHL 5.263 DLA -14.62 RAL 321.90 RAD 6568.1 VEL 12.210 PTH 2.19 VHP 6.354 OPA -4.17 RAP 280.38 ECC 1.4559

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 12 42	1821.64	-8.50	17.96	186.97	117.11	11 43 4	1221.6	-4.80	11.24
90.00	19 19 42	5410.22	28.05	248.31	194.40	85.96	20 49 52	4810.2	27.20	239.75
100.00	12 26 11	1584.52	-9.76	359.86	186.30	118.39	12 52 36	984.5	-5.89	353.21
100.00	20 48 54	5122.57	29.47	227.02	194.27	84.72	22 14 16	4522.6	28.42	218.38
110.00	13 16 53	1425.74	-13.01	345.89	184.38	121.89	13 40 39	825.7	-8.70	339.44
110.00	22 14 42	4854.11	33.19	206.10	193.74	81.32	23 35 36	4254.1	31.64	197.22

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE 1.8345 TRA 5.3454 TC3-1.8143 BAU .6739 SGT 6618.1 SGR 1076.0 SG3 468.0 ST 2691.8 SR 321.4 SS 1364.7
RDE .0297 RRA -.9472 RC3 .1379 FAU .02308 RRT -.9298 RRF -.9188 RTF .9868 CRT -.5924 CRS .5179 CST -.9959
FDE 1.8246 FRA 4.4286 FC3 -.7212 BSP .21423 SGB 6705.0 R23 -.0054 R13 -.9868 LSA 3021.7 MSA 283.7 SSA 13.2
BDE 1.8347 BRA 5.4287 BC3 1.8195 FSP -1683 SG1 6693.6 SG2 391.6 THA 171.37 EL1 2698.6 EL2 258.3 ALF 175.92

LAUNCH DATE SEP 14 1965 FLIGHT TIME 218.00 ARRIVAL DATE APR 20 1966

HELIOCENTRIC CONIC DISTANCE 598.234

RL 150.47 LAL .00 LOL 350.97 VL 27.150 GAL 8.93 AZL 89.75 HCA 269.69 SMA 129.24 ECC .22463 INC .2542 VI 29.612
RP 108.68 LAP -.25 LOP 260.66 VP 37.623 GAP 9.24 AZP 90.00 TAL 145.20 TAP 54.89 RCA 100.21 APO 158.27 V2 34.870
RC 118.029 GL 1.25 GP 19.30 ZAL 30.81 ZAP 152.08 ETS 38.12 ZAE 117.09 ETE 170.24 ZAC 15.99 ETC 192.83 CLP-159.42

PLANETOCENTRIC CONIC

C3 29.692 VHL 5.449 DLA -13.57 RAL 322.18 RAD 6568.2 VEL 12.291 PTH 2.21 VHP 6.632 OPA -5.10 RAP 281.73 ECC 1.4887

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 4 28	1875.78	-10.17	21.07	188.24	116.57	11 35 44	1275.8	-6.52	14.29
90.00	19 30 12	5390.72	27.95	246.90	195.53	85.26	21 0 2	4790.7	27.00	238.36
100.00	12 18 42	1636.31	-11.42	2.81	187.59	117.81	12 45 58	1036.3	-7.61	356.09
100.00	20 58 40	5105.42	29.35	225.76	195.39	84.07	22 23 45	4505.4	28.22	217.14
110.00	13 10 57	1472.66	-14.68	348.50	185.69	121.22	13 35 29	872.7	-10.44	341.96
110.00	22 22 54	4841.83	33.06	205.17	194.81	80.79	23 43 36	4241.8	31.44	196.32

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE 1.9813 TRA 5.6266 TC3-1.7041 BAU .6780 SGT 6695.5 SGR 1001.5 SG3 437.1 ST 2770.8 SR 302.9 SS 1342.1
RDE .0533 RRA -.9171 RC3 .1153 FAU .01994 RRT -.9178 RRF -.9060 RTF .9865 CRT -.5086 CRS .4371 CST -.9966
FDE 1.7887 FRA 4.3016 FC3 -.5814 BSP .21736 SGB 6770.0 R23 -.0064 R13 -.9865 LSA 3080.8 MSA 280.5 SSA 13.2
BDE 1.9821 BRA 5.7008 BC3 1.7080 FSP -1576 SG1 6758.5 SG2 394.1 THA 172.16 EL1 2775.1 EL2 260.4 ALF 176.79

LAUNCH DATE SEP 14 1965 FLIGHT TIME 220.00 ARRIVAL DATE APR 22 1966

HELIOCENTRIC CONIC DISTANCE 603.922

RL 150.47 LAL .00 LOL 350.97 VL 27.130 GAL 9.37 AZL 89.56 HCA 272.86 SMA 129.11 ECC .23057 INC .4417 VI 29.612
RP 108.71 LAP -.44 LOP 263.83 VP 37.600 GAP 9.79 AZP 89.98 TAL 144.45 TAP 57.31 RCA 99.34 APO 158.87 V2 34.860
RC 120.382 GL 2.09 GP 18.42 ZAL 30.27 ZAP 153.85 ETS 39.56 ZAE 116.54 ETE 170.81 ZAC 17.15 ETC 188.42 CLP-161.11

PLANETOCENTRIC CONIC

C3 31.936 VHL 5.651 DLA -12.59 RAL 322.48 RAD 6568.3 VEL 12.382 PTH 2.24 VHP 6.928 OPA -5.93 RAP 283.17 ECC 1.5256

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 57 10	1927.85	-11.74	24.09	189.65	115.95	11 29 18	1327.8	-8.15	17.24
90.00	19 39 54	5375.24	27.86	245.77	196.78	84.70	21 9 29	4775.2	26.83	237.26
100.00	12 12 1	1686.31	-12.99	5.69	189.00	117.16	12 40 8	1086.3	-9.25	358.90
100.00	21 7 43	5092.01	29.25	224.78	196.62	83.56	22 32 35	4492.0	28.05	216.18
110.00	13 5 40	1518.33	-16.28	351.08	187.14	120.48	13 30 58	918.3	-12.11	344.45
110.00	22 30 35	4832.75	32.96	204.48	196.01	80.39	23 51 7	4232.8	31.29	195.66

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE 2.1353 TRA 5.9214 TC3-1.5879 BAU .6792 SGT 6763.7 SGR 934.7 SG3 408.3 ST 2845.2 SR 288.1 SS 1320.4
RDE .0760 RRA -.8906 RC3 .0959 FAU .01695 RRT -.9046 RRF -.8922 RTF .9863 CRT -.4216 CRS .3540 CST -.9972
FDE 1.7546 FRA 4.1846 FC3 -.4595 BSP .22001 SGB 6827.9 R23 -.0070 R13 -.9863 LSA 3137.7 MSA 276.9 SSA 13.0
BDE 2.1366 BRA 5.9880 BC3 1.5908 FSP -1472 SG1 6816.5 SG2 395.4 THA 172.85 EL1 2847.8 EL2 261.0 ALF 177.54

LAUNCH DATE SEP 15 1965 FLIGHT TIME 70.00 ARRIVAL DATE NOV 24 1965

HELIOCENTRIC CONIC DISTANCE 125.644

RL	150.43	LAL	.00	LOL	351.95	VL	14.600	GAL	31.17	AZL	95.09	HCA	32.03	SMA	85.55	ECC	.83004	INC	5.0857	VI	29.620
RP	108.43	LAP	-2.69	LOP	23.87	VP	29.945	GAP	-54.64	AZP	94.32	TAL	172.59	TAP	204.62	RCA	14.54	APO	156.56	V2	34.951
RC	90.741	GL	-3.34	GP	-3.67	ZAL	65.00	ZAP	36.39	ETS	171.74	ZAE	131.55	ETE	178.10	ZAC	30.85	ETC	32.73	CLP	36.23

PLANETOCENTRIC CONIC

C3	360.525	VHL	18.988	DLA	-25.68	RAL	288.88	RAD	6572.0	VEL	21.951	PTH	3.23	VHP	30.053	DPA	-22.78	RAP	237.06	ECC	6.9333

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 13 33	1839.83	-9.07	19.00	189.29	116.94	11 44 13	1239.8	-5.38	12.26
90.00	14 47 35	1134.81	13.12	339.08	200.08	115.32	15 6 30	534.8	16.42	331.97
100.00	12 9 21	1659.69	-12.16	4.15	187.67	117.52	12 37 1	1059.7	-8.38	357.40
100.00	16 34 29	790.19	16.26	315.27	201.62	115.43	16 47 39	190.2	19.55	308.02
110.00	12 30 56	1591.97	-18.77	355.33	183.98	119.11	12 57 28	992.0	-14.74	348.52
110.00	18 29 23	5718.71	23.03	269.33	205.07	115.99	20 4 42	5118.7	26.33	261.72

DIFFERENTIAL CORRECTIONS

TDE	-.3557	TRA	-2.0710	TC3	-.1095	BAU	.5284
RDE	-1.4942	RRA	.3058	RC3	.0044	FAU	.01091
FDE	.1062	FRA	.7351	FC3	-.0262	BSP	1913
BDE	1.5360	BRA	2.0935	BC3	.1096	FSP	-46

MID-COURSE EXECUTION ACCURACY

SGT	815.7	SGR	462.7	SG3	23.1		
RRT	-.0782	RRF	.0736	RTF	-.6085		
SGB	937.8	R23	-.0038	R13	.6090		
SG1	816.9	SG2	460.6	THA	176.28		

ORBIT DETERMINATION ACCURACY

ST	234.4	SR	451.9	SS	209.1		
CRT	.3965	CRS	.3346	CST	.9937		
LSA	475.3	MSA	277.3	SSA	14.2		
EL1	464.0	EL2	209.6	ALF	75.32		

LAUNCH DATE SEP 15 1965 FLIGHT TIME 72.00 ARRIVAL DATE NOV 26 1965

HELIOCENTRIC CONIC DISTANCE 130.924

RL	150.43	LAL	.00	LOL	351.95	VL	15.416	GAL	29.67	AZL	94.47	HCA	35.20	SMA	86.92	ECC	.80503	INC	4.4705	VI	29.620
RP	108.39	LAP	-2.58	LOP	27.06	VP	30.366	GAP	-52.25	AZP	93.66	TAL	171.73	TAP	206.92	RCA	16.95	APO	156.90	V2	34.964
RC	88.499	GL	-3.29	GP	-3.76	ZAL	63.58	ZAP	34.88	ETS	171.30	ZAE	131.33	ETE	178.34	ZAC	29.57	ETC	34.65	CLP	34.71

PLANETOCENTRIC CONIC

C3	331.145	VHL	18.197	DLA	-25.43	RAL	290.44	RAD	6571.9	VEL	21.271	PTH	3.20	VHP	28.989	DPA	-23.30	RAP	238.78	ECC	6.4498

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 14 56	1847.11	-9.29	19.42	190.08	116.87	11 45 43	1247.1	-5.61	12.67
90.00	14 58 38	1109.12	13.86	337.56	201.22	114.94	15 17 8	509.1	17.11	330.39
100.00	12 11 48	1663.51	-12.28	4.37	188.52	117.47	12 39 31	1063.5	-8.51	357.61
100.00	16 44 28	767.96	16.91	313.93	202.69	115.02	16 57 16	168.0	20.14	306.63
110.00	12 34 39	1591.79	-18.76	355.32	184.90	119.11	13 1 11	991.8	-14.74	348.51
110.00	18 38 6	5700.48	23.57	268.18	206.04	115.51	20 13 6	5100.5	26.80	260.51

DIFFERENTIAL CORRECTIONS

TDE	-.3799	TRA	-2.0902	TC3	-.1173	BAU	.5196
RDE	-1.4463	RRA	.3210	RC3	.0043	FAU	.01090
FDE	.1210	FRA	.7633	FC3	-.0285	BSP	2040
BDE	1.4953	BRA	2.1148	BC3	.1174	FSP	-51

MID-COURSE EXECUTION ACCURACY

SGT	853.0	SGR	469.2	SG3	24.9		
RRT	-.0844	RRF	.0799	RTF	-.6273		
SGB	973.5	R23	-.0043	R13	.6279		
SG1	854.3	SG2	466.8	THA	176.21		

ORBIT DETERMINATION ACCURACY

ST	249.5	SR	456.6	SS	221.7		
CRT	.4135	CRS	.3631	CST	.9947		
LSA	486.7	MSA	287.9	SSA	14.4		
EL1	471.6	EL2	220.0	ALF	73.60		

LAUNCH DATE SEP 15 1965 FLIGHT TIME 74.00 ARRIVAL DATE NOV 28 1965

HELIOCENTRIC CONIC DISTANCE 136.336

RL	150.43	LAL	.00	LOL	351.95	VL	16.184	GAL	28.29	AZL	93.94	HCA	38.38	SMA	88.33	ECC	.77972	INC	3.9447	VI	29.620
RP	108.35	LAP	-2.45	LOP	30.26	VP	30.778	GAP	-49.99	AZP	93.09	TAL	170.86	TAP	209.24	RCA	19.46	APO	157.20	V2	34.977
RC	86.263	GL	-3.22	GP	-3.85	ZAL	62.19	ZAP	33.41	ETS	170.83	ZAE	131.18	ETE	178.61	ZAC	28.32	ETC	36.79	CLP	33.21

PLANETOCENTRIC CONIC

C3	304.320	VHL	17.445	DLA	-25.17	RAL	291.94	RAD	6571.7	VEL	20.631	PTH	3.17	VHP	27.961	DPA	-23.83	RAP	240.53	ECC	6.0083

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 15 54	1854.54	-9.52	19.84	190.78	116.79	11 46 49	1254.5	-5.85	13.09
90.00	15 9 38	1082.27	14.63	335.96	202.27	114.52	15 27 41	482.3	17.82	328.74
100.00	12 13 49	1667.56	-12.41	4.60	189.28	117.41	12 41 37	1067.6	-8.64	357.84
100.00	16 54 25	744.48	17.58	312.51	203.67	114.57	17 6 49	144.5	20.75	305.15
110.00	12 37 59	1591.75	-18.76	355.32	185.73	119.11	13 4 31	991.8	-14.74	348.51
110.00	18 46 44	5681.09	24.13	266.96	206.90	114.98	20 21 25	5081.1	27.29	259.22

DIFFERENTIAL CORRECTIONS

TDE	-.4034	TRA	-2.1107	TC3	-.1253	BAU	.5103
RDE	-1.3980	RRA	.3349	RC3	.0042	FAU	.01091
FDE	.1364	FRA	.7920	FC3	-.0310	BSP	2167
BDE	1.4550	BRA	2.1371	BC3	.1254	FSP	-55

MID-COURSE EXECUTION ACCURACY

SGT	891.9	SGR	475.2	SG3	26.8		
RRT	-.0911	RRF	.0867	RTF	-.6457		
SGB	1010.6	R23	-.0050	R13	.6463		
SG1	893.4	SG2	472.4	THA	176.14		

ORBIT DETERMINATION ACCURACY

ST	265.6	SR	460.6	SS	234.9		
CRT	.4288	CRS	.3891	CST	.9956		
LSA	498.8	MSA	298.1	SSA	14.6		
EL1	479.0	EL2	230.7	ALF	71.73		

LAUNCH DATE SEP 15 1965 FLIGHT TIME 76.00 ARRIVAL DATE NOV 30 1965

HELIOCENTRIC CONIC DISTANCE 141.871

RL	150.43	LAL	.00	LOL	351.95	VL	16.908	GAL	27.01	AZL	93.49	HCA	41.56	SMA	89.76	ECC	.75429	INC	3.4875	VI	29.620
RP	108.31	LAP	-2.31	LOP	33.46	VP	31.179	GAP	-47.85	AZP	92.61	TAL	169.99	TAP	211.55	RCA	22.05	APO	157.46	V2	34.990
RC	84.036	GL	-3.14	GP	-3.95	ZAL	60.86	ZAP	31.95	ETS	170.31	ZAE	131.09	ETE	178.91	ZAC	27.09	ETC	39.19	CLP	31.73

PLANETOCENTRIC CONIC

C3	279.791	VHL	16.727	DLA	-24.88	RAL	293.38	RAD	6571.6	VEL	20.028	PTH	3.14	VHP	26.967	DPA	-24.35	RAP	242.33	ECC	5.6046

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 16 30	1862.00	-9.75	20.27	191.39	116.72	11 47 32	1262.0	-6.09	13.51
90.00	15 20 33	1054.33	15.41	334.28	203.21	114.05	15 38 7	454.3	18.53	327.00
100.00	12 15 26	1671.73	-12.54	4.84	189.94	117.36	12 43 18	1071.7	-8.77	358.07
100.00	17 4 18	719.83	18.27	311.01	204.54	114.08	17 16 17	119.8	21.37	303.58
110.00	12 40 55	1591.78	-18.76	355.32	186.47	119.11	13 7 27	991.8	-14.74	348.51
110.00	18 55 18	5660.58	24.71	265.65	207.65	114.41	20 29 38	5060.6	27.79	257.83

DIFFERENTIAL CORRECTIONS

TDE	-.4259	TRA	-2.1317	TC3	-.1337	BAU	.5002
RDE	-1.3493	RRA	.3474	RC3	.0039	FAU	.01092
FDE	.1522	FRA	.8214	FC3	-.0338	BSP	2308
BDE	1.4149	BRA	2.1599	BC3	.1337	FSP	-61

MID-COURSE EXECUTION ACCURACY

SGT	932.3	SGR	480.6	SG3	28.9		
RRT	-.0983	RRF	.0940	RTF	-.6634		
SGB	1048.9	R23	-.0056	R13	.6640		
SG1	933.9	SG2	477.5	THA	176.07		

ORBIT DETERMINATION ACCURACY

ST	282.4	SR	463.9	SS	248.6		
CRT	.4420	CRS	.4128	CST	.9963		
LSA	511.7	MSA	307.8	SSA	14.8		
EL1	486.4	EL2	241.6	ALF	69.73		

LAUNCH DATE SEP 15 1965 FLIGHT TIME 78.00 ARRIVAL DATE DEC 2 1965

HELIOCENTRIC CONIC DISTANCE 147.522

RL 150.43 LAL .00 LOL 351.95 VL 17.589 GAL 25.81 AZL 93.08 HCA 44.75 SMA 91.21 ECC .72889 INC 3.0840 V1 29.620
RP 108.27 LAP -2.17 LOP 36.66 VP 31.569 GAP -45.82 AZP 92.19 TAL 169.13 TAP 213.88 RCA 24.73 APO 157.69 V2 35.003
RC 81.818 GL -3.04 GP -4.06 ZAL 59.57 ZAP 30.52 ETS 169.73 ZAE 131.07 ETE 179.23 ZAC 25.91 ETC 41.87 CLP 30.28

PLANETOCENTRIC CONIC

C3 257.331 VHL 16.042 DLA -24.58 RAL 294.27 RAD 6571.5 VEL 19.459 PTH 3.11 VHP 26.006 DPA -24.87 RAP 244.16 ECC 5.2350

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 16 45	1869.38	-9.97	20.70	191.91	116.64	11 47 55	1269.4	-6.32	13.92
90.00	15 31 20	1025.36	16.21	332.53	204.03	113.54	15 48 25	425.4	19.25	325.18
100.00	12 16 40	1675.94	-12.67	5.09	190.51	117.30	12 44 36	1075.9	-8.91	358.31
100.00	17 14 6	694.04	18.98	309.42	205.30	113.54	17 25 40	94.0	22.00	301.93
110.00	12 43 29	1591.82	-18.76	355.32	187.12	119.11	13 10 1	991.8	-14.74	348.52
110.00	19 3 46	5638.96	25.31	264.26	208.29	113.78	20 37 45	5039.0	28.30	256.36

DIFFERENTIAL CORRECTIONS
TDE -.4468 TRA-2.1528 TC3 -.1421 BAU .4891
RDE-1.3004 RRA .3587 RC3 .0036 FAU .01096
FDE .1684 FRA .8513 FC3 -.0369 BSP 2470
BDE 1.3750 BRA 2.1825 BC3 .1422 FSP -67

MID-COURSE EXECUTION ACCURACY
SGT 973.8 SGR 485.5 SG3 31.1
RRT -.1063 RRF .1020 RTF -.6805
SGB 1088.1 R23 -.0062 R13 .6812
SG1 975.6 SG2 481.9 THA 175.99

ORBIT DETERMINATION ACCURACY
ST 300.0 SR 466.4 SS 262.9
CRT .4531 CRS .4343 CST .9969
LSA 525.4 MSA 316.9 SSA 15.0
EL1 493.6 EL2 252.7 ALF 67.58

LAUNCH DATE SEP 15 1965 FLIGHT TIME 80.00 ARRIVAL DATE DEC 4 1965

HELIOCENTRIC CONIC DISTANCE 153.284

RL 150.43 LAL .00 LO 351.95 VL 18.231 GAL 24.69 AZL 92.72 HCA 47.94 SMA 92.67 ECC .70365 INC 2.7231 V1 29.620
RP 108.22 LAP -2.02 LOP 39.86 VP 31.945 GAP -43.88 AZP 91.83 TAL 168.28 TAP 216.22 RCA 27.46 APO 157.88 V2 35.016
RC 79.613 GL -2.93 GP -4.18 ZAL 58.32 ZAP 29.12 ETS 169.09 ZAE 131.11 ETE 179.59 ZAC 24.79 ETC 44.86 CLP 28.84

PLANETOCENTRIC CONIC

C3 236.746 VHL 15.387 DLA -24.26 RAL 296.09 RAD 6571.4 VEL 18.922 PTH 3.07 VHP 25.074 DPA -25.38 RAP 246.03 ECC 4.8962

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 16 41	1876.64	-10.20	21.11	192.34	116.56	11 47 57	1276.6	-6.55	14.33
90.00	15 41 59	995.41	17.01	330.70	204.75	112.98	15 58 34	395.4	19.98	323.28
100.00	12 17 33	1680.14	-12.80	5.33	190.99	117.24	12 45 33	1080.1	-9.05	358.55
100.00	17 23 48	667.15	19.70	307.75	205.95	112.95	17 34 55	67.1	22.64	300.19
110.00	12 45 42	1591.84	-18.76	355.32	187.67	119.11	13 12 14	991.8	-14.74	348.52
110.00	19 12 8	5616.24	25.93	262.78	208.82	113.10	20 45 44	5016.2	28.82	254.80

DIFFERENTIAL CORRECTIONS
TDE -.4701 TRA-2.1776 TC3 -.1513 BAU .4791
RDE-1.2513 RRA .3688 RC3 .0031 FAU .01098
FDE .1855 FRA .8824 FC3 -.0402 BSP 2562
BDE 1.3367 BRA 2.2086 BC3 .1514 FSP -72

MID-COURSE EXECUTION ACCURACY
SGT 1019.1 SGR 489.8 SG3 33.5
RRT -.1139 RRF .1103 RTF -.6970
SGB 1130.7 R23 -.0076 R13 .6977
SG1 1021.1 SG2 485.7 THA 175.95

ORBIT DETERMINATION ACCURACY
ST 319.4 SR 468.1 SS 278.1
CRT .4648 CRS .4544 CST .9973
LSA 540.9 MSA 325.1 SSA 15.3
EL1 501.5 EL2 264.0 ALF 65.06

LAUNCH DATE SEP 15 1965 FLIGHT TIME 82.00 ARRIVAL DATE DEC 6 1965

HELIOCENTRIC CONIC DISTANCE 159.149

RL 150.43 LAL .00 LOL 351.95 VL 18.836 GAL 23.62 AZL 92.40 HCA 51.14 SMA 94.14 ECC .67868 INC 2.3966 V1 29.620
RP 108.18 LAP -1.87 LOP 43.06 VP 32.308 GAP -42.03 AZP 91.50 TAL 167.44 TAP 218.57 RCA 30.25 APO 158.04 V2 35.030
RC 77.423 GL -2.80 GP -4.31 ZAL 57.11 ZAP 27.73 ETS 168.38 ZAE 131.22 ETE 179.99 ZAC 23.74 ETC 48.19 CLP 27.42

PLANETOCENTRIC CONIC

C3 217.859 VHL 14.760 DLA -23.91 RAL 297.36 RAD 6571.2 VEL 18.417 PTH 3.04 VHP 24.172 DPA -25.89 RAP 247.93 ECC 4.5854

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 16 17	1883.70	-10.41	21.52	192.68	116.48	11 47 41	1283.7	-6.77	14.73
90.00	15 52 29	964.51	17.82	328.79	205.35	112.37	16 8 34	364.5	20.70	321.30
100.00	12 18 4	1684.26	-12.93	5.57	191.38	117.19	12 46 8	1084.3	-9.18	358.78
100.00	17 33 23	639.18	20.43	305.99	206.48	112.30	17 44 2	39.2	23.28	298.35
110.00	12 47 33	1591.81	-18.76	355.32	188.13	119.11	13 14 5	991.8	-14.74	348.52
110.00	19 20 24	5592.43	26.55	261.21	209.22	112.36	20 53 36	4992.4	29.34	253.14

DIFFERENTIAL CORRECTIONS
TDE -.4931 TRA-2.2033 TC3 -.1610 BAU .4690
RDE-1.2021 RRA .3777 RC3 .0025 FAU .01102
FDE .2032 FRA .9144 FC3 -.0438 BSP 2646
BDE 1.2993 BRA 2.2355 BC3 .1610 FSP -78

MID-COURSE EXECUTION ACCURACY
SGT 1066.7 SGR 493.5 SG3 36.0
RRT -.1220 RRF .1192 RTF -.7128
SGB 1175.3 R23 -.0092 R13 .7135
SG1 1068.9 SG2 488.8 THA 175.91

ORBIT DETERMINATION ACCURACY
ST 340.0 SR 469.1 SS 293.9
CRT .4753 CRS .4726 CST .9976
LSA 557.9 MSA 332.5 SSA 15.5
EL1 509.8 EL2 275.3 ALF 62.28

LAUNCH DATE SEP 15 1965 FLIGHT TIME 84.00 ARRIVAL DATE DEC 8 1965

HELIOCENTRIC CONIC DISTANCE 165.134

RL 150.43 LAL .00 LOL 351.95 VL 19.405 GAL 22.63 AZL 92.10 HCA 54.33 SMA 95.62 ECC .65416 INC 2.0980 V1 29.620
RP 108.14 LAP -1.70 LOP 46.26 VP 32.658 GAP -40.28 AZP 91.22 TAL 166.60 TAP 220.94 RCA 33.07 APO 158.17 V2 35.043
RC 75.249 GL -2.65 GP -4.45 ZAL 55.94 ZAP 26.37 ETS 167.58 ZAE 131.40 ETE 180.43 ZAC 22.78 ETC 51.87 CLP 26.02

PLANETOCENTRIC CONIC

C3 200.638 VHL 14.165 DLA -23.55 RAL 298.58 RAD 6571.1 VEL 17.943 PTH 3.00 VHP 23.302 DPA -26.39 RAP 249.86 ECC 4.3020

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 15 35	1890.82	-10.63	21.93	192.95	116.40	11 47 6	1290.8	-7.00	15.14
90.00	16 2 56	932.57	18.64	326.81	205.84	111.71	16 18 28	332.6	21.42	319.24
100.00	12 18 16	1688.53	-13.06	5.81	191.69	117.13	12 46 24	1088.5	-9.32	359.02
100.00	17 42 57	610.09	21.17	304.15	206.92	111.61	17 53 7	10.1	23.92	296.43
110.00	12 49 4	1591.90	-18.77	355.33	188.52	119.11	13 15 36	991.9	-14.74	348.52
110.00	19 28 37	5567.52	27.19	259.55	209.52	111.56	21 1 25	4967.5	29.87	251.39

DIFFERENTIAL CORRECTIONS
TDE -.7560 TRA-2.4708 TC3 -.2189 BAU .5872
RDE-1.1481 RRA .3911 RC3 .0027 FAU .00966
FDE .2524 FRA .9779 FC3 -.0417 BSP 3039
BDE 1.3746 BRA 2.5016 BC3 .2189 FSP -20

MID-COURSE EXECUTION ACCURACY
SGT 1291.0 SGR 495.5 SG3 39.6
RRT -.0796 RRF .1149 RTF -.7232
SGB 1382.8 R23 -.0476 R13 .7239
SG1 1291.7 SG2 493.6 THA 177.95

ORBIT DETERMINATION ACCURACY
ST 448.1 SR 467.3 SS 332.0
CRT .5973 CRS .5283 CST .9945
LSA 648.5 MSA 329.4 SSA 17.1
EL1 578.8 EL2 290.2 ALF 47.00

LAUNCH DATE SEP 15 1965 FLIGHT TIME 86.00 ARRIVAL DATE DEC 10 1965

HELIOCENTRIC CONIC DISTANCE 171.164

RL	150.43	LAL	.00	LOL	351.95	VL	19.941	GAL	21.65	AZL	91.82	HCA	57.54	SMA	97.10	ECC	.62988	INC	1.8223	VI	29.620
RP	108.10	LAP	-1.54	LOP	49.47	VP	32.993	GAP	-38.58	AZP	90.98	TAL	165.80	TAP	223.33	RCA	35.94	APO	158.26	V2	35.056
RC	73.094	GL	-2.49	GP	-4.60	ZAL	54.84	ZAP	25.03	ETS	166.67	ZAE	131.65	ETE	180.92	ZAC	21.93	ETC	55.93	CLP	24.63

PLANETOCENTRIC CONIC

C3	184.572	VHL	13.586	DLA	-23.17	RAL	299.72	RAD	6571.0	VEL	17.490	PTH	2.97	VHP	22.449	DPA	-26.88	RAP	251.82	ECC	4.0376

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 14 36	1897.15	-10.82	22.30	193.09	116.33	11 46 13	1297.1	-7.19	15.50
90.00	16 13 1	899.84	19.45	324.75	206.18	110.99	16 28 1	299.8	22.13	317.10
100.00	12 18 6	1692.17	-13.17	6.03	191.88	117.08	12 46 18	1092.2	-9.44	359.23
100.00	17 52 12	5868.09	21.92	280.13	207.18	110.85	19 30 0	5268.1	24.55	272.33
110.00	12 50 13	1591.48	-18.75	355.30	188.78	119.12	13 16 44	991.5	-14.73	348.50
110.00	19 36 34	5541.55	27.83	257.80	209.66	110.71	21 8 56	4941.6	30.38	249.54

DIFFERENTIAL CORRECTIONS

TDE	-.5033	TRA	-2.2218	TC3	-.1741	BAU	.4295
RDE	-1.1045	RRA	.3917	RC3	.0005	FAU	.01135
FDE	.2360	FRA	.9771	FC3	-.0532	BSP	3621
BDE	1.2138	BRA	2.2561	BC3	.1741	FSP	-101

MID-COURSE EXECUTION ACCURACY

SGT	1143.5	SGR	499.3	SG3	41.6		
RRT	-.1488	RRF	.1414	RTF	-.7441		
SGB	1247.7	R23	-.0056	R13	.7447		
SG1	1146.5	SG2	492.4	THA	175.44		

ORBIT DETERMINATION ACCURACY

ST	372.5	SR	468.9	SS	324.6		
CRT	.4717	CRS	.4983	CST	.9975		
LSA	586.9	MSA	345.4	SSA	15.6		
EL1	520.7	EL2	295.8	ALF	58.10		

LAUNCH DATE SEP 15 1965 FLIGHT TIME 88.00 ARRIVAL DATE DEC 12 1965

HELIOCENTRIC CONIC DISTANCE 177.304

RL	150.43	LAL	.00	LOL	351.95	VL	20.446	GAL	20.73	AZL	91.57	HCA	60.74	SMA	98.57	ECC	.60622	INC	1.5652	VI	29.620
RP	108.06	LAP	-1.37	LOP	52.68	VP	33.315	GAP	-36.96	AZP	90.77	TAL	165.00	TAP	225.74	RCA	38.81	APO	158.32	V2	35.069
RC	70.962	GL	-2.30	GP	-4.77	ZAL	53.77	ZAP	23.72	ETS	165.65	ZAE	131.98	ETE	181.46	ZAC	21.20	ETC	60.35	CLP	23.26

PLANETOCENTRIC CONIC

C3	169.933	VHL	13.036	DLA	-22.77	RAL	300.82	RAD	6570.8	VEL	17.066	PTH	2.93	VHP	21.626	DPA	-27.37	RAP	253.81	ECC	3.7967

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 13 18	1903.57	-11.01	22.67	193.16	116.25	11 45 1	1303.6	-7.40	15.86
90.00	16 23 3	866.06	20.26	322.60	206.40	110.22	16 37 29	266.1	22.83	314.87
100.00	12 17 37	1695.97	-13.29	6.25	191.99	117.02	12 45 53	1096.0	-9.56	359.44
100.00	18 1 25	5836.93	22.66	278.12	207.35	110.04	19 38 42	5236.9	25.18	270.23
110.00	12 51 2	1591.20	-18.74	355.28	188.97	119.12	13 17 33	991.2	-14.72	348.48
110.00	19 44 29	5514.46	28.46	255.95	209.68	109.78	21 16 24	4914.5	30.89	247.59

DIFFERENTIAL CORRECTIONS

TDE	-.5283	TRA	-2.2522	TC3	-.1851	BAU	.4204
RDE	-1.0555	RRA	.3977	RC3	-.0007	FAU	.01141
FDE	.2559	FRA	1.0128	FC3	-.0581	BSP	3611
BDE	1.1803	BRA	2.2871	BC3	.1651	FSP	-107

MID-COURSE EXECUTION ACCURACY

SGT	1199.7	SGR	501.2	SG3	44.8		
RRT	-.1579	RRF	.1525	RTF	-.7578		
SGB	1300.2	R23	-.0086	R13	.7585		
SG1	1202.9	SG2	493.6	THA	175.46		

ORBIT DETERMINATION ACCURACY

ST	397.3	SR	467.4	SS	342.8		
CRT	.4814	CRS	.5126	CST	.9975		
LSA	609.4	MSA	349.6	SSA	15.8		
EL1	531.6	EL2	306.2	ALF	54.36		

LAUNCH DATE SEP 15 1965 FLIGHT TIME 90.00 ARRIVAL DATE DEC 14 1965

HELIOCENTRIC CONIC DISTANCE 183.523

RL	150.43	LAL	.00	LOL	351.95	VL	20.921	GAL	19.86	AZL	91.32	HCA	63.95	SMA	100.03	ECC	.58311	INC	1.3237	VI	29.620
RP	108.02	LAP	-1.19	LOP	55.89	VP	33.622	GAP	-35.41	AZP	90.58	TAL	164.23	TAP	228.17	RCA	41.70	APO	158.35	V2	35.082
RC	68.856	GL	-2.08	GP	-4.95	ZAL	52.74	ZAP	22.42	ETS	164.48	ZAE	132.38	ETE	182.06	ZAC	20.62	ETC	65.12	CLP	21.90

PLANETOCENTRIC CONIC

C3	156.472	VHL	12.509	DLA	-22.35	RAL	301.86	RAD	6570.7	VEL	16.667	PTH	2.89	VHP	20.828	DPA	-27.85	RAP	255.84	ECC	3.5751

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 11 41	1909.79	-11.20	23.03	193.15	116.18	11 43 31	1309.8	-7.59	16.21
90.00	16 32 56	831.29	21.06	320.37	206.50	109.38	16 46 47	231.3	23.51	312.55
100.00	12 16 47	1699.67	-13.41	6.46	192.02	116.97	12 45 7	1099.7	-9.68	359.65
100.00	18 10 31	5804.69	23.39	276.00	207.38	109.16	19 47 16	5204.7	25.79	268.03
110.00	12 51 30	1590.86	-18.73	355.26	189.06	119.13	13 18 1	990.9	-14.71	348.46
110.00	19 52 18	5486.26	29.10	254.01	209.57	108.78	21 23 44	4886.3	31.38	245.54

DIFFERENTIAL CORRECTIONS

TDE	-.5465	TRA	-2.2766	TC3	-.1949	BAU	.4078
RDE	-1.0069	RRA	.4028	RC3	-.0023	FAU	.01153
FDE	.2758	FRA	1.0490	FC3	-.0638	BSP	3748
BDE	1.1456	BRA	2.3119	BC3	.1950	FSP	-116

MID-COURSE EXECUTION ACCURACY

SGT	1253.7	SGR	502.5	SG3	48.2		
RRT	-.1694	RRF	.1650	RTF	-.7713		
SGB	1350.6	R23	-.0105	R13	.7720		
SG1	1257.1	SG2	493.9	THA	175.40		

ORBIT DETERMINATION ACCURACY

ST	421.0	SR	465.1	SS	361.1		
CRT	.4862	CRS	.5243	CST	.9973		
LSA	631.8	MSA	352.9	SSA	16.0		
EL1	542.2	EL2	315.6	ALF	50.79		

LAUNCH DATE SEP 15 1965 FLIGHT TIME 92.00 ARRIVAL DATE DEC 16 1965

HELIOCENTRIC CONIC DISTANCE 189.817

RL	150.43	LAL	.00	LOL	351.95	VL	21.368	GAL	19.02	AZL	91.09	HCA	67.16	SMA	101.47	ECC	.56061	INC	1.0949	VI	29.620
RP	107.98	LAP	-1.01	LOP	59.10	VP	33.915	GAP	-33.92	AZP	90.43	TAL	163.47	TAP	230.63	RCA	44.59	APO	158.36	V2	35.095
RC	66.778	GL	-1.84	GP	-5.15	ZAL	51.75	ZAP	21.15	ETS	163.13	ZAE	132.87	ETE	182.73	ZAC	20.21	ETC	70.18	CLP	20.55

PLANETOCENTRIC CONIC

C3	144.095	VHL	12.004	DLA	-21.91	RAL	302.84	RAD	6570.6	VEL	16.292	PTH	2.85	VHP	20.053	DPA	-28.33	RAP	257.88	ECC	3.3714

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 9 46	1915.86	-11.38	23.39	193.04	116.10	11 41 42	1315.9	-7.78	16.56
90.00	16 42 40	795.52	21.85	318.04	206.47	108.47	16 55 56	195.5	24.17	310.14
100.00	12 15 38	1703.31	-13.52	6.67	191.95	116.92	12 44 1	1103.3	-9.80	359.86
100.00	18 19 30	5771.35	24.12	273.79	207.29	108.21	19 55 41	5171.3	26.38	265.73
110.00	12 51 37	1590.47	-18.72	355.24	189.07	119.14	13 18 8	990.5	-14.69	348.44
110.00	20 0 0	5456.94	29.72	251.95	209.32	107.72	21 30 57	4856.9	31.85	243.39

DIFFERENTIAL CORRECTIONS

TDE	-.5633	TRA	-2.3000	TC3	-.2049	BAU	.3948
RDE	-.9586	RRA	.4071	RC3	-.0041	FAU	.01167
FDE	.2964	FRA	1.0865	FC3	-.0701	BSP	3896
BDE	1.1118	BRA	2.3358	BC3	.2049	FSP	-126

MID-COURSE EXECUTION ACCURACY

SGT	1309.3	SGR	503.3	SG3	51.9		
RRT	-.1820	RRF	.1787	RTF	-.7841		
SGB	1402.7	R23	-.0125	R13	.7848		
SG1	1313.0	SG2	493.5	THA	175.34		

ORBIT DETERMINATION ACCURACY

ST	445.5	SR	461.8	SS	380.2		
CRT	.4894	CRS	.5346	CST	.9970		
LSA	655.7	MSA	355.2	SSA	16.1		
EL1	554.0	EL2	323.9	ALF	47.10		

LAUNCH DATE SEP 15 1965 FLIGHT TIME 94.00 ARRIVAL DATE DEC 18 1965

HELIOCENTRIC CONIC DISTANCE 196.179

RL	150.43	LAL	.00	LOL	351.95	VL	21.789	GAL	18.22	AZL	90.88	HCA	70.37	SMA	102.90	ECC	.53875	INC	.8763	V1	29.620
RP	107.94	LAP	-.83	LOP	62.31	VP	34.195	GAP	-32.49	AZP	90.29	TAL	162.74	TAP	233.11	RCA	47.46	APO	158.34	V2	35.108
RC	64.732	GL	-1.57	GP	-5.37	ZAL	50.80	ZAP	19.91	ETS	161.58	ZAE	133.43	ETE	183.47	ZAC	19.97	ETC	75.47	CLP	19.20

PLANETOCENTRIC CONIC

C3 132.715 VHL 11.520 DLA -21.44 RAL 303.76 RAD 6570.4 VEL 15.939 PTH 2.82 VHP 19.301 DPA -28.79 RAP 259.96 ECC 3.1842

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 7 31	1921.84	-11.56	23.74	192.85	116.03	11 39 33	1321.8	-7.97	16.90
90.00	16 52 17	758.70	22.63	315.62	206.30	107.50	17 4 55	158.7	24.81	307.63
100.00	12 14 7	1706.92	-13.63	6.88	191.80	116.86	12 42 34	1106.9	-9.92	.06
100.00	18 28 22	5736.89	24.83	271.48	207.05	107.20	20 3 59	5136.9	26.95	263.32
110.00	12 51 23	1590.10	-18.71	355.22	188.99	119.15	13 17 53	990.1	-14.68	348.42
110.00	20 7 35	5426.48	30.33	249.79	208.94	106.57	21 38 2	4826.5	32.30	241.13

DIFFERENTIAL CORRECTIONS

TDE	-.5787	TRA	-2.3225	TC3	-.2147	BAU	.3811				
RDE	-.9106	RRA	.4108	RC3	-.0063	FAU	.01184				
FDE	.3176	FRA	1.1256	FC3	-.0772	BSP	4059				
BDE	1.0790	BRA	2.3585	BC3	.2148	FSP	-136				

MID-COURSE EXECUTION ACCURACY

SGT	1366.6	SGR	503.5	SG3	55.9						
RRT	-.1959	RRF	.1936	RTF	-.7963						
SGB	1456.4	R23	-.0147	R13	.7971						
SG1	1370.7	SG2	492.3	THA	175.26						

ORBIT DETERMINATION ACCURACY

ST	470.8	SR	457.7	SS	400.0						
CRT	.4912	CRS	.5435	CST	.9967						
LSA	681.1	MSA	356.4	SSA	16.3						
EL1	567.1	EL2	331.0	ALF	43.35						

LAUNCH DATE SEP 15 1965 FLIGHT TIME 96.00 ARRIVAL DATE DEC 20 1965

HELIOCENTRIC CONIC DISTANCE 202.605

RL	150.43	LAL	.00	LOL	351.95	VL	22.185	GAL	17.46	AZL	90.67	HCA	73.58	SMA	104.31	ECC	.31756	INC	.6664	V1	29.620
RP	107.90	LAP	-.64	LOP	63.53	VP	34.461	GAP	-31.11	AZP	90.19	TAL	162.04	TAP	235.62	RCA	50.32	APO	158.30	V2	35.120
RC	62.721	GL	-1.28	GP	-5.60	ZAL	49.90	ZAP	18.70	ETS	159.77	ZAE	134.08	ETE	184.30	ZAC	19.93	ETC	80.87	CLP	17.87

PLANETOCENTRIC CONIC

C3 122.251 VHL 11.057 DLA -20.95 RAL 304.62 RAD 6570.3 VEL 15.607 PTH 2.78 VHP 18.571 DPA -29.26 RAP 262.06 ECC 3.0119

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 4 56	1927.80	-11.74	24.08	192.58	115.96	11 37 4	1327.8	-8.15	17.24
90.00	17 1 45	720.80	23.38	313.09	206.00	106.45	17 13 46	120.8	25.41	305.01
100.00	12 12 15	1710.58	-13.74	7.10	191.56	116.81	12 40 45	1110.6	-10.04	.27
100.00	18 37 8	5701.29	25.53	269.07	206.68	106.10	20 12 9	5101.3	27.49	260.81
110.00	12 50 47	1589.79	-18.70	355.20	188.82	119.15	13 17 17	989.8	-14.67	348.40
110.00	20 15 5	5394.85	30.93	247.52	208.41	105.34	21 45 0	4794.9	32.72	238.75

DIFFERENTIAL CORRECTIONS

TDE	-.5905	TRA	-2.3417	TC3	-.2237	BAU	.3658				
RDE	-.8632	RRA	.4138	RC3	-.0090	FAU	.01204				
FDE	.3394	FRA	1.1660	FC3	-.0853	BSP	4294				
BDE	1.0458	BRA	2.3780	BC3	.2238	FSP	-149				

MID-COURSE EXECUTION ACCURACY

SGT	1423.6	SGR	503.2	SG3	60.2						
RRT	-.2117	RRF	.2102	RTF	-.8081						
SGB	1509.9	R23	-.0165	R13	.8089						
SG1	1428.1	SG2	490.2	THA	175.15						

ORBIT DETERMINATION ACCURACY

ST	495.8	SR	452.6	SS	420.4						
CRT	.4904	CRS	.5507	CST	.9962						
LSA	706.9	MSA	356.8	SSA	16.4						
EL1	580.7	EL2	336.7	ALF	39.73						

LAUNCH DATE SEP 15 1965 FLIGHT TIME 98.00 ARRIVAL DATE DEC 22 1965

HELIOCENTRIC CONIC DISTANCE 209.089

RL	150.43	LAL	.00	LOL	351.95	VL	22.557	GAL	16.72	AZL	90.46	HCA	76.80	SMA	105.69	ECC	.49707	INC	.4630	V1	29.620
RP	107.87	LAP	-.45	LOP	68.75	VP	34.714	GAP	-29.79	AZP	90.11	TAL	161.36	TAP	238.16	RCA	53.16	APO	158.23	V2	35.132
RC	60.751	GL	-.94	GP	-5.86	ZAL	49.05	ZAP	17.52	ETS	157.65	ZAE	134.82	ETE	185.23	ZAC	20.09	ETC	86.28	CLP	16.54

PLANETOCENTRIC CONIC

C3 112.634 VHL 10.613 DLA -20.43 RAL 305.43 RAD 6570.1 VEL 15.296 PTH 2.74 VHP 17.862 DPA -29.72 RAP 264.18 ECC 2.8537

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 2 0	1933.84	-11.92	24.44	192.22	115.88	11 34 14	1333.8	-8.34	17.58
90.00	17 11 7	681.79	24.11	310.47	205.55	105.32	17 22 29	81.8	25.98	302.30
100.00	12 10 0	1714.37	-13.86	7.32	191.23	116.75	12 38 35	1114.4	-10.16	.48
100.00	18 45 48	5664.52	26.20	266.54	206.18	104.94	20 20 13	5064.5	27.99	258.20
110.00	12 49 49	1589.62	-18.69	355.19	188.56	119.16	13 16 18	989.6	-14.66	348.39
110.00	20 22 29	5362.05	31.49	245.13	207.74	104.04	21 51 51	4762.0	33.10	236.27

DIFFERENTIAL CORRECTIONS

TDE	-.6016	TRA	-2.3605	TC3	-.2324	BAU	.3504				
RDE	-.8162	RRA	.4165	RC3	-.0122	FAU	.01227				
FDE	.3621	FRA	1.2084	FC3	-.0943	BSP	4526				
BDE	1.0140	BRA	2.3969	BC3	.2327	FSP	-162				

MID-COURSE EXECUTION ACCURACY

SGT	1482.6	SGR	502.4	SG3	64.8						
RRT	-.2288	RRF	.2283	RTF	-.8193						
SGB	1565.4	R23	-.0185	R13	.8202						
SG1	1487.6	SG2	487.4	THA	175.03						

ORBIT DETERMINATION ACCURACY

ST	521.7	SR	446.5	SS	441.6						
CRT	4884	CRS	.5566	CST	.9956						
LSA	734.4	MSA	356.2	SSA	16.5						
EL1	596.0	EL2	341.0	ALF	36.13						

LAUNCH DATE SEP 15 1965 FLIGHT TIME 100.00 ARRIVAL DATE DEC 24 1965

HELIOCENTRIC CONIC DISTANCE 215.626

RL	150.43	LAL	.00	LOL	351.95	VL	22.907	GAL	16.01	AZL	90.27	HCA	80.02	SMA	107.05	ECC	.47729	INC	.2647	V1	29.620
RP	107.83	LAP	-.26	LOP	71.97	VP	34.954	GAP	-28.51	AZP	90.05	TAL	160.70	TAP	240.73	RCA	55.96	APO	158.15	V2	35.144
RC	58.824	GL	-.57	GP	-6.14	ZAL	48.23	ZAP	16.38	ETS	155.16	ZAE	135.65	ETE	186.28	ZAC	20.45	ETC	91.58	CLP	15.21

PLANETOCENTRIC CONIC

C3 103.798 VHL 10.188 DLA -19.88 RAL 306.17 RAD 6570.0 VEL 15.005 PTH 2.70 VHP 17.175 DPA -30.17 RAP 266.32 ECC 2.7082

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 58 41	1940.06	-12.10	24.80	191.78	115.80	11 31 1	1340.1	-8.53	17.94
90.00	17 20 24	641.62	24.80	307.73	204.97	104.12	17 31 5	41.6	26.50	299.47
100.00	12 7 22	1718.40	-13.98	7.55	190.83	116.69	12 36 1	1118.4	-10.29	.71
100.00	18 54 24	5626.55	26.84	263.90	205.53	103.68	20 28 10	5026.5	28.45	255.47
110.00	12 48 27	1589.68	-18.69	355.20	188.23	119.15	13 14 57	989.7	-14.66	348.40
110.00	20 29 49	5328.03	32.03	242.62	206.93	102.64	21 58 37	4728.0	33.43	233.67

DIFFERENTIAL CORRECTIONS

TDE	-.6142	TRA	-2.3808	TC3	-.2417	BAU	.3362				
RDE	-.7697	RRA	.4190	RC3	-.0158	FAU	.01251				
FDE	.3863	FRA	1.2531	FC3	-.1044	BSP	4702				
BDE	.9847	BRA	2.4174	BC3	.2422	FSP	-176				

MID-COURSE EXECUTION ACCURACY

SGT	1545.6	SGR	501.2	SG3	69.9						
RRT	-.2470	RRF	.2481	RTF	-.8298						
SGB	1624.9	R23	-.0215	R13	.8307						
SG1	1551.1	SG2	484.0	THA	174.93						

ORBIT DETERMINATION ACCURACY

ST	549.5	SR	439.4	SS	464.1						
CRT	.4864	CRS	.5615	CST	.9950						
LSA	764.5	MSA	354.4	SSA	16.6						
EL1	614.0	EL2	343.6	ALF	32.56						

LAUNCH DATE SEP 15 1965 FLIGHT TIME 102.00 ARRIVAL DATE DEC 26 1965

HELIOCENTRIC CONIC DISTANCE 222.211

RL	150.43	LAL	.00	LOL	351.95	VL	23.236	GAL	15.34	AZL	90.07	HCA	83.24	SMA	108.38	ECC	.45823	INC	.0696	VI	29.620
RP	107.80	LAP	-.07	LOP	75.19	VP	35.182	GAP	-27.27	AZP	90.01	TAL	160.08	TAP	243.33	RCA	58.72	APO	158.04	V2	35.155
RC	56.947	GL	-.16	GP	-6.46	ZAL	47.46	ZAP	15.29	ETS	152.22	ZAE	136.58	ETE	187.46	ZAC	21.00	ETC	96.67	CLP	13.89

PLANETOCENTRIC CONIC

C3	95.682	VHL	9.782	DLA	-19.30	RAL	306.86	RAD	6569.9	VEL	14.732	PTH	2.67	VHP	16.508	DPA	-30.63	RAP	268.48	ECC	2.5747

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 54 59	1946.60	-12.29	25.18	191.26	115.71	11 27 25	1346.6	-8.74	18.31
90.00	17 29 35	600.24	25.46	304.88	204.25	102.84	17 39 36	.2	26.97	296.54
100.00	12 4 20	1722.78	-14.12	7.81	190.34	116.63	12 33 3	1122.8	-10.43	.96
100.00	19 2 55	5587.33	27.44	261.14	204.75	102.35	20 36 2	4987.3	28.86	252.63
110.00	12 46 41	1590.09	-18.71	355.22	187.81	119.15	13 13 11	990.1	-14.68	348.42
110.00	20 37 4	5292.79	32.52	239.99	205.97	101.16	22 5 17	4692.8	33.72	230.96

DIFFERENTIAL CORRECTIONS

TDE	-.6235	TRA	-2.3978	TC3	-.2498	BAU	.3205												
RDE	-.7238	RRA	.4213	RC3	-.0201	FAU	.01280												
FDE	.4114	FRA	1.2999	FC3	-.1158	BSP	4938												
BDE	.9554	BRA	2.4345	BC3	.2506	FSP	-192												

MID-COURSE EXECUTION ACCURACY

SGT	1608.3	SGR	499.7	SG3	75.3														
RRT	-.2676	RRF	.2701	RTF	-.8399														
SGB	1684.1	R23	-.0243	R13	.8409														
SGI	1614.4	SG2	479.6	THA	174.79														

ORBIT DETERMINATION ACCURACY

ST	577.0	SR	431.2	SS	487.2														
CRT	.4818	CRS	.5647	CST	.9942														
LSA	795.0	MSA	351.9	SSA	16.7														
EL1	632.5	EL2	344.7	ALF	29.24														

LAUNCH DATE SEP 15 1965 FLIGHT TIME 104.00 ARRIVAL DATE DEC 28 1965

HELIOCENTRIC CONIC DISTANCE 228.840

RL	150.43	LAL	.00	LOL	351.95	VL	23.545	GAL	14.69	AZL	89.88	HCA	86.47	SMA	109.67	ECC	.43991	INC	.1207	VI	29.620
RP	107.76	LAP	.12	LOP	78.41	VP	35.398	GAP	-26.08	AZP	89.99	TAL	159.49	TAP	245.96	RCA	61.43	APO	157.92	V2	35.166
RC	55.125	GL	.29	GP	-6.80	ZAL	46.74	ZAP	14.26	ETS	148.72	ZAE	137.59	ETE	188.80	ZAC	21.74	ETC	101.45	CLP	12.57

PLANETOCENTRIC CONIC

C3	88.234	VHL	9.393	DLA	-18.68	RAL	307.49	RAD	6569.7	VEL	14.477	PTH	2.63	VHP	15.862	DPA	-31.08	RAP	270.66	ECC	2.4521

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 50 50	1953.60	-12.50	25.59	190.66	115.62	11 23 24	1353.6	-8.95	18.71
90.00	17 38 44	5845.65	26.07	279.81	203.39	101.47	19 16 9	5245.7	27.39	271.39
100.00	12 0 51	1727.66	-14.26	8.10	189.77	116.55	12 29 39	1127.7	-10.59	1.24
100.00	19 11 24	5546.83	28.00	258.26	203.82	100.93	20 43 51	4946.8	29.22	249.67
110.00	12 44 29	1590.98	-18.74	355.27	187.31	119.13	13 11 0	991.0	-14.71	348.47
110.00	20 44 16	5256.28	32.97	237.23	204.86	99.58	22 11 52	4656.3	33.94	228.13

DIFFERENTIAL CORRECTIONS

TDE	-.6321	TRA	-2.4142	TC3	-.2572	BAU	.3049												
RDE	-.6785	RRA	.4236	RC3	-.0251	FAU	.01312												
FDE	.4378	FRA	1.3493	FC3	-.1287	BSP	5172												
BDE	.9273	BRA	2.4511	BC3	.2585	FSP	-209												

MID-COURSE EXECUTION ACCURACY

SGT	1672.9	SGR	497.9	SG3	81.3														
RRT	-.2902	RRF	.2944	RTF	-.8495														
SGB	1745.4	R23	-.0275	R13	.8506														
SGI	1679.7	SG2	474.5	THA	174.63														

ORBIT DETERMINATION ACCURACY

ST	605.3	SR	421.9	SS	511.5														
CRT	.4755	CRS	.5663	CST	.9934														
LSA	827.1	MSA	348.5	SSA	16.8														
EL1	652.6	EL2	344.2	ALF	26.10														

LAUNCH DATE SEP 15 1965 FLIGHT TIME 106.00 ARRIVAL DATE DEC 30 1965

HELIOCENTRIC CONIC DISTANCE 235.507

RL	150.43	LAL	.00	LOL	351.95	VL	23.835	GAL	14.07	AZL	89.69	HCA	89.69	SMA	110.93	ECC	.42232	INC	.3117	VI	29.620
RP	107.73	LAP	.31	LOP	81.64	VP	35.602	GAP	-24.93	AZP	90.00	TAL	158.93	TAP	248.62	RCA	64.08	APO	157.78	V2	35.176
RC	53.365	GL	.80	GP	-7.17	ZAL	46.06	ZAP	13.31	ETS	144.57	ZAE	138.70	ETE	190.33	ZAC	22.66	ETC	105.88	CLP	11.24

PLANETOCENTRIC CONIC

C3	81.404	VHL	9.022	DLA	-18.03	RAL	308.05	RAD	6569.6	VEL	14.239	PTH	2.59	VHP	15.235	DPA	-31.55	RAP	272.85	ECC	2.3397

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 46 15	1961.24	-12.73	26.04	189.99	115.51	11 18 56	1361.2	-9.19	19.15
90.00	17 47 50	5801.71	26.63	276.71	202.39	100.01	19 24 31	5201.7	27.74	268.22
100.00	11 56 55	1733.19	-14.43	8.42	189.14	116.46	12 25 49	1133.2	-10.76	1.55
100.00	19 19 50	5504.99	28.50	255.25	202.76	99.43	20 51 35	4905.0	29.51	246.59
110.00	12 41 50	1592.49	-18.79	355.36	186.74	119.10	13 8 22	992.5	-14.76	348.55
110.00	20 51 25	5218.47	33.36	234.35	203.62	97.92	22 18 24	4618.5	34.10	225.19

DIFFERENTIAL CORRECTIONS

TDE	-.6396	TRA	-2.4292	TC3	-.2638	BAU	.2891												
RDE	-.6337	RRA	.4262	RC3	-.0308	FAU	.01347												
FDE	.4657	FRA	1.4015	FC3	-.1432	BSP	5420												
BDE	.9003	BRA	2.4663	BC3	.2656	FSP	-228												

MID-COURSE EXECUTION ACCURACY

SGT	1738.8	SGR	496.0	SG3	87.7														
RRT	-.3152	RRF	.3214	RTF	-.8586														
SGB	1808.1	R23	-.0311	R13	.8597														
SGI	1746.3	SG2	468.7	THA	174.46														

ORBIT DETERMINATION ACCURACY

ST	634.1	SR	411.4	SS	536.9														
CRT	.4674	CRS	.5663	CST	.9924														
LSA	860.6	MSA	344.3	SSA	16.9														
EL1	673.9	EL2	342.2	ALF	23.16														

LAUNCH DATE SEP 15 1965 FLIGHT TIME 108.00 ARRIVAL DATE JAN 1 1966

HELIOCENTRIC CONIC DISTANCE 242.209

RL	150.43	LAL	.00	LOL	351.95	VL	24.108	GAL	13.47	AZL	89.50	HCA	92.92	SMA	112.16	ECC	.40546	INC	.5026	VI	29.620
RP	107.70	LAP	.50	LOP	84.87	VP	35.794	GAP	-23.82	AZP	90.03	TAL	158.40	TAP	251.33	RCA	66.68	APO	157.63	V2	35.186
RC	51.675	GL	1.36	GP	-7.59	ZAL	45.44	ZAP	12.46	ETS	139.67	ZAE	139.89	ETE	192.08	ZAC	23.73	ETC	109.92	CLP	9.92

PLANETOCENTRIC CONIC

C3	75.145	VHL	8.669	DLA	-17.33	RAL	308.56	RAD	6569.5	VEL	14.018	PTH	2.56	VHP	14.628	DPA	-32.02	RAP	275.06	ECC	2.2367

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 41 11	1969.72	-12.97	26.54	189.25	115.39	11 14 0	1369.7	-9.45	19.64
90.00	17 56 55	5756.40	27.12	273.49	201.26	98.47	19 32 52	5156.4	28.01	264.94
100.00	11 52 30	1739.57	-14.63	8.80	188.43	116.36	12 21 30	1139.6	-10.97	1.92
100.00	19 28 17	5461.78	28.94	252.11	201.55	97.83	20 59 19	4861.8	29.72	243.40
110.00	12 38 43	1594.80	-18.86	355.50	186.11	119.05	13 5 18	994.8	-14.84	348.68
110.00	20 58 34	5179.32	33.69	231.34	202.24	96.17	22 24 53	4579.3	34.18	222.13

DIFFERENTIAL CORRECTIONS

TDE	-.6464	TRA	-2.4433	TC3	-.2696	BAU	.2735												
RDE	-.5893	RRA	.4293	RC3	-.0375	FAU	.01385												
FDE	.4954	FRA	1.4569	FC3	-.1596	BSP	5666												
BDE	.8747	BRA	2.4808	BC3	.2722	FSP	-248												

MID-COURSE EXECUTION ACCURACY

SGT	1806.4	SGR	494.3	SG3	94.7														
RRT	-.3428	RRF	.3512	RTF	-.8673														
SGB	1872.8	R23	-.0352	R13	.8684														
SGI	1814.8	SG2	462.1	THA	174.27														

ORBIT DETERMINATION ACCURACY

ST	663.5	SR	399.6	SS	563.6														
CRT	.4570	CRS	.5642	CST	.9914														
LSA	895.7	MSA	339.2	SSA	17.0														
EL1	696.7	EL2	338.5	ALF	20.41														

LAUNCH DATE SEP 15 1965 FLIGHT TIME 110.00 ARRIVAL DATE JAN 3 1966

HELIOCENTRIC CONIC DISTANCE 248.940

RL	150.43	LAL	.00	LOL	351.95	VL	24.363	GAL	12.90	AZL	89.31	HCA	96.15	SMA	113.34	ECC	.38933	INC	.6945	VI	29.620
RP	107.67	LAP	.69	LOP	88.10	VP	35.976	GAP	-22.74	AZP	90.07	TAL	157.91	TAP	254.06	RCA	69.21	APO	157.47	V2	35.196
RC	50.062	GL	1.98	GP	-8.05	ZAL	44.86	ZAP	11.75	ETS	133.91	ZAE	141.17	ETE	194.10	ZAC	24.94	ETC	113.56	CLP	8.58

PLANETOCENTRIC CONIC

C3 69.417 VHL 8.332 DLA -16.58 RAL 309.00 RAD 6569.3 VEL 13.812 PTH 2.52 VHP 14.040 DPA -32.51 RAP 277.28 ECC 2.1424

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 35 35	1979.24	-13.25	27.10	188.45	115.26	11 8 34	1379.2	-9.74	20.18
90.00	18 6 2	5709.65	27.55	270.13	199.99	96.84	19 41 11	5109.7	28.21	261.53
100.00	11 47 33	1747.01	-14.85	9.23	187.66	116.24	12 16 40	1147.0	-11.20	2.34
100.00	19 36 44	5417.12	29.31	248.85	200.22	96.15	21 7 1	4817.1	29.85	240.08
110.00	12 35 5	1598.10	-18.97	355.69	185.41	118.98	13 1 43	998.1	-14.96	348.87
110.00	21 5 42	5138.79	33.94	228.21	200.72	94.33	22 31 21	4538.8	34.17	218.97

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY				ORBIT DETERMINATION ACCURACY			
TDE	-.6523	TRA	-2.4560	TC3	-.2741	BAU	.2578	SGT	1874.9	SGR	492.8	SG3	102.3	ST	693.5	SR	386.5	SS	591.7
RDE	-.5455	RRA	.4330	RC3	-.0451	FAU	.01428	RRT	-.3733	RRF	.3842	RTF	-.8754	CRT	.4441	CRS	.5598	CST	.9903
FDE	.5271	FRA	1.5157	FC3	-.1781	BSP	5919	SGB	1938.6	R23	-.0399	R13	.8767	LSA	932.2	MSA	333.4	SSA	17.1
BDE	.8503	BRA	2.4939	BC3	.2777	FSP	-271	SG1	1884.5	SG2	454.9	THA	174.05	EL1	720.6	EL2	333.3	ALF	17.84

LAUNCH DATE SEP 15 1965 FLIGHT TIME 112.00 ARRIVAL DATE JAN 5 1966

HELIOCENTRIC CONIC DISTANCE 255.697

RL	150.43	LAL	.00	LOL	351.95	VL	24.602	GAL	12.35	AZL	89.11	HCA	99.38	SMA	114.49	ECC	.37392	INC	.8889	VI	29.620
RP	107.64	LAP	.88	LOP	91.33	VP	36.147	GAP	-21.70	AZP	90.15	TAL	157.45	TAP	256.84	RCA	71.68	APO	157.30	V2	35.204
RC	48.537	GL	2.67	GP	-8.57	ZAL	44.34	ZAP	11.20	ETS	127.28	ZAE	142.52	ETE	196.42	ZAC	26.29	ETC	116.80	CLP	7.24

PLANETOCENTRIC CONIC

C3 64.182 VHL 8.011 DLA -15.78 RAL 309.37 RAD 6569.2 VEL 13.621 PTH 2.49 VHP 13.471 DPA -33.01 RAP 279.52 ECC 2.0563

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 29 25	1990.06	-13.56	27.74	187.59	115.10	11 2 35	1390.1	-10.07	20.81
90.00	18 15 11	5682.39	27.89	266.64	198.59	95.12	19 49 32	5061.4	28.31	258.00
100.00	11 42 3	1755.73	-15.11	9.75	186.83	116.10	12 11 18	1155.7	-11.48	2.84
100.00	19 45 15	5370.95	29.60	245.44	198.76	94.38	21 14 45	4770.9	29.89	236.65
110.00	12 30 55	1602.63	-19.12	355.96	184.65	118.89	12 57 38	1002.6	-15.12	349.12
110.00	21 12 51	5096.82	34.11	224.94	199.07	92.40	22 37 48	4496.8	34.07	215.69

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY				ORBIT DETERMINATION ACCURACY			
TDE	-.6577	TRA	-2.4680	TC3	-.2772	BAU	.2423	SGT	1944.9	SGR	492.1	SG3	110.6	ST	724.0	SR	372.0	SS	621.3
RDE	-.5020	RRA	.4377	RC3	-.0538	FAU	.01475	RRT	-.4069	RRF	.4207	RTF	-.8832	CRT	.4277	CRS	.5524	CST	.9890
FDE	.5611	FRA	1.5785	FC3	-.1989	BSP	6172	SGB	2006.2	R23	-.0451	R13	.8845	LSA	970.4	MSA	326.7	SSA	17.2
BDE	.8273	BRA	2.5065	BC3	.2824	FSP	-295	SG1	1955.7	SG2	447.0	THA	173.80	EL1	745.6	EL2	326.5	ALF	15.42

LAUNCH DATE SEP 15 1965 FLIGHT TIME 114.00 ARRIVAL DATE JAN 7 1966

HELIOCENTRIC CONIC DISTANCE 262.476

RL	150.43	LAL	.00	LOL	351.95	VL	24.826	GAL	11.83	AZL	88.91	HCA	102.62	SMA	115.59	ECC	.35924	INC	1.0870	VI	29.620
RP	107.62	LAP	1.06	LOP	94.57	VP	36.308	GAP	-20.70	AZP	90.24	TAL	157.03	TAP	259.65	RCA	74.07	APO	157.11	V2	35.213
RC	47.108	GL	3.43	GP	-9.14	ZAL	43.87	ZAP	10.86	ETS	119.87	ZAE	143.92	ETE	199.12	ZAC	27.75	ETC	119.67	CLP	5.89

PLANETOCENTRIC CONIC

C3 59.406 VHL 7.708 DLA -14.91 RAL 309.68 RAD 6569.1 VEL 13.445 PTH 2.46 VHP 12.921 DPA -33.55 RAP 281.76 ECC 1.9777

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 22 39	2002.46	-13.92	28.48	186.68	114.91	10 56 1	1402.5	-10.45	21.52
90.00	18 24 25	5611.51	28.14	263.02	197.07	93.32	19 57 57	5011.5	28.30	254.36
100.00	11 35 56	1766.02	-15.42	10.36	185.95	115.93	12 5 22	1166.0	-11.81	3.43
100.00	19 53 49	5323.19	29.80	241.91	197.17	92.53	21 22 33	4723.2	29.83	233.10
110.00	12 26 11	1608.61	-19.32	356.31	183.84	118.77	12 52 59	1008.6	-15.33	349.46
110.00	21 20 4	5053.35	34.18	221.55	197.30	90.39	22 44 17	4453.3	33.86	212.32

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY				ORBIT DETERMINATION ACCURACY			
TDE	-.6628	TRA	-2.4790	TC3	-.2791	BAU	.2273	SGT	2016.1	SGR	492.4	SG3	119.6	ST	755.2	SR	356.1	SS	652.8
RDE	-.4587	RRA	.4436	RC3	-.0638	FAU	.01525	RRT	-.4437	RRF	.4607	RTF	-.8904	CRT	.4072	CRS	.5412	CST	.9878
FDE	.5980	FRA	1.6456	FC3	-.2222	BSP	6424	SGB	2075.4	R23	-.0513	R13	.8920	LSA	1010.4	MSA	319.3	SSA	17.2
BDE	.8061	BRA	2.5184	BC3	.2863	FSP	-322	SG1	2028.5	SG2	438.5	THA	173.51	EL1	771.9	EL2	318.1	ALF	13.14

LAUNCH DATE SEP 15 1965 FLIGHT TIME 116.00 ARRIVAL DATE JAN 9 1966

HELIOCENTRIC CONIC DISTANCE 269.273

RL	150.43	LAL	.00	LOL	351.95	VL	25.036	GAL	11.33	AZL	88.71	HCA	105.85	SMA	116.65	ECC	.34525	INC	1.2904	VI	29.620
RP	107.60	LAP	1.24	LOP	97.80	VP	36.459	GAP	-19.72	AZP	90.35	TAL	156.65	TAP	262.50	RCA	76.38	APO	156.93	V2	35.220
RC	45.785	GL	4.27	GP	-9.77	ZAL	43.47	ZAP	10.76	ETS	111.91	ZAE	145.34	ETE	202.26	ZAC	29.31	ETC	122.19	CLP	4.53

PLANETOCENTRIC CONIC

C3 55.056 VHL 7.420 DLA -13.98 RAL 309.92 RAD 6569.0 VEL 13.282 PTH 2.43 VHP 12.390 DPA -34.12 RAP 284.02 ECC 1.9061

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 15 13	2016.75	-14.33	29.33	185.73	114.69	10 48 49	1416.7	-10.88	22.35
90.00	18 33 46	5559.93	28.28	259.25	195.44	91.43	20 6 26	4959.9	28.18	250.59
100.00	11 29 9	1778.17	-15.78	11.08	185.02	115.72	11 58 48	1178.2	-12.19	4.13
100.00	20 2 31	5273.74	29.89	238.23	195.47	90.60	21 30 25	4673.7	29.65	229.44
110.00	12 20 49	1616.37	-19.57	356.77	182.98	118.60	12 47 45	1016.4	-15.60	349.90
110.00	21 27 21	5008.31	34.15	218.03	195.42	88.31	22 50 49	4408.3	33.54	208.84

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY				ORBIT DETERMINATION ACCURACY			
TDE	-.6677	TRA	-2.4889	TC3	-.2789	BAU	.2126	SGT	2087.9	SGR	494.3	SG3	129.5	ST	786.7	SR	338.5	SS	686.1
RDE	-.4156	RRA	.4512	RC3	-.0752	FAU	.01580	RRT	-.4839	RRF	.5044	RTF	-.8973	CRT	.3811	CRS	.5248	CST	.9864
FDE	.6378	FRA	1.7173	FC3	-.2484	BSP	6677	SGB	2145.6	R23	-.0583	R13	.8990	LSA	1052.2	MSA	311.2	SSA	17.3
BDE	.7864	BRA	2.5294	BC3	.2889	FSP	-351	SG1	2102.2	SG2	429.6	THA	173.18	EL1	799.1	EL2	308.1	ALF	10.96

LAUNCH DATE SEP 15 1965 FLIGHT TIME 118.00 ARRIVAL DATE JAN 11 1966

HELIOCENTRIC CONIC DISTANCE 276.084

RL 150.43 LAL .00 LOL 351.95 VL 25.231 GAL 10.85 AZL 88.50 HCA 109.09 SMA 117.67 ECC .33196 INC 1.5004 VI 29.620
RP 107.57 LAP 1.42 LOP 101.04 VP 36.600 GAP -18.78 AZP 90.49 TAL 156.30 TAP 265.39 RCA 78.61 APO 156.73 V2 35.227
RC 44.580 GL 5.21 GP -10.48 ZAL 43.13 ZAP 10.94 ETS 103.77 ZAE 146.75 ETE 205.91 ZAC 30.97 ETC 124.38 CLP 3.15

PLANETOCENTRIC CONIC

C3 51.106 VHL 7.149 DLA -12.96 RAL 310.09 RAD 6568.9 VEL 13.133 PTH 2.40 VHP 11.878 DPA -34.73 RAP 286.28 ECC 1.8411

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 7 3	2033.27	-14.80	30.32	184.74	114.42	10 40 56	1433.3	-11.38	23.31
90.00	18 43 18	5506.53	28.31	255.35	193.69	89.48	20 15 4	4906.5	27.94	246.70
100.00	11 21 40	1792.52	-16.20	11.94	184.06	115.47	11 51 33	1192.5	-12.64	4.96
100.00	20 11 21	5222.51	29.86	234.43	193.66	88.59	21 38 24	4622.5	29.35	225.66
110.00	12 14 47	1626.18	-19.89	357.35	182.09	118.39	12 41 53	1026.2	-15.94	350.45
110.00	21 34 44	4961.61	33.99	214.39	193.44	86.16	22 57 26	4361.6	33.09	205.27

DIFFERENTIAL CORRECTIONS
TDE -.6720 TRA-2.4976 TC3 -.2766 BAU .1983
RDE -.3723 RRA .4608 RC3 -.0881 FAU .01639
FDE .6813 FRA 1.7942 FC3 -.2776 BSP 6933
BDE .7683 BRA 2.5398 BC3 .2903 FSP -383

MID-COURSE EXECUTION ACCURACY
SGT 2160.1 SGR 498.5 SG3 140.2
RRT -.5274 RRF .5516 RTF -.9039
SGB 2216.9 R23 -.0661 R13 .9058
SG1 2176.7 SG2 420.3 THA 172.79

ORBIT DETERMINATION ACCURACY
ST 818.5 SR 319.3 SS 721.5
CRT .3470 CRS .5014 CST .9849
LSA 1095.8 MSA 302.6 SSA 17.3
EL1 827.1 EL2 296.4 ALF 8.86

LAUNCH DATE SEP 15 1965 FLIGHT TIME 120.00 ARRIVAL DATE JAN 13 1966

HELIOCENTRIC CONIC DISTANCE 282.906

RL 150.43 LAL .00 LOL 351.95 VL 25.414 GAL 10.39 AZL 88.28 HCA 112.32 SMA 118.65 ECC .31936 INC 1.7189 VI 29.620
RP 107.55 LAP 1.59 LOP 104.28 VP 36.733 GAP -17.86 AZP 90.65 TAL 155.99 TAP 268.32 RCA 80.76 APO 156.54 V2 35.234
RC 43.503 GL 6.24 GP -11.28 ZAL 42.87 ZAP 11.42 ETS 95.88 ZAE 148.08 ETE 210.16 ZAC 32.73 ETC 126.26 CLP 1.76

PLANETOCENTRIC CONIC

C3 47.529 VHL 6.894 DLA -11.87 RAL 310.19 RAD 6568.8 VEL 12.996 PTH 2.37 VHP 11.385 DPA -35.40 RAP 288.56 ECC 1.7822

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 58 6	2052.42	-15.33	31.47	183.73	114.10	10 32 18	1452.4	-11.95	24.42
90.00	18 53 1	5451.15	28.21	251.30	191.86	87.45	20 23 53	4851.2	27.56	242.69
100.00	11 13 25	1809.45	-16.69	12.95	183.08	115.16	11 43 34	1209.4	-13.17	5.94
100.00	20 20 24	5169.36	29.71	230.48	191.77	86.52	21 46 33	4569.4	28.91	221.77
110.00	12 8 1	1638.42	-20.28	358.08	181.18	118.12	12 35 20	1038.4	-16.37	351.15
110.00	21 42 17	4913.15	33.71	210.64	191.37	83.96	23 4 10	4313.1	32.51	201.61

DIFFERENTIAL CORRECTIONS
TDE -.6771 TRA-2.5062 TC3 -.2723 BAU .1849
RDE -.3286 RRA .4729 RC3 -.1027 FAU .01703
FDE .7291 FRA 1.8768 FC3 -.3102 BSP 7187
BDE .7527 BRA 2.5505 BC3 .2910 FSP -418

MID-COURSE EXECUTION ACCURACY
SGT 2233.3 SGR 505.9 SG3 151.9
RRT -.5735 RRF .6017 RTF -.9100
SGB 2289.9 R23 -.0752 R13 .9121
SG1 2252.7 SG2 410.9 THA 172.34

ORBIT DETERMINATION ACCURACY
ST 851.2 SR 298.5 SS 759.4
CRT .3023 CRS .4679 CST .9833
LSA 1141.9 MSA 293.3 SSA 17.3
EL1 856.5 EL2 282.8 ALF 6.80

LAUNCH DATE SEP 15 1965 FLIGHT TIME 122.00 ARRIVAL DATE JAN 15 1966

HELIOCENTRIC CONIC DISTANCE 289.736

RL 150.43 LAL .00 LOL 351.95 VL 25.585 GAL 9.96 AZL 88.05 HCA 115.56 SMA 119.58 ECC .30741 INC 1.9478 VI 29.620
RP 107.54 LAP 1.76 LOP 107.52 VP 36.857 GAP -16.97 AZP 90.84 TAL 155.72 TAP 271.28 RCA 82.82 APO 156.34 V2 35.239
RC 42.563 GL 7.39 GP -12.19 ZAL 42.69 ZAP 12.19 ETS 88.64 ZAE 149.29 ETE 215.05 ZAC 34.57 ETC 127.86 CLP .34

PLANETOCENTRIC CONIC

C3 44.304 VHL 6.656 DLA -10.67 RAL 310.21 RAD 6568.7 VEL 12.871 PTH 2.34 VHP 10.911 DPA -36.15 RAP 290.86 ECC 1.7291

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 48 17	2074.65	-15.95	32.81	182.70	113.71	10 22 52	1474.7	-12.61	25.73
90.00	19 3 1	5393.65	27.97	247.11	189.93	85.36	20 32 55	4793.6	27.03	238.57
100.00	11 4 18	1829.39	-17.27	14.16	182.08	114.79	11 34 47	1229.4	-13.78	7.10
100.00	20 29 41	5114.14	29.41	226.40	189.79	84.40	21 54 55	4514.1	28.32	217.77
110.00	12 0 28	1653.50	-20.76	358.99	180.26	117.78	12 28 2	1053.5	-16.88	352.01
110.00	21 50 0	4862.80	33.28	206.77	189.23	81.71	23 11 3	4262.8	31.78	197.86

DIFFERENTIAL CORRECTIONS
TDE -.6811 TRA-2.5124 TC3 -.2651 BAU .1722
RDE -.2842 RRA .4882 RC3 -.1192 FAU .01771
FDE .7818 FRA 1.9653 FC3 -.3460 BSP 7467
BDE .7380 BRA 2.5594 BC3 .2907 FSP -456

MID-COURSE EXECUTION ACCURACY
SGT 2304.7 SGR 517.5 SG3 164.6
RRT -.6218 RRF .6538 RTF -.9158
SGB 2362.1 R23 -.0850 R13 .9182
SG1 2327.7 SG2 401.3 THA 171.81

ORBIT DETERMINATION ACCURACY
ST 883.0 SR 276.2 SS 799.8
CRT .2409 CRS .4194 CST .9816
LSA 1189.5 MSA 283.9 SSA 17.3
EL1 885.8 EL2 267.3 ALF 4.74

LAUNCH DATE SEP 15 1965 FLIGHT TIME 124.00 ARRIVAL DATE JAN 17 1966

HELIOCENTRIC CONIC DISTANCE 296.570

RL 150.43 LAL .00 LOL 351.95 VL 25.744 GAL 9.55 AZL 87.81 HCA 118.80 SMA 120.46 ECC .29612 INC 2.1896 VI 29.620
RP 107.52 LAP 1.92 LOP 110.76 VP 36.972 GAP -16.11 AZP 91.06 TAL 155.49 TAP 274.28 RCA 84.79 APO 156.13 V2 35.244
RC 41.769 GL 8.67 GP -13.20 ZAL 42.61 ZAP 13.25 ETS 82.28 ZAE 150.27 ETE 220.62 ZAC 36.50 ETC 129.21 CLP -1.10

PLANETOCENTRIC CONIC

C3 41.412 VHL 6.435 DLA -9.36 RAL 310.16 RAD 6568.6 VEL 12.758 PTH 2.32 VHP 10.458 DPA -36.98 RAP 293.17 ECC 1.6815

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 37 30	2100.46	-16.65	34.38	181.68	113.24	10 12 31	1500.5	-13.36	27.25
90.00	19 13 21	5333.82	27.56	242.78	187.94	83.23	20 42 15	4733.8	26.34	234.33
100.00	10 54 15	1852.85	-17.93	15.58	181.09	114.32	11 25 8	1252.8	-14.50	8.47
100.00	20 39 47	5056.67	28.95	222.19	187.74	82.23	22 3 34	4456.7	27.58	213.66
110.00	11 52 3	1671.86	-21.34	.10	179.33	117.36	12 19 55	1071.9	-17.51	353.07
110.00	21 57 59	4810.42	32.70	202.79	187.04	79.42	23 18 9	4210.4	30.89	194.04

DIFFERENTIAL CORRECTIONS
TDE -.6878 TRA-2.5187 TC3 -.2555 BAU .1607
RDE -.2385 RRA .5073 RC3 -.1377 FAU .01842
FDE .8403 FRA 2.0601 FC3 -.3851 BSP 7711
BDE .7279 BRA 2.5693 BC3 .2903 FSP -497

MID-COURSE EXECUTION ACCURACY
SGT 2376.7 SGR 534.8 SG3 178.4
RRT -.6704 RRF .7065 RTF -.9213
SGB 2436.1 R23 -.0964 R13 .9241
SG1 2404.3 SG2 392.3 THA 171.19

ORBIT DETERMINATION ACCURACY
ST 916.5 SR 252.9 SS 843.2
CRT .1572 CRS .3482 CST .9800
LSA 1240.8 MSA 273.9 SSA 17.2
EL1 917.4 EL2 249.5 ALF 2.68

LAUNCH DATE SEP 15 1965 FLIGHT TIME 126.00 ARRIVAL DATE JAN 19 1966

HELIOCENTRIC CONIC DISTANCE 303.405

RL 150.43 LAL .00 LOL 351.95 VL 25.892 GAL 9.15 AZL 87.55 HCA 122.04 SMA 121.31 ECC .28546 INC 2.4470 VI 29.620
RP 107.51 LAP 2.07 LOP 114.01 VP 37.079 GAP -15.28 AZP 91.30 TAL 155.29 TAP 277.32 RCA 86.68 APO 155.93 V2 35.249
RC 41.131 GL 10.09 GP -14.36 ZAL 42.62 ZAP 14.58 ETS 76.90 ZAE 150.95 ETE 226.83 ZAC 38.53 ETC 130.32 CLP -2.56

PLANETOCENTRIC CONIC

C3 38.839 VHL 6.232 DLA -7.93 RAL 310.02 RAD 6568.5 VEL 12.657 PTH 2.30 VHP 10.025 DPA -37.92 RAP 295.51 ECC 1.6392

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 25 39	2130.44	-17.44	36.22	180.68	112.67	10 1 10	1530.4	-14.22	29.03
90.00	19 24 6	5271.44	26.98	238.31	185.91	81.06	20 51 58	4671.4	25.47	229.97
100.00	10 43 10	1880.37	-18.70	17.27	180.11	113.76	11 14 31	1280.4	-15.33	10.10
100.00	20 49 16	4996.75	28.33	217.85	185.65	80.03	22 12 33	4396.7	26.66	209.45
110.00	11 42 41	1694.03	-22.03	1.45	178.43	116.82	12 10 55	1094.0	-18.25	354.35
110.00	22 6 15	4755.85	31.94	198.72	184.81	77.12	23 25 31	4155.9	29.84	190.13

DIFFERENTIAL CORRECTIONS

TDE -.6952 TRA-2.5246 TC3 -.2430 BAU .1507
RDE -.1909 RRA .5311 RC3 -.1585 FAU .01917
FDE .9054 FRA 2.1616 FC3 -.4273 BSP 7967
BDE .7210 BRA 2.5798 BC3 .2901 FSP -542

MID-COURSE EXECUTION ACCURACY

SGT 2447.9 SGR 559.3 SG3 193.2
RRT -.7182 RRF .7580 RTF -.9265
SGB 2510.9 R23 -.1089 R13 .9297
SG1 2481.4 SG2 383.9 THA 170.45

ORBIT DETERMINATION ACCURACY

ST 950.2 SR 229.6 SS 889.9
CRT .0378 CRS .2415 CST .9784
LSA 1295.2 MSA 264.0 SSA 17.1
EL1 950.3 EL2 229.4 ALF .56

LAUNCH DATE SEP 15 1965 FLIGHT TIME 128.00 ARRIVAL DATE JAN 21 1966

HELIOCENTRIC CONIC DISTANCE 310.239

RL 150.43 LAL .00 LOL 351.95 VL 26.030 GAL 8.78 AZL 87.28 HCA 125.27 SMA 122.10 ECC .27542 INC 2.7233 VI 29.620
RP 107.50 LAP 2.22 LOP 117.25 VP 37.179 GAP -14.47 AZP 91.57 TAL 155.13 TAP 280.40 RCA 88.47 APO 155.73 V2 35.252
RC 40.657 GL 11.66 GP -15.68 ZAL 42.76 ZAP 16.18 ETS 72.48 ZAE 151.21 ETE 233.54 ZAC 40.65 ETC 131.20 CLP -4.05

PLANETOCENTRIC CONIC

C3 36.574 VHL 6.048 DLA -6.36 RAL 309.80 RAD 6568.4 VEL 12.568 PTH 2.28 VHP 9.615 DPA -39.00 RAP 297.89 ECC 1.6019

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 12 37	2165.27	-18.34	38.38	179.71	111.96	9 48 42	1565.3	-15.20	31.11
90.00	19 35 22	5206.24	26.21	233.69	183.84	78.87	21 2 8	4606.2	24.41	225.48
100.00	10 30 56	1912.62	-19.57	19.27	179.18	113.06	11 2 49	1312.6	-16.28	12.02
100.00	20 59 44	4934.12	27.51	213.38	183.54	77.81	22 21 58	4334.1	25.55	205.12
110.00	11 32 15	1720.63	-22.84	3.09	177.57	116.15	12 0 56	1120.6	-19.14	355.91
110.00	22 14 54	4698.88	31.00	194.54	182.56	74.82	23 33 13	4098.9	28.61	186.16

DIFFERENTIAL CORRECTIONS

TDE -.7018 TRA-2.5276 TC3 -.2253 BAU .1415
RDE -.1407 RRA .5604 RC3 -.1817 FAU .01998
FDE .9774 FRA 2.2685 FC3 -.4729 BSP 8280
BDE .7158 BRA 2.5889 BC3 .2895 FSP -592

MID-COURSE EXECUTION ACCURACY

SGT 2514.4 SGR 592.9 SG3 209.2
RRT -.7639 RRF .8065 RTF -.9315
SGB 2583.3 R23 -.1218 R13 .9352
SG1 2555.7 SG2 376.4 THA 169.56

ORBIT DETERMINATION ACCURACY

ST 982.2 SR 208.6 SS 939.3
CRT -.1326 CRS .0820 CST .9765
LSA 1351.1 MSA 254.6 SSA 16.8
EL1 982.6 EL2 206.6 ALF 178.31

LAUNCH DATE SEP 15 1965 FLIGHT TIME 130.00 ARRIVAL DATE JAN 23 1966

HELIOCENTRIC CONIC DISTANCE 317.070

RL 150.43 LAL .00 LOL 351.95 VL 26.158 GAL 8.43 AZL 86.98 HCA 128.51 SMA 122.86 ECC .26598 INC 3.0227 VI 29.620
RP 107.49 LAP 2.36 LOP 120.50 VP 37.272 GAP -13.68 AZP 91.88 TAL 155.00 TAP 283.51 RCA 90.18 APO 155.54 V2 35.255
RC 40.351 GL 13.41 GP -17.19 ZAL 43.04 ZAP 18.05 ETS 68.93 ZAE 150.97 ETE 240.53 ZAC 42.89 ETC 131.87 CLP -5.57

PLANETOCENTRIC CONIC

C3 34.611 VHL 5.883 DLA -4.63 RAL 309.48 RAD 6568.4 VEL 12.489 PTH 2.26 VHP 9.228 DPA -40.23 RAP 300.32 ECC 1.5696

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 58 14	2205.75	-19.35	40.92	178.82	111.08	9 35 0	1605.7	-16.32	33.56
90.00	19 47 14	5137.89	25.22	228.93	181.77	76.68	21 12 52	4537.9	23.14	220.88
100.00	10 17 24	1950.37	-20.56	21.64	178.31	112.19	10 49 54	1350.4	-17.37	14.29
100.00	21 10 45	4868.50	26.48	208.77	181.42	75.59	22 31 54	4268.5	24.24	200.69
110.00	11 20 39	1752.35	-23.78	5.08	176.78	115.32	11 49 51	1152.3	-20.17	357.79
110.00	22 23 59	4639.29	29.86	190.27	180.33	72.53	23 41 19	4039.3	27.18	182.11

DIFFERENTIAL CORRECTIONS

TDE -.7133 TRA-2.5329 TC3 -.2071 BAU .1356
RDE -.0866 RRA .5970 RC3 -.2072 FAU .02074
FDE 1.0592 FRA 2.3826 FC3 -.5189 BSP 8536
BDE .7186 BRA 2.6023 BC3 .2930 FSP -644

MID-COURSE EXECUTION ACCURACY

SGT 2582.1 SGR 637.8 SG3 226.2
RRT -.8049 RRF .8501 RTF -.9361
SGB 2659.7 R23 -.1360 R13 .9404
SG1 2633.7 SG2 371.0 THA 168.52

ORBIT DETERMINATION ACCURACY

ST 1016.8 SR 194.4 SS 993.4
CRT -.3607 CRS -.1461 CST .9749
LSA 1413.5 MSA 245.6 SSA 16.5
EL1 1019.3 EL2 180.8 ALF 175.93

LAUNCH DATE SEP 15 1965 FLIGHT TIME 132.00 ARRIVAL DATE JAN 25 1966

HELIOCENTRIC CONIC DISTANCE 323.894

RL 150.43 LAL .00 LOL 351.95 VL 26.277 GAL 8.09 AZL 86.65 HCA 131.75 SMA 123.57 ECC .25713 INC 3.3503 VI 29.620
RP 107.48 LAP 2.50 LOP 123.75 VP 37.357 GAP -12.92 AZP 92.23 TAL 154.90 TAP 286.65 RCA 91.80 APO 155.35 V2 35.257
RC 40.219 GL 15.36 GP -18.93 ZAL 43.48 ZAP 20.18 ETS 66.16 ZAE 150.16 ETE 247.48 ZAC 45.26 ETC 132.34 CLP -7.12

PLANETOCENTRIC CONIC

C3 32.950 VHL 5.740 DLA -2.73 RAL 309.07 RAD 6568.3 VEL 12.423 PTH 2.24 VHP 8.868 DPA -41.66 RAP 302.82 ECC 1.5423

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 42 18	2252.82	-20.48	43.92	178.02	110.00	9 19 51	1652.8	-17.57	36.45
90.00	19 59 52	5066.02	24.00	224.02	179.72	74.51	21 24 18	4466.0	21.64	216.14
100.00	10 2 23	1994.53	-21.67	24.45	177.54	111.11	10 35 37	1394.5	-18.60	16.99
100.00	21 22 29	4799.54	25.22	204.03	179.34	73.40	22 42 28	4199.5	22.71	196.14
110.00	11 7 42	1790.02	-24.85	7.48	176.09	114.26	11 37 32	1190.0	-21.36	.06
110.00	22 33 39	4576.81	28.50	185.92	178.13	70.28	23 49 55	3976.8	25.55	177.99

DIFFERENTIAL CORRECTIONS

TDE -.7291 TRA-2.5389 TC3 -.1876 BAU .1325
RDE -.0271 RRA .6420 RC3 -.2350 FAU .02146
FDE 1.1516 FRA 2.5019 FC3 -.5639 BSP 8776
BDE .7296 BRA 2.6189 BC3 .3007 FSP -698

MID-COURSE EXECUTION ACCURACY

SGT 2648.2 SGR 696.5 SG3 244.2
RRT -.8403 RRF .8876 RTF -.9404
SGB 2738.3 R23 -.1507 R13 .9455
SG1 2713.4 SG2 368.5 THA 167.30

ORBIT DETERMINATION ACCURACY

ST 1053.1 SR 194.5 SS 1051.8
CRT -.6189 CRS -.4249 CST .9735
LSA 1482.0 MSA 237.3 SSA 16.0
EL1 1060.1 EL2 151.8 ALF 173.34

LAUNCH DATE SEP 15 1965 FLIGHT TIME 134.00 ARRIVAL DATE JAN 27 1966

HELIOCENTRIC CONIC DISTANCE 330.709

RL	150.43	LAL	.00	LOL	351.95	VL	26.387	GAL	7.78	AZL	86.29	HCA	134.99	SMA	124.24	ECC	.24884	INC	3.7129	VI	29.620
RP	107.48	LAP	2.62	LOP	126.99	VP	37.436	GAP	-12.18	AZP	92.63	TAL	154.84	TAP	289.83	RCA	93.33	APO	155.16	V2	35.259
RC	40.263	GL	17.53	GP	-20.93	ZAL	44.10	ZAP	22.59	ETS	64.05	ZAE	148.75	ETE	254.08	ZAC	47.77	ETC	132.64	CLP	-8.71

PLANETOCENTRIC CONIC

C3	31.601	VHL	5.621	DLA	-.62	RAL	308.55	RAD	6568.3	VEL	12.368	PTH	2.23	VHP	8.537	DPA	-43.32	RAP	305.43	ECC	1.5201

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 24 36	2307.64	-21.71	47.46	177.35	108.64	9 3 4	1707.6	-18.97	39.87
90.00	20 13 26	4990.13	22.53	218.94	177.73	72.38	21 36 36	4390.1	19.91	211.25
100.00	9 45 39	2046.19	-22.89	27.79	176.91	109.76	10 19 45	1446.2	-19.99	20.20
100.00	21 35 4	4726.82	23.72	199.15	177.31	71.25	22 53 51	4126.8	20.94	191.46
110.00	10 53 14	1834.64	-26.07	10.37	175.54	112.94	11 23 49	1234.6	-22.73	2.80
110.00	22 43 58	4511.14	26.91	181.47	176.00	68.08	23 59 10	3911.1	23.70	173.78

DIFFERENTIAL CORRECTIONS

TDE	-.7460	TRA	-2.5422	TC3	-.1618	BAU	.1312												
RDE	.0395	RRA	.6972	RC3	-.2652	FAU	.02218												
FDE	1.2540	FRA	2.6224	FC3	-.6076	BSP	9097												
BDE	.7470	BRA	2.6361	BC3	.3106	FSP	-758												

MID-COURSE EXECUTION ACCURACY

SGT	2706.6	SGR	771.7	SG3	262.7														
RRT	-.8703	RRF	.9183	RTF	-.9446														
SGB	2814.5	R23	-.1636	R13	.9506														
SG1	2790.2	SG2	368.7	THA	165.81														

ORBIT DETERMINATION ACCURACY

ST	1087.4	SR	217.1	SS	1113.1														
CRT	-.8312	CRS	-.6792	CST	.9721														
LSA	1554.0	MSA	231.0	SSA	15.3														
EL1	1102.5	EL2	119.1	ALF	170.46														

LAUNCH DATE SEP 15 1965 FLIGHT TIME 136.00 ARRIVAL DATE JAN 29 1966

HELIOCENTRIC CONIC DISTANCE 337.513

RL	150.43	LAL	.00	LOL	351.95	VL	26.489	GAL	7.48	AZL	85.88	HCA	138.22	SMA	124.87	ECC	.24109	INC	4.1189	VI	29.620
RP	107.48	LAP	2.74	LOP	130.24	VP	37.508	GAP	-11.46	AZP	93.07	TAL	154.80	TAP	293.03	RCA	94.77	APO	154.98	V2	35.259
RC	40.482	GL	19.94	GP	-23.24	ZAL	44.94	ZAP	25.31	ETS	62.50	ZAE	146.71	ETE	260.05	ZAC	50.47	ETC	132.76	CLP	-10.32

PLANETOCENTRIC CONIC

C3	30.583	VHL	5.530	DLA	1.71	RAL	307.92	RAD	6568.2	VEL	12.327	PTH	2.22	VHP	8.241	DPA	-45.25	RAP	308.19	ECC	1.5033

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 4 48	2371.65	-23.04	51.68	176.87	106.93	8 44 19	1771.7	-20.51	43.93
90.00	20 28 11	4909.68	20.77	213.70	175.84	70.31	21 50 0	4309.7	17.90	206.20
100.00	9 26 56	2106.71	-24.23	31.79	176.47	108.06	10 2 3	1506.7	-21.53	24.03
100.00	21 48 44	4649.85	21.94	194.13	175.38	69.17	23 6 13	4049.9	18.91	186.64
110.00	10 37 0	1887.39	-27.42	13.88	175.20	111.26	11 8 28	1287.4	-24.28	6.11
110.00	22 55 9	4441.94	25.07	176.94	173.97	65.97	24 9 11	3841.9	21.61	169.50

DIFFERENTIAL CORRECTIONS

TDE	-.7681	TRA	-2.5461	TC3	-.1335	BAU	.1331												
RDE	.1159	RRA	.7648	RC3	-.2970	FAU	.02278												
FDE	1.3683	FRA	2.7415	FC3	-.6447	BSP	9440												
BDE	.7768	BRA	2.6584	BC3	.3256	FSP	-820												

MID-COURSE EXECUTION ACCURACY

SGT	2760.3	SGR	866.4	SG3	281.2														
RRT	-.8943	RRF	.9422	RTF	-.9486														
SGB	2893.1	R23	-.1745	R13	.9557														
SG1	2869.0	SG2	372.9	THA	164.04														

ORBIT DETERMINATION ACCURACY

ST	1122.5	SR	266.6	SS	1178.0														
CRT	-.9483	CRS	-.8461	CST	.9709														
LSA	1633.2	MSA	226.6	SSA	14.3														
EL1	1150.8	EL2	82.5	ALF	167.24														

LAUNCH DATE SEP 15 1965 FLIGHT TIME 138.00 ARRIVAL DATE JAN 31 1966

HELIOCENTRIC CONIC DISTANCE 344.304

RL	150.43	LAL	.00	LOL	351.95	VL	26.583	GAL	7.20	AZL	85.42	HCA	141.46	SMA	125.46	ECC	.23388	INC	4.5797	VI	29.620
RP	107.48	LAP	2.85	LOP	133.49	VP	37.574	GAP	-10.76	AZP	93.59	TAL	154.80	TAP	296.25	RCA	96.12	APO	154.80	V2	35.259
RC	40.875	GL	22.64	GP	-25.92	ZAL	46.03	ZAP	28.38	ETS	61.43	ZAE	144.07	ETE	265.24	ZAC	53.40	ETC	132.75	CLP	-11.96

PLANETOCENTRIC CONIC

C3	29.935	VHL	5.471	DLA	4.29	RAL	307.15	RAD	6568.2	VEL	12.301	PTH	2.22	VHP	7.987	DPA	-47.51	RAP	311.17	ECC	1.4926

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 42 29	2446.65	-24.44	56.74	176.65	104.76	8 23 15	1846.7	-22.17	48.80
90.00	20 44 24	4823.92	18.71	208.25	174.11	68.35	22 4 48	4223.9	15.61	200.95
100.00	9 5 50	2177.79	-25.65	36.60	176.28	105.91	9 42 8	1577.8	-23.22	28.64
100.00	22 3 44	4568.02	19.87	188.93	173.61	67.20	23 19 52	3968.0	16.61	181.66
110.00	10 18 42	1949.75	-28.89	18.14	175.13	109.13	10 51 11	1349.7	-26.00	10.14
110.00	23 7 21	4368.83	22.96	172.31	172.10	63.95	24 20 10	3768.8	19.27	165.11

DIFFERENTIAL CORRECTIONS

TDE	-.7978	TRA	-2.5516	TC3	-.1046	BAU	.1383												
RDE	.2059	RRA	.8473	RC3	-.3293	FAU	.02316												
FDE	1.4949	FRA	2.8535	FC3	-.6698	BSP	9804												
BDE	.8239	BRA	2.6886	BC3	.3455	FSP	-882												

MID-COURSE EXECUTION ACCURACY

SGT	2809.2	SGR	983.9	SG3	298.9														
RRT	-.9129	RRF	.9601	RTF	-.9522														
SGB	2976.5	R23	-.1822	R13	.9608														
SG1	2951.8	SG2	382.2	THA	161.96														

ORBIT DETERMINATION ACCURACY

ST	1159.4	SR	343.3	SS	1245.8														
CRT	-.9916	CRS	-.9321	CST	.9701														
LSA	1721.5	MSA	224.4	SSA	13.1														
EL1	1208.4	EL2	42.7	ALF	163.62														

LAUNCH DATE SEP 15 1965 FLIGHT TIME 140.00 ARRIVAL DATE FEB 2 1966

HELIOCENTRIC CONIC DISTANCE 351.080

RL	150.43	LAL	.00	LOL	351.95	VL	26.669	GAL	6.94	AZL	84.89	HCA	144.69	SMA	126.01	ECC	.22718	INC	5.1110	VI	29.620
RP	107.48	LAP	2.95	LOP	136.74	VP	37.635	GAP	-10.08	AZP	94.17	TAL	154.81	TAP	299.50	RCA	97.38	APO	154.63	V2	35.258
RC	41.437	GL	25.63	GP	-29.04	ZAL	47.41	ZAP	31.82	ETS	60.75	ZAE	140.83	ETE	269.58	ZAC	56.59	ETC	132.61	CLP	-13.62

PLANETOCENTRIC CONIC

C3	29.717	VHL	5.451	DLA	7.15	RAL	306.24	RAD	6568.2	VEL	12.292	PTH	2.21	VHP	7.783	DPA	-50.14	RAP	314.50	ECC	1.4891

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 17 3	2535.01	-25.83	62.83	176.74	102.02	7 59 18	1935.0	-23.92	54.69
90.00	21 2 33	4731.91	16.31	202.57	172.59	66.52	22 21 25	4131.9	12.99	195.46
100.00	8 41 49	2261.61	-27.08	42.41	176.43	103.17	9 19 31	1661.6	-25.00	34.23
100.00	22 20 28	4480.54	17.47	183.54	172.05	65.35	23 35 8	3880.5	14.00	176.47
110.00	9 57 54	2023.55	-30.42	23.33	175.42	106.40	10 31 37	1423.5	-27.87	15.06
110.00	23 20 53	4291.37	20.57	167.57	170.43	62.08	24 32 24	3691.4	16.67	160.61

DIFFERENTIAL CORRECTIONS

TDE	-.8321	TRA	-2.5542	TC3	-.0685	BAU	.1462												
RDE	.3137	RRA	.9465	RC3	-.3615	FAU	.02338												
FDE	1.6296	FRA	2.9454	FC3	-.6810	BSP	10331												
BDE	.8893	BRA	2.7240	BC3	.3679	FSP	-948												

MID-COURSE EXECUTION ACCURACY

SGT	2844.5	SGR	1126.7	SG3	314.1														
RRT	-.9273	RRF	.9730	RTF	-.9557														
SGB	3059.5	R23	-.1848	R13	.9659														
SG1	3033.8	SG2	395.4	THA	159.47														

ORBIT DETERMINATION ACCURACY

ST	1193.2	SR	446.5	SS	1312.5														
CRT	-.9996	CRS	-.9714	CST	.9693														
LSA	1815.2	MSA	225.4	SSA	11.7														
EL1	1274.0	EL2	12.4	ALF	159.49														

LAUNCH DATE SEP 15 1965 FLIGHT TIME 142.00 ARRIVAL DATE FEB 4 1966

HELIOCENTRIC CONIC DISTANCE 357.855

RL	150.43	LAL	.00	LOL	351.95	VL	26.749	GAL	6.70	AZL	84.27	HCA	147.92	SMA	126.52	ECC	.22102	INC	5.7341	VI	29.620
RP	107.49	LAP	3.04	LOP	140.00	VP	37.689	GAP	-9.43	AZP	94.86	TAL	154.83	TAP	302.75	RCA	98.56	APO	154.48	V2	35.256
RC	42.162	GL	28.96	GP	-32.66	ZAL	49.11	ZAP	35.69	ETS	60.42	ZAE	137.01	ETE	273.15	ZAC	60.12	ETC	132.42	CLP	-15.26

PLANETOCENTRIC CONIC

C3	30.053	VHL	5.482	DLA	10.31	RAL	305.17	RAD	6568.2	VEL	12.306	PTH	2.22	VHP	7.646	DPA	-53.17	RAP	318.37	ECC	1.4946

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 47 49	2639.92	-27.11	70.25	177.26	98.51	7 31 49	2038.9	-25.65	61.88
90.00	21 23 17	4632.64	13.52	196.61	171.42	64.88	22 40 30	4032.6	10.03	189.68
100.00	8 14 16	2361.07	-28.42	49.50	177.02	99.67	8 53 37	1761.1	-26.79	41.08
100.00	22 39 30	4386.72	14.72	177.93	170.82	63.69	23 52 37	3786.7	11.07	171.05
110.00	9 34 8	2111.15	-31.93	29.71	176.21	102.91	10 9 19	1511.2	-29.83	21.13
110.00	23 36 8	4209.40	17.88	162.73	169.07	60.37	24 46 17	3609.4	13.80	155.99

DIFFERENTIAL CORRECTIONS

TDE-1.0775	TRA-2.7587	TC3 -.2976	BAU .1808				
RDE .4875	RRA 1.1087	RC3 -.3375	FAU .01678				
FDE 1.9120	FRA 3.1520	FC3 -.4833	BSP 6205				
BDE 1.1827	BRA 2.9731	BC3 .4500	FSP -724				

MID-COURSE EXECUTION ACCURACY

SGT 3156.4	SGR 1335.5	SG3 340.0					
RRT -.9262	RRF .9814	RTF -.9573					
SGB 3427.3	R23 -.1982	R13 .9697					
SG1 3395.2	SG2 468.1	THA 158.16					

ORBIT DETERMINATION ACCURACY

ST 1428.8	SR 620.2	SS 1477.5					
CRT -.9981	CRS -.9901	CST .9806					
LSA 2137.1	MSA 204.2	SSA 12.2					
EL1 1557.2	EL2 35.1	ALF 156.56					

LAUNCH DATE SEP 15 1965 FLIGHT TIME 144.00 ARRIVAL DATE FEB 6 1966

HELIOCENTRIC CONIC DISTANCE 364.581

RL	150.43	LAL	.00	LOL	351.95	VL	26.822	GAL	6.47	AZL	83.52	HCA	151.15	SMA	126.99	ECC	.21526	INC	6.4804	VI	29.620
RP	107.49	LAP	3.12	LOP	143.25	VP	37.739	GAP	-8.78	AZP	95.68	TAL	154.90	TAP	306.04	RCA	99.65	APO	154.33	V2	35.254
RC	43.042	GL	32.66	GP	-36.87	ZAL	51.23	ZAP	40.04	ETS	60.35	ZAE	132.57	ETE	276.00	ZAC	64.04	ETC	132.20	CLP	-16.88

PLANETOCENTRIC CONIC

C3	31.062	VHL	5.573	DLA	13.80	RAL	303.87	RAD	6568.2	VEL	12.346	PTH	2.23	VHP	7.592	DPA	-56.67	RAP	323.07	ECC	1.5112

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 13 7	2768.16	-28.05	79.36	178.20	94.04	6 59 13	2166.2	-27.20	70.80
90.00	21 47 36	4522.98	10.27	190.20	170.64	63.46	23 2 59	3923.0	6.62	183.42
100.00	7 41 45	2480.35	-29.48	58.20	178.07	95.21	8 23 5	1880.3	-28.44	49.55
100.00	23 1 39	4284.02	11.54	171.97	169.98	62.23	24 13 3	3684.0	7.73	165.25
110.00	9 6 19	2215.70	-33.25	37.58	177.54	98.43	9 43 15	1615.7	-31.73	28.68
110.00	23 53 34	4121.43	14.85	157.72	168.06	58.85	25 2 15	3521.4	10.61	151.17

DIFFERENTIAL CORRECTIONS

TDE-1.0049	TRA-2.6322	TC3 -.0769	BAU .1659				
RDE .6300	RRA 1.2227	RC3 -.3920	FAU .02031				
FDE 1.9590	FRA 3.0673	FC3 -.5660	BSP 10209				
BDE 1.1861	BRA 2.9023	BC3 .3595	FSP -966				

MID-COURSE EXECUTION ACCURACY

SGT 2973.1	SGR 1511.8	SG3 334.6					
RRT -.9429	RRF .9877	RTF -.9618					
SGB 3335.4	R23 -.1774	R13 .9760					
SG1 3304.5	SG2 453.0	THA 153.85					

ORBIT DETERMINATION ACCURACY

ST 1328.9	SR 755.3	SS 1467.5					
CRT -.9900	CRS -.9960	CST .9737					
LSA 2106.8	MSA 226.3	SSA 9.1					
EL1 1525.7	EL2 92.8	ALF 150.52					

LAUNCH DATE SEP 15 1965 FLIGHT TIME 146.00 ARRIVAL DATE FEB 8 1966

HELIOCENTRIC CONIC DISTANCE 371.298

RL	150.43	LAL	.00	LOL	351.95	VL	26.889	GAL	6.26	AZL	82.60	HCA	154.36	SMA	127.43	ECC	.21000	INC	7.3963	VI	29.620
RP	107.50	LAP	3.19	LOP	146.50	VP	37.783	GAP	-8.16	AZP	96.68	TAL	154.96	TAP	309.32	RCA	100.67	APO	154.19	V2	35.250
RC	44.068	GL	36.74	GP	-41.71	ZAL	53.75	ZAP	44.89	ETS	60.54	ZAE	127.51	ETE	278.34	ZAC	68.42	ETC	132.12	CLP	-18.37

PLANETOCENTRIC CONIC

C3	33.082	VHL	5.752	DLA	17.63	RAL	302.33	RAD	6568.3	VEL	12.428	PTH	2.25	VHP	7.658	DPA	-60.57	RAP	329.18	ECC	1.5445

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 31 3	2921.17	-28.27	90.68	179.63	88.37	6 19 44	2321.2	-28.20	82.02
90.00	22 17 23	4399.68	6.44	183.17	170.56	62.37	23 30 42	3799.7	2.69	176.49
100.00	7 2 41	2625.67	-29.89	68.98	179.66	89.56	7 46 27	2025.7	-29.63	60.18
100.00	23 28 26	4170.42	7.86	165.54	169.79	61.07	24 37 56	3570.4	3.94	158.95
110.00	8 33 31	2341.50	-34.09	47.30	179.56	92.74	9 12 32	1741.5	-33.33	38.14
110.00	0 18 1	4027.36	11.47	152.52	167.61	57.58	1 25 9	3427.4	7.11	146.14

DIFFERENTIAL CORRECTIONS

TDE-1.1124	TRA-2.6687	TC3 -.0611	BAU .1752				
RDE .8544	RRA 1.3937	RC3 -.3913	FAU .01813				
FDE 2.1033	FRA 3.0260	FC3 -.4744	BSP 10740				
BDE 1.4026	BRA 3.0107	BC3 .3961	FSP -971				

MID-COURSE EXECUTION ACCURACY

SGT 3002.3	SGR 1746.2	SG3 331.2					
RRT -.9490	RRF .9915	RTF -.9651					
SGB 3473.2	R23 -.1631	R13 .9810					
SG1 3439.7	SG2 480.7	THA 150.47					

ORBIT DETERMINATION ACCURACY

ST 1388.6	SR 956.9	SS 1521.8					
CRT -.9850	CRS -.9988	CST .9755					
LSA 2259.7	MSA 231.4	SSA 7.6					
EL1 1680.8	EL2 136.2	ALF 145.57					

LAUNCH DATE SEP 15 1965 FLIGHT TIME 148.00 ARRIVAL DATE FEB 10 1966

HELIOCENTRIC CONIC DISTANCE 377.988

RL	150.43	LAL	.00	LOL	351.95	VL	26.949	GAL	6.08	AZL	81.45	HCA	157.58	SMA	127.83	ECC	.20520	INC	8.5549	VI	29.620
RP	107.51	LAP	3.25	LOP	149.75	VP	37.823	GAP	-7.55	AZP	97.92	TAL	155.03	TAP	312.60	RCA	101.60	APO	154.06	V2	35.247
RC	45.230	GL	41.21	GP	-47.23	ZAL	56.74	ZAP	50.23	ETS	61.00	ZAE	121.80	ETE	280.40	ZAC	73.33	ETC	132.34	CLP	-19.60

PLANETOCENTRIC CONIC

C3	36.619	VHL	6.051	DLA	21.77	RAL	300.47	RAD	6568.4	VEL	12.569	PTH	2.28	VHP	7.892	DPA	-64.73	RAP	337.69	ECC	1.6027

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 36 55	3119.73	-27.05	105.06	181.27	81.28	5 28 55	2519.7	-27.98	96.52
90.00	22 56 39	4252.40	1.73	174.90	171.53	61.73	24 7 32	3652.4	-2.06	168.28
100.00	6 13 32	2808.22	-29.03	82.46	181.59	82.52	7 0 20	2208.2	-29.76	73.74
100.00	0 6 40	4039.16	3.48	158.26	170.56	60.29	1 13 59	3439.2	-.50	151.74
110.00	7 53 39	2494.97	-33.94	59.27	182.18	85.66	8 35 14	1895.0	-34.17	50.03
110.00	0 43 2	3925.16	7.69	147.02	167.96	56.59	1 48 27	3325.2	3.24	140.76

DIFFERENTIAL CORRECTIONS

TDE-1.2707	TRA-2.7312	TC3 -.0537	BAU .1818				
RDE 1.1512	RRA 1.5877	RC3 -.3675	FAU .01485				
FDE 2.2244	FRA 2.9011	FC3 -.3510	BSP 11338				
BDE 1.7146	BRA 3.1592	BC3 .3714	FSP -943				

MID-COURSE EXECUTION ACCURACY

SGT 3034.1	SGR 2001.6	SG3 315.9					
RRT -.9534	RRF .9939	RTF -.9685					
SGB 3634.9	R23 -.1444	R13 .9858					
SG1 3599.1	SG2 509.0	THA 147.09					

ORBIT DETERMINATION ACCURACY

ST 1464.7	SR 1193.4	SS 1558.3					
CRT -.9823	CRS -.9998	CST .9784					
LSA 2437.6	MSA 236.0	SSA 6.1					
EL1 1881.3	EL2 173.9	ALF 140.93					

LAUNCH DATE SEP 15 1965 FLIGHT TIME 150.00 ARRIVAL DATE FEB 12 1966

HELIOCENTRIC CONIC DISTANCE 384.647

RL	150.43	LAL	.00	LOL	351.95	VL	27.005	GAL	5.90	AZL	79.92	HCA	160.78	SMA	128.20	ECC	.20083	INC	10.0770
RP	107.53	LAP	3.30	LOP	153.00	VP	37.858	GAP	-6.97	AZP	99.53	TAL	155.09	TAP	315.87	RCA	102.45	APO	153.95
RC	46.516	GL	46.02	GP	-53.43	ZAL	60.21	ZAP	56.02	ETS	61.91	ZAE	115.44	ETE	282.58	ZAC	78.81	ETC	133.23

V1	29.620	V2	35.242	CLP	-20.28														

PLANETOCENTRIC CONIC

C3	42.662	VHL	6.532	DLA	26.19	RAL	298.19	RAD	6568.6	VEL	12.807	PTH	2.33	VHP	8.376	DPA	-68.75	RAP	350.41

ECC	1.7021																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	3 15 47	3408.93	-22.50	124.98	182.05	72.34	4 12 36	2808.9	-24.70	117.01
90.00	0 3 31	4040.34	-5.09	163.05	174.57	62.11	1 10 52	3440.3	-8.79	156.32
100.00	5 5 20	3055.76	-25.56	100.01	183.07	73.94	5 56 16	2455.8	-27.51	91.75
100.00	0 56 40	3868.74	-2.29	148.91	173.02	60.19	2 1 8	3268.7	-6.24	142.35
110.00	7 3 9	2687.13	-31.98	73.90	184.95	77.23	7 47 56	2087.1	-33.41	64.96
110.00	1 15 20	3810.15	3.34	140.96	169.52	55.96	2 18 50	3210.1	-1.15	134.76

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-1.5201	TRA	-2.8435	TC3	-.0587	BAU	.1812	SGT	3084.0	SGR	2258.3	SG3	287.2	ST	1572.8	SR	1459.1	SS	1570.8
RDE	1.5511	RRA	1.7960	RC3	-.3122	FAU	.01027	RRT	-.9567	RRF	.9950	RTF	-.9725	CRT	-.9820	CRS	-1.0000	CST	.9824
FDE	2.3061	FRA	2.6841	FC3	-.2084	BSP	11959	SGB	3822.4	R23	-.1220	R13	.9900	LSA	2648.2	MSA	238.9	SSA	4.9
BDE	2.1718	BRA	3.3632	BC3	.3177	FSP	-871	SG1	3784.8	SG2	535.4	THA	144.16	EL1	2135.7	EL2	202.7	ALF	137.19

LAUNCH DATE SEP 15 1965 FLIGHT TIME 152.00 ARRIVAL DATE FEB 14 1966

HELIOCENTRIC CONIC DISTANCE 391.266

RL	150.43	LAL	.00	LOL	351.95	VL	27.055	GAL	5.75	AZL	77.82	HCA	163.96	SMA	128.54	ECC	.19689	INC	12.1779
RP	107.55	LAP	3.34	LOP	156.25	VP	37.889	GAP	-6.40	AZP	101.72	TAL	155.15	TAP	319.11	RCA	103.23	APO	153.84
RC	47.916	GL	51.09	GP	-60.22	ZAL	64.18	ZAP	62.13	ETS	63.83	ZAE	108.44	ETE	285.65	ZAC	84.91	ETC	135.55

V1	29.620	V2	35.236	CLP	-19.72														

PLANETOCENTRIC CONIC

C3	53.260	VHL	7.298	DLA	30.75	RAL	295.34	RAD	6568.9	VEL	13.214	PTH	2.41	VHP	9.252	DPA	-71.68	RAP	9.67

ECC	1.8765																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
77.48	23 44 25	4101.68	-14.13	172.36	180.33	62.40	24 52 46	3501.7	-17.71	165.34
102.52	3 8 14	3458.61	-14.11	124.93	180.32	62.39	4 5 53	2858.6	-17.70	117.91
77.48	23 44 25	4101.68	-14.13	172.36	180.33	62.40	24 52 46	3501.7	-17.71	165.34
102.52	3 8 14	3458.61	-14.11	124.93	180.32	62.39	4 5 53	2858.6	-17.70	117.91
110.00	5 52 56	2944.34	-26.66	91.99	186.52	67.77	6 42 1	2344.3	-29.43	83.90
110.00	2 2 49	3663.94	-2.25	133.33	173.18	55.88	3 3 53	3063.9	-6.71	127.09

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-1.9494	TRA	-3.0574	TC3	-.0751	BAU	.1686	SGT	3186.7	SGR	2464.7	SG3	245.9	ST	1744.8	SR	1725.5	SS	1553.6
RDE	2.0858	RRA	1.9843	RC3	-.2246	FAU	.00460	RRT	-.9591	RRF	.9949	RTF	-.9778	CRT	-.9838	CRS	-.9998	CST	.9875
FDE	2.3317	FRA	2.3825	FC3	-.0747	BSP	12608	SGB	4028.6	R23	-.0964	R13	.9937	LSA	2894.5	MSA	238.9	SSA	3.8
BDE	2.8549	BRA	3.6448	BC3	.2368	FSP	-758	SG1	3989.9	SG2	557.3	THA	142.58	EL1	2443.9	EL2	221.1	ALF	135.32

LAUNCH DATE SEP 15 1965 FLIGHT TIME 154.00 ARRIVAL DATE FEB 16 1966

HELIOCENTRIC CONIC DISTANCE 397.829

RL	150.43	LAL	.00	LOL	351.95	VL	27.100	GAL	5.62	AZL	74.72	HCA	167.11	SMA	128.84	ECC	.19340	INC	15.2781
RP	107.56	LAP	3.37	LOP	159.50	VP	37.916	GAP	-5.86	AZP	104.91	TAL	155.19	TAP	322.29	RCA	103.92	APO	153.76
RC	49.420	GL	56.16	GP	-67.41	ZAL	68.60	ZAP	68.34	ETS	68.70	ZAE	100.81	ETE	291.71	ZAC	91.71	ETC	141.40

V1	29.620	V2	35.230	CLP	-16.07														

PLANETOCENTRIC CONIC

C3	73.210	VHL	8.556	DLA	35.17	RAL	291.71	RAD	6569.4	VEL	13.949	PTH	2.55	VHP	10.791	DPA	-71.93	RAP	34.80

ECC	2.2048																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
68.22	22 29 55	4364.33	-13.16	191.95	182.34	57.09	23 42 40	3764.3	-17.40	185.34
111.78	3 53 44	3349.62	-13.14	115.99	182.33	57.08	4 49 34	2749.6	-17.39	109.38
68.22	22 29 55	4364.33	-13.16	191.95	182.34	57.09	23 42 40	3764.3	-17.40	185.34
111.78	3 53 44	3349.62	-13.14	115.99	182.33	57.08	4 49 34	2749.6	-17.39	109.38
68.22	22 29 55	4364.33	-13.16	191.95	182.34	57.09	23 42 40	3764.3	-17.40	185.34
111.78	3 53 44	3349.62	-13.14	115.99	182.33	57.08	4 49 34	2749.6	-17.39	109.38

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-2.8194	TRA	-3.5083	TC3	-.1052	BAU	.1519	SGT	3443.2	SGR	2472.8	SG3	196.3	ST	2075.5	SR	1893.0	SS	1513.1
RDE	2.7280	RRA	2.0206	RC3	-.1141	FAU	-.00200	RRT	-.9596	RRF	.9915	RTF	-.9857	CRT	-.9867	CRS	-.9989	CST	.9934
FDE	2.3056	FRA	2.0342	FC3	.0237	BSP	13219	SGB	4239.2	R23	-.0671	R13	.9967	LSA	3182.1	MSA	234.3	SSA	2.9
BDE	3.9231	BRA	4.0486	BC3	.1552	FSP	-613	SG1	4200.6	SG2	570.3	THA	144.68	EL1	2799.9	EL2	227.8	ALF	137.67

LAUNCH DATE SEP 15 1965 FLIGHT TIME 156.00 ARRIVAL DATE FEB 18 1966

HELIOCENTRIC CONIC DISTANCE 404.302

RL	150.43	LAL	.00	LOL	351.95	VL	27.141	GAL	5.52	AZL	69.69	HCA	170.20	SMA	129.12	ECC	.19039	INC	20.3133
RP	107.58	LAP	3.39	LOP	162.74	VP	37.938	GAP	-5.34	AZP	110.04	TAL	155.17	TAP	325.37	RCA	104.54	APO	153.70
RC	51.018	GL	60.65	GP	-74.35	ZAL	73.38	ZAP	74.37	ETS	84.59	ZAE	92.40	ETE	308.87	ZAC	99.47	ETC	158.92

V1	29.620	V2	35.224	CLP	-3.35														

PLANETOCENTRIC CONIC

C3	115.758	VHL	10.759	DLA	38.83	RAL	286.98	RAD	6570.2	VEL	15.398	PTH	2.75	VHP	13.581	DPA	-68.25	RAP	57.94

ECC	2.9051																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
62.24	21 39 42	4557.11	-10.23	205.44	184.05	52.33	22 55 39	3957.1	-15.04	199.31
117.76	4 6 15	3357.69	-10.21	114.52	184.03	52.33	5 2 12	2757.7	-15.02	108.39
62.24	21 39 42	4557.11	-10.23	205.44	184.05	52.33	22 55 39	3957.1	-15.04	199.31
117.76	4 6 15	3357.69	-10.21	114.52	184.03	52.33	5 2 12	2757.7	-15.02	108.39
62.24	21 39 42	4557.11	-10.23	205.44	184.05	52.33	22 55 39	3957.1	-15.04	199.31
117.76	4 6 15	3357.69	-10.21	114.52	184.03	52.33	5 2 12	2757.7	-15.02	108.39

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-5.0712	TRA	-4.5440	TC3	-.1597	BAU	.2517	SGT	4130.4	SGR	1589.1	SG3	145.9	ST	2856.9	SR	1410.6	SS	1477.2
RDE	2.6137	RRA	1.1174	RC3	-.0306	FAU	-.00954	RRT	-.9308	RRF	.9561	RTF	-.9962	CRT	-.9857	CRS	-.9929	CST	.9987
FDE	2.2704	FRA	1.7096	FC3	.0713	BSP	13816	SGB	4425.6	R23	-.0337	R13	.9988	LSA	3505.4	MSA	214.7	SSA	2.1
BDE	5.7052	BRA	4.6794	BC3	.1626	FSP	-464	SG1	4391.7	SG2	546.4	THA	159.97	EL1	3179.0	EL2	213.4	ALF	153.92

LAUNCH DATE SEP 15 1965 FLIGHT TIME 158.00 ARRIVAL DATE FEB 20 1966

HELIOCENTRIC CONIC DISTANCE 410.587

RL 150.43 LAL .00 LOL 351.95 VL 27.177 GAL 5.46 AZL 60.24 HCA 173.15 SMA 129.37 ECC .18797 INC29.7562 V1 29.620
RP 107.61 LAP 3.39 LOP 165.99 VP 37.957 GAP -4.88 AZP 119.58 TAL 155.03 TAP 328.18 RCA 105.05 APO 153.68 V2 35.216
RC 52.701 GL 62.98 GP -77.63 ZAL 78.31 ZAP 79.86 ETS 136.71 ZAE 82.60 ETE 2.05 ZAC 109.20 ETC 213.26 CLP 34.71

PLANETOCENTRIC CONIC

C3 227.187 VHL 15.073 DLA 40.22 RAL 280.84 RAD 6571.3 VEL 18.668 PTH 3.06 VHP 19.126 DPA -60.30 RAP 73.12 ECC 4.7389

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
60.15	21 5 27	4701.71	-5.47	213.73	184.36	50.09	22 23 48	4101.7	-10.57	207.92
119.85	3 51 33	3446.71	-5.46	118.14	184.34	50.09	4 49 0	2846.7	-10.55	112.33
60.15	21 5 27	4701.71	-5.47	213.73	184.36	50.09	22 23 48	4101.7	-10.57	207.92
119.85	3 51 33	3446.71	-5.46	118.14	184.34	50.09	4 49 0	2846.7	-10.55	112.33
60.15	21 5 27	4701.71	-5.47	213.73	184.36	50.09	22 23 48	4101.7	-10.57	207.92
119.85	3 51 33	3446.71	-5.46	118.14	184.34	50.09	4 49 0	2846.7	-10.55	112.33

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE-7.5569 TRA-4.2299 TC3 -.1984 BAU .7662 SGT 3611.7 SGR 2748.9 SG3 103.9 ST 2941.3 SR 1916.9 SS 1533.7
RDE-4.7875 RRA-4.0292 RC3 -.1558 FAU-.02043 RRT .9803 RRF -.9914 RTF -.9971 CRT .9947 CRS .9975 CST .9995
FDE 2.3661 FRA 1.5316 FC3 .0778 BSP 14285 SGB 4538.8 R23 .0020 R13 -.9996 LSA 3827.6 MSA 165.1 SSA 1.6
BDE 8.9458 BRA 5.8418 BC3 .2523 FSP -338 SG1 4518.1 SG2 433.5 THA 37.13 EL1 3506.9 EL2 165.1 ALF 33.04

LAUNCH DATE SEP 15 1965 FLIGHT TIME 160.00 ARRIVAL DATE FEB 22 1966

HELIOCENTRIC CONIC DISTANCE 416.335

RL 150.43 LAL .00 LOL 351.95 VL 27.209 GAL 5.51 AZL 38.59 HCA 175.66 SMA 129.59 ECC .18669 INC51.4060 V1 29.620
RP 107.63 LAP 3.39 LOP 169.24 VP 37.973 GAP -4.56 AZP 141.33 TAL 154.55 TAP 330.21 RCA 105.39 APO 153.78 V2 35.208
RC 54.462 GL 58.27 GP -68.02 ZAL 82.89 ZAP 84.28 ETS 174.71 ZAE 69.03 ETE 39.21 ZAC 124.41 ETC 253.44 CLP 74.56

PLANETOCENTRIC CONIC

C3 619.416 VHL 24.888 DLA 34.89 RAL 273.56 RAD 6572.6 VEL 27.216 PTH 3.40 VHP 31.792 DPA -45.64 RAP 80.80 ECC11.194D

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
68.70	21 20 18	4676.86	-.82	208.15	182.40	55.11	22 38 15	4076.9	-5.38	201.99
111.30	2 38 34	3678.88	-.81	133.51	182.38	55.11	3 39 53	3078.9	-5.37	127.35
68.70	21 20 18	4676.86	-.82	208.15	182.40	55.11	22 38 15	4076.9	-5.38	201.99
111.30	2 38 34	3678.88	-.81	133.51	182.38	55.11	3 39 53	3078.9	-5.37	127.35
68.70	21 20 18	4676.86	-.82	208.15	182.40	55.11	22 38 15	4076.9	-5.38	201.99
111.30	2 38 34	3678.88	-.81	133.51	182.38	55.11	3 39 53	3078.9	-5.37	127.35

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE-6.2682 TRA-1.3188 TC3 -.1254 BAU 2.6364 SGT 1615.3 SGR 4114.9 SG3 78.1 ST 1447.4 SR 3140.3 SS 1892.0
RD-13.2963 RRA-8.3104 RC3 -.2926 FAU-.04920 RRT .9313 RRF -.9996 RTF -.9367 CRT .9891 CRS 1.0000 CST .9899
FDE 2.9201 FRA 1.7773 FC3 .0688 BSP 13548 SGB 4420.5 R23 -.0308 R13 -.9992 LSA 3936.6 MSA 196.9 SSA 1.8
BDE14.6997 BRA 8.4144 BC3 .3184 FSP -249 SG1 4385.9 SG2 552.1 THA 69.58 EL1 3452.3 EL2 194.1 ALF 65.41

LAUNCH DATE SEP 15 1965 FLIGHT TIME 162.00 ARRIVAL DATE FEB 24 1966

HELIOCENTRIC CONIC DISTANCE 428.251

RL 150.43 LAL .00 LOL 351.95 VL 27.238 GAL 4.48 AZL 171.03 HCA 183.42 SMA 129.78 ECC .17679 INC81.0266 V1 29.620
RP 107.66 LAP 3.38 LOP 172.48 VP 37.986 GAP -2.72 AZP 8.99 TAL 158.26 TAP 341.68 RCA 106.84 APO 152.73 V2 35.200
RC 56.291 GL -46.43 GP 51.75 ZAL 85.98 ZAP 87.64 ETS 188.47 ZAE 69.81 ETE 318.66 ZAC 113.76 ETC 102.62 CLP 86.19

PLANETOCENTRIC CONIC

C31370.346 VHL 37.018 DLA -69.84 RAL 265.56 RAD 6573.1 VEL 38.622 PTH 3.55 VHP 47.768 DPA 73.28 RAP 54.54 ECC23.5524

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
23.04	6 13 59	2449.64	-1.19	78.25	175.99	159.84	6 54 48	1849.6	6.31	75.90
156.96	16 41 6	697.14	-1.18	288.39	176.01	159.84	16 52 43	97.1	6.32	286.04
23.04	6 13 59	2449.64	-1.19	78.25	175.99	159.84	6 54 48	1849.6	6.31	75.90
156.96	16 41 6	697.14	-1.18	288.39	176.01	159.84	16 52 43	97.1	6.32	286.04
23.04	6 13 59	2449.64	-1.19	78.25	175.99	159.84	6 54 48	1849.6	6.31	75.90
156.96	16 41 6	697.14	-1.18	288.39	176.01	159.84	16 52 43	97.1	6.32	286.04

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE10.0617 TRA -.5046 TC3 -.1553 BAU 5.6546 SGT 1949.1 SGR 3367.6 SG3 72.7 ST 1559.2 SR 2284.3 SS 2483.0
RD-14.4391 RRA 3.4825 RC3 .2667 FAU-.10196 RRT -.9302 RRF .9984 RTF -.9465 CRT -.9867 CRS -.9997 CST .9906
FDE-3.8226 FRA .8023 FC3 .0644 BSP 11708 SGB 3891.0 R23 -.0424 R13 .9986 LSA 3710.5 MSA 215.2 SSA 2.9
BDE17.5990 BRA 3.5189 BC3 .3087 FSP -223 SG1 3840.1 SG2 627.4 THA 119.15 EL1 2757.7 EL2 210.0 ALF 124.18

LAUNCH DATE SEP 15 1965 FLIGHT TIME 164.00 ARRIVAL DATE FEB 26 1966

HELIOCENTRIC CONIC DISTANCE 432.926

RL 150.43 LAL .00 LOL 351.95 VL 27.262 GAL 4.74 AZL 131.63 HCA 185.05 SMA 129.95 ECC .17745 INC41.6318 V1 29.620
RP 107.69 LAP 3.35 LOP 175.72 VP 37.995 GAP -2.68 AZP 48.48 TAL 156.98 TAP 342.02 RCA 106.89 APO 153.01 V2 35.191
RC 58.184 GL -61.75 GP 74.02 ZAL 82.37 ZAP 85.78 ETS 206.76 ZAE 88.09 ETE 330.79 ZAC 91.22 ETC 116.55 CLP 74.51

PLANETOCENTRIC CONIC

C3 419.850 VHL 20.490 DLA -84.01 RAL 310.53 RAD 6572.2 VEL 23.263 PTH 3.28 VHP 26.453 DPA 77.57 RAP 313.63 ECC 7.9097

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
6.81	8 40 46	2406.03	3.54	85.79	220.14	174.00	9 20 52	1806.0	11.50	85.36
173.19	20 13 2	5886.90	3.54	257.73	220.16	174.00	21 51 8	5286.9	11.50	257.30
6.81	8 40 46	2406.03	3.54	85.79	220.14	174.00	9 20 52	1806.0	11.50	85.36
173.19	20 13 2	5886.90	3.54	257.73	220.16	174.00	21 51 8	5286.9	11.50	257.30
6.81	8 40 46	2406.03	3.54	85.79	220.14	174.00	9 20 52	1806.0	11.50	85.36
173.19	20 13 2	5886.90	3.54	257.73	220.16	174.00	21 51 8	5286.9	11.50	257.30

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE 5.1587 TRA-1.0239 TC3 -.2122 BAU 1.8344 SGT 3219.5 SGR 3552.9 SG3 90.6 ST 1661.0 SR 1184.1 SS 978.7
RDE-2.2443 RRA 1.2484 RC3 .2485 FAU-.03278 RRT -.9590 RRF .9916 RTF -.9872 CRT -.8807 CRS -.9629 CST .9759
FDE-1.1320 FRA .3586 FC3 .0676 BSP 14695 SGB 4794.6 R23 -.0007 R13 .9998 LSA 2212.7 MSA 472.2 SSA 1.3
BDE 5.6258 BRA 1.6146 BC3 .3268 FSP -282 SG1 4745.7 SG2 682.8 THA 132.06 EL1 1985.2 EL2 469.3 ALF 145.70

LAUNCH DATE SEP 15 1965 FLIGHT TIME 166.00 ARRIVAL DATE FEB 28 1966

HELIOCENTRIC CONIC DISTANCE 438.849

RL 150.43 LAL .00 LOL 351.95 VL 27.284 GAL 4.79 AZL 115.36 HCA 187.75 SMA 130.10 ECC .17669 INC25.3594 VI 29.620
RP 107.72 LAP 3.31 LOP 178.96 VP 38.001 GAP -2.34 AZP 64.84 TAL 156.58 TAP 344.33 RCA 107.12 APO 153.09 V2 35.181
RC 60.133 GL -63.73 GP 83.11 ZAL 77.79 ZAP 84.07 ETS 253.13 ZAE 98.38 ETE 14.04 ZAC 79.72 ETC 158.54 CLP 30.69

PLANETOCENTRIC CONIC

C3 168.619 VHL 12.985 DLA -80.99 RAL 351.36 RAD 6570.8 VEL 17.028 PTH 2.93 VHP 16.703 DPA 67.31 RAP 294.72 ECC 3.7750

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
10.25	11 30 17	2283.91	11.51	83.16	259.50	170.80	12 8 21	1683.9	19.41	82.22
169.75	22 49 18	5771.13	11.52	258.40	259.52	170.80	24 25 29	5171.1	19.41	257.46
10.25	11 30 17	2283.91	11.51	83.16	259.50	170.80	12 8 21	1683.9	19.41	82.22
169.75	22 49 18	5771.13	11.52	258.40	259.52	170.80	24 25 29	5171.1	19.41	257.46
10.25	11 30 17	2283.91	11.51	83.16	259.50	170.80	12 8 21	1683.9	19.41	82.22
169.75	22 49 18	5771.13	11.52	258.40	259.52	170.80	24 25 29	5171.1	19.41	257.46

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE-4.1248 TRA-1.6356 TC3 -.2320 BAU .5379 SGT 4988.8 SGR 685.4 SG3 127.0 ST 2285.1 SR 667.4 SS 998.3
RDE 1.5121 RRA .0212 RC3 .0559 FAU-.01054 RRT -.4613 RRF .4718 RTF -.9995 CRT -.8125 CRS -.8258 CST .9997
FDE 1.2704 FRA .4798 FC3 .0541 BSP 15603 SGB 5035.6 R23 -.0043 R13 .9996 LSA 2553.5 MSA 378.6 SSA 1.7
BDE 4.3932 BRA 1.6357 BC3 .2386 FSP -399 SG1 4998.9 SG2 606.9 THA 176.32 EL1 2350.4 EL2 378.3 ALF 166.29

LAUNCH DATE SEP 15 1965 FLIGHT TIME 168.00 ARRIVAL DATE MAR 2 1966

HELIOCENTRIC CONIC DISTANCE 445.094

RL 150.43 LAL .00 LOL 351.95 VL 27.302 GAL 4.79 AZL 107.78 HCA 190.76 SMA 130.23 ECC .17573 INC17.7757 VI 29.620
RP 107.75 LAP 3.27 LOP 182.20 VP 38.005 GAP -1.91 AZP 72.52 TAL 156.39 TAP 347.15 RCA 107.34 APO 153.11 V2 35.171
RC 62.133 GL -60.93 GP 81.97 ZAL 73.18 ZAP 83.11 ETS 296.66 ZAE 105.04 ETE 55.01 ZAC 72.62 ETC 197.54 CLP -30.92

PLANETOCENTRIC CONIC

C3 90.300 VHL 9.503 DLA -76.36 RAL 349.25 RAD 6569.8 VEL 14.548 PTH 2.64 VHP 12.113 DPA 60.15 RAP 291.11 ECC 2.4861

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
15.54	11 32 18	2153.61	19.43	78.03	254.33	165.51	12 8 12	1553.6	27.16	76.21
164.46	22 30 28	5655.91	19.43	258.43	254.35	165.51	24 4 44	5055.9	27.16	256.60
15.54	11 32 18	2153.61	19.43	78.03	254.33	165.51	12 8 12	1553.6	27.16	76.21
164.46	22 30 28	5655.91	19.43	258.43	254.35	165.51	24 4 44	5055.9	27.16	256.60
15.54	11 32 18	2153.61	19.43	78.03	254.33	165.51	12 8 12	1553.6	27.16	76.21
164.46	22 30 28	5655.91	19.43	258.43	254.35	165.51	24 4 44	5055.9	27.16	256.60

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE-2.8209 TRA-1.3588 TC3 -.1200 BAU .1486 SGT 3873.9 SGR 3333.0 SG3 180.8 ST 1994.6 SR 1265.4 SS 1008.0
RDE-1.3486 RRA-1.2644 RC3 .0272 FAU .00099 RRT .9755 RRF -.9918 RTF -.9945 CRT .9482 CRS .9756 CST .9948
FDE 1.2702 FRA .7616 FC3 -.0094 BSP 16000 SGB 5110.4 R23 -.0045 R13 -.9993 LSA 2545.2 MSA 343.3 SSA 2.4
BDE 3.1267 BRA 1.8561 BC3 .1231 FSP -575 SG1 5079.7 SG2 558.9 THA 40.60 EL1 2337.1 EL2 343.1 ALF 31.79

LAUNCH DATE SEP 15 1965 FLIGHT TIME 170.00 ARRIVAL DATE MAR 4 1966

HELIOCENTRIC CONIC DISTANCE 451.438

RL 150.43 LAL .00 LOL 351.95 VL 27.317 GAL 4.79 AZL 103.51 HCA 193.86 SMA 130.33 ECC .17488 INC13.5145 VI 29.620
RP 107.78 LAP 3.21 LOP 185.43 VP 38.006 GAP -1.47 AZP 76.86 TAL 156.26 TAP 350.12 RCA 107.54 APO 153.13 V2 35.160
RC 64.180 GL -56.70 GP 77.73 ZAL 68.83 ZAP 83.00 ETS 317.99 ZAE 110.00 ETE 74.17 ZAC 67.30 ETC 214.38 CLP -55.03

PLANETOCENTRIC CONIC

C3 57.934 VHL 7.611 DLA -71.78 RAL 343.34 RAD 6569.1 VEL 13.390 PTH 2.45 VHP 9.566 DPA 54.66 RAP 289.56 ECC 1.9535

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
20.81	11 19 28	2038.83	25.63	71.63	244.24	159.71	11 53 27	1438.8	33.09	68.75
159.19	21 56 6	5562.89	25.63	257.34	244.26	159.71	23 28 49	4962.9	33.10	254.46
20.81	11 19 28	2038.83	25.63	71.63	244.24	159.71	11 53 27	1438.8	33.09	68.75
159.19	21 56 6	5562.89	25.63	257.34	244.26	159.71	23 28 49	4962.9	33.10	254.46
20.81	11 19 28	2038.83	25.63	71.63	244.24	159.71	11 53 27	1438.8	33.09	68.75
159.19	21 56 6	5562.89	25.63	257.34	244.26	159.71	23 28 49	4962.9	33.10	254.46

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE-1.4976 TRA -.9048 TC3 -.0773 BAU .1607 SGT 2455.3 SGR 4510.2 SG3 248.9 ST 1303.0 SR 1656.5 SS 976.6
RDE-1.3363 RRA-1.8223 RC3 .1926 FAU .01028 RRT .9621 RRF -.9971 RTF -.9759 CRT .9238 CRS .9891 CST .9700
FDE 1.1263 FRA 1.1397 FC3 -.1536 BSP 16163 SGB 5135.2 R23 -.0007 R13 -.9990 LSA 2288.2 MSA 399.4 SSA 3.2
BDE 2.0071 BRA 2.0346 BC3 .2075 FSP -797 SG1 5100.9 SG2 592.1 THA 61.95 EL1 2069.4 EL2 399.4 ALF 52.35

LAUNCH DATE SEP 15 1965 FLIGHT TIME 172.00 ARRIVAL DATE MAR 6 1966

HELIOCENTRIC CONIC DISTANCE 457.814

RL 150.43 LAL .00 LOL 351.95 VL 27.329 GAL 4.79 AZL 100.80 HCA 197.01 SMA 130.42 ECC .17421 INC10.7987 VI 29.620
RP 107.81 LAP 3.14 LOP 188.67 VP 38.004 GAP -1.02 AZP 79.66 TAL 156.14 TAP 353.15 RCA 107.70 APO 153.14 V2 35.149
RC 66.268 GL -52.11 GP 73.64 ZAL 64.83 ZAP 83.71 ETS 330.55 ZAE 113.96 ETE 85.02 ZAC 62.85 ETC 222.65 CLP -67.12

PLANETOCENTRIC CONIC

C3 41.803 VHL 6.466 DLA -67.26 RAL 338.26 RAD 6568.6 VEL 12.774 PTH 2.32 VHP 7.979 DPA 50.09 RAP 288.36 ECC 1.6880

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
26.04	11 10 31	1942.92	29.82	64.39	234.35	153.55	11 42 54	1342.9	36.91	60.36
153.96	21 24 31	5496.11	29.83	255.64	234.37	153.54	22 56 7	4896.1	36.91	251.61
26.04	11 10 31	1942.92	29.82	64.39	234.35	153.55	11 42 54	1342.9	36.91	60.36
153.96	21 24 31	5496.11	29.83	255.64	234.37	153.54	22 56 7	4896.1	36.91	251.61
26.04	11 10 31	1942.92	29.82	64.39	234.35	153.55	11 42 54	1342.9	36.91	60.36
153.96	21 24 31	5496.11	29.83	255.64	234.37	153.54	22 56 7	4896.1	36.91	251.61

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.8976 TRA -.5408 TC3 -.1116 BAU .2366 SGT 1480.2 SGR 4919.9 SG3 328.2 ST 878.1 SR 1696.7 SS 981.1
RDE-1.0073 RRA-2.0976 RC3 .4084 FAU .01904 RRT .9059 RRF -.9979 RTF -.9209 CRT .8368 CRS .9905 CST .9039
FDE 1.0242 FRA 1.5934 FC3 -.3944 BSP 16185 SGB 5137.7 R23 .0073 R13 -.9986 LSA 2102.2 MSA 439.4 SSA 4.1
BDE 1.3492 BRA 2.1662 BC3 .4234 FSP -1055 SG1 5102.0 SG2 604.5 THA 74.53 EL1 1859.4 EL2 438.8 ALF 65.10

LAUNCH DATE SEP 15 1965 FLIGHT TIME 174.00 ARRIVAL DATE MAR 8 1966

HELIOCENTRIC CONIC DISTANCE 464.196

RL 150.43 LAL .00 LOL 351.95 VL 27.339 GAL 4.80 AZL 98.91 HCA 200.18 SMA 130.49 ECC .17377 INC 8.9143 V1 29.620
RP 107.85 LAP 3.06 LOP 191.90 VP 38.001 GAP -.56 AZP 81.62 TAL 156.01 TAP 356.18 RCA 107.81 APO 153.16 V2 35.138
RC 68.394 GL -47.57 GP 69.90 ZAL 61.20 ZAP 85.17 ETS 339.79 ZAE 117.22 ETE 93.09 ZAC 58.84 ETC 227.87 CLP -75.82

PLANETOCENTRIC CONIC

C3 32.714 VHL 5.720 DLA -62.89 RAL 334.32 RAD 6568.3 VEL 12.413 PTH 2.24 VHP 6.913 DPA 46.07 RAP 287.14 ECC 1.5384

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
31.18	11 6 40	1862.65	32.25	56.81	225.46	147.39	11 37 42	1262.6	38.88	51.70
148.82	20 57 1	5452.56	32.26	253.83	225.48	147.39	22 27 53	4852.6	38.88	248.72
31.18	11 6 40	1862.65	32.25	56.81	225.46	147.39	11 37 42	1262.6	38.88	51.70
148.82	20 57 1	5452.56	32.26	253.83	225.48	147.39	22 27 53	4852.6	38.88	248.72
31.18	11 6 40	1862.65	32.25	56.81	225.46	147.39	11 37 42	1262.6	38.88	51.70
148.82	20 57 1	5452.56	32.26	253.83	225.48	147.39	22 27 53	4852.6	38.88	248.72

DIFFERENTIAL CORRECTIONS

TDE -.5906 TRA -.2121 TC3 -.2069 BAU .2888
RDE -.7675 RRA-2.2531 RC3 .6270 FAU .02764
FDE .9810 FRA 2.1028 FC3 -.7315 BSP 16142
BDE .9685 BRA 2.2631 BC3 .6603 FSP -1339

MID-COURSE EXECUTION ACCURACY

SGT 789.5 SGR 5062.9 SG3 414.6
RRT .6489 RRF -.9980 RTF -.6698
SGB 5124.1 R23 .0173 R13 -.9982
SG1 5089.1 SG2 597.6 THA 84.14

ORBIT DETERMINATION ACCURACY

ST 608.0 SR 1673.0 SS 1015.2
CRT .6513 CRS .9904 CST .7501
LSA 1998.6 MSA 452.4 SSA 4.9
EL1 1722.8 EL2 448.0 ALF 75.70

LAUNCH DATE SEP 15 1965 FLIGHT TIME 176.00 ARRIVAL DATE MAR 10 1966

HELIOCENTRIC CONIC DISTANCE 470.572

RL 150.43 LAL .00 LOL 351.95 VL 27.346 GAL 4.82 AZL 97.53 HCA 203.36 SMA 130.54 ECC .17355 INC 7.5255 V1 29.620
RP 107.89 LAP 2.98 LOP 195.13 VP 37.995 GAP -.12 AZP 83.09 TAL 155.85 TAP 359.21 RCA 107.88 APO 153.19 V2 35.126
RC 70.553 GL -43.23 GP 66.42 ZAL 57.95 ZAP 87.29 ETS 347.40 ZAE 119.91 ETE 100.15 ZAC 55.08 ETC 231.83 CLP -83.22

PLANETOCENTRIC CONIC

C3 27.153 VHL 5.211 DLA -58.72 RAL 331.31 RAD 6568.1 VEL 12.187 PTH 2.19 VHP 6.161 DPA 42.37 RAP 285.81 ECC 1.4469

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
36.15	11 6 58	1793.83	33.33	49.30	217.74	141.57	11 36 52	1193.8	39.44	43.28
143.85	20 32 40	5428.04	33.34	252.32	217.76	141.57	22 3 8	4828.0	39.45	246.31
36.15	11 6 58	1793.83	33.33	49.30	217.74	141.57	11 36 52	1193.8	39.44	43.28
143.85	20 32 40	5428.04	33.34	252.32	217.76	141.57	22 3 8	4828.0	39.45	246.31
36.15	11 6 58	1793.83	33.33	49.30	217.74	141.57	11 36 52	1193.8	39.44	43.28
143.85	20 32 40	5428.04	33.34	252.32	217.76	141.57	22 3 8	4828.0	39.45	246.31

DIFFERENTIAL CORRECTIONS

TDE -.4060 TRA .1078 TC3 -.3547 BAU .3258
RDE -.6179 RRA-2.3340 RC3 .8244 FAU .03604
FDE .9910 FRA 2.6452 FC3-1.1490 BSP 16098
BDE .7394 BRA 2.3365 BC3 .8575 FSP -1638

MID-COURSE EXECUTION ACCURACY

SGT 622.9 SGR 5062.0 SG3 503.7
RRT -.3623 RRF -.9979 RTF .3400
SGB 5100.2 R23 .0283 R13 -.9977
SG1 5067.1 SG2 580.0 THA 92.59

ORBIT DETERMINATION ACCURACY

ST 451.8 SR 1631.1 SS 1066.2
CRT .2734 CRS .9894 CST .4100
LSA 1949.8 MSA 446.8 SSA 5.8
EL1 1636.1 EL2 433.3 ALF 85.34

LAUNCH DATE SEP 15 1965 FLIGHT TIME 178.00 ARRIVAL DATE MAR 12 1966

HELIOCENTRIC CONIC DISTANCE 476.934

RL 150.43 LAL .00 LOL 351.95 VL 27.351 GAL 4.86 AZL 96.45 HCA 206.55 SMA 130.57 ECC .17356 INC 6.4545 V1 29.620
RP 107.92 LAP 2.88 LOP 198.35 VP 37.987 GAP .33 AZP 84.22 TAL 155.67 TAP 2.22 RCA 107.91 APO 153.24 V2 35.114
RC 72.741 GL -39.14 GP 63.09 ZAL 55.03 ZAP 89.98 ETS 353.99 ZAE 122.12 ETE 106.81 ZAC 51.45 ETC 235.13 CLP -89.97

PLANETOCENTRIC CONIC

C3 23.556 VHL 4.853 DLA -54.78 RAL 328.98 RAD 6568.0 VEL 12.039 PTH 2.15 VHP 5.616 DPA 38.89 RAP 284.38 ECC 1.3877

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
40.93	11 10 39	1732.59	33.42	42.08	211.20	136.29	11 39 31	1132.6	39.01	35.39
139.07	20 10 24	5419.20	33.44	251.39	211.21	136.28	21 40 43	4819.2	39.02	244.70
40.93	11 10 39	1732.59	33.42	42.08	211.20	136.29	11 39 31	1132.6	39.01	35.39
139.07	20 10 24	5419.20	33.44	251.39	211.21	136.28	21 40 43	4819.2	39.02	244.70
40.93	11 10 39	1732.59	33.42	42.08	211.20	136.29	11 39 31	1132.6	39.01	35.39
139.07	20 10 24	5419.20	33.44	251.39	211.21	136.28	21 40 43	4819.2	39.02	244.70

DIFFERENTIAL CORRECTIONS

TDE -.2761 TRA .4258 TC3 -.5467 BAU .3523
RDE -.5314 RRA-2.3645 RC3 .9759 FAU .04367
FDE 1.0516 FRA 3.2045 FC3-1.6049 BSP 15929
BDE .5989 BRA 2.4025 BC3 1.1186 FSP -1923

MID-COURSE EXECUTION ACCURACY

SGT 1071.2 SGR 4971.1 SG3 592.2
RRT -.8481 RRF -.9977 RTF .8360
SGB 5085.2 R23 .0395 R13 -.9971
SG1 5054.5 SG2 558.2 THA 100.49

ORBIT DETERMINATION ACCURACY

ST 418.1 SR 1581.9 SS 1129.1
CRT -.2655 CRS .9880 CST -.1137
LSA 1940.5 MSA 431.9 SSA 6.6
EL1 1586.0 EL2 402.1 ALF 94.29

LAUNCH DATE SEP 15 1965 FLIGHT TIME 180.00 ARRIVAL DATE MAR 14 1966

HELIOCENTRIC CONIC DISTANCE 483.279

RL 150.43 LAL .00 LOL 351.95 VL 27.354 GAL 4.90 AZL 95.60 HCA 209.74 SMA 130.59 ECC .17380 INC 5.5993 V1 29.620
RP 107.96 LAP 2.77 LOP 201.57 VP 37.978 GAP .77 AZP 85.13 TAL 155.45 TAP 5.20 RCA 107.90 APO 153.29 V2 35.101
RC 74.954 GL -35.33 GP 59.84 ZAL 52.43 ZAP 93.14 ETS 359.80 ZAE 123.88 ETE 113.26 ZAC 47.89 ETC 238.02 CLP -96.26

PLANETOCENTRIC CONIC

C3 21.147 VHL 4.599 DLA -51.08 RAL 327.16 RAD 6567.9 VEL 11.938 PTH 2.12 VHP 5.216 DPA 35.53 RAP 282.89 ECC 1.3480

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
45.53	11 17 4	1676.03	32.83	35.26	205.74	131.61	11 45 0	1076.0	37.92	28.10
134.47	19 49 26	5423.45	32.84	251.17	205.75	131.60	21 19 49	4823.4	37.93	244.01
45.53	11 17 4	1676.03	32.83	35.26	205.74	131.61	11 45 0	1076.0	37.92	28.10
134.47	19 49 26	5423.45	32.84	251.17	205.75	131.60	21 19 49	4823.4	37.93	244.01
45.53	11 17 4	1676.03	32.83	35.26	205.74	131.61	11 45 0	1076.0	37.92	28.10
134.47	19 49 26	5423.45	32.84	251.17	205.75	131.60	21 19 49	4823.4	37.93	244.01

DIFFERENTIAL CORRECTIONS

TDE -.1697 TRA .7413 TC3 -.7683 BAU .3763
RDE -.4747 RRA-2.3461 RC3 1.0871 FAU .05081
FDE 1.1409 FRA 3.7444 FC3-2.0801 BSP 15888
BDE .5042 BRA 2.4605 BC3 1.3312 FSP -2206

MID-COURSE EXECUTION ACCURACY

SGT 1644.8 SGR 4795.8 SG3 673.9
RRT -.9409 RRF -.9974 RTF .9330
SGB 5070.1 R23 .0504 R13 -.9963
SG1 5042.3 SG2 529.8 THA 108.09

ORBIT DETERMINATION ACCURACY

ST 489.6 SR 1516.4 SS 1191.3
CRT -.6618 CRS .9861 CST -.5280
LSA 1946.2 MSA 412.7 SSA 7.4
EL1 1552.6 EL2 358.5 ALF 102.75

LAUNCH DATE SEP 15 1965 FLIGHT TIME 182.00 ARRIVAL DATE MAR 16 1966

HELIOCENTRIC CONIC DISTANCE 489.606

RL 150.43 LAL .00 LOL 351.95 VL 27.354 GAL 4.96 AZL 94.90 HCA 212.94 SMA 130.60 ECC .17427 INC 4.8968 VI 29.620
RP 108.00 LAP 2.66 LOP 204.79 VP 37.967 GAP 1.21 AZP 85.89 TAL 155.21 TAP 8.15 RCA 107.84 APO 153.36 V2 35.089
RC 77.191 GL -31.78 GP 56.64 ZAL 50.11 ZAP 96.67 ETS 4.91 ZAE 125.21 ETE 119.54 ZAC 44.39 ETC 240.55 CLP-102.19

PLANETOCENTRIC CONIC

C3 19.506 VHL 4.417 DLA -47.62 RAL 325.72 RAD 6567.8 VEL 11.870 PTH 2.11 VHP 4.924 DPA 32.25 RAP 281.40 ECC 1.3210

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
49.96	11 25 54	1621.76	31.79	28.80	201.27	127.54	11 52 55	1021.8	36.43	21.33
130.04	19 29 6	5439.15	31.80	251.73	201.28	127.53	20 59 45	4839.2	36.43	244.26
49.96	11 25 54	1621.76	31.79	28.80	201.27	127.54	11 52 55	1021.8	36.43	21.33
130.04	19 29 6	5439.15	31.80	251.73	201.28	127.53	20 59 45	4839.2	36.43	244.26
49.96	11 25 54	1621.76	31.79	28.80	201.27	127.54	11 52 55	1021.8	36.43	21.33
130.04	19 29 6	5439.15	31.80	251.73	201.28	127.53	20 59 45	4839.2	36.43	244.26

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.0732 TRA 1.0512 TC3-1.0073 BAU .3980 SGT 2212.5 SGR 4563.1 SG3 745.4 ST 615.0 SR 1440.6 SS 1252.5
RDE -.4372 RRA-2.2926 RC3 1.1467 FAU .05685 RRT -.9684 RRF -.9971 RTF .9623 CRT -.8472 CRS .9836 CST -.7379
FDE 1.2545 FRA 4.2466 FC3-2.5231 BSP 15869 SGB 5071.1 R23 .0599 R13 -.9954 LSA 1966.7 MSA 392.9 SSA 8.1
BDE .4433 BRA 2.5222 BC3 1.5263 FSP -2460 SG1 5046.5 SG2 498.9 THA 115.42 EL1 1536.1 EL2 306.4 ALF 110.75

LAUNCH DATE SEP 15 1965 FLIGHT TIME 184.00 ARRIVAL DATE MAR 18 1966

HELIOCENTRIC CONIC DISTANCE 495.911

RL 150.43 LAL .00 LOL 351.95 VL 27.353 GAL 5.04 AZL 94.31 HCA 216.14 SMA 130.59 ECC .17496 INC 4.3063 VI 29.620
RP 108.04 LAP 2.54 LOP 208.01 VP 37.954 GAP 1.64 AZP 86.52 TAL 154.92 TAP 11.06 RCA 107.74 APO 153.44 V2 35.076
RC 79.446 GL -28.50 GP 53.48 ZAL 48.03 ZAP 100.45 ETS 9.38 ZAE 126.13 ETE 125.60 ZAC 40.96 ETC 242.74 CLP-107.75

PLANETOCENTRIC CONIC

C3 18.390 VHL 4.288 DLA -44.40 RAL 324.57 RAD 6567.7 VEL 11.823 PTH 2.09 VHP 4.717 DPA 29.05 RAP 279.97 ECC 1.3027

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
54.26	11 37 3	1567.68	30.46	22.61	197.64	124.01	12 3 10	967.7	34.69	14.96
125.74	19 8 49	5465.49	30.47	253.08	197.65	124.00	20 39 55	4865.5	34.70	245.43
54.26	11 37 3	1567.68	30.46	22.61	197.64	124.01	12 3 10	967.7	34.69	14.96
125.74	19 8 49	5465.49	30.47	253.08	197.65	124.00	20 39 55	4865.5	34.70	245.43
54.26	11 37 3	1567.68	30.46	22.61	197.64	124.01	12 3 10	967.7	34.69	14.96
125.74	19 8 49	5465.49	30.47	253.08	197.65	124.00	20 39 55	4865.5	34.70	245.43

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE .0202 TRA 1.3519 TC3-1.2499 BAU .4192 SGT 2746.0 SGR 4287.5 SG3 803.2 ST 759.6 SR 1355.5 SS 1309.2
RDE -.4086 RRA-2.2111 RC3 1.1597 FAU .06163 RRT -.9796 RRF -.9966 RTF .9744 CRT -.9289 CRS .9806 CST -.8386
FDE 1.3804 FRA 4.6872 FC3-2.9013 BSP 15909 SGB 5091.5 R23 .0672 R13 -.9944 LSA 1997.0 MSA 374.4 SSA 8.8
BDE .4091 BRA 2.5917 BC3 1.7051 FSP -2674 SG1 5070.0 SG2 466.7 THA 122.41 EL1 1533.8 EL2 248.5 ALF 118.31

LAUNCH DATE SEP 15 1965 FLIGHT TIME 186.00 ARRIVAL DATE MAR 20 1966

HELIOCENTRIC CONIC DISTANCE 502.194

RL 150.43 LAL .00 LOL 351.95 VL 27.350 GAL 5.12 AZL 93.80 HCA 219.34 SMA 130.57 ECC .17587 INC 3.8000 VI 29.620
RP 108.08 LAP 2.41 LOP 211.22 VP 37.940 GAP 2.07 AZP 87.06 TAL 154.61 TAP 13.95 RCA 107.60 APO 153.53 V2 35.063
RC 81.719 GL -25.45 GP 50.36 ZAL 46.18 ZAP 104.41 ETS 13.26 ZAE 126.67 ETE 131.35 ZAC 37.61 ETC 244.55 CLP-112.95

PLANETOCENTRIC CONIC

C3 17.655 VHL 4.202 DLA -41.38 RAL 323.67 RAD 6567.7 VEL 11.791 PTH 2.08 VHP 4.577 DPA 25.91 RAP 278.64 ECC 1.2906

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
58.46	11 50 37	1511.74	28.96	16.54	194.75	120.96	12 15 49	911.7	32.83	8.80
121.54	18 48 0	5502.39	28.97	255.25	194.76	120.95	20 19 43	4902.4	32.84	247.50
58.46	11 50 37	1511.74	28.96	16.54	194.75	120.96	12 15 49	911.7	32.83	8.80
121.54	18 48 0	5502.39	28.97	255.25	194.76	120.95	20 19 43	4902.4	32.84	247.50
58.46	11 50 37	1511.74	28.96	16.54	194.75	120.96	12 15 49	911.7	32.83	8.80
121.54	18 48 0	5502.39	28.97	255.25	194.76	120.95	20 19 43	4902.4	32.84	247.50

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE .1142 TRA 1.6419 TC3-1.4833 BAU .4405 SGT 3237.7 SGR 3986.6 SG3 845.2 ST 909.4 SR 1264.2 SS 1359.7
RDE -.3831 RRA-2.1106 RC3 1.1324 FAU .06498 RRT -.9850 RRF -.9960 RTF .9805 CRT -.9678 CRS .9769 CST -.8919
FDE 1.5084 FRA 5.0516 FC3-3.1867 BSP 16018 SGB 5135.7 R23 .0715 R13 -.9934 LSA 2036.1 MSA 357.8 SSA 9.5
BDE .3998 BRA 2.6740 BC3 1.8661 FSP -2840 SG1 5117.3 SG2 434.7 THA 128.99 EL1 1546.0 EL2 187.2 ALF 125.44

LAUNCH DATE SEP 15 1965 FLIGHT TIME 188.00 ARRIVAL DATE MAR 22 1966

HELIOCENTRIC CONIC DISTANCE 508.453

RL 150.43 LAL .00 LOL 351.95 VL 27.346 GAL 5.23 AZL 93.36 HCA 222.54 SMA 130.54 ECC .17702 INC 3.3588 VI 29.620
RP 108.12 LAP 2.27 LOP 214.43 VP 37.924 GAP 2.50 AZP 87.52 TAL 154.25 TAP 16.79 RCA 107.43 APO 153.64 V2 35.050
RC 84.008 GL -22.62 GP 47.31 ZAL 44.51 ZAP 108.43 ETS 16.59 ZAE 126.86 ETE 136.71 ZAC 34.37 ETC 245.94 CLP-117.80

PLANETOCENTRIC CONIC

C3 17.206 VHL 4.148 DLA -38.57 RAL 322.95 RAD 6567.7 VEL 11.772 PTH 2.08 VHP 4.493 DPA 22.86 RAP 277.46 ECC 1.2832

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
62.63	12 6 55	1451.72	27.36	10.43	192.48	118.32	12 31 7	851.7	30.91	2.64
117.37	18 26 0	5550.49	27.37	258.29	192.48	118.31	19 58 30	4950.5	30.93	250.49
62.63	12 6 55	1451.72	27.36	10.43	192.48	118.32	12 31 7	851.7	30.91	2.64
117.37	18 26 0	5550.49	27.37	258.29	192.48	118.31	19 58 30	4950.5	30.93	250.49
62.63	12 6 55	1451.72	27.36	10.43	192.48	118.32	12 31 7	851.7	30.91	2.64
117.37	18 26 0	5550.49	27.37	258.29	192.48	118.31	19 58 30	4950.5	30.93	250.49

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE .2114 TRA 1.9212 TC3-1.6950 BAU .4609 SGT 3685.7 SGR 3677.0 SG3 871.2 ST 1060.2 SR 1171.2 SS 1405.2
RDE -.3598 RRA-2.0002 RC3 1.0683 FAU .06656 RRT -.9878 RRF -.9951 RTF .9838 CRT -.9872 CRS .9724 CST -.9230
FDE 1.6351 FRA 5.3351 FC3-3.3491 BSP 16146 SGB 5206.2 R23 .0725 R13 -.9925 LSA 2086.1 MSA 343.9 SSA 10.2
BDE .4173 BRA 2.7734 BC3 2.0036 FSP -2939 SG1 5190.2 SG2 407.3 THA 135.07 EL1 1574.7 EL2 125.6 ALF 132.12

LAUNCH DATE SEP 15 1965 FLIGHT TIME 190.00 ARRIVAL DATE MAR 24 1966

HELIOCENTRIC CONIC DISTANCE 514.688

RL 150.43 LAL .00 LOL 351.95 VL 27.339 GAL 5.35 AZL 92.97 HCA 225.73 SMA 130.49 ECC .17839 INC 2.9685 V1 29.620
RP 108.16 LAP 2.13 LOP 217.64 VP 37.907 GAP 2.93 AZP 87.93 TAL 153.86 TAP 19.60 RCA 107.21 APO 153.77 V2 35.036
RC 86.309 GL -20.00 GP 44.35 ZAL 43.01 ZAP 112.45 ETS 19.43 ZAE 126.75 ETE 141.62 ZAC 31.29 ETC 246.86 CLP-122.29

PLANETOCENTRIC CONIC

C3 16.985 VHL 4.121 DLA -35.95 RAL 322.39 RAD 6567.7 VEL 11.763 PTH 2.08 VHP 4.456 DPA 19.91 RAP 276.47 ECC 1.2795

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
66.87	12 26 35	1384.57	25.73	4.04	190.73	116.02	12 49 39	784.6	29.00	356.23
113.13	18 1 53	5611.67	25.74	262.33	190.74	116.01	19 35 25	5011.7	29.02	254.52
66.87	12 26 35	1384.57	25.73	4.04	190.73	116.02	12 49 39	784.6	29.00	356.23
113.13	18 1 53	5611.67	25.74	262.33	190.74	116.01	19 35 25	5011.7	29.02	254.52
66.87	12 26 35	1384.57	25.73	4.04	190.73	116.02	12 49 39	784.6	29.00	356.23
113.13	18 1 53	5611.67	25.74	262.33	190.74	116.01	19 35 25	5011.7	29.02	254.52

DIFFERENTIAL CORRECTIONS
TDE .3094 TRA 2.1870 TC3-1.8833 BAU .4831
RDE -.3323 RRA-1.8817 RC3 .9897 FAU .06707
FDE 1.7403 FRA 5.5239 FC3-3.4186 BSP 16436
BDE .4541 BRA 2.8851 BC3 2.1276 FSP -3002

MID-COURSE EXECUTION ACCURACY
SGT 4086.6 SGR 3364.7 SG3 880.2
RRT -.9892 RRF -.9940 RTF .9859
SGB 5293.5 R23 .0693 R13 -.9917
SG1 5279.7 SG2 381.9 THA 140.59

ORBIT DETERMINATION ACCURACY
ST 1206.9 SR 1074.2 SS 1438.5
CRT -.9967 CRS .9664 CST -.9427
LSA 2137.7 MSA 332.0 SSA 10.9
EL1 1614.4 EL2 65.4 ALF 138.34

LAUNCH DATE SEP 15 1965 FLIGHT TIME 192.00 ARRIVAL DATE MAR 26 1966

HELIOCENTRIC CONIC DISTANCE 520.898

RL 150.43 LAL .00 LOL 351.95 VL 27.332 GAL 5.48 AZL 92.62 HCA 228.93 SMA 130.44 ECC .17998 INC 2.6187 V1 29.620
RP 108.20 LAP 1.97 LOP 220.84 VP 37.890 GAP 3.36 AZP 88.28 TAL 153.44 TAP 22.37 RCA 106.96 APO 153.91 V2 35.023
RC 88.623 GL -17.57 GP 41.52 ZAL 41.65 ZAP 116.41 ETS 21.84 ZAE 126.40 ETE 146.03 ZAC 28.38 ETC 247.24 CLP-126.44

PLANETOCENTRIC CONIC

C3 16.953 VHL 4.117 DLA -33.50 RAL 321.97 RAD 6567.7 VEL 11.762 PTH 2.08 VHP 4.460 DPA 17.09 RAP 275.68 ECC 1.2790

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
71.31	12 50 54	1305.37	24.10	356.97	189.43	114.00	13 12 39	705.4	27.13	349.18
108.69	17 34 11	5690.00	24.11	267.64	189.44	113.99	19 9 1	5090.0	27.14	259.85
71.31	12 50 54	1305.37	24.10	356.97	189.43	114.00	13 12 39	705.4	27.13	349.18
108.69	17 34 11	5690.00	24.11	267.64	189.44	113.99	19 9 1	5090.0	27.14	259.85
110.00	16 50 17	5824.51	19.72	275.76	187.11	118.50	18 27 21	5224.5	23.37	268.52
110.00	18 33 59	5506.90	28.64	255.43	191.45	109.52	20 5 46	4906.9	31.02	247.05

DIFFERENTIAL CORRECTIONS
TDE .4106 TRA 2.4426 TC3-2.0400 BAU .5051
RDE -.3038 RRA-1.7640 RC3 .8970 FAU .06620
FDE 1.8289 FRA 5.6319 FC3-3.3807 BSP 16779
BDE .5108 BRA 3.0130 BC3 2.2285 FSP -3013

MID-COURSE EXECUTION ACCURACY
SGT 4445.4 SGR 3064.2 SG3 874.9
RRT -.9896 RRF -.9925 RTF .9871
SGB 5399.1 R23 .0629 R13 -.9911
SG1 5386.9 SG2 363.1 THA 145.52

ORBIT DETERMINATION ACCURACY
ST 1350.6 SR 979.3 SS 1463.9
CRT -.9998 CRS .9589 CST -.9561
LSA 2196.0 MSA 322.4 SSA 11.4
EL1 1668.3 EL2 13.8 ALF 144.06

LAUNCH DATE SEP 15 1965 FLIGHT TIME 194.00 ARRIVAL DATE MAR 28 1966

HELIOCENTRIC CONIC DISTANCE 527.082

RL 150.43 LAL .00 LOL 351.95 VL 27.323 GAL 5.63 AZL 92.30 HCA 232.12 SMA 130.37 ECC .18181 INC 2.3016 V1 29.620
RP 108.24 LAP 1.82 LOP 224.05 VP 37.871 GAP 3.79 AZP 88.59 TAL 152.98 TAP 25.10 RCA 106.67 APO 154.08 V2 35.010
RC 90.946 GL -15.32 GP 38.83 ZAL 40.42 ZAP 120.24 ETS 23.88 ZAE 125.86 ETE 149.95 ZAC 25.68 ETC 247.00 CLP-130.28

PLANETOCENTRIC CONIC

C3 17.083 VHL 4.133 DLA -31.20 RAL 321.66 RAD 6567.7 VEL 11.767 PTH 2.08 VHP 4.499 DPA 14.42 RAP 275.11 ECC 1.2811

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
76.31	13 22 49	1203.92	22.49	348.48	188.52	112.22	13 42 53	603.9	25.31	340.70
103.69	16 59 48	5794.97	22.50	274.91	188.52	112.21	18 36 23	5195.0	25.32	267.14
76.31	13 22 49	1203.92	22.49	348.48	188.52	112.22	13 42 53	603.9	25.31	340.70
103.69	16 59 48	5794.97	22.50	274.91	188.52	112.21	18 36 23	5195.0	25.32	267.14
110.00	15 53 36	713.82	13.65	308.02	183.80	121.65	16 5 30	113.8	17.74	301.29
110.00	19 28 11	5333.07	31.95	242.99	191.87	102.85	20 57 5	4733.1	33.39	234.06

DIFFERENTIAL CORRECTIONS
TDE .5146 TRA 2.6894 TC3-2.1637 BAU .5268
RDE -.2741 RRA-1.6505 RC3 .7996 FAU .06425
FDE 1.8976 FRA 5.6680 FC3-3.2562 BSP 17167
BDE .5830 BRA 3.1555 BC3 2.3067 FSP -2978

MID-COURSE EXECUTION ACCURACY
SGT 4765.1 SGR 2781.6 SG3 857.7
RRT -.9893 RRF -.9905 RTF .9879
SGB 5517.5 R23 .0541 R13 -.9905
SG1 5506.4 SG2 350.7 THA 149.86

ORBIT DETERMINATION ACCURACY
ST 1490.5 SR 888.1 SS 1481.1
CRT -.9983 CRS .9493 CST -.9656
LSA 2259.4 MSA 314.8 SSA 11.9
EL1 1734.5 EL2 44.9 ALF 149.23

LAUNCH DATE SEP 15 1965 FLIGHT TIME 196.00 ARRIVAL DATE MAR 30 1966

HELIOCENTRIC CONIC DISTANCE 533.238

RL 150.43 LAL .00 LOL 351.95 VL 27.312 GAL 5.79 AZL 92.01 HCA 235.31 SMA 130.30 ECC .18387 INC 2.0111 V1 29.620
RP 108.29 LAP 1.65 LOP 227.24 VP 37.851 GAP 4.22 AZP 88.86 TAL 152.49 TAP 27.80 RCA 106.34 APO 154.26 V2 34.996
RC 93.279 GL -13.23 GP 36.31 ZAL 39.29 ZAP 123.91 ETS 25.63 ZAE 125.18 ETE 153.38 ZAC 23.22 ETC 246.04 CLP-133.82

PLANETOCENTRIC CONIC

C3 17.360 VHL 4.166 DLA -29.06 RAL 321.45 RAD 6567.7 VEL 11.779 PTH 2.08 VHP 4.568 DPA 11.91 RAP 274.76 ECC 1.2857

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
83.18	14 13 58	1041.85	20.93	335.76	187.94	110.63	14 31 20	441.8	23.55	328.01
96.82	16 6 57	676.42	20.94	308.96	187.94	110.62	16 18 14	76.4	23.56	301.21
100.00	15 32 36	786.82	16.36	315.07	185.89	115.37	15 45 42	186.8	19.64	307.81
100.00	17 31 1	5694.72	25.65	268.62	189.63	105.90	19 5 55	5094.7	27.58	260.35
110.00	15 20 2	826.34	9.56	314.15	182.00	122.98	15 33 48	226.3	13.83	307.67
110.00	20 0 4	5227.97	33.27	235.08	191.51	98.34	21 27 11	4628.0	34.06	225.93

DIFFERENTIAL CORRECTIONS
TDE .6212 TRA 2.9290 TC3-2.2548 BAU .5482
RDE -.2434 RRA-1.5437 RC3 .7034 FAU .06146
FDE 1.9462 FRA 5.6440 FC3-3.0651 BSP 17605
BDE .6672 BRA 3.3109 BC3 2.3620 FSP -2911

MID-COURSE EXECUTION ACCURACY
SGT 5049.0 SGR 2520.6 SG3 831.1
RRT -.9883 RRF -.9881 RTF .9883
SGB 5643.3 R23 .0441 R13 -.9901
SG1 5632.7 SG2 344.6 THA 153.63

ORBIT DETERMINATION ACCURACY
ST 1626.0 SR 802.0 SS 1490.5
CRT -.9924 CRS .9369 CST -.9726
LSA 2326.6 MSA 309.0 SSA 12.3
EL1 1810.9 EL2 88.7 ALF 153.85

LAUNCH DATE SEP 15 1965 FLIGHT TIME 198.00 ARRIVAL DATE APR 1 1966

HELIOCENTRIC CONIC DISTANCE 539.367

RL 150.43 LAL .00 LOL 351.95 VL 27.301 GAL 5.98 AZL 91.74 HCA 238.50 SMA 130.22 ECC .18618 INC 1.7424 V1 29.620
RP 108.33 LAP 1.49 LOP 230.44 VP 37.831 GAP 4.65 AZP 89.09 TAL 151.96 TAP 30.47 RCA 105.98 APO 154.47 V2 34.983
RC 95.621 GL -11.29 GP 33.97 ZAL 38.26 ZAP 127.40 ETS 27.14 ZAE 124.42 ETE 156.35 ZAC 21.00 ETC 244.27 CLP-137.09

PLANETOCENTRIC CONIC

C3 17.772 VHL 4.216 DLA -27.05 RAL 321.32 RAD 6567.7 VEL 11.796 PTH 2.09 VHP 4.664 DPA 9.56 RAP 274.63 ECC 1.2925

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	13 55 48	1106.82	13.93	337.43	185.33	114.90	14 14 15	506.8	17.17	330.25
90.00	16 24 6	622.35	25.11	306.41	189.45	103.53	16 34 28	22.3	26.73	298.11
100.00	14 42 18	956.60	11.16	324.99	183.92	117.91	14 58 15	356.6	14.81	318.10
100.00	18 20 17	5535.84	28.13	257.47	190.17	100.54	19 52 33	4935.8	29.30	248.86
110.00	14 55 2	916.63	6.18	318.96	180.91	123.69	15 10 19	316.6	10.56	312.61
110.00	20 24 2	5148.58	33.89	228.97	191.08	94.77	21 49 51	4548.6	34.18	219.73

DIFFERENTIAL CORRECTIONS
TDE .7332 TRA 3.1663 TC3-2.3084 BAU .5672
RDE -.2137 RRA-1.4466 RC3 .6088 FAU .05778
FDE 1.9817 FRA 5.5788 FC3-2.8147 BSP 17990
BDE .7637 BRA 3.4811 BC3 2.3874 FSP -2802

MID-COURSE EXECUTION ACCURACY
SGT 5303.8 SGR 2285.0 SG3 798.3
RRT -.9865 RRF -.9850 RTF .9885
SGB 5775.1 R23 .0346 R13 -.9897
SG1 5764.8 SG2 344.2 THA 156.89

ORBIT DETERMINATION ACCURACY
ST 1760.0 SR 723.3 SS 1495.9
CRT -.9822 CRS .9216 CST -.9780
LSA 2401.3 MSA 304.4 SSA 12.6
EL1 1898.7 EL2 126.1 ALF 157.92

LAUNCH DATE SEP 15 1965 FLIGHT TIME 200.00 ARRIVAL DATE APR 3 1966

HELIOCENTRIC CONIC DISTANCE 545.465

RL 150.43 LAL .00 LOL 351.95 VL 27.288 GAL 6.18 AZL 91.49 HCA 241.69 SMA 130.14 ECC .18874 INC 1.4917 V1 29.620
RP 108.37 LAP 1.31 LOP 233.63 VP 37.810 GAP 5.09 AZP 89.29 TAL 151.41 TAP 33.10 RCA 105.57 APO 154.70 V2 34.970
RC 97.969 GL -9.50 GP 31.80 ZAL 37.30 ZAP 130.71 ETS 28.46 ZAE 123.61 ETE 158.91 ZAC 19.06 ETC 241.57 CLP-140.12

PLANETOCENTRIC CONIC

C3 18.316 VHL 4.280 DLA -25.18 RAL 321.26 RAD 6567.7 VEL 11.819 PTH 2.09 VHP 4.784 DPA 7.39 RAP 274.71 ECC 1.3014

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	13 13 2	1257.19	9.45	346.20	184.01	116.82	13 33 59	657.2	12.98	339.30
90.00	17 6 26	5774.09	26.94	274.75	189.94	99.07	18 42 40	5174.1	27.92	266.22
100.00	14 10 55	1070.32	7.47	331.41	182.94	119.03	14 28 45	470.3	11.28	324.70
100.00	18 51 15	5436.20	29.16	250.24	190.29	96.87	20 21 51	4836.2	29.81	241.50
110.00	14 35 2	994.64	3.21	323.06	180.32	124.05	14 51 37	394.6	7.66	316.79
110.00	20 43 37	5084.63	34.14	223.99	190.74	91.84	22 8 21	4484.6	34.02	214.75

DIFFERENTIAL CORRECTIONS
TDE .8454 TRA 3.3978 TC3-2.3383 BAU .5869
RDE -.1825 RRA-1.3570 RC3 .5255 FAU .05400
FDE 1.9945 FRA 5.4736 FC3-2.5524 BSP 18464
BDE .8649 BRA 3.6588 BC3 2.3567 FSP -2689

MID-COURSE EXECUTION ACCURACY
SGT 5527.4 SGR 2071.7 SG3 760.5
RRT -.9839 RRF -.9811 RTF .9886
SGB 5902.9 R23 .0255 R13 -.9894
SG1 5892.7 SG2 346.8 THA 159.68

ORBIT DETERMINATION ACCURACY
ST 1886.4 SR 650.1 SS 1492.2
CRT -.9668 CRS .9017 CST -.9821
LSA 2473.2 MSA 300.8 SSA 12.9
EL1 1989.0 EL2 157.6 ALF 161.45

LAUNCH DATE SEP 15 1965 FLIGHT TIME 202.00 ARRIVAL DATE APR 5 1966

HELIOCENTRIC CONIC DISTANCE 551.533

RL 150.43 LAL .00 LOL 351.95 VL 27.275 GAL 6.40 AZL 91.26 HCA 244.88 SMA 130.04 ECC .19156 INC 1.2557 V1 29.620
RP 108.41 LAP 1.14 LOP 236.82 VP 37.788 GAP 5.53 AZP 89.47 TAL 150.82 TAP 35.70 RCA 105.13 APO 154.95 V2 34.957
RC 100.323 GL -7.83 GP 29.80 ZAL 36.41 ZAP 133.82 ETS 29.65 ZAE 122.78 ETE 161.10 ZAC 17.43 ETC 237.86 CLP-142.93

PLANETOCENTRIC CONIC

C3 18.991 VHL 4.358 DLA -23.42 RAL 321.28 RAD 6567.8 VEL 11.848 PTH 2.10 VHP 4.925 DPA 5.39 RAP 274.99 ECC 1.3125

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 44 13	1365.89	6.06	352.39	183.42	117.71	13 6 59	765.9	9.72	345.62
90.00	17 35 20	5682.37	27.75	268.17	190.21	95.87	19 10 3	5082.4	28.27	259.54
100.00	13 47 11	1162.67	4.39	336.54	182.50	119.60	14 6 33	562.7	8.30	329.93
100.00	19 15 4	5360.83	29.65	244.70	190.40	93.99	20 44 25	4760.8	29.89	235.90
110.00	14 18 26	1064.65	.54	326.71	180.11	124.18	14 36 11	464.6	5.02	320.49
110.00	21 0 18	5031.61	34.18	219.85	190.56	89.39	22 24 9	4431.6	33.72	210.64

DIFFERENTIAL CORRECTIONS
TDE .9607 TRA 3.6285 TC3-2.3406 BAU .6052
RDE -.1518 RRA-1.2768 RC3 .4507 FAU .04998
FDE 1.9938 FRA 5.3454 FC3-2.2785 BSP 18931
BDE .9727 BRA 3.8466 BC3 2.3836 FSP -2563

MID-COURSE EXECUTION ACCURACY
SGT 5726.1 SGR 1881.8 SG3 720.2
RRT -.9805 RRF -.9764 RTF .9886
SGB 6027.4 R23 .0176 R13 -.9891
SG1 6017.1 SG2 351.9 THA 162.08

ORBIT DETERMINATION ACCURACY
ST 2008.0 SR 584.1 SS 1483.5
CRT -.9454 CRS .8765 CST -.9854
LSA 2546.6 MSA 297.9 SSA 13.0
EL1 2083.2 EL2 183.5 ALF 164.50

LAUNCH DATE SEP 15 1965 FLIGHT TIME 204.00 ARRIVAL DATE APR 7 1966

HELIOCENTRIC CONIC DISTANCE 557.568

RL 150.43 LAL .00 LOL 351.95 VL 27.261 GAL 6.64 AZL 91.03 HCA 248.07 SMA 129.94 ECC .19466 INC 1.0319 V1 29.620
RP 108.44 LAP .96 LOP 240.01 VP 37.766 GAP 5.97 AZP 89.61 TAL 150.20 TAP 38.27 RCA 104.65 APO 155.24 V2 34.945
RC 102.682 GL -6.29 GP 27.98 ZAL 35.59 ZAP 136.73 ETS 30.74 ZAE 121.96 ETE 162.97 ZAC 16.12 ETC 233.11 CLP-145.54

PLANETOCENTRIC CONIC

C3 19.797 VHL 4.449 DLA -21.78 RAL 321.34 RAD 6567.8 VEL 11.882 PTH 2.11 VHP 5.086 DPA 3.55 RAP 275.45 ECC 1.3258

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 21 56	1456.10	3.18	357.45	183.28	118.15	12 46 12	856.1	6.92	350.77
90.00	17 58 9	5611.85	28.14	263.04	190.52	93.33	19 31 41	5011.9	28.30	254.38
100.00	13 28 0	1242.87	1.68	340.95	182.45	119.85	13 48 43	642.9	5.64	334.40
100.00	19 34 46	5300.32	29.85	240.21	190.60	91.64	21 3 7	4700.3	29.76	231.40
110.00	14 4 21	1128.91	-1.92	330.07	180.20	124.14	14 23 10	528.9	2.58	323.86
110.00	21 14 55	4987.04	34.09	216.37	190.56	87.33	22 38 2	4387.0	33.35	207.21

DIFFERENTIAL CORRECTIONS
TDE 1.0796 TRA 3.8608 TC3-2.3174 BAU .6217
RDE -.1222 RRA-1.2058 RC3 .3840 FAU .04580
FDE 1.9832 FRA 5.2040 FC3-2.0030 BSP 19376
BDE 1.0865 BRA 4.0447 BC3 2.3490 FSP -2428

MID-COURSE EXECUTION ACCURACY
SGT 5903.2 SGR 1713.8 SG3 679.1
RRT -.9761 RRF -.9708 RTF .9884
SGB 6147.0 R23 .0113 R13 -.9888
SG1 6136.5 SG2 358.5 THA 164.12

ORBIT DETERMINATION ACCURACY
ST 2125.1 SR 525.8 SS 1471.3
CRT -.9173 CRS .8453 CST -.9881
LSA 2621.1 MSA 295.4 SSA 13.2
EL1 2179.7 EL2 204.1 ALF 167.10

LAUNCH DATE SEP 15 1965 FLIGHT TIME 206.00 ARRIVAL DATE APR 9 1966

HELIOCENTRIC CONIC DISTANCE 563.569

RL 150.43 LAL .00 LOL 351.95 VL 27.245 GAL 6.90 AZL 90.82 HCA 251.25 SMA 129.84 ECC .19804 INC .8180 VI 29.620
RP 108.48 LAP .77 LOP 243.19 VP 37.743 GAP 6.42 AZP 89.74 TAL 149.56 TAP 40.81 RCA 104.12 APO 155.55 V2 34.932
RC 105.043 GL -4.86 GP 26.32 ZAL 34.81 ZAP 139.47 ETS 31.79 ZAE 121.16 ETE 164.56 ZAC 15.17 ETC 227.40 CLP-147.98

PLANETOCENTRIC CONIC

C3 20.741 VHL 4.554 DLA -20.24 RAL 321.46 RAD 6567.8 VEL 11.921 PTH 2.12 VHP 5.265 DPA 1.88 RAP 276.09 ECC 1.3413

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 3 44	1535.24	.63	1.87	183.47	118.31	12 29 19	935.2	4.41	355.23
90.00	18 17 17	5554.94	28.29	258.89	190.92	91.25	19 49 52	4954.9	28.17	250.22
100.00	13 11 59	1314.99	-.77	344.91	182.69	119.88	13 33 54	715.0	3.22	338.38
100.00	19 51 44	5250.42	29.89	236.50	190.93	89.69	21 19 14	4650.4	29.53	227.71
110.00	13 52 14	1188.83	-4.20	333.20	180.55	123.96	14 12 3	588.8	.29	326.99
110.00	21 27 57	4949.35	33.93	213.44	190.74	85.60	22 50 27	4349.3	32.95	204.34

DIFFERENTIAL CORRECTIONS
TDE 1.2019 TRA 4.0955 TC3-2.2732 BAU .6568
RDE -.0934 RRA-1.1430 RC3 .3260 FAU .04164
FDE 1.9640 FRA 5.0553 FC3-1.7382 BSP 19805
BDE 1.2055 BRA 4.2520 BC3 2.2965 FSP -2291

MID-COURSE EXECUTION ACCURACY
SGT 6060.5 SGR 1565.5 SG3 638.2
RRT -.9706 RRF -.9641 RTF .9882
SGB 6259.5 R23 .0063 R13 -.9884
SG1 6248.8 SG2 365.6 THA 165.88

ORBIT DETERMINATION ACCURACY
ST 2237.0 SR 474.6 SS 1455.9
CRT -.8812 CRS .8068 CST -.9902
LSA 2695.0 MSA 293.2 SSA 13.3
EL1 2276.2 EL2 220.5 ALF 169.31

LAUNCH DATE SEP 15 1965 FLIGHT TIME 208.00 ARRIVAL DATE APR 11 1966

HELIOCENTRIC CONIC DISTANCE 569.534

RL 150.43 LAL .00 LOL 351.95 VL 27.229 GAL 7.18 AZL 90.61 HCA 254.43 SMA 129.73 ECC .20173 INC .6122 VI 29.620
RP 108.52 LAP .59 LOP 246.37 VP 37.721 GAP 6.88 AZP 89.84 TAL 148.90 TAP 43.33 RCA 103.56 APO 155.90 V2 34.920
RC 107.406 GL -3.54 GP 24.80 ZAL 34.08 ZAP 142.02 ETS 32.81 ZAE 120.39 ETE 165.92 ZAC 14.59 ETC 220.96 CLP-150.27

PLANETOCENTRIC CONIC

C3 21.831 VHL 4.672 DLA -18.80 RAL 321.62 RAD 6567.9 VEL 11.967 PTH 2.13 VHP 5.462 DPA .35 RAP 276.89 ECC 1.3593

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 48 25	1606.85	-1.68	5.86	183.92	118.27	12 15 12	1006.8	2.11	359.24
90.00	18 33 53	5507.97	28.31	255.45	191.45	89.53	20 5 41	4908.0	27.95	246.80
100.00	12 58 19	1381.29	-3.01	348.55	183.18	119.75	13 21 20	781.3	.97	342.02
100.00	20 6 40	5208.76	29.84	233.40	191.41	88.06	21 33 29	4608.8	29.25	224.65
110.00	13 41 42	1245.33	-6.34	336.17	181.12	123.66	14 2 28	645.3	-1.87	329.93
110.00	21 39 46	4917.49	33.74	210.97	191.10	84.16	23 1 44	4317.5	32.56	201.93

DIFFERENTIAL CORRECTIONS
TDE 1.3307 TRA 4.3372 TC3-2.2061 BAU .6488
RDE -.0664 RRA-1.0886 RC3 .2745 FAU .03740
FDE 1.9427 FRA 4.9082 FC3-1.4833 BSP 20148
BDE 1.3323 BRA 4.4717 BC3 2.2231 FSP -2147

MID-COURSE EXECUTION ACCURACY
SGT 6203.0 SGR 1435.6 SG3 598.7
RRT -.9640 RRF -.9565 RTF .9879
SGB 6367.0 R23 .0026 R13 -.9880
SG1 6356.1 SG2 372.7 THA 167.38

ORBIT DETERMINATION ACCURACY
ST 2346.8 SR 430.9 SS 1440.3
CRT -.8370 CRS .7613 CST -.9919
LSA 2771.8 MSA 290.9 SSA 13.3
EL1 2374.6 EL2 233.0 ALF 171.18

LAUNCH DATE SEP 15 1965 FLIGHT TIME 210.00 ARRIVAL DATE APR 13 1966

HELIOCENTRIC CONIC DISTANCE 575.460

RL 150.43 LAL .00 LOL 351.95 VL 27.213 GAL 7.48 AZL 90.41 HCA 257.61 SMA 129.61 ECC .20574 INC .4128 VI 29.620
RP 108.56 LAP .40 LOP 249.55 VP 37.698 GAP 7.35 AZP 89.91 TAL 148.21 TAP 45.82 RCA 102.94 APO 156.28 V2 34.909
RC 109.770 GL -2.32 GP 23.42 ZAL 33.39 ZAP 144.42 ETS 33.83 ZAE 119.66 ETE 167.09 ZAC 14.40 ETC 214.16 CLP-152.41

PLANETOCENTRIC CONIC

C3 23.076 VHL 4.804 DLA -17.45 RAL 321.82 RAD 6567.9 VEL 12.019 PTH 2.15 VHP 5.675 DPA -1.03 RAP 277.83 ECC 1.3798

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 35 17	1672.93	-3.81	9.56	184.59	118.08	12 3 9	1072.9	-.02	2.92
90.00	18 48 36	5468.82	28.26	252.59	192.11	88.09	20 19 45	4868.8	27.69	243.97
100.00	12 46 29	1443.14	-5.09	351.96	183.88	119.49	13 10 33	843.1	-1.13	345.42
100.00	20 20 4	5173.84	29.73	230.81	192.03	86.70	21 46 18	4573.8	28.95	222.10
110.00	13 32 29	1299.05	-8.36	339.02	181.88	123.27	13 54 8	699.1	-3.92	332.74
110.00	21 50 34	4890.69	33.53	208.91	191.63	82.95	23 12 5	4290.7	32.20	199.93

DIFFERENTIAL CORRECTIONS
TDE 1.4603 TRA 4.5818 TC3-2.1285 BAU .6606
RDE -.0395 RRA-1.0402 RC3 .2320 FAU .03351
FDE 1.9124 FRA 4.7589 FC3-1.2572 BSP 20542
BDE 1.4609 BRA 4.6984 BC3 2.1411 FSP -2017

MID-COURSE EXECUTION ACCURACY
SGT 6326.9 SGR 1320.3 SG3 560.4
RRT -.9562 RRF -.9476 RTF .9876
SGB 6463.2 R23 -.0005 R13 -.9877
SG1 6452.1 SG2 379.0 THA 168.68

ORBIT DETERMINATION ACCURACY
ST 2447.6 SR 393.0 SS 1420.3
CRT -.7826 CRS .7062 CST -.9934
LSA 2842.4 MSA 288.7 SSA 13.3
EL1 2467.1 EL2 242.7 ALF 172.77

LAUNCH DATE SEP 15 1965 FLIGHT TIME 212.00 ARRIVAL DATE APR 15 1966

HELIOCENTRIC CONIC DISTANCE 581.343

RL 150.43 LAL .00 LOL 351.95 VL 27.195 GAL 7.81 AZL 90.22 HCA 260.78 SMA 129.49 ECC .21010 INC .2184 VI 29.620
RP 108.59 LAP .22 LOP 252.73 VP 37.675 GAP 7.83 AZP 89.96 TAL 147.50 TAP 48.29 RCA 102.28 APO 156.70 V2 34.897
RC 112.133 GL -1.19 GP 22.17 ZAL 32.73 ZAP 146.66 ETS 34.90 ZAE 118.97 ETE 168.08 ZAC 14.58 ETC 207.44 CLP-154.44

PLANETOCENTRIC CONIC

C3 24.492 VHL 4.949 DLA -16.19 RAL 322.05 RAD 6568.0 VEL 12.078 PTH 2.16 VHP 5.905 DPA -2.28 RAP 278.90 ECC 1.4031

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 23 52	1734.74	-5.78	13.03	185.46	117.77	11 52 46	1134.7	-2.02	6.37
90.00	19 1 51	5436.13	28.16	250.20	192.91	86.90	20 32 27	4836.1	27.43	241.61
100.00	12 36 10	1501.47	-7.04	355.19	184.78	119.13	13 1 11	901.5	-3.10	348.62
100.00	20 32 14	5144.64	29.59	228.65	192.80	85.57	21 57 59	4544.6	28.66	219.97
110.00	13 24 21	1350.48	-10.27	341.78	182.82	122.78	13 46 52	750.5	-5.87	335.45
110.00	22 0 32	4868.39	33.34	207.19	192.32	81.96	23 21 40	4268.4	31.87	198.27

DIFFERENTIAL CORRECTIONS
TDE 1.5946 TRA 4.8333 TC3-2.0386 BAU .6706
RDE -.0137 RRA -.9978 RC3 .1956 FAU .02980
FDE 1.8799 FRA 4.6143 FC3-1.0534 BSP 20907
BDE 1.5946 BRA 4.9352 BC3 2.0480 FSP -1890

MID-COURSE EXECUTION ACCURACY
SGT 6436.6 SGR 1218.5 SG3 523.9
RRT -.9472 RRF -.9376 RTF .9873
SGB 6550.9 R23 -.0028 R13 -.9873
SG1 6539.6 SG2 384.5 THA 169.80

ORBIT DETERMINATION ACCURACY
ST 2543.1 SR 361.3 SS 1399.3
CRT -.7188 CRS .6427 CST -.9945
LSA 2911.0 MSA 286.3 SSA 13.3
EL1 2556.5 EL2 249.9 ALF 174.11

LAUNCH DATE SEP 15 1965 FLIGHT TIME 214.00 ARRIVAL DATE APR 17 1966

HELIOCENTRIC CONIC DISTANCE 587.181

RL 150.43 LAL .00 LOL 351.95 VL 27.177 GAL 8.17 AZL 90.03 HCA 263.96 SMA 129.37 ECC .21483 INC .0242 V1 29.620
RP 108.63 LAP .03 LOP 255.91 VP 37.651 GAP 8.33 AZP 90.00 TAL 146.78 TAP 50.74 RCA 101.58 APO 157.16 V2 34.886
RC 114.493 GL -.15 GP 21.03 ZAL 32.10 ZAP 148.76 ETS 36.03 ZAE 118.32 ETE 168.93 ZAC 15.10 ETC 201.17 CLP-156.35

PLANETOCENTRIC CONIC

C3 26.093 VHL 5.108 DLA -15.00 RAL 322.30 RAD 6568.1 VEL 12.144 PTH 2.18 VHP 6.152 DPA -3.41 RAP 280.09 ECC 1.4294

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 13 52	1793.15	-7.62	16.34	186.51	117.36	11 43 45	1193.2	-3.89	9.64
90.00	19 13 54	5408.97	28.05	248.22	193.84	85.92	20 44 3	4809.0	27.18	239.66
100.00	12 27 4	1556.93	-8.86	358.30	185.84	118.66	12 53 1	956.9	-4.97	351.68
100.00	20 43 22	5120.42	29.45	226.87	193.70	84.64	22 8 43	4520.4	28.40	218.22
110.00	13 17 10	1400.00	-12.08	344.48	183.91	122.22	13 40 30	800.0	-7.74	338.07
110.00	22 9 46	4850.12	33.15	205.80	193.16	81.15	23 30 36	4250.1	31.58	196.93

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE 1.7340 TRA 5.0945 TC3-1.9373 BAU .6782 SGT 6534.5 SGR 1128.6 SG3 489.6 ST 2633.7 SR 335.1 SS 1378.0
RDE .0111 RRA -.9610 RC3 .1645 FAU .02625 RRT -.9370 RRF -.9266 RTF .9870 CRT -.6463 CRS .5716 CST -.9955
FDE 1.8463 FRA 4.4773 FC3 -.8709 BSP 21233 SGB 6631.2 R23 -.0045 R13 -.9870 LSA 2977.7 MSA 283.7 SSA 13.3
BDE 1.7340 BRA 5.1844 BC3 1.9443 FSP -1769 SG1 6619.8 SG2 389.1 THA 170.78 EL1 2642.6 EL2 254.8 ALF 175.26

LAUNCH DATE SEP 15 1965 FLIGHT TIME 216.00 ARRIVAL DATE APR 19 1966

HELIOCENTRIC CONIC DISTANCE 592.970

RL 150.43 LAL .00 LOL 351.95 VL 27.159 GAL 8.55 AZL 89.84 HCA 267.13 SMA 129.24 ECC .21995 INC .1601 V1 29.620
RP 108.66 LAP -.16 LOP 259.08 VP 37.628 GAP 8.84 AZP 90.01 TAL 146.04 TAP 53.17 RCA 100.81 APO 157.67 V2 34.875
RC 116.852 GL .82 GP 20.00 ZAL 31.51 ZAP 150.73 ETS 37.24 ZAE 117.71 ETE 169.66 ZAC 15.90 ETC 195.59 CLP-158.17

PLANETOCENTRIC CONIC

C3 27.902 VHL 5.282 DLA -13.90 RAL 322.58 RAD 6568.1 VEL 12.218 PTH 2.20 VHP 6.415 DPA -4.41 RAP 281.39 ECC 1.4592

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 5 2	1848.79	-9.34	19.51	187.70	116.85	11 35 51	1248.8	-5.67	12.76
90.00	19 24 57	5386.63	27.93	246.60	194.89	85.11	20 54 44	4786.6	26.96	238.07
100.00	12 19 2	1610.07	-10.58	1.31	187.05	118.12	12 45 52	1010.1	-6.74	354.62
100.00	20 53 39	5100.61	29.32	225.41	194.74	83.88	22 18 39	4500.6	28.16	216.80
110.00	13 10 48	1447.89	-13.80	347.11	185.16	121.59	13 34 56	847.9	-9.52	340.63
110.00	22 18 22	4835.52	32.99	204.69	194.15	80.51	23 38 57	4235.5	31.33	195.86

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE 1.8821 TRA 5.3697 TC3-1.8224 BAU .6817 SGT 6623.9 SGR 1049.1 SG3 457.8 ST 2722.4 SR 313.8 SS 1358.6
RDE .0343 RRA -.9293 RC3 .1368 FAU .02270 RRT -.9257 RRF -.9145 RTF .9866 CRT -.5678 CRS .4956 CST -.9963
FDE 1.8159 FRA 4.3513 FC3 -.7044 BSP 21450 SGB 6706.5 R23 -.0055 R13 -.9866 LSA 3045.7 MSA 280.7 SSA 13.2
BDE 1.8825 BRA 5.4495 BC3 1.8276 FSP -1646 SG1 6695.0 SG2 392.5 THA 171.63 EL1 2728.3 EL2 257.7 ALF 176.22

LAUNCH DATE SEP 15 1965 FLIGHT TIME 218.00 ARRIVAL DATE APR 21 1966

HELIOCENTRIC CONIC DISTANCE 598.704

RL 150.43 LAL .00 LOL 351.95 VL 27.140 GAL 8.96 AZL 89.65 HCA 270.30 SMA 129.11 ECC .22552 INC .3479 V1 29.620
RP 108.69 LAP -.35 LOP 262.25 VP 37.605 GAP 9.37 AZP 90.00 TAL 145.29 TAP 55.59 RCA 99.99 APO 158.23 V2 34.865
RC 119.206 GL 1.71 GP 19.06 ZAL 30.94 ZAP 152.58 ETS 38.56 ZAE 117.13 ETE 170.30 ZAC 16.93 ETC 190.81 CLP-159.91

PLANETOCENTRIC CONIC

C3 29.941 VHL 5.472 DLA -12.87 RAL 322.88 RAD 6568.2 VEL 12.301 PTH 2.22 VHP 6.696 DPA -5.31 RAP 282.78 ECC 1.4928

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 57 13	1902.09	-10.97	22.59	189.04	116.27	11 28 55	1302.1	-7.35	15.78
90.00	19 35 10	5368.59	27.81	245.29	196.07	84.46	21 4 38	4768.6	26.76	236.78
100.00	12 11 54	1661.14	-12.21	4.23	188.40	117.50	12 39 35	1061.1	-8.43	357.48
100.00	21 3 10	5084.78	29.20	224.25	195.90	83.28	22 27 54	4484.8	27.96	215.66
110.00	13 5 9	1494.37	-15.44	349.72	186.54	120.88	13 30 3	894.4	-11.24	343.14
110.00	22 26 24	4824.31	32.87	203.84	195.27	80.02	23 46 48	4224.3	31.14	195.04

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE 2.0315 TRA 5.6517 TC3-1.7082 BAU .6853 SGT 6698.4 SGR 977.3 SG3 427.7 ST 2800.8 SR 296.4 SS 1336.4
RDE .0576 RRA -.9006 RC3 .1145 FAU .01959 RRT -.9132 RRF -.9012 RTF .9863 CRT -.4821 CRS .4132 CST -.9970
FDE 1.7812 FRA 4.2295 FC3 -.5665 BSP 21752 SGB 6769.3 R23 -.0064 R13 -.9863 LSA 3105.0 MSA 277.5 SSA 13.1
BDE 2.0323 BRA 5.7230 BC3 1.7121 FSP -1541 SG1 6757.8 SG2 394.8 THA 172.39 EL1 2804.4 EL2 259.4 ALF 177.05

LAUNCH DATE SEP 15 1965 FLIGHT TIME 220.00 ARRIVAL DATE APR 23 1966

HELIOCENTRIC CONIC DISTANCE 604.377

RL 150.43 LAL .00 LOL 351.95 VL 27.120 GAL 9.40 AZL 89.46 HCA 273.47 SMA 128.98 ECC .23156 INC .5353 V1 29.620
RP 108.72 LAP -.53 LOP 265.42 VP 37.582 GAP 9.92 AZP 89.97 TAL 144.53 TAP 58.00 RCA 99.11 APO 158.84 V2 34.856
RC 121.557 GL 2.52 GP 18.21 ZAL 30.39 ZAP 154.32 ETS 40.03 ZAE 116.59 ETE 170.84 ZAC 18.16 ETC 186.80 CLP-161.58

PLANETOCENTRIC CONIC

C3 32.240 VHL 5.678 DLA -11.90 RAL 323.19 RAD 6568.3 VEL 12.394 PTH 2.24 VHP 6.996 DPA -6.10 RAP 284.25 ECC 1.5306

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 50 16	1953.43	-12.50	25.58	190.51	115.62	11 22 49	1353.4	-8.95	18.70
90.00	19 44 37	5354.43	27.72	244.27	197.35	83.96	21 13 51	4754.4	26.59	235.78
100.00	12 5 33	1710.52	-13.74	7.09	189.88	116.81	12 34 3	1110.5	-10.03	.27
100.00	21 12 1	5072.57	29.10	223.35	197.17	82.82	22 36 33	4472.6	27.80	214.79
110.00	13 0 7	1539.64	-17.01	352.29	188.04	120.11	13 25 47	939.6	-12.88	345.62
110.00	22 33 56	4816.22	32.77	203.23	196.51	79.67	23 54 12	4216.2	31.00	194.46

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE 2.1872 TRA 5.9476 TC3-1.5893 BAU .6863 SGT 6763.6 SGR 912.7 SG3 399.6 ST 2874.0 SR 282.6 SS 1315.0
RDE .0802 RRA -.8753 RC3 .0953 FAU .01665 RRT -.8995 RRF -.8870 RTF .9861 CRT -.3936 CRS .3287 CST -.9975
FDE 1.7478 FRA 4.1172 FC3 -.4472 BSP 22022 SGB 6824.9 R23 -.0070 R13 -.9861 LSA 3161.3 MSA 273.9 SSA 13.0
BDE 2.1887 BRA 6.0116 BC3 1.5922 FSP -1441 SG1 6813.4 SG2 395.8 THA 173.06 EL1 2876.1 EL2 259.6 ALF 177.77

LAUNCH DATE SEP 16 1965 FLIGHT TIME 70.00 ARRIVAL DATE NOV 25 1965

HELIOCENTRIC CONIC DISTANCE 126.140

RL	150.39	LAL	.00	LOL	352.92	VL	14.747	GAL	30.44	AZL	94.89	HCA	32.64	SMA	85.76	ECC	.82388	INC	4.8911	VI	29.628
RP	108.41	LAP	-2.64	LOP	25.47	VP	30.017	GAP	-54.01	AZP	94.12	TAL	172.49	TAP	205.13	RCA	15.10	APO	156.42	V2	34.957
RC	89.619	GL	-3.31	GP	-3.71	ZAL	64.95	ZAP	36.08	ETS	171.62	ZAE	131.88	ETE	178.24	ZAC	29.85	ETC	34.14	CLP	35.91

PLANETOCENTRIC CONIC

C3 351.739 VHL 18.755 DLA -25.51 RAL 290.01 RAD 6571.9 VEL 21.750 PTH 3.23 VHP 29.768 DPA -23.15 RAP 238.38 ECC 6.7887

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 10 48	1848.42	-9.33	19.49	190.11	116.86	11 41 37	1248.4	-5.66	12.74
90.00	14 51 25	1121.00	13.52	338.27	201.15	115.12	15 10 6	521.0	16.80	331.12
100.00	12 7 20	1665.91	-12.36	4.51	188.53	117.44	12 35 6	1065.9	-8.58	357.75
100.00	16 37 34	778.75	16.60	314.58	202.65	115.22	16 50 33	178.7	19.86	307.31
110.00	12 29 47	1595.46	-18.88	355.53	184.90	119.04	12 56 23	995.5	-14.87	348.72
110.00	18 31 37	5709.99	23.29	268.78	206.04	115.76	20 6 47	5110.0	26.55	261.14

DIFFERENTIAL CORRECTIONS

TDE	-.3683	TRA	-2.0527	TC3	-.1101	BAU	.5183	SGT	816.2	SGR	462.3	SG3	23.3
RDE	-1.4717	RRA	.3149	RC3	.0042	FAU	.01098	RRT	-.0793	RRF	.0747	RTF	-.6092
FDE	.1130	FRA	.7326	FC3	-.0270	BSP	1917	SGB	938.1	R23	-.0038	R13	.6098
BDE	1.5171	BRA	2.0767	BC3	.1102	FSP	-47	SG1	817.4	SG2	460.2	THA	176.23

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

ST	237.2	SR	450.8	SS	211.1	CRT	.4108	CRS	.3553	CST	.9942
LSA	476.8	MSA	276.5	SSA	14.1	EL1	464.0	EL2	210.1	ALF	74.56

LAUNCH DATE SEP 16 1965 FLIGHT TIME 72.00 ARRIVAL DATE NOV 27 1965

HELIOCENTRIC CONIC DISTANCE 131.454

RL	150.39	LAL	.00	LOL	352.92	VL	15.558	GAL	28.99	AZL	94.30	HCA	35.82	SMA	87.15	ECC	.79866	INC	4.2961	VI	29.628
RP	108.37	LAP	-2.51	LOP	28.66	VP	30.438	GAP	-51.65	AZP	93.49	TAL	171.63	TAP	207.45	RCA	17.55	APO	156.75	V2	34.970
RC	87.380	GL	-3.25	GP	-3.79	ZAL	63.53	ZAP	34.57	ETS	171.18	ZAE	131.68	ETE	178.50	ZAC	28.60	ETC	36.20	CLP	34.39

PLANETOCENTRIC CONIC

C3 322.922 VHL 17.970 DLA -25.25 RAL 291.55 RAD 6571.8 VEL 21.077 PTH 3.19 VHP 28.708 DPA -23.67 RAP 240.11 ECC 6.3145

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 11 58	1856.09	-9.57	19.93	190.88	116.78	11 42 54	1256.1	-5.90	13.17
90.00	15 2 35	1094.48	14.28	336.69	202.27	114.71	15 20 50	494.5	17.50	329.49
100.00	12 9 34	1670.14	-12.49	4.75	189.35	117.38	12 37 24	1070.1	-8.72	357.99
100.00	16 47 41	755.67	17.26	313.19	203.69	114.79	17 0 16	155.7	20.46	305.86
110.00	12 33 19	1595.60	-18.89	355.54	185.79	119.03	12 59 55	995.6	-14.87	348.73
110.00	18 40 24	5691.01	23.84	267.59	206.97	115.25	20 15 15	5091.0	27.04	259.88

DIFFERENTIAL CORRECTIONS

TDE	-.3921	TRA	-2.0718	TC3	-.1180	BAU	.5095	SGT	853.7	SGR	468.8	SG3	25.2
RDE	-1.4239	RRA	.3294	RC3	.0041	FAU	.01098	RRT	-.0856	RRF	.0811	RTF	-.6281
FDE	.1280	FRA	.7607	FC3	-.0294	BSP	2040	SGB	973.9	R23	-.0045	R13	.6287
BDE	1.4769	BRA	2.0978	BC3	.1180	FSP	-51	SG1	855.0	SG2	466.4	THA	176.17

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

ST	252.6	SR	455.3	SS	223.9	CRT	.4271	CRS	.3825	CST	.9951
LSA	488.6	MSA	286.9	SSA	14.4	EL1	471.7	EL2	220.5	ALF	72.80

LAUNCH DATE SEP 16 1965 FLIGHT TIME 74.00 ARRIVAL DATE NOV 29 1965

HELIOCENTRIC CONIC DISTANCE 136.896

RL	150.39	LAL	.00	LOL	352.92	VL	16.321	GAL	27.65	AZL	93.79	HCA	39.00	SMA	88.56	ECC	.77318	INC	3.7858	VI	29.628
RP	108.33	LAP	-2.38	LOP	31.86	VP	30.850	GAP	-49.41	AZP	92.94	TAL	170.76	TAP	209.76	RCA	20.09	APO	157.04	V2	34.983
RC	85.148	GL	-3.18	GP	-3.89	ZAL	62.16	ZAP	33.09	ETS	170.69	ZAE	131.55	ETE	178.78	ZAC	27.37	ETC	38.50	CLP	32.89

PLANETOCENTRIC CONIC

C3 296.622 VHL 17.223 DLA -24.97 RAL 293.04 RAD 6571.7 VEL 20.443 PTH 3.16 VHP 27.685 DPA -24.18 RAP 241.88 ECC 5.8816

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 12 44	1863.83	-9.80	20.38	191.55	116.70	11 43 48	1263.8	-6.14	13.61
90.00	15 13 40	1066.86	15.06	335.04	203.28	114.27	15 31 27	466.9	18.21	327.78
100.00	12 11 22	1674.53	-12.63	5.00	190.08	117.32	12 39 17	1074.5	-8.87	358.23
100.00	16 57 44	731.39	17.95	311.71	204.63	114.31	17 9 55	131.4	21.08	304.32
110.00	12 36 28	1595.83	-18.90	355.56	186.59	119.03	13 3 4	995.8	-14.88	348.74
110.00	18 49 7	5670.90	24.42	266.31	207.80	114.70	20 23 38	5070.9	27.54	258.53

DIFFERENTIAL CORRECTIONS

TDE	-.4148	TRA	-2.0916	TC3	-.1260	BAU	.4999	SGT	892.5	SGR	474.8	SG3	27.1
RDE	-1.3756	RRA	.3426	RC3	.0039	FAU	.01099	RRT	-.0924	RRF	.0880	RTF	-.6465
FDE	.1434	FRA	.7894	FC3	-.0321	BSP	2175	SGB	1010.9	R23	-.0051	R13	.6471
BDE	1.4367	BRA	2.1195	BC3	.1261	FSP	-56	SG1	894.0	SG2	471.9	THA	176.10

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

ST	268.8	SR	459.2	SS	237.3	CRT	.4412	CRS	.4075	CST	.9959
LSA	501.0	MSA	296.9	SSA	14.6	EL1	479.2	EL2	231.1	ALF	70.92

LAUNCH DATE SEP 16 1965 FLIGHT TIME 76.00 ARRIVAL DATE DEC 1 1965

HELIOCENTRIC CONIC DISTANCE 142.461

RL	150.39	LAL	.00	LOL	352.92	VL	17.040	GAL	26.41	AZL	93.34	HCA	42.18	SMA	90.00	ECC	.74764	INC	3.3408	VI	29.628
RP	108.29	LAP	-2.24	LOP	35.06	VP	31.251	GAP	-47.29	AZP	92.48	TAL	169.90	TAP	212.09	RCA	22.71	APO	157.29	V2	34.996
RC	82.926	GL	-3.09	GP	-3.99	ZAL	60.83	ZAP	31.64	ETS	170.15	ZAE	131.48	ETE	179.09	ZAC	26.19	ETC	41.07	CLP	31.41

PLANETOCENTRIC CONIC

C3 272.583 VHL 16.510 DLA -24.67 RAL 294.47 RAD 6571.6 VEL 19.847 PTH 3.13 VHP 26.696 DPA -24.69 RAP 243.69 ECC 5.4860

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 13 10	1871.52	-10.04	20.82	192.13	116.62	11 44 21	1271.5	-6.39	14.05
90.00	15 24 39	1038.20	15.86	333.31	204.18	113.77	15 41 57	438.2	18.94	325.99
100.00	12 12 48	1678.99	-12.77	5.26	190.71	117.26	12 40 47	1079.0	-9.01	358.48
100.00	17 7 41	705.96	18.65	310.16	205.47	113.79	17 19 27	106.0	21.71	302.69
110.00	12 39 14	1596.09	-18.91	355.57	187.30	119.02	13 5 50	996.1	-14.89	348.75
110.00	18 57 45	5649.67	25.02	264.95	208.51	114.09	20 31 55	5049.7	28.05	257.09

DIFFERENTIAL CORRECTIONS

TDE	-.4367	TRA	-2.1124	TC3	-.1343	BAU	.4897	SGT	933.0	SGR	480.1	SG3	29.2
RDE	-1.3270	RRA	.3544	RC3	.0036	FAU	.01101	RRT	-.0997	RRF	.0954	RTF	-.6642
FDE	.1593	FRA	.8187	FC3	-.0350	BSP	2315	SGB	1049.3	R23	-.0058	R13	.6648
BDE	1.3970	BRA	2.1419	BC3	.1344	FSP	-61	SG1	934.6	SG2	476.9	THA	176.03

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

ST	285.8	SR	462.3	SS	251.3	CRT	.4537	CRS	.4301	CST	.9966
LSA	514.3	MSA	306.3	SSA	14.8	EL1	486.7	EL2	242.0	ALF	68.88

LAUNCH DATE SEP 16 1965 FLIGHT TIME 78.00 ARRIVAL DATE DEC 3 1965

HELIOCENTRIC CONIC DISTANCE 148.140

RL	150.39	LAL	.00	LOL	352.92	VL	17.716	GAL	25.24	AZL	92.95	HCA	45.37	SMA	91.46	ECC	.72215	INC	2.9471	VI	29.628
RP	108.24	LAP	-2.10	LOP	38.26	VP	31.639	GAP	-45.28	AZP	92.07	TAL	169.05	TAP	214.42	RCA	25.41	APO	157.51	V2	35.010
RC	80.714	GL	-2.98	GP	-4.10	ZAL	59.54	ZAP	30.21	ETS	169.56	ZAE	131.48	ETE	179.43	ZAC	25.06	ETC	43.95	CLP	29.96

PLANETOCENTRIC CONIC

C3 250.581 VHL 15.830 DLA -24.35 RAL 295.83 RAD 6571.5 VEL 19.285 PTH 3.10 VHP 25.739 DPA -25.20 RAP 245.53 ECC 5.1239

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 13 15	1879.08	-10.27	21.26	192.62	116.53	11 44 34	1279.1	-6.63	14.47
90.00	15 35 28	1008.56	16.66	331.51	204.96	113.23	15 52 17	408.6	19.66	324.12
100.00	12 13 51	1683.45	-12.90	5.52	191.25	117.20	12 41 54	1083.4	-9.16	358.73
100.00	17 17 33	679.43	19.37	308.51	206.19	113.22	17 28 53	79.4	22.35	300.98
110.00	12 41 37	1596.34	-18.91	355.59	187.92	119.02	13 8 14	996.3	-14.90	348.77
110.00	19 6 16	5627.34	25.63	263.51	209.11	113.43	20 40 4	5027.3	28.57	255.56

DIFFERENTIAL CORRECTIONS

TDE	-.4570	TRA	-2.1330	TC3	-.1428	BAU	.4785												
RDE	-1.2783	RRA	.3649	RC3	.0032	FAU	.01105												
FDE	.1757	FRA	.8486	FC3	-.0382	BSP	2477												
BDE	1.3575	BRA	2.1640	BC3	.1428	FSP	-67												

MID-COURSE EXECUTION ACCURACY

SGT	974.6	SGR	485.0	SG3	31.4						
RRT	-.1077	RRF	.1034	RTF	-.6814						
SGB	1088.6	R23	-.0064	R13	.6820						
SG1	976.5	SG2	481.2	THA	175.95						

ORBIT DETERMINATION ACCURACY

ST	303.6	SR	464.7	SS	265.8						
CRT	.4640	CRS	.4505	CST	.9971						
LSA	528.4	MSA	315.2	SSA	15.0						
EL1	494.1	EL2	252.9	ALF	66.70						

LAUNCH DATE SEP 16 1965 FLIGHT TIME 80.00 ARRIVAL DATE DEC 5 1965

HELIOCENTRIC CONIC DISTANCE 153.928

RL	150.39	LAL	.00	LOL	352.92	VL	18.353	GAL	24.14	AZL	92.59	HCA	48.57	SMA	92.93	ECC	.69687	INC	2.5940	VI	29.628
RP	108.20	LAP	-1.94	LOP	41.46	VP	32.015	GAP	-43.36	AZP	91.72	TAL	168.20	TAP	216.77	RCA	28.17	APO	157.69	V2	35.023
RC	78.516	GL	-2.86	GP	-4.22	ZAL	58.30	ZAP	28.81	ETS	168.91	ZAE	131.55	ETE	179.81	ZAC	23.99	ETC	47.15	CLP	28.52

PLANETOCENTRIC CONIC

C3 230.428 VHL 15.180 DLA -24.01 RAL 297.14 RAD 6571.3 VEL 18.755 PTH 3.06 VHP 24.813 DPA -25.70 RAP 247.40 ECC 4.7923

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 13 1	1886.47	-10.49	21.68	193.02	116.45	11 44 28	1286.5	-6.86	14.89
90.00	15 46 9	977.96	17.47	329.63	205.64	112.64	16 2 27	378.0	20.39	322.17
100.00	12 14 33	1687.84	-13.04	5.77	191.70	117.14	12 42 41	1087.8	-9.30	358.98
100.00	17 27 19	651.82	20.11	306.79	206.79	112.60	17 38 10	51.8	22.99	299.18
110.00	12 43 40	1596.55	-18.92	355.60	188.44	119.01	13 10 16	996.5	-14.91	348.78
110.00	19 14 41	5603.92	26.25	261.97	209.58	112.72	20 48 5	5003.9	29.10	253.94

DIFFERENTIAL CORRECTIONS

TDE	-.4846	TRA	-2.1624	TC3	-.1529	BAU	.4711												
RDE	-1.2293	RRA	.3745	RC3	.0027	FAU	.01106												
FDE	.1935	FRA	.8803	FC3	-.0415	BSP	2449												
BDE	1.3214	BRA	2.1946	BC3	.1529	FSP	-72												

MID-COURSE EXECUTION ACCURACY

SGT	1023.4	SGR	489.2	SG3	33.9						
RRT	-.1141	RRF	.1115	RTF	-.6977						
SGB	1134.3	R23	-.0088	R13	.6984						
SG1	1025.3	SG2	485.0	THA	175.98						

ORBIT DETERMINATION ACCURACY

ST	324.8	SR	466.3	SS	281.6						
CRT	.4782	CRS	.4706	CST	.9974						
LSA	545.6	MSA	323.1	SSA	15.3						
EL1	503.0	EL2	264.5	ALF	63.85						

LAUNCH DATE SEP 16 1965 FLIGHT TIME 82.00 ARRIVAL DATE DEC 7 1965

HELIOCENTRIC CONIC DISTANCE 159.818

RL	150.39	LAL	.00	LOL	352.92	VL	18.953	GAL	23.10	AZL	92.27	HCA	51.76	SMA	94.41	ECC	.67188	INC	2.2739	VI	29.628
RP	108.16	LAP	-1.79	LOP	44.66	VP	32.377	GAP	-41.53	AZP	91.41	TAL	167.37	TAP	219.13	RCA	30.98	APO	157.84	V2	35.036
RC	76.333	GL	-2.72	GP	-4.35	ZAL	57.11	ZAP	27.43	ETS	168.17	ZAE	131.68	ETE	180.23	ZAC	23.00	ETC	50.70	CLP	27.10

PLANETOCENTRIC CONIC

C3 211.946 VHL 14.558 DLA -23.65 RAL 298.40 RAD 6571.2 VEL 18.256 PTH 3.03 VHP 23.915 DPA -26.19 RAP 249.31 ECC 4.4881

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 12 29	1893.63	-10.71	22.10	193.33	116.37	11 44 3	1293.6	-7.08	15.30
90.00	15 56 41	946.42	18.29	327.67	206.19	112.00	16 12 27	346.4	21.12	320.14
100.00	12 14 54	1692.13	-13.17	6.02	192.06	117.08	12 43 7	1092.1	-9.44	359.22
100.00	17 36 56	623.16	20.84	304.98	207.28	111.92	17 47 19	23.2	23.64	297.30
110.00	12 45 21	1596.67	-18.92	355.61	188.87	119.01	13 11 58	996.7	-14.91	348.79
110.00	19 22 59	5579.42	26.89	260.35	209.94	111.95	20 55 59	4979.4	29.62	252.23

DIFFERENTIAL CORRECTIONS

TDE	-.5115	TRA	-2.1921	TC3	-.1635	BAU	.4633												
RDE	-1.1802	RRA	.3829	RC3	.0020	FAU	.01108												
FDE	.2120	FRA	.9128	FC3	-.0453	BSP	2425												
BDE	1.2863	BRA	2.2253	BC3	.1635	FSP	-77												

MID-COURSE EXECUTION ACCURACY

SGT	1074.4	SGR	492.8	SG3	36.5						
RRT	-.1212	RRF	.1203	RTF	-.7134						
SGB	1182.0	R23	-.0114	R13	.7141						
SG1	1076.4	SG2	488.2	THA	175.99						

ORBIT DETERMINATION ACCURACY

ST	347.2	SR	467.1	SS	298.1						
CRT	.4905	CRS	.4887	CST	.9976						
LSA	564.3	MSA	330.0	SSA	15.5						
EL1	512.5	EL2	275.7	ALF	60.76						

LAUNCH DATE SEP 16 1965 FLIGHT TIME 84.00 ARRIVAL DATE DEC 9 1965

HELIOCENTRIC CONIC DISTANCE 165.800

RL	150.39	LAL	.00	LOL	352.92	VL	19.517	GAL	22.11	AZL	91.98	HCA	54.96	SMA	95.89	ECC	.64726	INC	1.9806	VI	29.628
RP	108.12	LAP	-1.62	LOP	47.87	VP	32.725	GAP	-39.78	AZP	91.14	TAL	166.55	TAP	221.51	RCA	33.82	APO	157.96	V2	35.049
RC	74.169	GL	-2.57	GP	-4.50	ZAL	55.96	ZAP	26.07	ETS	167.35	ZAE	131.89	ETE	180.70	ZAC	22.12	ETC	54.62	CLP	25.70

PLANETOCENTRIC CONIC

C3 194.962 VHL 13.963 DLA -23.28 RAL 299.59 RAD 6571.1 VEL 17.784 PTH 2.99 VHP 23.045 DPA -26.68 RAP 251.25 ECC 4.2086

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 11 39	1900.49	-10.92	22.49	193.54	116.29	11 43 20	1300.5	-7.30	15.69
90.00	16 7 1	913.97	19.10	325.64	206.61	111.31	16 22 15	314.0	21.83	318.03
100.00	12 14 56	1696.23	-13.30	6.26	192.32	117.02	12 43 12	1096.2	-9.57	359.46
100.00	17 46 25	5881.49	21.59	280.99	207.64	111.19	19 24 27	5281.5	24.28	273.23
110.00	12 46 41	1596.65	-18.92	355.60	189.21	119.01	13 13 18	996.7	-14.91	348.79
110.00	19 31 9	5553.84	27.53	258.63	210.17	111.12	21 3 43	4953.8	30.14	250.42

DIFFERENTIAL CORRECTIONS

TDE	-.4899	TRA	-2.1743	TC3	-.1648	BAU	.4295												
RDE	-1.1321	RRA	.3891	RC3	.0009	FAU	.01139												
FDE	.2248	FRA	.9403	FC3	-.0506	BSP	3545												
BDE	1.2336	BRA	2.2089	BC3	.1648	FSP	-95												

MID-COURSE EXECUTION ACCURACY

SGT	1093.4	SGR	496.0	SG3	39.1						
RRT	-.1412	RRF	.1328	RTF	-.7304						
SGB	1200.7	R23	-.0037	R13	.7310						
SG1	1096.2	SG2	489.8	THA	175.42						

ORBIT DETERMINATION ACCURACY

ST	354.3	SR	467.5	SS	311.1						
CRT	.4721	CRS	.4967	CST	.9974						
LSA	571.6	MSA	337.4	SSA	15.4						
EL1	512.8	EL2	284.7	ALF	60.37						

LAUNCH DATE SEP 16 1965 FLIGHT TIME 86.00 ARRIVAL DATE DEC 11 1965

HELIOCENTRIC CONIC DISTANCE 171.877

RL	150.39	LAL	.00	LOL	352.92	VL	20.049	GAL	21.17	AZL	91.71	HCA	58.16	SMA	97.37	ECC	.62312	INC	1.7092	VI	29.628
RP	108.08	LAP	-1.45	LOP	51.07	VP	33.058	GAP	-38.10	AZP	90.90	TAL	165.75	TAP	223.91	RCA	36.70	APO	158.04	V2	35.063
RC	72.025	GL	-2.39	GP	-4.65	ZAL	54.85	ZAP	24.73	ETS	166.42	ZAE	132.17	ETE	181.21	ZAC	21.35	ETC	58.91	CLP	24.31

PLANETOCENTRIC CONIC

C3	179.392	VHL	13.394	DLA	-22.88	RAL	300.72	RAD	6570.9	VEL	17.341	PTH	2.95	VHP	22.201	DPA	-27.16	RAP	253.23	ECC	3.9523

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 10 31	1907.16	-11.12	22.88	193.67	116.21	11 42 18	1307.2	-7.51	16.06
90.00	16 17 12	880.55	19.92	323.52	206.91	110.55	16 31 53	280.6	22.54	315.83
100.00	12 14 37	1700.26	-13.43	6.50	192.49	116.96	12 42 57	1100.3	-9.70	359.68
100.00	17 55 47	5850.72	22.33	279.01	207.88	110.40	19 33 18	5250.7	24.91	271.16
110.00	12 47 41	1596.58	-18.92	355.60	189.45	119.01	13 14 18	996.6	-14.91	348.78
110.00	19 39 13	5527.16	28.17	256.82	210.26	110.22	21 11 20	4927.2	30.66	248.51

DIFFERENTIAL CORRECTIONS

TDE	-.5207	TRA	-2.2098	TC3	-.1767	BAU	.4238						
RDE	-1.0831	RRA	.3956	RC3	-.0002	FAU	.01142						
FDE	.2450	FRA	.9756	FC3	-.0551	BSP	3399						
BDE	1.2018	BRA	2.2449	BC3	.1767	FSP	-99						

MID-COURSE EXECUTION ACCURACY

SGT	1151.7	SGR	498.4	SG3	42.1						
RRT	-.1481	RRF	.1428	RTF	-.7445						
SGB	1254.9	R23	-.0080	RI3	.7452						
SG1	1154.6	SG2	491.7	THA	175.52						

ORBIT DETERMINATION ACCURACY

ST	380.2	SR	466.6	SS	329.3						
CRT	.4861	CRS	.5127	CST	.9975						
LSA	594.4	MSA	342.3	SSA	15.7						
EL1	524.2	EL2	295.7	ALF	56.49						

LAUNCH DATE SEP 16 1965 FLIGHT TIME 88.00 ARRIVAL DATE DEC 13 1965

HELIOCENTRIC CONIC DISTANCE 178.036

RL	150.39	LAL	.00	LOL	352.92	VL	20.549	GAL	20.28	AZL	91.46	HCA	61.37	SMA	98.84	ECC	.59951	INC	1.4559	VI	29.628
RP	108.04	LAP	-1.28	LOP	54.28	VP	33.378	GAP	-36.50	AZP	90.70	TAL	164.96	TAP	226.33	RCA	39.59	APO	158.10	V2	35.076
RC	69.906	GL	-2.18	GP	-4.82	ZAL	53.79	ZAP	23.41	ETS	165.36	ZAE	132.53	ETE	181.78	ZAC	20.72	ETC	63.56	CLP	22.94

PLANETOCENTRIC CONIC

C3	165.084	VHL	12.849	DLA	-22.47	RAL	301.80	RAD	6570.8	VEL	16.924	PTH	2.92	VHP	21.383	DPA	-27.64	RAP	255.23	ECC	3.7169

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 9 5	1913.58	-11.31	23.25	193.72	116.13	11 40 59	1313.6	-7.71	16.43
90.00	16 27 14	846.18	20.72	321.33	207.08	109.74	16 41 20	246.2	23.23	313.55
100.00	12 13 59	1704.13	-13.54	6.72	192.58	116.90	12 42 23	1104.1	-9.83	359.90
100.00	18 5 1	5818.90	23.07	276.94	207.98	109.55	19 42 0	5218.9	25.53	269.00
110.00	12 48 21	1596.40	-18.92	355.59	189.61	119.02	13 14 57	996.4	-14.90	348.77
110.00	19 47 9	5499.39	28.81	254.92	210.23	109.25	21 18 48	4899.4	31.16	246.50

DIFFERENTIAL CORRECTIONS

TDE	-.5380	TRA	-2.2327	TC3	-.1862	BAU	.4110						
RDE	-1.0346	RRA	.4008	RC3	-.0016	FAU	.01153						
FDE	.2642	FRA	1.0104	FC3	-.0605	BSP	3553						
BDE	1.1661	BRA	2.2684	BC3	.1662	FSP	-108						

MID-COURSE EXECUTION ACCURACY

SGT	1203.0	SGR	500.3	SG3	45.4						
RRT	-.1592	RRF	.1545	RTF	-.7586						
SGB	1302.9	R23	-.0095	RI3	.7593						
SG1	1206.2	SG2	492.6	THA	175.45						

ORBIT DETERMINATION ACCURACY

ST	402.8	SR	465.0	SS	347.1						
CRT	.4908	CRS	.5251	CST	.9974						
LSA	615.3	MSA	346.6	SSA	15.8						
EL1	533.9	EL2	305.6	ALF	53.18						

LAUNCH DATE SEP 16 1965 FLIGHT TIME 90.00 ARRIVAL DATE DEC 15 1965

HELIOCENTRIC CONIC DISTANCE 184.274

RL	150.39	LAL	.00	LOL	352.92	VL	21.019	GAL	19.42	AZL	91.22	HCA	64.58	SMA	100.30	ECC	.57647	INC	1.2174	VI	29.628
RP	108.00	LAP	-1.10	LOP	57.49	VP	33.683	GAP	-34.96	AZP	90.52	TAL	164.20	TAP	228.78	RCA	42.48	APO	158.13	V2	35.089
RC	67.813	GL	-1.96	GP	-5.01	ZAL	52.77	ZAP	22.12	ETS	164.14	ZAE	132.97	ETE	182.42	ZAC	20.24	ETC	68.52	CLP	21.58

PLANETOCENTRIC CONIC

C3	151.938	VHL	12.326	DLA	-22.03	RAL	302.82	RAD	6570.7	VEL	16.531	PTH	2.88	VHP	20.589	DPA	-28.11	RAP	257.26	ECC	3.5005

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 7 21	1919.80	-11.50	23.62	193.67	116.06	11 39 21	1319.8	-7.90	16.78
90.00	16 37 6	810.82	21.52	319.04	207.12	108.86	16 50 37	210.8	23.90	311.17
100.00	12 13 0	1707.90	-13.66	6.94	192.57	116.85	12 41 28	1107.9	-9.95	.12
100.00	18 14 8	5786.00	23.80	274.77	207.96	108.63	19 50 34	5186.0	26.13	266.74
110.00	12 48 39	1596.14	-18.91	355.57	189.67	119.02	13 15 15	996.1	-14.89	348.76
110.00	19 54 58	5470.51	29.44	252.91	210.06	108.21	21 26 8	4870.5	31.64	244.39

DIFFERENTIAL CORRECTIONS

TDE	-.5551	TRA	-2.2560	TC3	-.1960	BAU	.3981						
RDE	-.9863	RRA	.4053	RC3	-.0032	FAU	.01166						
FDE	.2842	FRA	1.0466	FC3	-.0664	BSP	3699						
BDE	1.1318	BRA	2.2922	BC3	.1960	FSP	-117						

MID-COURSE EXECUTION ACCURACY

SGT	1256.9	SGR	501.6	SG3	48.8						
RRT	-.1709	RRF	.1672	RTF	-.7720						
SGB	1353.3	R23	-.0114	RI3	.7728						
SG1	1260.3	SG2	492.8	THA	175.39						

ORBIT DETERMINATION ACCURACY

ST	426.6	SR	462.5	SS	365.7						
CRT	.4948	CRS	.5360	CST	.9972						
LSA	638.0	MSA	349.7	SSA	16.0						
EL1	544.8	EL2	314.7	ALF	49.65						

LAUNCH DATE SEP 16 1965 FLIGHT TIME 92.00 ARRIVAL DATE DEC 17 1965

HELIOCENTRIC CONIC DISTANCE 190.585

RL	150.39	LAL	.00	LOL	352.92	VL	21.462	GAL	18.60	AZL	90.99	HCA	67.79	SMA	101.75	ECC	.55406	INC	.9911	VI	29.628
RP	107.96	LAP	-.92	LOP	60.71	VP	33.974	GAP	-33.49	AZP	90.37	TAL	163.45	TAP	231.24	RCA	45.37	APO	158.13	V2	35.101
RC	65.751	GL	-1.71	GP	-5.21	ZAL	51.79	ZAP	20.86	ETS	162.75	ZAE	133.49	ETE	183.12	ZAC	19.94	ETC	73.73	CLP	20.22

PLANETOCENTRIC CONIC

C3	139.857	VHL	11.826	DLA	-21.57	RAL	303.78	RAD	6570.5	VEL	16.161	PTH	2.84	VHP	19.819	DPA	-28.57	RAP	259.32	ECC	3.3017

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 5 18	1925.87	-11.68	23.97	193.53	115.98	11 37 24	1325.9	-8.09	17.13
90.00	16 46 49	774.45	22.30	316.66	207.02	107.92	16 59 43	174.4	24.54	308.70
100.00	12 11 42	1711.59	-13.77	7.16	192.47	116.79	12 40 13	1111.6	-10.07	.33
100.00	18 23 6	5752.01	24.53	272.50	207.80	107.65	19 58 58	5152.0	26.71	264.38
110.00	12 48 37	1595.85	-18.90	355.56	189.64	119.03	13 15 13	995.8	-14.88	348.74
110.00	20 2 40	5440.51	30.06	250.79	209.75	107.10	21 33 21	4840.5	32.10	242.17

DIFFERENTIAL CORRECTIONS

TDE	-.5706	TRA	-2.2783	TC3	-.2057	BAU	.3847						
RDE	-.9384	RRA	.4091	RC3	-.0053	FAU	.01181						
FDE	.3048	FRA	1.0841	FC3	-.0731	BSP	3865						
BDE	1.0983	BRA	2.3147	BC3	.2057	FSP	-127						

MID-COURSE EXECUTION ACCURACY

SGT	1312.2	SGR	502.3	SG3	52.6						
RRT	-.1839	RRF	.1811	RTF	-.7849						
SGB	1405.0	R23	-.0133	RI3	.7857						
SG1	1315.9	SG2	492.3	THA	175.32						

ORBIT DETERMINATION ACCURACY

ST	451.0	SR	459.1	SS	385.0						
CRT	.4971	CRS	.5455	CST	.9969						
LSA	662.1	MSA	351.9	SSA	16.1						
EL1	556.9	EL2	322.7	ALF	46.02						

LAUNCH DATE SEP 16 1965 FLIGHT TIME 94.00 ARRIVAL DATE DEC 19 1965

HELIOCENTRIC CONIC DISTANCE 196.963

RL	150.39	LAL	.00	LOL	352.92	VL	21.879	GAL	17.81	AZL	90.77	HCA	71.00	SMA	103.18	ECC	.53231	INC	.7749	V1	29.628
RP	107.92	LAP	-.73	LOP	63.92	VP	34.252	GAP	-32.07	AZP	90.25	TAL	162.74	TAP	233.74	RCA	48.26	APO	158.10	V2	35.114
RC	63.722	GL	-1.42	GP	-5.43	ZAL	50.86	ZAP	19.62	ETS	161.13	ZAE	134.09	ETE	183.91	ZAC	19.83	ETC	79.11	CLP	18.88

PLANETOCENTRIC CONIC

C3	128.754	VHL	11.347	DLA	-21.09	RAL	304.68	RAD	6570.4	VEL	15.814	PTH	2.80	VHP	19.072	DPA	-29.02	RAP	261.40	ECC	3.1190

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 2 55	1931.85	-11.86	24.32	193.31	115.90	11 35 7	1331.9	-8.28	17.47
90.00	16 56 23	737.04	23.06	314.18	206.79	106.90	17 8 40	137.0	25.16	306.14
100.00	12 10 2	1715.26	-13.89	7.37	192.28	116.74	12 38 37	1115.3	-10.19	.53
100.00	18 31 58	5716.90	25.23	270.13	207.50	106.59	20 7 15	5116.9	27.26	261.92
110.00	12 48 13	1595.56	-18.89	355.54	189.52	119.04	13 14 49	995.6	-14.87	348.73
110.00	20 10 16	5409.37	30.66	248.56	209.29	105.91	21 40 25	4809.4	32.53	239.85

DIFFERENTIAL CORRECTIONS

TDE	-.5829	TRA	-2.2976	TC3	-.2146	BAU	.3697												
RDE	-.8909	RRA	.4122	RC3	-.0077	FAU	.01200												
FDE	.3260	FRA	1.1229	FC3	-.0807	BSP	4089												
BDE	1.0647	BRA	2.3343	BC3	.2148	FSP	-138												

MID-COURSE EXECUTION ACCURACY

SGT	1367.5	SGR	502.4	SG3	56.7														
RRT	-.1986	RRF	.1964	RTF	-.7973														
SGB	1456.8	R23	-.0149	R13	.7981														
SG1	1371.6	SG2	490.9	THA	175.21														

ORBIT DETERMINATION ACCURACY

ST	475.4	SR	454.8	SS	404.8														
CRT	.4970	CRS	.5535	CST	.9964														
LSA	686.9	MSA	353.1	SSA	16.3														
EL1	569.5	EL2	329.5	ALF	42.46														

LAUNCH DATE SEP 16 1965 FLIGHT TIME 96.00 ARRIVAL DATE DEC 21 1965

HELIOCENTRIC CONIC DISTANCE 203.403

RL	150.39	LAL	.00	LOL	352.92	VL	22.271	GAL	17.06	AZL	90.57	HCA	74.22	SMA	104.59	ECC	.51124	INC	.5666	V1	29.628
RP	107.89	LAP	-.55	LOP	67.14	VP	34.516	GAP	-30.70	AZP	90.15	TAL	162.04	TAP	236.26	RCA	51.12	APO	158.05	V2	35.126
RC	61.731	GL	-1.11	GP	-5.68	ZAL	49.97	ZAP	18.41	ETS	159.25	ZAE	134.78	ETE	184.79	ZAC	19.91	ETC	84.53	CLP	17.54

PLANETOCENTRIC CONIC

C3	118.553	VHL	10.888	DLA	-20.58	RAL	305.52	RAD	6570.2	VEL	15.488	PTH	2.76	VHP	18.346	DPA	-29.47	RAP	263.50	ECC	2.9511

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 0 12	1937.83	-12.04	24.67	193.00	115.83	11 32 30	1337.8	-8.46	17.81
90.00	17 5 50	698.54	23.80	311.60	206.42	105.81	17 17 29	98.5	25.74	303.47
100.00	12 8 0	1718.99	-14.00	7.59	192.01	116.68	12 36 39	1119.0	-10.31	.75
100.00	18 40 43	5680.65	25.91	267.65	207.07	105.45	20 15 23	5080.7	27.78	259.35
110.00	12 47 27	1595.34	-18.88	355.53	189.32	119.04	13 14 3	995.3	-14.86	348.71
110.00	20 17 45	5377.06	31.24	246.22	208.70	104.64	21 47 22	4777.1	32.93	237.41

DIFFERENTIAL CORRECTIONS

TDE	-.5944	TRA	-2.3165	TC3	-.2234	BAU	.3545												
RDE	-.8439	RRA	.4147	RC3	-.0105	FAU	.01222												
FDE	.3480	FRA	1.1634	FC3	-.0892	BSP	4315												
BDE	1.0322	BRA	2.3533	BC3	.2237	FSP	-151												

MID-COURSE EXECUTION ACCURACY

SGT	1424.7	SGR	502.1	SG3	61.0														
RRT	-.2146	RRF	.2132	RTF	-.8091														
SGB	1510.6	R23	-.0168	R13	.8099														
SG1	1429.3	SG2	488.8	THA	175.10														

ORBIT DETERMINATION ACCURACY

ST	500.6	SR	449.6	SS	425.5														
CRT	.4958	CRS	.5601	CST	.9958														
LSA	713.2	MSA	353.4	SSA	16.4														
EL1	583.6	EL2	334.9	ALF	38.87														

LAUNCH DATE SEP 16 1965 FLIGHT TIME 98.00 ARRIVAL DATE DEC 23 1965

HELIOCENTRIC CONIC DISTANCE 209.900

RL	150.39	LAL	.00	LOL	352.92	VL	22.639	GAL	16.34	AZL	90.36	HCA	77.44	SMA	105.97	ECC	.49088	INC	.3648	V1	29.628
RP	107.85	LAP	-.36	LOP	70.36	VP	34.767	GAP	-29.38	AZP	90.08	TAL	161.37	TAP	238.81	RCA	53.95	APO	157.98	V2	35.138
RC	59.781	GL	-.76	GP	-5.94	ZAL	49.12	ZAP	17.23	ETS	157.04	ZAE	135.56	ETE	185.77	ZAC	20.20	ETC	89.89	CLP	16.21

PLANETOCENTRIC CONIC

C3	109.184	VHL	10.449	DLA	-20.04	RAL	306.31	RAD	6570.1	VEL	15.183	PTH	2.73	VHP	17.643	DPA	-29.92	RAP	265.63	ECC	2.7969

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 57 7	1943.90	-12.21	25.02	192.61	115.75	11 29 31	1343.9	-8.65	18.16
90.00	17 15 11	658.93	24.51	308.91	205.91	104.65	17 26 10	58.9	26.28	300.69
100.00	12 5 36	1722.87	-14.12	7.82	191.65	116.62	12 34 19	1122.9	-10.43	.97
100.00	18 49 22	5643.23	26.56	265.06	206.49	104.24	20 23 25	5043.2	28.26	256.67
110.00	12 46 19	1595.28	-18.88	355.52	189.03	119.04	13 12 54	995.3	-14.86	348.71
110.00	20 25 9	5343.58	31.79	243.77	207.96	103.28	21 54 12	4743.6	33.29	234.86

DIFFERENTIAL CORRECTIONS

TDE	-.6073	TRA	-2.3370	TC3	-.2328	BAU	.3405												
RDE	-.7973	RRA	.4170	RC3	-.0139	FAU	.01244												
FDE	.3713	FRA	1.2062	FC3	-.0987	BSP	4488												
BDE	1.0023	BRA	2.3740	BC3	.2332	FSP	-164												

MID-COURSE EXECUTION ACCURACY

SGT	1486.1	SGR	501.2	SG3	65.8														
RRT	-.2314	RRF	.2315	RTF	-.8201														
SGB	1568.3	R23	-.0196	R13	.8210														
SG1	1491.1	SG2	486.0	THA	175.01														

ORBIT DETERMINATION ACCURACY

ST	527.8	SR	443.3	SS	447.3														
CRT	.4947	CRS	.5658	CST	.9953														
LSA	742.0	MSA	352.5	SSA	16.5														
EL1	600.3	EL2	338.7	ALF	35.23														

LAUNCH DATE SEP 16 1965 FLIGHT TIME 100.00 ARRIVAL DATE DEC 25 1965

HELIOCENTRIC CONIC DISTANCE 216.449

RL	150.39	LAL	.00	LOL	352.92	VL	22.985	GAL	15.65	AZL	90.17	HCA	80.66	SMA	107.32	ECC	.47124	INC	.1671	V1	29.628
RP	107.81	LAP	-.17	LOP	73.58	VP	35.005	GAP	-28.11	AZP	90.03	TAL	160.74	TAP	241.39	RCA	56.75	APO	157.90	V2	35.149
RC	57.879	GL	-.37	GP	-6.23	ZAL	48.32	ZAP	16.10	ETS	154.44	ZAE	136.43	ETE	186.89	ZAC	20.68	ETC	95.07	CLP	14.88

PLANETOCENTRIC CONIC

C3	100.580	VHL	10.029	DLA	-19.48	RAL	307.03	RAD	6569.9	VEL	14.897	PTH	2.69	VHP	16.960	DPA	-30.36	RAP	267.78	ECC	2.6553

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 53 39	1950.18	-12.40	25.39	192.14	115.66	11 26 9	1350.2	-8.85	18.52
90.00	17 24 25	618.15	25.18	306.12	205.25	103.40	17 34 43	18.1	26.78	297.81
100.00	12 2 49	1726.99	-14.24	8.06	191.21	116.56	12 31 36	1127.0	-10.57	1.20
100.00	18 57 57	5604.60	27.18	262.36	205.77	102.94	20 31 21	5004.6	28.69	253.88
110.00	12 44 47	1595.48	-18.88	355.54	188.66	119.04	13 11 22	995.5	-14.87	348.72
110.00	20 32 28	5308.88	32.30	241.19	207.07	101.84	22 0 57	4708.9	33.60	232.20

DIFFERENTIAL CORRECTIONS

TDE	-.6170	TRA	-2.3544	TC3	-.2410	BAU	.3249												
RDE	-.7513	RRA	.4191	RC3	-.0178	FAU	.01272												
FDE	.3955	FRA	1.2508	FC3	-.1094	BSP	4719												
BDE	.9722	BRA	2.3914	BC3	.2417	FSP	-179												

MID-COURSE EXECUTION ACCURACY

SGT	1547.1	SGR	500.0	SG3	70.9														
RRT	-.2504	RRF	.2518	RTF	-.8307														
SGB	1625.8	R23	-.0221	R13	.8317														
SG1	1552.7	SG2	482.3	THA	174.88														

ORBIT DETERMINATION ACCURACY

ST	554.7	SR	435.9	SS	469.8														
CRT	.4910	CRS	.5698	CST	.9946														
LSA	771.4	MSA	350.8	SSA	16.6														
EL1	617.5	EL2	341.1	ALF	31.82														

LAUNCH DATE SEP 16 1965 FLIGHT TIME 102.00 ARRIVAL DATE DEC 27 1965

HELIOCENTRIC CONIC DISTANCE 223.045

RL	150.39	LAL	.00	LOL	352.92	VL	23.311	GAL	14.98	AZL	89.97	HCA	83.88	SMA	108.64	ECC	.45233	INC	.0221	V1	29.628
RP	107.78	LAP	.03	LOP	76.80	VP	35.230	GAP	-26.89	AZP	90.00	TAL	160.13	TAP	244.01	RCA	59.50	APO	157.79	V2	35.160
RC	56.028	GL	.06	GP	-6.55	ZAL	47.57	ZAP	15.02	ETS	151.35	ZAE	137.40	ETE	188.15	ZAC	21.35	ETC	99.98	CLP	13.55

PLANETOCENTRIC CONIC

C3	92.685	VHL	9.627	DLA	-18.88	RAL	307.70	RAD	6569.8	VEL	14.630	PTH	2.65	VHP	16.298	DPA	-30.80	RAP	269.95	ECC	2.5254

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 49 47	1956.80	-12.60	25.78	191.58	115.57	11 22 24	1356.8	-9.05	18.90
90.00	17 33 35	5864.20	25.81	281.11	204.46	102.07	19 11 19	5264.2	27.22	272.72
100.00	11 59 36	1731.51	-14.38	8.32	190.69	116.49	12 28 28	1131.5	-10.71	1.46
100.00	19 6 27	5564.72	27.76	259.53	204.92	101.56	20 39 12	4964.7	29.07	250.98
110.00	12 42 50	1596.04	-18.90	355.57	188.20	119.03	13 9 26	996.0	-14.89	348.75
110.00	20 39 42	5272.95	32.77	238.50	206.04	100.31	22 7 35	4673.0	33.85	229.42

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-.6259	TRA	-2.3709	TC3	-.2487	BAU	.3095	SGT	1609.9	SGR	498.4	SG3	76.5	ST	582.3	SR	427.5	SS	493.4
RDE	-.7058	RRA	.4210	RC3	-.0224	FAU	.01301	RRT	-.2714	RRF	.2742	RTF	-.8408	CRT	.4859	CRS	.5725	CST	.9938
FDE	.4209	FRA	1.2978	FC3	-.1216	BSP	4953	SGB	1685.3	R23	-.0249	R13	.8418	LSA	802.3	MSA	348.2	SSA	16.7
BDE	.9434	BRA	2.4079	BC3	.2487	FSP	-195	SG1	1616.1	SG2	477.9	THA	174.74	EL1	636.4	EL2	341.9	ALF	28.57

LAUNCH DATE SEP 16 1965 FLIGHT TIME 104.00 ARRIVAL DATE DEC 29 1965

HELIOCENTRIC CONIC DISTANCE 229.682

RL	150.39	LAL	.00	LOL	352.92	VL	23.616	GAL	14.34	AZL	89.78	HCA	87.11	SMA	109.93	ECC	.43416	INC	.2164	V1	29.628
RP	107.75	LAP	.22	LOP	80.03	VP	35.443	GAP	-25.71	AZP	89.99	TAL	159.55	TAP	246.66	RCA	62.20	APO	157.66	V2	35.171
RC	54.237	GL	.54	GP	-6.90	ZAL	46.86	ZAP	14.01	ETS	147.69	ZAE	138.46	ETE	189.58	ZAC	22.20	ETC	104.56	CLP	12.22

PLANETOCENTRIC CONIC

C3	85.443	VHL	9.244	DLA	-18.24	RAL	308.30	RAD	6569.7	VEL	14.380	PTH	2.61	VHP	15.656	DPA	-31.25	RAP	272.13	ECC	2.4062

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 45 29	1963.94	-12.80	26.20	190.96	115.47	11 18 13	1363.9	-9.27	19.30
90.00	17 42 41	5820.94	26.39	278.07	203.53	100.65	19 19 42	5220.9	27.60	269.61
100.00	11 55 57	1736.55	-14.53	8.62	190.09	116.41	12 24 54	1136.6	-10.87	1.74
100.00	19 14 54	5523.56	28.28	256.59	203.92	100.10	20 46 58	4923.6	29.39	247.96
110.00	12 40 27	1597.12	-18.94	355.63	187.67	119.00	13 7 4	997.1	-14.93	348.81
110.00	20 46 54	5235.75	33.19	235.67	204.86	98.69	22 14 9	4635.8	34.04	226.54

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-.6337	TRA	-2.3861	TC3	-.2556	BAU	.2937	SGT	1674.1	SGR	496.7	SG3	82.5	ST	610.5	SR	418.0	SS	518.0
RDE	-.6609	RRA	.4230	RC3	-.0277	FAU	.01335	RRT	-.2945	RRF	.2991	RTF	-.8504	CRT	.4790	CRS	.5736	CST	.9929
FDE	.4476	FRA	1.3473	FC3	-.1352	BSP	5197	SGB	1746.2	R23	-.0282	R13	.8515	LSA	834.6	MSA	344.8	SSA	16.8
BDE	.9156	BRA	2.4233	BC3	.2571	FSP	-213	SG1	1681.0	SG2	472.7	THA	174.58	EL1	656.5	EL2	341.2	ALF	25.50

LAUNCH DATE SEP 16 1965 FLIGHT TIME 106.00 ARRIVAL DATE DEC 31 1965

HELIOCENTRIC CONIC DISTANCE 236.358

RL	150.39	LAL	.00	LOL	352.92	VL	23.902	GAL	13.73	AZL	89.59	HCA	90.33	SMA	111.19	ECC	.41673	INC	.4069	V1	29.628
RP	107.72	LAP	.41	LOP	83.25	VP	35.645	GAP	-24.57	AZP	90.00	TAL	159.01	TAP	249.34	RCA	64.85	APO	157.52	V2	35.181
RC	52.511	GL	1.07	GP	-7.29	ZAL	46.20	ZAP	13.08	ETS	143.35	ZAE	139.61	ETE	191.21	ZAC	23.21	ETC	108.75	CLP	10.90

PLANETOCENTRIC CONIC

C3	78.808	VHL	8.877	DLA	-17.56	RAL	308.84	RAD	6569.5	VEL	14.148	PTH	2.58	VHP	15.034	DPA	-31.70	RAP	274.33	ECC	2.2970

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 40 44	1971.75	-13.03	26.66	190.26	115.36	11 13 35	1371.8	-9.51	19.75
90.00	17 51 45	5776.37	26.91	274.92	202.46	99.15	19 28 2	5176.4	27.90	266.39
100.00	11 51 50	1742.30	-14.71	8.96	189.42	116.32	12 20 52	1142.3	-11.05	2.07
100.00	19 23 20	5481.06	28.75	253.52	202.78	98.55	20 54 41	4881.1	29.64	244.82
110.00	12 37 37	1598.87	-19.00	355.73	187.07	118.97	13 4 16	998.9	-14.99	348.91
110.00	20 54 2	5197.26	33.55	232.73	203.55	96.98	22 20 40	4597.3	34.15	223.53

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-.6406	TRA	-2.4004	TC3	-.2617	BAU	.2780	SGT	1739.9	SGR	494.8	SG3	89.1	ST	639.4	SR	407.2	SS	543.8
RDE	-.6165	RRA	.4254	RC3	-.0338	FAU	.01371	RRT	-.3200	RRF	.3266	RTF	-.8595	CRT	.4703	CRS	.5730	CST	.9919
FDE	.4760	FRA	1.3998	FC3	-.1507	BSP	5444	SGB	1808.9	R23	-.0319	R13	.8607	LSA	868.4	MSA	340.5	SSA	16.9
BDE	.8891	BRA	2.4378	BC3	.2639	FSP	-232	SG1	1747.7	SG2	466.7	THA	174.40	EL1	678.1	EL2	338.9	ALF	22.61

LAUNCH DATE SEP 16 1965 FLIGHT TIME 108.00 ARRIVAL DATE JAN 2 1966

HELIOCENTRIC CONIC DISTANCE 243.066

RL	150.39	LAL	.00	LOL	352.92	VL	24.171	GAL	13.15	AZL	89.40	HCA	93.56	SMA	112.40	ECC	.40004	INC	.5975	V1	29.628
RP	107.69	LAP	.60	LOP	86.48	VP	35.835	GAP	-23.46	AZP	90.04	TAL	158.50	TAP	252.06	RCA	67.44	APO	157.37	V2	35.191
RC	50.858	GL	1.65	GP	-7.72	ZAL	45.59	ZAP	12.26	ETS	138.21	ZAE	140.85	ETE	193.09	ZAC	24.36	ETC	112.55	CLP	9.56

PLANETOCENTRIC CONIC

C3	72.733	VHL	8.528	DLA	-16.84	RAL	309.32	RAD	6569.4	VEL	13.931	PTH	2.54	VHP	14.432	DPA	-32.16	RAP	276.54	ECC	2.1970

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 35 28	1980.46	-13.29	27.17	189.49	115.24	11 8 29	1380.5	-9.78	20.25
90.00	18 0 49	5730.42	27.37	271.63	201.25	97.57	19 36 20	5130.4	28.13	263.05
100.00	11 47 13	1748.94	-14.91	9.35	188.68	116.21	12 16 22	1148.9	-11.27	2.45
100.00	19 31 45	5437.17	29.16	250.32	201.51	96.91	21 2 22	4837.2	29.81	241.57
110.00	12 34 18	1601.46	-19.08	355.89	186.40	118.91	13 0 59	1001.5	-15.08	349.06
110.00	21 1 10	5157.42	33.84	229.65	202.09	95.18	22 27 8	4557.4	34.18	220.42

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-.6471	TRA	-2.4138	TC3	-.2668	BAU	.2624	SGT	1807.4	SGR	493.2	SG3	96.3	ST	669.0	SR	395.2	SS	571.0
RDE	-.5727	RRA	.4282	RC3	-.0409	FAU	.01412	RRT	-.3481	RRF	.3570	RTF	-.8681	CRT	.4594	CRS	.5703	CST	.9908
FDE	.5063	FRA	1.4554	FC3	-.1681	BSP	5686	SGB	1873.5	R23	-.0361	R13	.8693	LSA	903.8	MSA	335.4	SSA	17.0
BDE	.8641	BRA	2.4514	BC3	.2699	FSP	-253	SG1	1816.1	SG2	460.1	THA	174.20	EL1	701.1	EL2	334.9	ALF	19.91

120A

LAUNCH DATE SEP 16 1965 FLIGHT TIME 110.00 ARRIVAL DATE JAN 4 1966

HELIOCENTRIC CONIC DISTANCE 249.804

RL 150.39 LAL .00 LOL 352.92 VL 24.423 GAL 12.59 AZL 89.21 HCA 96.79 SMA 113.58 ECC .38408 INC .7896 VI 29.628
RP 107.66 LAP .78 LOP 89.72 VP 36.015 GAP -22.40 AZP 90.09 TAL 158.02 TAP 254.81 RCA 69.96 APO 157.21 V2 35.200
RC 49.288 GL 2.30 GP -8.19 ZAL 45.04 ZAP 11.59 ETS 132.21 ZAE 142.16 ETE 195.26 ZAC 25.65 ETC 115.95 CLP 8.22

PLANETOCENTRIC CONIC

C3 67.179 VHL 8.196 DLA -16.07 RAL 309.73 RAD 6569.3 VEL 13.731 PTH 2.51 VHP 13.848 DPA -32.64 RAP 278.76 ECC 2.1056

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 29 41	1990.29	-13.57	27.76	188.66	115.09	14 2 51	1390.3	-10.08	20.82
90.00	18 9 54	5683.02	27.75	268.21	199.91	95.89	19 44 37	5083.0	28.27	259.59
100.00	11 42 4	1756.71	-15.14	9.81	187.88	116.08	12 11 21	1156.7	-11.51	2.90
100.00	19 40 12	5391.83	29.48	246.99	200.11	95.18	21 10 4	4791.8	29.89	238.20
110.00	12 30 28	1605.11	-19.20	356.10	185.67	118.84	12 57 13	1005.1	-15.21	349.26
110.00	21 8 18	5116.20	34.04	226.45	200.50	93.29	22 33 34	4516.2	34.12	217.21

DIFFERENTIAL CORRECTIONS

TDE -.6525 TRA-2.4258 TC3 -.2705 BAU .2469
RDE -.5292 RRA .4318 RC3 -.0490 FAU .01457
FDE .5386 FRA 1.5146 FC3 -.1877 BSP 5943
BDE .8401 BRA 2.4640 BC3 .2749 FSP -276

MID-COURSE EXECUTION ACCURACY

SGT 1875.9 SGR 491.9 SG3 104.1
RRT -.3793 RRF .3908 RTF -.8763
SGB 1939.3 R23 -.0409 R13 .8776
SG1 1885.7 SG2 452.8 THA 173.97

ORBIT DETERMINATION ACCURACY

ST 698.9 SR 381.8 SS 599.5
CRT .4455 CRS .5651 CST .9896
LSA 940.7 MSA 329.5 SSA 17.1
EL1 725.0 EL2 329.5 ALF 17.37

LAUNCH DATE SEP 16 1965 FLIGHT TIME 112.00 ARRIVAL DATE JAN 6 1966

HELIOCENTRIC CONIC DISTANCE 256.566

RL 150.39 LAL .00 LOL 352.92 VL 24.659 GAL 12.05 AZL 89.02 HCA 100.03 SMA 114.72 ECC .36885 INC .9844 VI 29.628
RP 107.63 LAP .97 LOP 92.95 VP 36.183 GAP -21.37 AZP 90.17 TAL 157.58 TAP 257.61 RCA 72.40 APO 157.03 V2 35.209
RC 47.809 GL 3.01 GP -8.72 ZAL 44.54 ZAP 11.09 ETS 125.35 ZAE 143.54 ETE 197.76 ZAC 27.06 ETC 118.98 CLP 6.88

PLANETOCENTRIC CONIC

C3 62.107 VHL 7.881 DLA -15.24 RAL 310.08 RAD 6569.2 VEL 13.545 PTH 2.48 VHP 13.284 DPA -33.14 RAP 281.00 ECC 2.0221

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 23 18	2001.49	-13.89	28.42	187.77	114.92	10 56 40	1401.5	-10.42	21.47
90.00	18 19 2	5634.09	28.04	264.66	198.45	94.14	19 52 56	5034.1	28.32	256.01
100.00	11 36 21	1765.84	-15.41	10.35	187.03	115.93	12 5 46	1165.8	-11.80	3.42
100.00	19 48 41	5344.98	29.72	243.52	198.58	93.38	21 17 46	4745.0	29.87	234.72
110.00	12 26 5	1610.08	-19.36	356.39	184.89	118.74	12 52 55	1010.1	-15.38	349.54
110.00	21 15 27	5073.53	34.16	223.12	198.79	91.33	22 40 0	4473.5	33.97	213.88

DIFFERENTIAL CORRECTIONS

TDE -.6577 TRA-2.4372 TC3 -.2730 BAU .2318
RDE -.4861 RRA .4364 RC3 -.0582 FAU .01505
FDE .5734 FRA 1.5778 FC3 -.2098 BSP 6192
BDE .8179 BRA 2.4759 BC3 .2791 FSP -301

MID-COURSE EXECUTION ACCURACY

SGT 1945.9 SGR 491.3 SG3 112.5
RRT -.4135 RRF .4280 RTF -.8840
SGB 2006.9 R23 -.0465 R13 .8854
SG1 1957.0 SG2 444.8 THA 173.71

ORBIT DETERMINATION ACCURACY

ST 729.6 SR 366.9 SS 629.8
CRT .4284 CRS .5568 CST .9884
LSA 979.4 MSA 322.7 SSA 17.1
EL1 750.4 EL2 322.4 ALF 14.98

LAUNCH DATE SEP 16 1965 FLIGHT TIME 114.00 ARRIVAL DATE JAN 8 1966

HELIOCENTRIC CONIC DISTANCE 263.348

RL 150.39 LAL .00 LOL 352.92 VL 24.880 GAL 11.54 AZL 88.82 HCA 103.26 SMA 115.81 ECC .35434 INC 1.1831 VI 29.628
RP 107.61 LAP 1.15 LOP 96.18 VP 36.342 GAP -20.37 AZP 90.27 TAL 157.18 TAP 260.44 RCA 74.78 APO 156.85 V2 35.217
RC 46.433 GL 3.81 GP -9.30 ZAL 44.10 ZAP 10.80 ETS 117.75 ZAE 144.96 ETE 200.68 ZAC 28.57 ETC 121.64 CLP 5.52

PLANETOCENTRIC CONIC

C3 57.485 VHL 7.582 DLA -14.35 RAL 310.36 RAD 6569.0 VEL 13.373 PTH 2.44 VHP 12.739 DPA -33.67 RAP 283.24 ECC 1.9461

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 16 19	2014.36	-14.26	29.19	186.84	114.72	10 49 53	1414.4	-10.81	22.21
90.00	18 28 16	5583.54	28.23	260.98	196.87	92.30	20 1 19	4983.5	28.25	252.31
100.00	11 30 0	1776.61	-15.73	10.99	186.12	115.75	11 59 36	1176.6	-12.14	4.04
100.00	19 57 16	5296.52	29.86	239.93	196.93	91.49	21 25 32	4696.5	29.75	231.12
110.00	12 21 6	1616.53	-19.58	356.78	184.05	118.60	12 48 3	1016.5	-15.61	349.91
110.00	21 22 39	5029.37	34.18	219.67	196.96	89.29	22 46 28	4429.4	33.70	210.46

DIFFERENTIAL CORRECTIONS

TDE -.6625 TRA-2.4471 TC3 -.2736 BAU .2168
RDE -.4431 RRA .4423 RC3 -.0688 FAU .01558
FDE .6111 FRA 1.6453 FC3 -.2346 BSP 6446
BDE .7970 BRA 2.4867 BC3 .2821 FSP -328

MID-COURSE EXECUTION ACCURACY

SGT 2016.5 SGR 492.0 SG3 121.8
RRT -.4512 RRF .4689 RTF -.8913
SGB 2075.6 R23 -.0527 R13 .8929
SG1 2029.3 SG2 436.3 THA 173.41

ORBIT DETERMINATION ACCURACY

ST 760.7 SR 350.5 SS 661.8
CRT .4066 CRS .5445 CST .9871
LSA 1019.7 MSA 315.3 SSA 17.2
EL1 776.6 EL2 313.7 ALF 12.72

LAUNCH DATE SEP 16 1965 FLIGHT TIME 116.00 ARRIVAL DATE JAN 10 1966

HELIOCENTRIC CONIC DISTANCE 270.148

RL 150.39 LAL .00 LOL 352.92 VL 25.086 GAL 11.04 AZL 88.61 HCA 106.49 SMA 116.87 ECC .34054 INC 1.3872 VI 29.628
RP 107.58 LAP 1.33 LOP 99.42 VP 36.491 GAP -19.40 AZP 90.39 TAL 156.81 TAP 263.31 RCA 77.07 APO 156.66 V2 35.224
RC 45.168 GL 4.68 GP -9.96 ZAL 43.72 ZAP 10.78 ETS 109.67 ZAE 146.39 ETE 204.07 ZAC 30.18 ETC 123.97 CLP 4.15

PLANETOCENTRIC CONIC

C3 53.281 VHL 7.299 DLA -13.38 RAL 310.56 RAD 6568.9 VEL 13.215 PTH 2.41 VHP 12.213 DPA -34.24 RAP 285.50 ECC 1.8769

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 8 38	2029.21	-14.68	30.07	185.86	114.49	10 42 27	1429.2	-11.26	23.07
90.00	18 37 37	5531.27	28.31	257.16	195.17	90.38	20 9 48	4931.3	28.07	248.50
100.00	11 22 59	1789.34	-16.11	11.75	185.17	115.53	11 52 48	1189.3	-12.54	4.77
100.00	20 5 57	5246.38	29.89	236.20	195.17	89.53	21 33 23	4646.4	29.50	227.42
110.00	12 15 30	1624.86	-19.85	357.27	183.17	118.42	12 42 35	1024.9	-15.90	350.38
110.00	21 29 55	4983.62	34.08	216.10	195.03	87.18	22 52 59	4383.6	33.31	206.95

DIFFERENTIAL CORRECTIONS

TDE -.6672 TRA-2.4565 TC3 -.2727 BAU .2026
RDE -.4002 RRA .4499 RC3 -.0808 FAU .01615
FDE .6521 FRA 1.7176 FC3 -.2623 BSP 6695
BDE .7781 BRA 2.4974 BC3 .2844 FSP -358

MID-COURSE EXECUTION ACCURACY

SGT 2088.4 SGR 494.4 SG3 131.9
RRT -.4921 RRF .5135 RTF -.8981
SGB 2146.1 R23 -.0600 R13 .8999
SG1 2103.1 SG2 427.3 THA 173.07

ORBIT DETERMINATION ACCURACY

ST 792.5 SR 332.5 SS 695.9
CRT .3788 CRS .5266 CST .9856
LSA 1062.2 MSA 307.2 SSA 17.2
EL1 804.1 EL2 303.3 ALF 10.55

LAUNCH DATE SEP 16 1965 FLIGHT TIME 118.00 ARRIVAL DATE JAN 12 1966

HELIOCENTRIC CONIC DISTANCE 276.960

RL 150.39 LAL .00 LOL 352.92 VL 25.279 GAL 10.58 AZL 88.40 HCA 109.73 SMA 117.88 ECC .32743 INC 1.5984 VI 29.628
RP 107.56 LAP 1.50 LOP 102.66 VP 36.630 GAP -18.47 AZP 90.54 TAL 156.48 TAP 266.21 RCA 79.28 APO 156.47 V2 35.231
RC 44.025 GL 5.66 GP -10.69 ZAL 43.41 ZAP 11.04 ETS 101.54 ZAE 147.78 ETE 208.02 ZAC 31.88 ETC 125.98 CLP 2.76

PLANETOCENTRIC CONIC

C3 49.468 VHL 7.033 DLA -12.34 RAL 310.70 RAD 6568.8 VEL 13.070 PTH 2.39 VHP 11.706 DPA -34.86 RAP 287.77 ECC 1.8141

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 0 13	2046.41	-15.16	31.11	184.86	114.20	10 34 19	1446.4	-11.77	24.07
90.00	18 47 8	5477.16	28.28	253.20	193.37	88.40	20 18 25	4877.2	27.75	244.57
100.00	11 15 14	1804.38	-16.55	12.65	184.20	115.25	11 45 18	1204.4	-13.01	5.64
100.00	20 14 48	5194.42	29.80	232.34	193.31	87.50	21 41 22	4594.4	29.13	223.60
110.00	12 9 12	1635.35	-20.19	357.90	182.27	118.19	12 36 28	1035.4	-16.26	350.97
110.00	21 37 19	4936.21	33.86	212.42	193.00	85.01	22 59 35	4336.2	32.80	203.34

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.6716 TRA-2.4644 TC3 -.2691 BAU .1886 SGT 2160.1 SGR 499.2 SG3 142.8 ST 824.4 SR 312.9 SS 732.1
RDE -.3572 RRA .4597 RC3 -.0944 FAU .01677 RRT -.5363 RRF .5615 RTF -.9046 CRT .3425 CRS .5010 CST .9841
FDE .6968 FRA 1.7950 FC3 -.2934 BSP 6956 SGB 2217.0 R23 -.0681 R13 .9066 LSA 1106.4 MSA 298.6 SSA 17.3
BDE .7607 BRA 2.5069 BC3 .2852 FSP -391 SG1 2177.3 SG2 418.0 THA 172.66 EL1 832.3 EL2 291.2 ALF 8.45

LAUNCH DATE SEP 16 1965 FLIGHT TIME 120.00 ARRIVAL DATE JAN 14 1966

HELIOCENTRIC CONIC DISTANCE 283.783

RL 150.39 LAL .00 LOL 352.92 VL 25.460 GAL 10.13 AZL 88.18 HCA 112.97 SMA 118.84 ECC .31500 INC 1.8184 VI 29.628
RP 107.55 LAP 1.67 LOP 105.90 VP 36.761 GAP -17.56 AZP 90.71 TAL 156.19 TAP 269.16 RCA 81.41 APO 156.27 V2 35.237
RC 43.015 GL 6.73 GP -11.52 ZAL 43.18 ZAP 11.59 ETS 93.78 ZAE 149.07 ETE 212.60 ZAC 33.67 ETC 127.71 CLP 1.36

PLANETOCENTRIC CONIC

C3 46.022 VHL 6.784 DLA -11.21 RAL 310.77 RAD 6568.7 VEL 12.938 PTH 2.36 VHP 11.218 DPA -35.53 RAP 290.05 ECC 1.7574

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 50 59	2066.36	-15.72	32.31	183.83	113.86	10 25 26	1466.4	-12.36	25.24
90.00	18 56 52	5421.06	28.10	249.10	191.49	86.35	20 27 13	4821.1	27.30	240.53
100.00	11 6 41	1822.12	-17.06	13.72	183.20	114.92	11 37 4	1222.1	-13.56	6.68
100.00	20 23 51	5140.54	29.57	228.35	191.37	85.41	21 49 32	4540.5	28.62	219.68
110.00	12 2 10	1648.38	-20.60	358.68	181.34	117.90	12 29 39	1048.4	-16.71	351.72
110.00	21 44 52	4887.03	33.50	208.62	190.89	82.79	23 6 19	4287.0	32.14	199.66

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.6774 TRA-2.4718 TC3 -.2637 BAU .1757 SGT 2232.7 SGR 507.5 SG3 154.8 ST 857.4 SR 291.6 SS 770.9
RDE -.3136 RRA .4721 RC3 -.1098 FAU .01742 RRT -.5828 RRF .6122 RTF -.9107 CRT .2948 CRS .4643 CST .9827
FDE .7462 FRA 1.8782 FC3 -.3278 BSP 7179 SGB 2289.6 R23 -.0776 R13 .9130 LSA 1153.5 MSA 289.2 SSA 17.3
BDE .7465 BRA 2.5165 BC3 .2656 FSP -426 SG1 2252.9 SG2 408.7 THA 172.20 EL1 862.2 EL2 277.1 ALF 6.39

LAUNCH DATE SEP 16 1965 FLIGHT TIME 122.00 ARRIVAL DATE JAN 16 1966

HELIOCENTRIC CONIC DISTANCE 290.612

RL 150.39 LAL .00 LOL 352.92 VL 25.628 GAL 9.70 AZL 87.95 HCA 116.20 SMA 119.76 ECC .30323 INC 2.0493 VI 29.628
RP 107.53 LAP 1.84 LOP 109.14 VP 36.882 GAP -16.68 AZP 90.91 TAL 155.94 TAP 272.15 RCA 83.45 APO 156.08 V2 35.242
RC 42.147 GL 7.93 GP -12.45 ZAL 43.04 ZAP 12.45 ETS 86.74 ZAE 150.19 ETE 217.86 ZAC 35.55 ETC 129.18 CLP -.07

PLANETOCENTRIC CONIC

C3 42.921 VHL 6.551 DLA -9.98 RAL 310.75 RAD 6568.6 VEL 12.817 PTH 2.33 VHP 10.750 DPA -36.29 RAP 292.35 ECC 1.7064

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 40 52	2089.53	-16.35	33.72	182.80	113.45	10 15 41	1489.5	-13.04	26.60
90.00	19 6 54	5362.80	27.78	244.87	189.52	84.26	20 36 17	4762.8	26.69	236.37
100.00	10 57 17	1843.00	-17.65	14.98	182.19	114.52	11 28 0	1243.0	-14.20	7.90
100.00	20 33 10	5084.56	29.19	224.23	189.35	83.27	21 57 55	4484.6	27.96	215.65
110.00	11 54 19	1664.37	-21.11	359.64	180.40	117.53	12 22 4	1064.4	-17.25	352.64
110.00	21 52 37	4835.96	33.00	204.72	188.72	80.53	23 13 13	4236.0	31.34	195.89

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.6813 TRA-2.4772 TC3 -.2546 BAU .1633 SGT 2303.3 SGR 520.3 SG3 167.8 ST 889.1 SR 268.9 SS 812.4
RDE -.2691 RRA .4878 RC3 -.1271 FAU .01813 RRT -.6317 RRF .6647 RTF -.9166 CRT .2280 CRS .4107 CST .9809
FDE .8006 FRA 1.9672 FC3 -.3657 BSP 7477 SGB 2361.3 R23 -.0875 R13 .9191 LSA 1201.7 MSA 279.9 SSA 17.2
BDE .7325 BRA 2.5248 BC3 .2846 FSP -465 SG1 2327.3 SG2 399.2 THA 171.63 EL1 891.4 EL2 261.1 ALF 4.31

LAUNCH DATE SEP 16 1965 FLIGHT TIME 124.00 ARRIVAL DATE JAN 18 1966

HELIOCENTRIC CONIC DISTANCE 297.445

RL 150.39 LAL .00 LOL 352.92 VL 25.784 GAL 9.30 AZL 87.71 HCA 119.44 SMA 120.64 ECC .29212 INC 2.2936 VI 29.628
RP 107.51 LAP 2.00 LOP 112.38 VP 36.996 GAP -15.83 AZP 91.13 TAL 155.72 TAP 275.17 RCA 85.40 APO 155.88 V2 35.247
RC 41.430 GL 9.25 GP -13.50 ZAL 42.99 ZAP 13.58 ETS 80.62 ZAE 151.05 ETE 223.79 ZAC 37.51 ETC 130.40 CLP -1.52

PLANETOCENTRIC CONIC

C3 40.148 VHL 6.336 DLA -8.63 RAL 310.66 RAD 6568.5 VEL 12.709 PTH 2.31 VHP 10.302 DPA -37.14 RAP 294.67 ECC 1.6607

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 29 45	2116.44	-17.07	35.36	181.77	112.94	10 5 2	1516.4	-13.82	28.20
90.00	19 17 16	5302.19	27.29	240.51	187.51	82.12	20 45 39	4702.2	25.91	232.11
100.00	10 46 54	1867.55	-18.34	16.48	181.19	114.03	11 18 2	1267.5	-14.94	9.34
100.00	20 42 49	5026.31	28.66	219.99	187.28	81.10	22 6 35	4426.3	27.13	211.52
110.00	11 45 35	1683.79	-21.71	.82	179.47	117.07	12 13 39	1083.8	-17.91	353.76
110.00	22 0 37	4782.84	32.33	200.72	186.50	78.25	23 20 20	4182.8	30.38	192.05

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.6884 TRA-2.4836 TC3 -.2437 BAU .1527 SGT 2375.4 SGR 539.1 SG3 181.9 ST 923.0 SR 245.2 SS 857.0
RDE -.2231 RRA .5074 RC3 -.1466 FAU .01887 RRT -.6803 RRF .7175 RTF -.9221 CRT .1360 CRS .3314 CST .9793
FDE .8613 FRA 2.0628 FC3 -.4070 BSP 7725 SGB 2435.8 R23 -.0992 R13 .9249 LSA 1254.3 MSA 270.1 SSA 17.1
BDE .7237 BRA 2.5349 BC3 .2844 FSP -508 SG1 2404.3 SG2 390.4 THA 170.98 EL1 923.7 EL2 242.8 ALF 2.22

LAUNCH DATE SEP 16 1965 FLIGHT TIME 126.00 ARRIVAL DATE JAN 20 1966

HELIOCENTRIC CONIC DISTANCE 304.279

RL 150.39 LAL .00 LOL 352.92 VL 25.930 GAL 8.91 AZL 87.45 HCA 122.68 SMA 121.47 ECC .28164 INC 2.5539 V1 29.628
RP 107.50 LAP 2.15 LOP 115.63 VP 37.101 GAP -15.00 AZP 91.38 TAL 155.55 TAP 278.23 RCA 87.26 APO 155.68 V2 35.251
RC 40.873 GL 10.72 GP -14.69 ZAL 43.05 ZAP 14.99 ETS 75.50 ZAE 151.56 ETE 230.32 ZAC 39.56 ETC 131.39 CLP -2.99

PLANETOCENTRIC CONIC

C3 37.689 VHL 6.139 DLA -7.16 RAL 310.49 RAD 6568.5 VEL 12.612 PTH 2.29 VHP 9.875 DPA -38.10 RAP 297.02 ECC 1.6203

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 17 33	2147.70	-17.89	37.29	180.77	112.32	9 53 20	1547.7	-14.71	30.06
90.00	19 28 5	5238.99	26.62	236.00	185.45	79.96	20 55 24	4639.0	24.96	227.73
100.00	10 35 28	1896.34	-19.13	18.26	180.22	113.42	11 7 4	1296.3	-15.80	11.05
100.00	20 52 51	4965.59	27.94	215.62	185.17	78.91	22 15 37	4365.6	26.12	207.28
110.00	11 35 53	1707.17	-22.43	2.26	178.57	116.50	12 4 20	1107.2	-18.69	355.12
110.00	22 8 55	4727.52	31.49	196.63	184.26	75.96	23 27 43	4127.5	29.24	188.14

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.6964 TRA-2.4886 TC3 -.2300 BAU .1436 SGT 2445.7 SGR 565.5 SG3 197.1 ST 956.9 SR 222.0 SS 905.0
RDE -.1751 RRA .5320 RC3 -.1684 FAU .01965 RRT -.7278 RRF .7686 RTF -.9272 CRT .0040 CRS .2119 CST .9777
FDE .9290 FRA 2.1648 FC3 -.4513 BSP 7975 SGB 2510.3 R23 -.1121 R13 .9305 LSA 1310.0 MSA 260.3 SSA 17.0
BDE .7181 BRA 2.5448 BC3 .2851 FSP -554 SG1 2481.0 SG2 382.3 THA 170.21 EL1 956.9 EL2 222.0 ALF .06

LAUNCH DATE SEP 16 1965 FLIGHT TIME 128.00 ARRIVAL DATE JAN 22 1966

HELIOCENTRIC CONIC DISTANCE 311.110

RL 150.39 LAL .00 LOL 352.92 VL 26.065 GAL 8.54 AZL 87.17 HCA 125.92 SMA 122.26 ECC .27177 INC 2.8340 V1 29.628
RP 107.49 LAP 2.29 LOP 118.87 VP 37.199 GAP -14.20 AZP 91.66 TAL 155.40 TAP 281.32 RCA 89.03 APO 155.48 V2 35.254
RC 40.482 GL 12.35 GP -16.06 ZAL 43.24 ZAP 16.66 ETS 71.31 ZAE 151.61 ETE 237.27 ZAC 41.71 ETC 132.17 CLP -4.50

PLANETOCENTRIC CONIC

C3 35.534 VHL 5.961 DLA -5.54 RAL 310.22 RAD 6568.4 VEL 12.526 PTH 2.27 VHP 9.471 DPA -39.20 RAP 299.40 ECC 1.5848

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 4 6	2184.00	-18.81	39.55	179.81	111.56	9 40 30	1584.0	-15.72	32.24
90.00	19 39 25	5172.93	25.75	231.36	183.37	77.79	21 5 38	4572.9	23.81	223.23
100.00	10 22 50	1930.04	-20.03	20.36	179.29	112.67	10 55 0	1330.0	-16.78	13.07
100.00	21 3 23	4902.12	27.02	211.12	183.05	76.71	22 25 5	4302.1	24.93	202.95
110.00	11 25 5	1735.15	-23.27	4.00	177.72	115.78	11 54 0	1135.2	-19.61	356.77
110.00	22 17 37	4669.78	30.46	192.44	182.01	73.68	23 35 27	4069.8	27.93	184.17

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.7065 TRA-2.4937 TC3 -.2135 BAU .1366 SGT 2514.9 SGR 601.6 SG3 213.5 ST 991.5 SR 202.0 SS 956.8
RDE -.1241 RRA .5625 RC3 -.1925 FAU .02043 RRT -.7724 RRF .8163 RTF -.9320 CRT -.1831 CRS .0328 CST .9761
FDE 1.0050 FRA 2.2733 FC3 -.4978 BSP 8224 SGB 2585.9 R23 -.1260 R13 .9359 LSA 1369.7 MSA 250.9 SSA 16.7
BDE .7173 BRA 2.5563 BC3 .2675 FSP -603 SG1 2558.5 SG2 375.6 THA 169.30 EL1 992.2 EL2 198.5 ALF 177.77

LAUNCH DATE SEP 16 1965 FLIGHT TIME 130.00 ARRIVAL DATE JAN 24 1966

HELIOCENTRIC CONIC DISTANCE 317.937

RL 150.39 LAL .00 LOL 352.92 VL 26.191 GAL 8.20 AZL 86.86 HCA 129.16 SMA 123.00 ECC .26250 INC 3.1380 V1 29.628
RP 107.48 LAP 2.43 LOP 122.12 VP 37.289 GAP -13.42 AZP 91.98 TAL 155.29 TAP 284.45 RCA 90.71 APO 155.29 V2 35.256
RC 40.263 GL 14.15 GP -17.62 ZAL 43.57 ZAP 18.59 ETS 67.98 ZAE 151.13 ETE 244.34 ZAC 43.97 ETC 132.76 CLP -6.03

PLANETOCENTRIC CONIC

C3 33.678 VHL 5.803 DLA -3.76 RAL 309.87 RAD 6568.3 VEL 12.452 PTH 2.25 VHP 9.091 DPA -40.46 RAP 301.84 ECC 1.5543

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 49 16	2226.19	-19.85	42.22	178.93	110.62	9 26 22	1626.2	-16.87	34.81
90.00	19 51 25	5103.66	24.66	226.58	181.30	75.63	21 16 28	4503.7	22.45	218.61
100.00	10 8 51	1969.46	-21.04	22.85	178.44	111.73	10 41 41	1369.5	-17.91	15.46
100.00	21 14 31	4835.62	25.90	206.50	180.94	74.53	22 35 6	4235.6	23.52	198.51
110.00	11 13 4	1768.45	-24.24	6.10	176.95	114.87	11 42 32	1168.5	-20.68	358.76
110.00	22 26 47	4609.39	29.23	188.18	179.79	71.43	23 43 37	4009.4	26.42	180.12

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.7166 TRA-2.4954 TC3 -.1909 BAU .1309 SGT 2577.9 SGR 649.5 SG3 230.8 ST 1024.3 SR 190.8 SS 1011.5
RDE -.0690 RRA .6000 RC3 -.2193 FAU .02126 RRT -.8129 RRF .8588 RTF -.9367 CRT -.4279 CRS -.2156 CST .9744
FDE 1.0892 FRA 2.3863 FC3 -.5466 BSP 8545 SGB 2658.5 R23 -.1395 R13 .9413 LSA 1431.7 MSA 242.5 SSA 16.3
BDE .7199 BRA 2.5665 BC3 .2907 FSP -658 SG1 2632.6 SG2 370.4 THA 168.19 EL1 1027.7 EL2 171.9 ALF 175.31

LAUNCH DATE SEP 16 1965 FLIGHT TIME 132.00 ARRIVAL DATE JAN 26 1966

HELIOCENTRIC CONIC DISTANCE 324.757

RL 150.39 LAL .00 LOL 352.92 VL 26.308 GAL 7.87 AZL 86.53 HCA 132.40 SMA 123.70 ECC .25382 INC 3.4715 V1 29.628
RP 107.48 LAP 2.56 LOP 125.37 VP 37.373 GAP -12.66 AZP 92.34 TAL 155.22 TAP 287.61 RCA 92.31 APO 155.10 V2 35.258
RC 40.219 GL 16.17 GP -19.42 ZAL 44.06 ZAP 20.80 ETS 65.39 ZAE 150.07 ETE 251.22 ZAC 46.37 ETC 133.15 CLP -7.60

PLANETOCENTRIC CONIC

C3 32.124 VHL 5.668 DLA -1.80 RAL 309.41 RAD 6568.3 VEL 12.389 PTH 2.24 VHP 8.738 DPA -41.93 RAP 304.37 ECC 1.5287

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 32 50	2275.24	-20.99	45.36	178.16	109.45	9 10 46	1675.2	-18.15	37.84
90.00	20 4 12	5030.81	23.34	221.65	179.28	73.50	21 28 3	4430.8	20.86	213.86
100.00	9 53 21	2015.55	-22.18	25.80	177.70	110.58	10 26 56	1415.5	-19.18	18.29
100.00	21 26 23	4765.73	24.54	201.75	178.87	72.38	22 45 48	4165.7	21.90	193.95
110.00	10 59 40	1807.93	-25.35	8.63	176.29	113.74	11 29 48	1207.9	-21.92	1.16
110.00	22 36 33	4546.11	27.78	183.82	177.62	69.23	23 52 19	3946.1	24.70	176.01

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.7336 TRA-2.5006 TC3 -.1698 BAU .1291 SGT 2642.6 SGR 711.8 SG3 249.0 ST 1061.0 SR 196.5 SS 1071.6
RDE -.0080 RRA .6465 RC3 -.2482 FAU .02199 RRT -.8471 RRF .8949 RTF -.9410 CRT -.6850 CRS -.5006 CST .9731
FDE 1.1856 FRA 2.5051 FC3 -.5928 BSP 8784 SGB 2736.8 R23 -.1540 R13 .9464 LSA 1502.4 MSA 234.7 SSA 15.8
BDE .7337 BRA 2.5828 BC3 .3007 FSP -713 SG1 2711.9 SG2 368.6 THA 166.90 EL1 1069.7 EL2 142.0 ALF 172.64

LAUNCH DATE SEP 16 1965 FLIGHT TIME 134.00 ARRIVAL DATE JAN 28 1966

DISTANCE 331.567

HELIOCENTRIC CONIC

RL 150.39 LAL .00 LOL 352.92 VL 26.416 GAL 7.56 AZL 86.16 HCA 135.63 SMA 124.36 ECC .24569 INC 3.8413 V1 29.628
RP 107.48 LAP 2.68 LOP 128.62 VP 37.450 GAP -11.93 AZP 92.75 TAL 155.17 TAP 290.80 RCA 93.81 APO 154.92 V2 35.259
RC 40.350 GL 18.40 GP -21.49 ZAL 44.75 ZAP 23.29 ETS 63.43 ZAE 148.40 ETE 257.59 ZAC 48.92 ETC 133.38 CLP -9.20

PLANETOCENTRIC CONIC

C3 30.883 VHL 5.557 DLA .36 RAL 308.85 RAD 6568.2 VEL 12.339 PTH 2.22 VHP 8.416 DPA -43.64 RAP 307.00 ECC 1.5083

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 14 33	2332.36	-22.24	49.08	177.54	107.99	8 53 26	1732.4	-19.58	41.43
90.00	20 17 58	4953.87	21.76	216.56	177.32	71.42	21 40 32	4353.9	19.02	208.96
100.00	9 36 4	2069.44	-23.42	29.32	177.11	109.12	10 10 34	1469.4	-20.60	21.66
100.00	21 39 9	4692.03	22.94	196.86	176.88	70.29	22 57 21	4092.0	20.04	189.27
110.00	10 44 42	1854.61	-26.59	11.69	175.79	112.32	11 15 37	1254.6	-23.33	4.05
110.00	22 47 0	4479.62	26.09	179.39	175.53	67.09	24 1 40	3879.6	22.76	171.81

DIFFERENTIAL CORRECTIONS

TDE -.7519 TRA-2.5030 TC3 -.1420 BAU .1294
RDE .0607 RRA .7034 RC3 -.2795 FAU .02273
FDE 1.2921 FRA 2.6242 FC3 -.6371 BSP 9119
BDE .7543 BRA 2.5999 BC3 .3135 FSP -775

MID-COURSE EXECUTION ACCURACY

SGT 2699.2 SGR 791.4 SG3 267.7
RRT -.8759 RRF .9241 RTF -.9452
SGB 2812.8 R23 -.1665 R13 .9515
SG1 2788.4 SG2 369.6 THA 165.33

ORBIT DETERMINATION ACCURACY

ST 1095.6 SR 226.6 SS 1134.4
CRT -.8738 CRS -.7360 CST .9718
LSA 1576.7 MSA 228.9 SSA 15.0
EL1 1113.5 EL2 108.4 ALF 169.66

LAUNCH DATE SEP 16 1965 FLIGHT TIME 136.00 ARRIVAL DATE JAN 30 1966

DISTANCE 338.366

HELIOCENTRIC CONIC

RL 150.39 LAL .00 LOL 352.92 VL 26.515 GAL 7.27 AZL 85.74 HCA 138.87 SMA 124.98 ECC .23812 INC 4.2565 V1 29.628
RP 107.48 LAP 2.80 LOP 131.87 VP 37.520 GAP -11.21 AZP 93.21 TAL 155.15 TAP 294.02 RCA 95.22 APO 154.74 V2 35.259
RC 40.657 GL 20.89 GP -23.89 ZAL 45.66 ZAP 26.10 ETS 62.01 ZAE 146.13 ETE 263.23 ZAC 51.65 ETC 133.44 CLP -10.84

PLANETOCENTRIC CONIC

C3 29.979 VHL 5.475 DLA 2.75 RAL 308.16 RAD 6568.2 VEL 12.303 PTH 2.22 VHP 8.129 DPA -45.64 RAP 309.81 ECC 1.4934

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 54 5	2399.06	-23.58	53.52	177.12	106.16	8 34 4	1799.1	-21.14	45.70
90.00	20 33 0	4872.25	19.90	211.30	175.49	69.43	21 54 12	4272.3	16.92	203.89
100.00	9 16 43	2132.55	-24.76	33.53	176.73	107.30	9 52 15	1532.5	-22.16	25.69
100.00	21 53 3	4614.00	21.06	191.83	175.01	68.28	23 9 57	4014.0	17.92	184.44
110.00	10 27 54	1909.73	-27.96	15.39	175.51	110.51	10 59 44	1309.7	-24.91	7.54
110.00	22 58 21	4409.59	24.16	174.87	173.56	65.05	24 11 51	3809.6	20.59	167.54

DIFFERENTIAL CORRECTIONS

TDE -.7820 TRA-2.5117 TC3 -.1205 BAU .1337
RDE .1410 RRA .7738 RC3 -.3111 FAU .02315
FDE 1.4147 FRA 2.7443 FC3 -.6685 BSP 9327
BDE .7946 BRA 2.6282 BC3 .3336 FSP -830

MID-COURSE EXECUTION ACCURACY

SGT 2758.9 SGR 891.7 SG3 286.5
RRT -.8980 RRF .9466 RTF -.9489
SGB 2899.4 R23 -.1778 R13 .9565
SG1 2874.8 SG2 376.5 THA 163.52

ORBIT DETERMINATION ACCURACY

ST 1137.0 SR 284.6 SS 1203.5
CRT -.9661 CRS -.8784 CST .9712
LSA 1664.9 MSA 224.3 SSA 14.0
EL1 1169.9 EL2 71.4 ALF 166.35

LAUNCH DATE SEP 16 1965 FLIGHT TIME 138.00 ARRIVAL DATE FEB 1 1966

DISTANCE 345.151

HELIOCENTRIC CONIC

RL 150.39 LAL .00 LOL 352.92 VL 26.607 GAL 7.00 AZL 85.27 HCA 142.10 SMA 125.56 ECC .23106 INC 4.7291 V1 29.628
RP 107.48 LAP 2.90 LOP 135.12 VP 37.585 GAP -10.52 AZP 93.74 TAL 155.16 TAP 297.27 RCA 96.55 APO 154.57 V2 35.258
RC 41.135 GL 23.65 GP -26.67 ZAL 46.83 ZAP 29.25 ETS 61.04 ZAE 143.28 ETE 268.04 ZAC 54.62 ETC 133.37 CLP -12.49

PLANETOCENTRIC CONIC

C3 29.452 VHL 5.427 DLA 5.40 RAL 307.35 RAD 6568.2 VEL 12.281 PTH 2.21 VHP 7.886 DPA -47.97 RAP 312.86 ECC 1.4847

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 30 58	2477.25	-24.95	58.83	176.97	103.84	8 12 15	1877.2	-22.81	50.82
90.00	20 49 36	4785.18	17.72	205.84	173.82	67.55	22 9 21	4185.2	14.52	198.62
100.00	8 54 52	2206.66	-26.17	38.58	176.62	104.99	9 31 38	1606.7	-23.85	30.55
100.00	22 8 23	4531.00	18.88	186.63	173.30	66.38	23 23 54	3931.0	15.52	179.44
110.00	10 8 57	1974.80	-29.43	19.88	175.52	108.23	10 41 52	1374.8	-26.66	11.79
110.00	23 10 48	4335.62	21.96	170.25	171.75	63.12	24 23 3	3735.6	18.17	163.16

DIFFERENTIAL CORRECTIONS

TDE -.8097 TRA-2.5117 TC3 -.0844 BAU .1397
RDE .2347 RRA .8582 RC3 -.3446 FAU .02362
FDE 1.5436 FRA 2.8490 FC3 -.6944 BSP 9812
BDE .8430 BRA 2.6543 BC3 .3548 FSP -898

MID-COURSE EXECUTION ACCURACY

SGT 2798.9 SGR 1014.7 SG3 303.7
RRT -.9161 RRF .9633 RTF -.9527
SGB 2977.2 R23 -.1836 R13 .9617
SG1 2952.1 SG2 385.8 THA 161.30

ORBIT DETERMINATION ACCURACY

ST 1170.2 SR 368.9 SS 1270.6
CRT -.9961 CRS -.9471 CST .9702
LSA 1752.1 MSA 223.4 SSA 12.8
EL1 1226.6 EL2 31.1 ALF 162.56

LAUNCH DATE SEP 16 1965 FLIGHT TIME 140.00 ARRIVAL DATE FEB 3 1966

DISTANCE 351.919

HELIOCENTRIC CONIC

RL 150.39 LAL .00 LOL 352.92 VL 26.692 GAL 6.75 AZL 84.72 HCA 145.34 SMA 126.10 ECC .22452 INC 5.2756 V1 29.628
RP 107.48 LAP 3.00 LOP 138.37 VP 37.644 GAP -9.85 AZP 94.34 TAL 155.19 TAP 300.53 RCA 97.79 APO 154.41 V2 35.257
RC 41.780 GL 26.73 GP -29.90 ZAL 48.29 ZAP 32.80 ETS 60.45 ZAE 139.86 ETE 272.00 ZAC 57.86 ETC 133.20 CLP -14.17

PLANETOCENTRIC CONIC

C3 29.371 VHL 5.420 DLA 8.32 RAL 306.38 RAD 6568.2 VEL 12.278 PTH 2.21 VHP 7.696 DPA -50.68 RAP 316.30 ECC 1.4834

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 4 34	2569.45	-26.30	65.25	177.15	100.89	7 47 24	1969.4	-24.53	57.02
90.00	21 8 16	4691.61	15.20	200.13	172.40	65.82	22 26 27	4091.6	11.80	193.10
100.00	8 29 57	2294.10	-27.56	44.71	176.86	102.05	9 8 11	1694.1	-25.62	36.44
100.00	22 25 34	4442.19	16.37	181.23	171.84	64.63	23 39 37	3842.2	12.82	174.24
110.00	9 47 23	2051.77	-30.95	25.36	175.92	105.30	10 21 34	1451.8	-28.54	16.99
110.00	23 24 38	4257.29	19.47	165.54	170.18	61.33	24 35 35	3657.3	15.49	158.67

DIFFERENTIAL CORRECTIONS

TDE -.8432 TRA-2.5092 TC3 -.0418 BAU .1492
RDE .3478 RRA .9595 RC3 -.3776 FAU .02390
FDE 1.6800 FRA 2.9309 FC3 -.7046 BSP 10461
BDE .9121 BRA 2.6864 BC3 .3799 FSP -969

MID-COURSE EXECUTION ACCURACY

SGT 2825.7 SGR 1163.5 SG3 318.0
RRT -.9301 RRF .9753 RTF -.9563
SGB 3055.9 R23 -.1843 R13 .9670
SG1 3029.8 SG2 398.6 THA 158.66

ORBIT DETERMINATION ACCURACY

ST 1200.7 SR 479.5 SS 1336.2
CRT -.9989 CRS -.9779 CST .9694
LSA 1845.5 MSA 225.4 SSA 11.2
EL1 1292.7 EL2 20.5 ALF 158.24

LAUNCH DATE SEP 16 1965 FLIGHT TIME 142.00 ARRIVAL DATE FEB 5 1966

HELIOCENTRIC CONIC DISTANCE 358.657

RL	150.39	LAL	.00	LOL	352.92	VL	26.770	GAL	6.51	AZL	84.08	HCA	148.56	SMA	126.60	ECC	.21843	INC	5.9193	V1	29.628
RP	107.49	LAP	3.08	LOP	141.62	VP	37.697	GAP	-9.19	AZP	95.06	TAL	155.25	TAP	303.82	RCA	98.94	APO	154.25	V2	35.255
RC	42.583	GL	30.14	GP	-33.66	ZAL	50.11	ZAP	36.80	ETS	60.16	ZAE	135.86	ETE	275.18	ZAC	61.44	ETC	132.96	CLP	-15.84

PLANETOCENTRIC CONIC

C3	29.839	VHL	5.462	DLA	11.55	RAL	305.22	RAD	6568.2	VEL	12.297	PTH	2.21	VHP	7.574	DPA	-53.83	RAP	320.32	ECC	1.4911

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 33 52	2679.21	-27.47	73.06	177.73	97.14	7 18 31	2079.2	-26.20	64.63
90.00	21 29 43	4589.76	12.27	194.08	171.31	64.28	22 46 13	3989.8	8.71	187.22
100.00	8 1 3	2398.03	-28.82	52.18	177.52	98.32	8 41 1	1798.0	-27.37	43.67
100.00	22 45 13	4346.17	13.48	175.56	170.69	63.07	23 57 39	3746.2	9.76	168.74
110.00	9 22 30	2143.13	-32.39	32.09	176.79	101.57	9 58 14	1543.1	-30.46	23.41
110.00	23 40 15	4173.83	16.67	160.68	168.89	59.72	24 49 49	3573.8	12.52	154.03

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-.7433	TRA	-2.3630	TC3	.1973	BAU	.1948	SGT	2656.0	SGR	1313.5	SG3	317.4	ST	1088.1	SR	585.5	SS	1323.7
RDE	.4567	RRA	1.0475	RC3	-.4467	FAU	.02852	RRT	-.9504	RRF	.9841	RTF	-.9603	CRT	-.9871	CRS	-.9903	CST	.9557
FDE	1.7165	FRA	2.8696	FC3	-.8275	BSP	14771	SGB	2963.0	R23	-.1715	R13	.9724	LSA	1793.3	MSA	250.4	SSA	8.3
BDE	.8724	BRA	2.5848	BC3	.4884	FSP	-1248	SG1	2939.9	SG2	369.0	THA	154.39	EL1	1232.8	EL2	82.7	ALF	151.89

LAUNCH DATE SEP 16 1965 FLIGHT TIME 144.00 ARRIVAL DATE FEB 7 1966

HELIOCENTRIC CONIC DISTANCE 365.406

RL	150.39	LAL	.00	LOL	352.92	VL	26.841	GAL	6.29	AZL	83.31	HCA	151.79	SMA	127.06	ECC	.21291	INC	6.6936	V1	29.628
RP	107.50	LAP	3.16	LOP	144.87	VP	37.745	GAP	-8.56	AZP	95.90	TAL	155.30	TAP	307.09	RCA	100.01	APO	154.11	V2	35.252
RC	43.538	GL	33.90	GP	-37.99	ZAL	52.27	ZAP	41.24	ETS	60.16	ZAE	131.28	ETE	277.74	ZAC	65.43	ETC	132.77	CLP	-17.44

PLANETOCENTRIC CONIC

C3	31.092	VHL	5.576	DLA	15.09	RAL	303.88	RAD	6568.2	VEL	12.348	PTH	2.23	VHP	7.546	DPA	-57.39	RAP	325.29	ECC	1.5117

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 57 41	2811.58	-28.22	82.67	178.82	92.39	6 44 33	2211.6	-27.59	74.06
90.00	21 55 12	4478.03	8.89	187.62	170.76	63.00	23 9 50	3878.0	5.20	180.88
100.00	7 27 13	2522.84	-29.70	61.34	178.73	93.57	8 9 16	1922.8	-28.89	52.63
100.00	23 8 21	4242.00	10.20	169.57	170.07	61.75	24 19 3	3642.0	6.34	162.91
110.00	8 53 44	2252.15	-33.58	40.37	178.32	96.81	9 31 16	1652.1	-32.27	31.38
110.00	0 2 15	4085.46	13.57	155.71	168.08	58.32	1 10 21	3485.5	9.29	149.24

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-1.0320	TRA	-2.5919	TC3	-.0594	BAU	.1690	SGT	2955.9	SGR	1564.2	SG3	335.9	ST	1345.1	SR	808.4	SS	1492.3
RDE	.6852	RRA	1.2430	RC3	-.4021	FAU	.02036	RRT	-.9442	RRF	.9887	RTF	-.9623	CRT	-.9887	CRS	-.9970	CST	.9745
FDE	2.0183	FRA	3.0318	FC3	-.5670	BSP	10257	SGB	3344.3	R23	-.1744	R13	.9771	LSA	2153.7	MSA	226.3	SSA	8.7
BDE	1.2388	BRA	2.8745	BC3	.4065	FSP	-973	SG1	3312.5	SG2	459.6	THA	152.88	EL1	1565.8	EL2	104.1	ALF	149.13

LAUNCH DATE SEP 16 1965 FLIGHT TIME 146.00 ARRIVAL DATE FEB 9 1966

HELIOCENTRIC CONIC DISTANCE 372.113

RL	150.39	LAL	.00	LOL	352.92	VL	26.906	GAL	6.09	AZL	82.35	HCA	155.01	SMA	127.49	ECC	.20780	INC	7.6493	V1	29.628
RP	107.51	LAP	3.22	LOP	148.12	VP	37.788	GAP	-7.94	AZP	96.94	TAL	155.38	TAP	310.38	RCA	101.00	APO	153.98	V2	35.249
RC	44.633	GL	38.04	GP	-42.98	ZAL	54.87	ZAP	46.20	ETS	60.39	ZAE	126.09	ETE	279.84	ZAC	69.88	ETC	132.72	CLP	-18.91

PLANETOCENTRIC CONIC

C3	33.403	VHL	5.780	DLA	18.95	RAL	302.26	RAD	6568.3	VEL	12.441	PTH	2.25	VHP	7.644	DPA	-61.35	RAP	331.82	ECC	1.5497

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 13 2	2975.55	-28.10	94.65	180.29	86.39	6 2 38	2375.5	-28.31	85.99
90.00	22 26 55	4350.17	4.87	180.38	170.94	62.07	23 39 25	3750.2	1.09	173.73
100.00	6 45 59	2675.82	-29.80	72.71	180.39	87.60	7 30 35	2075.8	-29.82	63.90
100.00	23 36 39	4125.13	6.36	163.01	170.12	60.73	24 45 24	3525.1	2.41	156.45
110.00	8 19 24	2383.56	-34.17	50.58	180.47	90.80	8 59 7	1783.6	-33.69	41.37
110.00	0 23 40	3990.15	10.11	150.50	167.84	57.17	1 30 10	3390.2	5.71	144.17

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-1.1507	TRA	-2.6314	TC3	-.0474	BAU	.1783	SGT	2985.2	SGR	1805.1	SG3	330.0	ST	1409.2	SR	1020.6	SS	1544.1
RDE	.9261	RRA	1.4169	RC3	-.3965	FAU	.01792	RRT	-.9498	RRF	.9922	RTF	-.9655	CRT	-.9845	CRS	-.9992	CST	.9767
FDE	2.1616	FRA	2.9730	FC3	-.4644	BSP	10783	SGB	3488.6	R23	-.1590	R13	.9821	LSA	2314.8	MSA	230.9	SSA	7.2
BDE	1.4770	BRA	2.9886	BC3	.3993	FSP	-971	SG1	3454.3	SG2	488.0	THA	149.45	EL1	1733.9	EL2	145.5	ALF	144.22

LAUNCH DATE SEP 16 1965 FLIGHT TIME 148.00 ARRIVAL DATE FEB 11 1966

HELIOCENTRIC CONIC DISTANCE 378.794

RL	150.39	LAL	.00	LOL	352.92	VL	26.965	GAL	5.91	AZL	81.13	HCA	158.22	SMA	127.88	ECC	.20313	INC	8.8663	V1	29.628
RP	107.52	LAP	3.28	LOP	151.37	VP	37.826	GAP	-7.34	AZP	98.24	TAL	155.45	TAP	313.67	RCA	101.90	APO	153.86	V2	35.244
RC	45.858	GL	42.55	GP	-48.64	ZAL	57.93	ZAP	51.64	ETS	60.91	ZAE	120.26	ETE	281.74	ZAC	74.87	ETC	133.05	CLP	-20.08

PLANETOCENTRIC CONIC

C3	37.380	VHL	6.114	DLA	23.12	RAL	300.30	RAD	6568.5	VEL	12.600	PTH	2.29	VHP	7.923	DPA	-65.50	RAP	341.05	ECC	1.6152

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 14 5	3190.01	-26.22	110.04	181.80	78.91	5 7 15	2590.0	-27.49	101.60
90.00	23 10 16	4192.52	-.20	171.56	172.33	61.68	24 20 8	3592.5	-3.99	164.93
100.00	5 53 9	2870.57	-28.39	86.99	182.25	80.23	6 41 0	2270.6	-29.45	78.35
100.00	0 17 48	3987.19	1.72	155.40	171.26	60.15	1 24 15	3387.2	-2.26	148.88
110.00	7 37 21	2544.56	-33.62	63.11	183.13	83.41	8 19 46	1944.6	-34.16	53.90
110.00	0 50 5	3885.97	6.21	144.95	168.48	56.32	1 54 51	3286.0	1.75	138.71

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-1.3254	TRA	-2.6989	TC3	-.0440	BAU	.1839	SGT	3018.1	SGR	2064.3	SG3	311.8	ST	1491.1	SR	1267.3	SS	1575.9
RDE	1.2458	RRA	1.6121	RC3	-.3654	FAU	.01432	RRT	-.9540	RRF	.9942	RTF	-.9690	CRT	-.9825	CRS	-.9999	CST	.9798
FDE	2.2767	FRA	2.8283	FC3	-.3315	BSP	11379	SGB	3656.5	R23	-.1393	R13	.9868	LSA	2501.5	MSA	235.0	SSA	5.8
BDE	1.8190	BRA	3.1437	BC3	.3680	FSP	-932	SG1	3619.9	SG2	515.8	THA	146.09	EL1	1948.6	EL2	180.6	ALF	139.72

LAUNCH DATE SEP 16 1965 FLIGHT TIME 150.00 ARRIVAL DATE FEB 13 1966

HELIOCENTRIC CONIC DISTANCE 385.442

RL 150.39 LAL .00 LOL 352.92 VL 27.019 GAL 5.75 AZL 79.52 HCA 161.41 SMA 128.24 ECC .19890 INC10.4793 V1 29.628
RP 107.54 LAP 3.32 LOP 154.62 VP 37.860 GAP -6.76 AZP 99.94 TAL 155.53 TAP 316.94 RCA 102.73 APO 153.75 V2 35.239
RC 47.202 GL 47.38 GP -54.97 ZAL 61.46 ZAP 57.50 ETS 61.94 ZAE 113.79 ETE 283.90 ZAC 80.42 ETC 134.15 CLP -20.60

PLANETOCENTRIC CONIC

C3 44.157 VHL 6.645 DLA 27.53 RAL 297.90 RAD 6568.7 VEL 12.866 PTH 2.34 VHP 8.474 DPA -69.36 RAP 354.91 ECC 1.7267

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	2 33 13	3542.27	-19.49	133.60	181.55	69.04	3 32 15	2942.3	-22.17	125.95
90.00	0 35 55	3924.36	-8.74	156.48	176.62	62.96	1 41 20	3324.4	-12.30	149.61
100.00	4 35 27	3148.21	-23.67	106.23	183.17	71.19	5 27 56	2548.2	-26.02	98.22
100.00	1 16 22	3793.65	-4.83	144.77	174.50	60.46	2 19 36	3193.7	-8.72	138.15
110.00	6 43 15	2748.31	-30.97	78.38	185.69	74.76	7 29 3	2148.3	-32.75	69.61
110.00	1 25 4	3766.32	1.66	138.67	170.47	55.85	2 27 51	3166.3	-2.83	132.47

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE-1.6017 TRA-2.8206 TC3 -.0512 BAU .1813 SGT 3071.4 SGR 2316.4 SG3 279.9 ST 1607.6 SR 1538.5 SS 1580.4
RDE 1.6752 RRA 1.8158 RC3 -.3029 FAU .00953 RRT -.9571 RRF .9952 RTF -.9732 CRT -.9827 CRS-1.0000 CST .9839
FDE 2.3450 FRA 2.5907 FC3 -.1868 BSP 12053 SGB 3847.0 R23 -.1161 R13 .9910 LSA 2719.0 MSA 237.1 SSA 4.6
BDE 2.3178 BRA 3.3546 BC3 .3072 FSP -853 SG1 3808.7 SG2 541.0 THA 143.32 EL1 2215.6 EL2 206.5 ALF 136.28

LAUNCH DATE SEP 16 1965 FLIGHT TIME 152.00 ARRIVAL DATE FEB 15 1966

HELIOCENTRIC CONIC DISTANCE 392.047

RL 150.39 LAL .00 LOL 352.92 VL 27.068 GAL 5.60 AZL 77.27 HCA 164.59 SMA 128.57 ECC .19511 INC12.7316 V1 29.628
RP 107.55 LAP 3.36 LOP 157.87 VP 37.889 GAP -6.20 AZP 102.29 TAL 155.59 TAP 320.18 RCA 103.48 APO 153.65 V2 35.234
RC 48.656 GL 52.41 GP -61.86 ZAL 65.46 ZAP 63.63 ETS 64.20 ZAE 106.70 ETE 287.23 ZAC 86.59 ETC 136.95 CLP -19.65

PLANETOCENTRIC CONIC

C3 56.135 VHL 7.492 DLA 32.02 RAL 294.91 RAD 6569.0 VEL 13.323 PTH 2.43 VHP 9.457 DPA -71.84 RAP 15.49 ECC 1.9238

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
74.39	23 17 7	4182.67	-14.24	178.54	180.99	61.01	24 26 49	3582.7	-17.99	171.61
105.61	3 24 12	3403.57	-14.22	120.83	180.98	61.01	4 20 56	2803.6	-17.98	113.90
74.39	23 17 7	4182.67	-14.24	178.54	180.99	61.01	24 26 49	3582.7	-17.99	171.61
105.61	3 24 12	3403.57	-14.22	120.83	180.98	61.01	4 20 56	2803.6	-17.98	113.90
110.00	5 23 49	3033.35	-24.24	97.77	186.36	65.12	6 14 23	2433.3	-27.38	90.01
110.00	2 20 36	3600.89	-4.65	130.03	175.06	56.10	3 20 37	3000.9	-9.07	123.73

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE-2.0920 TRA-3.0616 TC3 -.0725 BAU .1645 SGT 3193.2 SGR 2502.2 SG3 236.2 ST 1801.6 SR 1800.2 SS 1556.1
RDE 2.2465 RRA 1.9876 RC3 -.2068 FAU .00356 RRT -.9593 RRF .9946 RTF -.9790 CRT -.9848 CRS -.9997 CST .9890
FDE 2.3565 FRA 2.2778 FC3 -.0549 BSP 12673 SGB 4056.8 R23 -.0896 R13 .9945 LSA 2975.2 MSA 236.3 SSA 3.5
BDE 3.0697 BRA 3.6502 BC3 .2192 FSP -729 SG1 4017.7 SG2 561.4 THA 142.20 EL1 2537.1 EL2 222.0 ALF 135.02

LAUNCH DATE SEP 16 1965 FLIGHT TIME 154.00 ARRIVAL DATE FEB 17 1966

HELIOCENTRIC CONIC DISTANCE 398.593

RL 150.39 LAL .00 LOL 352.92 VL 27.112 GAL 5.48 AZL 73.89 HCA 167.73 SMA 128.86 ECC .19176 INC16.1102 V1 29.628
RP 107.57 LAP 3.38 LOP 161.12 VP 37.915 GAP -5.67 AZP 105.76 TAL 155.62 TAP 323.35 RCA 104.15 APO 153.57 V2 35.227
RC 50.208 GL 57.36 GP -69.06 ZAL 69.89 ZAP 69.80 ETS 70.27 ZAE 98.96 ETE 294.46 ZAC 93.48 ETC 144.16 CLP -14.90

PLANETOCENTRIC CONIC

C3 79.094 VHL 8.894 DLA 36.27 RAL 291.08 RAD 6569.5 VEL 14.158 PTH 2.58 VHP 11.184 DPA -71.33 RAP 40.68 ECC 2.3017

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
66.32	22 12 58	4413.76	-12.84	195.67	183.00	55.78	23 26 32	3813.8	-17.24	189.17
113.68	3 57 51	3336.04	-12.83	114.69	182.99	55.78	4 53 27	2736.0	-17.23	108.19
66.32	22 12 58	4413.76	-12.84	195.67	183.00	55.78	23 26 32	3813.8	-17.24	189.17
113.68	3 57 51	3336.04	-12.83	114.69	182.99	55.78	4 53 27	2736.0	-17.23	108.19
66.32	22 12 58	4413.76	-12.84	195.67	183.00	55.78	23 26 32	3813.8	-17.24	189.17
113.68	3 57 51	3336.04	-12.83	114.69	182.99	55.78	4 53 27	2736.0	-17.23	108.19

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE-3.1293 TRA-3.5830 TC3 -.1065 BAU .1505 SGT 3506.8 SGR 2423.8 SG3 185.5 ST 2191.4 SR 1911.5 SS 1510.0
RDE 2.8776 RRA 1.9427 RC3 -.0944 FAU-.00317 RRT -.9589 RRF .9898 RTF -.9876 CRT -.9877 CRS -.9985 CST .9948
FDE 2.3170 FRA 1.9294 FC3 .0347 BSP 13329 SGB 4262.9 R23 -.0596 R13 .9973 LSA 3268.5 MSA 230.2 SSA 2.7
BDE 4.2513 BRA 4.0758 BC3 .1423 FSP -583 SG1 4224.5 SG2 571.1 THA 145.75 EL1 2899.2 EL2 225.5 ALF 138.95

LAUNCH DATE SEP 16 1965 FLIGHT TIME 156.00 ARRIVAL DATE FEB 19 1966

HELIOCENTRIC CONIC DISTANCE 405.036

RL 150.39 LAL .00 LOL 352.92 VL 27.151 GAL 5.39 AZL 68.27 HCA 170.80 SMA 129.13 ECC .18889 INC21.7310 V1 29.628
RP 107.60 LAP 3.39 LOP 164.37 VP 37.936 GAP -5.16 AZP 111.48 TAL 155.59 TAP 326.39 RCA 104.74 APO 153.52 V2 35.220
RC 51.850 GL 61.52 GP -75.70 ZAL 74.63 ZAP 75.70 ETS 91.33 ZAE 90.40 ETE 316.75 ZAC 101.44 ETC 167.04 CLP 1.45

PLANETOCENTRIC CONIC

C3 129.652 VHL 11.386 DLA 39.56 RAL 286.13 RAD 6570.4 VEL 15.843 PTH 2.81 VHP 14.351 DPA -66.86 RAP 62.20 ECC 3.1337

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
61.13	21 27 9	4594.48	-9.44	207.94	184.54	51.40	22 43 43	3994.5	-14.36	201.91
118.87	4 4 10	3365.14	-9.42	114.52	184.53	51.40	5 0 15	2765.1	-14.35	108.49
61.13	21 27 9	4594.48	-9.44	207.94	184.54	51.40	22 43 43	3994.5	-14.36	201.91
118.87	4 4 10	3365.14	-9.42	114.52	184.53	51.40	5 0 15	2765.1	-14.35	108.49
61.13	21 27 9	4594.48	-9.44	207.94	184.54	51.40	22 43 43	3994.5	-14.36	201.91
118.87	4 4 10	3365.14	-9.42	114.52	184.53	51.40	5 0 15	2765.1	-14.35	108.49

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE-5.9076 TRA-4.7358 TC3 -.1706 BAU .3003 SGT 4306.0 SGR 1088.4 SG3 136.1 ST 3114.0 SR 1037.6 SS 1481.1
RDE 2.0523 RRA .5156 RC3 -.0304 FAU-.01109 RRT -.8712 RRF .8951 RTF -.9981 CRT -.9791 CRS -.9851 CST .9995
FDE 2.2878 FRA 1.6267 FC3 .0740 BSP 13867 SGB 4441.4 R23 -.0256 R13 .9991 LSA 3595.3 MSA 201.5 SSA 1.9
BDE 6.2540 BRA 4.7638 BC3 .1733 FSP -435 SG1 4410.7 SG2 521.6 THA 167.40 EL1 3276.1 EL2 200.8 ALF 161.86

LAUNCH DATE SEP 16 1965 FLIGHT TIME 158.00 ARRIVAL DATE FEB 21 1966

HELIOCENTRIC CONIC DISTANCE 411.255

RL	150.39	LAL	.00	LOL	352.92	VL	27.186	GAL	5.34	AZL	57.33	HCA	173.70	SMA	129.37	ECC	.18668	INC	32.6652
RP	107.62	LAP	3.39	LOP	167.61	VP	37.954	GAP	-4.72	AZP	122.51	TAL	155.41	TAP	329.12	RCA	105.22	APO	153.52
RC	53.572	GL	62.93	GP	-77.13	ZAL	79.46	ZAP	80.97	ETS	149.15	ZAE	80.14	ETE	15.46	ZAC	111.76	ETC	227.23

V1	29.628	V2	35.212	CLP	45.19														

PLANETOCENTRIC CONIC

C3	269.191	VHL	16.407	DLA	40.05	RAL	279.79	RAD	6571.6	VEL	19.761	PTH	3.12	VHP	20.810	DPA	-57.97	RAP	75.72

ECC	5.4302																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
60.41	20 58 31	4721.43	-4.45	214.55	184.50	50.16	22 17 12	4121.4	-9.54	208.74
119.59	3 42 14	3473.13	-4.43	119.53	184.48	50.16	4 40 7	2873.1	-9.52	113.72
60.41	20 58 31	4721.43	-4.45	214.55	184.50	50.16	22 17 12	4121.4	-9.54	208.74
119.59	3 42 14	3473.13	-4.43	119.53	184.48	50.16	4 40 7	2873.1	-9.52	113.72
60.41	20 58 31	4721.43	-4.45	214.55	184.50	50.16	22 17 12	4121.4	-9.54	208.74
119.59	3 42 14	3473.13	-4.43	119.53	184.48	50.16	4 40 7	2873.1	-9.52	113.72

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-7.0838	TRA	-3.3719	TC3	-.1786	BAU	.9626	SGT	2971.4	SGR	3419.1	SG3	96.9	ST	2516.5	SR	2529.5	SS	1574.7
RDE	-6.9655	RRA	-5.0686	RC3	-.1991	FAU	-.02357	RRT	.9801	RRF	-.9963	RTF	-.9925	CRT	.9956	CRS	.9992	CST	.9986
FDE	2.4376	FRA	1.5047	FC3	.0758	BSP	14234	SGB	4529.8	R23	-.0049	R13	-.9996	LSA	3896.6	MSA	166.7	SSA	1.7
BDE	9.9347	BRA	6.0878	BC3	.2675	FSP	-316	SG1	4507.6	SG2	447.7	THA	49.09	EL1	3564.2	EL2	166.5	ALF	45.15

LAUNCH DATE SEP 16 1965 FLIGHT TIME 160.00 ARRIVAL DATE FEB 23 1966

HELIOCENTRIC CONIC DISTANCE 416.785

RL	150.39	LAL	.00	LOL	352.92	VL	27.217	GAL	5.44	AZL	31.33	HCA	176.04	SMA	129.58	ECC	.18581	INC	58.6723
RP	107.64	LAP	3.38	LOP	170.86	VP	37.969	GAP	-4.46	AZP	148.61	TAL	154.79	TAP	330.83	RCA	105.51	APO	153.66
RC	55.368	GL	55.62	GP	-64.10	ZAL	83.76	ZAP	85.03	ETS	177.48	ZAE	65.20	ETE	41.96	ZAC	128.91	ETC	257.73

V1	29.628	V2	35.204	CLP	78.57														

PLANETOCENTRIC CONIC

C3	786.346	VHL	28.042	DLA	32.22	RAL	272.68	RAD	6572.8	VEL	30.127	PTH	3.45	VHP	35.822	DPA	-41.22	RAP	82.23

ECC	13.9413																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
73.95	21 45 30	4591.49	-.23	201.15	182.34	57.78	23 2 2	3991.5	-4.48	194.78
106.05	1 58 30	3793.98	-.21	142.03	182.33	57.78	3 1 44	3194.0	-4.47	135.67
73.95	21 45 30	4591.49	-.23	201.15	182.34	57.78	23 2 2	3991.5	-4.48	194.78
106.05	1 58 30	3793.98	-.21	142.03	182.33	57.78	3 1 44	3194.0	-4.47	135.67
110.00	3 50 54	3446.60	-10.43	121.83	188.84	57.26	4 48 20	2846.6	-14.68	115.29
110.00	0 56 13	3986.86	9.99	150.33	175.81	57.14	2 2 40	3386.9	5.59	144.00

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-6.4066	TRA	-.9331	TC3	-.1188	BAU	3.3465	SGT	1486.1	SGR	4038.3	SG3	74.9	ST	1310.9	SR	3051.0	SS	2010.2
RDE	-14.5887	RRA	-8.9571	RC3	-.2953	FAU	-.06052	RRT	.9153	RRF	-.9997	RTF	-.9184	CRT	.9868	CRS	1.0000	CST	.9871
FDE	3.1068	FRA	1.8911	FC3	.0666	BSP	13303	SGB	4303.0	R23	-.0373	R13	-.9991	LSA	3876.6	MSA	199.6	SSA	1.8
BDE	15.9334	BRA	9.0056	BC3	.3183	FSP	-241	SG1	4265.6	SG2	566.5	THA	71.04	EL1	3315.0	EL2	195.5	ALF	66.94

LAUNCH DATE SEP 16 1965 FLIGHT TIME 162.00 ARRIVAL DATE FEB 25 1966

HELIOCENTRIC CONIC DISTANCE 428.419

RL	150.39	LAL	.00	LOL	352.92	VL	27.244	GAL	4.46	AZL	160.69	HCA	183.56	SMA	129.77	ECC	.17645	INC	70.6891
RP	107.67	LAP	3.36	LOP	174.10	VP	37.980	GAP	-2.69	AZP	19.35	TAL	158.33	TAP	341.89	RCA	106.87	APO	152.67
RC	57.230	GL	-50.94	GP	57.36	ZAL	85.51	ZAP	87.39	ETS	190.38	ZAE	73.74	ETE	318.04	ZAC	108.24	ETC	102.58

V1	29.628	V2	35.195	CLP	85.15														

PLANETOCENTRIC CONIC

C3	1089.865	VHL	33.013	DLA	-74.38	RAL	270.15	RAD	6573.0	VEL	34.802	PTH	3.51	VHP	42.629	DPA	78.18	RAP	43.25

ECC	18.9364																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
17.81	6 17 24	2453.30	-.65	80.73	180.32	164.38	6 58 17	1853.3	7.05	78.98
162.19	17 6 25	676.04	-.64	285.48	180.34	164.38	17 17 41	76.0	7.06	283.73
17.81	6 17 24	2453.30	-.65	80.73	180.32	164.38	6 58 17	1853.3	7.05	78.98
162.19	17 6 25	676.04	-.64	285.48	180.34	164.38	17 17 41	76.0	7.06	283.73
17.81	6 17 24	2453.30	-.65	80.73	180.32	164.38	6 58 17	1853.3	7.05	78.98
162.19	17 6 25	676.04	-.64	285.48	180.34	164.38	17 17 41	76.0	7.06	283.73

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	10.2811	TRA	-.6477	TC3	-.1621	BAU	4.6929	SGT	2122.1	SGR	3548.6	SG3	74.7	ST	1739.0	SR	2467.6	SS	2355.3
RDE	-13.8482	RRA	2.8767	RC3	.2783	FAU	-.08154	RRT	-.9334	RRF	.9976	RTF	-.9537	CRT	-.9876	CRS	-.9995	CST	.9922
FDE	-3.6140	FRA	.6412	FC3	.0648	BSP	12645	SGB	4134.8	R23	-.0306	R13	.9991	LSA	3845.0	MSA	231.3	SSA	2.7
BDE	17.2474	BRA	2.9487	BC3	.3221	FSP	-231	SG1	4081.4	SG2	661.9	THA	120.04	EL1	3039.4	EL2	227.7	ALF	125.84

LAUNCH DATE SEP 16 1965 FLIGHT TIME 164.00 ARRIVAL DATE FEB 27 1966

HELIOCENTRIC CONIC DISTANCE 433.489

RL	150.39	LAL	.00	LOL	352.92	VL	27.268	GAL	4.65	AZL	127.07	HCA	185.53	SMA	129.93	ECC	.17664	INC	37.0676
RP	107.70	LAP	3.33	LOP	177.34	VP	37.988	GAP	-2.55	AZP	53.06	TAL	157.32	TAP	342.85	RCA	106.98	APO	152.89
RC	59.152	GL	-62.91	GP	76.77	ZAL	81.62	ZAP	85.51	ETS	213.36	ZAE	90.37	ETE	335.98	ZAC	88.37	ETC	121.36

V1	29.628	V2	35.186	CLP	69.98														

PLANETOCENTRIC CONIC

C3	338.566	VHL	18.400	DLA	-83.87	RAL	328.96	RAD	6571.9	VEL	21.445	PTH	3.21	VHP	23.778	DPA	75.50	RAP	305.19

ECC	6.5719																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
6.96	9 50 39	2384.04	5.02	85.64	238.40	173.85	10 30 23	1784.0	12.98	85.18
173.04	21 22 19	5865.14	5.02	257.73	238.42	173.85	23 0 4	5265.1	12.98	257.27
6.96	9 50 39	2384.04	5.02	85.64	238.40	173.85	10 30 23	1784.0	12.98	85.18
173.04	21 22 19	5865.14	5.02	257.73	238.42	173.85	23 0 4	5265.1	12.98	257.27
6.96	9 50 39	2384.04	5.02	85.64	238.40	173.85	10 30 23	1784.0	12.98	85.18
173.04	21 22 19	5865.14	5.02	257.73	238.42	173.85	23 0 4	5265.1	12.98	257.27

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	1.5411	TRA	-1.1910	TC3	-.2236	BAU	1.4161	SGT	3602.6	SGR	3267.2	SG3	95.9	ST	1147.7	SR	1018.1	SS	668.1
RDE	1.2308	RRA	1.0774	RC3	.2188	FAU	-.02602	RRT	-.9685	RRF	.9914	RTF	-.9924	CRT	-.6842	CRS	-.9121	CST	.9231
FDE	-.0382	FRA	.3712	FC3	.0665	BSP	14887	SGB	4863.4	R23	-.0084	R13	.9998	LSA	1560.2	MSA	605.0	SSA	1.2
BDE	1.9723	BRA	1.6060	BC3	.3129	FSP	-298	SG1	4825.3	SG2	607.8	THA	137.89	EL1	1410.2	EL2	604.3	ALF	139.98

LAUNCH DATE SEP 16 1965 FLIGHT TIME 166.00 ARRIVAL DATE MAR 1 1966

HELIOCENTRIC CONIC DISTANCE 439.509

RL 150.39 LAL .00 LOL 352.92 VL 27.288 GAL 4.69 AZL 113.33 HCA 188.33 SMA 130.07 ECC .17582 INC23.3344 V1 29.628
RP 107.73 LAP 3.29 LOP 180.58 VP 37.994 GAP -2.18 AZP 66.89 TAL 156.98 TAP 345.32 RCA 107.21 APO 152.94 V2 35.176
RC 61.127 GL -63.47 GP 83.72 ZAL 77.04 ZAP 83.98 ETS 264.21 ZAE 99.69 ETE 23.91 ZAC 78.15 ETC 167.80 CLP 16.35

PLANETOCENTRIC CONIC

C3 144.979 VHL 12.041 DLA -79.85 RAL 353.11 RAD 6570.6 VEL 16.319 PTH 2.86 VHP 15.503 DPA 65.84 RAP 293.26 ECC 3.3860

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
11.55	11 35 51	2255.68	13.26	82.08	260.68	169.57	12 13 27	1655.7	21.12	80.95
168.45	22 49 49	5745.99	13.26	258.57	260.70	169.57	24 25 35	5146.0	21.13	257.44
11.55	11 35 51	2255.68	13.26	82.08	260.68	169.57	12 13 27	1655.7	21.12	80.95
168.45	22 49 49	5745.99	13.26	258.57	260.70	169.57	24 25 35	5146.0	21.13	257.44
11.55	11 35 51	2255.68	13.26	82.08	260.68	169.57	12 13 27	1655.7	21.12	80.95
168.45	22 49 49	5745.99	13.26	258.57	260.70	169.57	24 25 35	5146.0	21.13	257.44

DIFFERENTIAL CORRECTIONS

TOE-4.2085 TRA-1.6668 TC3 -.2057 BAU .4014
ROE .5510 RRA -.3081 RC3 .0242 FAU-.00742
FOE 1.3155 FRA .5307 FC3 .0443 BSP 15770
BOE 4.2444 BRA 1.6950 BC3 .2071 FSP -431

MID-COURSE EXECUTION ACCURACY

SGT 4950.9 SGR 874.1 SG3 135.4
RRT .7371 RRF -.7457 RTF -.9995
SGB 5027.5 R23 .0021 R13 -.9995
SG1 4993.2 SG2 585.7 THA 7.52

ORBIT DETERMINATION ACCURACY

ST 2415.3 SR 362.0 SS 1017.1
CRT -.2152 CRS -.2068 CST 1.0000
LSA 2621.9 MSA 353.5 SSA 1.8
EL1 2416.6 EL2 353.3 ALF 178.11

LAUNCH DATE SEP 16 1965 FLIGHT TIME 168.00 ARRIVAL DATE MAR 3 1966

HELIOCENTRIC CONIC DISTANCE 445.779

RL 150.39 LAL .00 LOL 352.92 VL 27.305 GAL 4.69 AZL 106.66 HCA 191.36 SMA 130.19 ECC .17490 INC16.6644 V1 29.628
RP 107.76 LAP 3.24 LOP 183.82 VP 37.996 GAP -1.75 AZP 73.64 TAL 156.81 TAP 348.17 RCA 107.42 APO 152.97 V2 35.166
RC 63.151 GL -60.23 GP 81.32 ZAL 72.50 ZAP 83.23 ETS 303.01 ZAE 105.94 ETE 60.27 ZAC 71.54 ETC 202.07 CLP -38.66

PLANETOCENTRIC CONIC

C3 80.833 VHL 8.991 DLA -75.27 RAL 349.01 RAD 6569.6 VEL 14.219 PTH 2.59 VHP 11.471 DPA 59.09 RAP 290.56 ECC 2.3303

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
16.79	11 29 55	2126.48	20.96	76.65	253.22	164.20	12 5 21	1526.5	28.64	74.59
163.21	22 23 4	5633.27	20.97	258.28	253.24	164.20	23 56 58	5033.3	28.65	256.23
16.79	11 29 55	2126.48	20.96	76.65	253.22	164.20	12 5 21	1526.5	28.64	74.59
163.21	22 23 4	5633.27	20.97	258.28	253.24	164.20	23 56 58	5033.3	28.65	256.23
16.79	11 29 55	2126.48	20.96	76.65	253.22	164.20	12 5 21	1526.5	28.64	74.59
163.21	22 23 4	5633.27	20.97	258.28	253.24	164.20	23 56 58	5033.3	28.65	256.23

DIFFERENTIAL CORRECTIONS

TOE-2.4284 TRA-1.2383 TC3 -.0971 BAU .1221
RDE-1.4726 RRA-1.4411 RC3 .0578 FAU .00335
FOE 1.2343 FRA .8306 FC3 -.0358 BSP 16032
BOE 2.8400 BRA 1.9001 BC3 .1130 FSP -615

MID-COURSE EXECUTION ACCURACY

SGT 3472.0 SGR 3732.7 SG3 192.3
RRT .9753 RRF -.9943 RTF -.9917
SGB 5097.8 R23 -.0033 R13 -.9992
SG1 5066.5 SG2 564.5 THA 47.12

ORBIT DETERMINATION ACCURACY

ST 1806.0 SR 1433.3 SS 995.4
CRT .9507 CRS .9828 CST .9916
LSA 2486.5 MSA 352.5 SSA 2.5
EL1 2278.6 EL2 352.5 ALF 38.11

LAUNCH DATE SEP 16 1965 FLIGHT TIME 170.00 ARRIVAL DATE MAR 5 1966

HELIOCENTRIC CONIC DISTANCE 452.129

RL 150.39 LAL .00 LOL 352.92 VL 27.320 GAL 4.69 AZL 102.81 HCA 194.48 SMA 130.29 ECC .17412 INC12.8056 V1 29.628
RP 107.80 LAP 3.18 LOP 187.05 VP 37.996 GAP -1.31 AZP 77.59 TAL 156.68 TAP 351.16 RCA 107.61 APO 152.98 V2 35.155
RC 65.219 GL -55.85 GP 77.01 ZAL 68.24 ZAP 83.34 ETS 321.83 ZAE 110.67 ETE 77.04 ZAC 66.45 ETC 216.44 CLP -58.93

PLANETOCENTRIC CONIC

C3 53.174 VHL 7.292 DLA -70.71 RAL 343.04 RAD 6568.9 VEL 13.211 PTH 2.41 VHP 9.173 DPA 53.81 RAP 289.23 ECC 1.8751

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
22.04	11 16 58	2014.63	26.79	69.99	242.85	158.28	11 50 33	1414.6	34.18	66.84
157.96	21 48 22	5544.87	26.80	256.98	242.87	158.28	23 20 47	4944.9	34.18	253.83
22.04	11 16 58	2014.63	26.79	69.99	242.85	158.28	11 50 33	1414.6	34.18	66.84
157.96	21 48 22	5544.87	26.80	256.98	242.87	158.28	23 20 47	4944.9	34.18	253.83
22.04	11 16 58	2014.63	26.79	69.99	242.85	158.28	11 50 33	1414.6	34.18	66.84
157.96	21 48 22	5544.87	26.80	256.98	242.87	158.28	23 20 47	4944.9	34.18	253.83

DIFFERENTIAL CORRECTIONS

TDE-1.3045 TRA -.7923 TC3 -.0762 BAU .1833
RDE-1.2751 RRA-1.9056 RC3 .2463 FAU .01244
FOE 1.0911 FRA 1.2227 FC3 -.2025 BSP 16080
BOE 1.8242 BRA 2.0638 BC3 .2578 FSP -841

MID-COURSE EXECUTION ACCURACY

SGT 2148.0 SGR 4655.8 SG3 263.2
RRT .9527 RRF -.9974 RTF -.9668
SGB 5127.4 R23 .0021 R13 -.9989
SG1 5092.6 SG2 596.6 THA 65.92

ORBIT DETERMINATION ACCURACY

ST 1170.6 SR 1689.0 SS 969.5
CRT .9082 CRS .9900 CST .9582
LSA 2234.7 MSA 411.0 SSA 3.4
EL1 2013.5 EL2 411.0 ALF 56.22

LAUNCH DATE SEP 16 1965 FLIGHT TIME 172.00 ARRIVAL DATE MAR 7 1966

HELIOCENTRIC CONIC DISTANCE 458.503

RL 150.39 LAL .00 LOL 352.92 VL 27.331 GAL 4.69 AZL 100.30 HCA 197.63 SMA 130.37 ECC .17353 INC10.2983 V1 29.628
RP 107.83 LAP 3.10 LOP 190.28 VP 37.994 GAP -.86 AZP 80.18 TAL 156.56 TAP 354.18 RCA 107.75 APO 153.00 V2 35.143
RC 67.327 GL -51.23 GP 72.97 ZAL 64.32 ZAP 84.25 ETS 333.46 ZAE 114.49 ETE 87.11 ZAC 62.10 ETC 223.84 CLP -69.99

PLANETOCENTRIC CONIC

C3 39.011 VHL 6.246 DLA -66.21 RAL 338.11 RAD 6568.5 VEL 12.664 PTH 2.30 VHP 7.717 DPA 49.35 RAP 288.09 ECC 1.6420

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
27.27	11 8 45	1921.45	30.61	62.57	232.98	152.05	11 40 47	1321.5	37.59	58.26
152.73	21 17 15	5482.66	30.62	255.17	233.00	152.05	22 48 37	4882.7	37.60	250.86
27.27	11 8 45	1921.45	30.61	62.57	232.98	152.05	11 40 47	1321.5	37.59	58.26
152.73	21 17 15	5482.66	30.62	255.17	233.00	152.05	22 48 37	4882.7	37.60	250.86
27.27	11 8 45	1921.45	30.61	62.57	232.98	152.05	11 40 47	1321.5	37.59	58.26
152.73	21 17 15	5482.66	30.62	255.17	233.00	152.05	22 48 37	4882.7	37.60	250.86

DIFFERENTIAL CORRECTIONS

TDE -.7951 TRA -.4338 TC3 -.1283 BAU .2567
RDE -.9425 RRA-2.1356 RC3 .4753 FAU .02131
FDE .9948 FRA 1.6820 FC3 -.4730 BSP 16153
BDE 1.2331 BRA 2.1792 BC3 .4923 FSP -1108

MID-COURSE EXECUTION ACCURACY

SGT 1237.2 SGR 4968.3 SG3 343.6
RRT .8664 RRF -.9979 RTF -.8830
SGB 5120.1 R23 .0108 R13 -.9985
SG1 5084.3 SG2 603.6 THA 77.65

ORBIT DETERMINATION ACCURACY

ST 787.1 SR 1694.2 SS 977.6
CRT .7961 CRS .9907 CST .8709
LSA 2060.8 MSA 446.0 SSA 4.2
EL1 1814.4 EL2 444.8 ALF 68.34

LAUNCH DATE SEP 16 1965 FLIGHT TIME 174.00 ARRIVAL DATE MAR 9 1966

HELIOCENTRIC CONIC DISTANCE 464.880

RL 150.39 LAL .00 LOL 352.92 VL 27.340 GAL 4.71 AZL 98.53 HCA 200.80 SMA 130.44 ECC .17316 INC 8.5349 V1 29.628
RP 107.87 LAP 3.02 LOP 193.51 VP 37.990 GAP -.41 AZP 82.01 TAL 156.41 TAP 357.22 RCA 107.85 APO 153.02 V2 35.132
RC 69.470 GL -46.68 GP 69.26 ZAL 60.77 ZAP 85.88 ETS 342.26 ZAE 117.63 ETE 94.92 ZAC 58.14 ETC 228.70 CLP -78.31

PLANETOCENTRIC CONIC

C3 30.891 VHL 5.558 DLA -61.85 RAL 334.32 RAD 6568.2 VEL 12.340 PTH 2.23 VHP 6.728 DPA 45.38 RAP 286.89 ECC 1.5084

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
32.41	11 5 39	1843.16	32.73	54.88	224.19	145.89	11 36 23	1243.2	39.22	49.52
147.59	20 50 5	5443.19	32.74	253.35	224.21	145.88	22 20 48	4843.2	39.23	247.99
32.41	11 5 39	1843.16	32.73	54.88	224.19	145.89	11 36 23	1243.2	39.22	49.52
147.59	20 50 5	5443.19	32.74	253.35	224.21	145.88	22 20 48	4843.2	39.23	247.99
32.41	11 5 39	1843.16	32.73	54.88	224.19	145.89	11 36 23	1243.2	39.22	49.52
147.59	20 50 5	5443.19	32.74	253.35	224.21	145.88	22 20 48	4843.2	39.23	247.99

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.5287 TRA -.1075 TC3 -.2422 BAU .3049 SGT 651.7 SGR 5063.3 SG3 430.5 ST 549.6 SR 1659.6 SS 1014.8
RDE -.7193 RRA-2.2646 RC3 .6975 FAU .02994 RRT .4115 RRF -.9979 RTF -.4356 CRT .5576 CRS .9903 CST .6675
FDE .9600 FRA 2.1937 FC3 -.8390 BSP 16109 SGB 5105.1 R23 .0211 R13 -.9981 LSA 1969.7 MSA 454.2 SSA 5.1
BDE .8927 BRA 2.2672 BC3 .7383 FSP -1394 SG1 5070.5 SG2 593.1 THA 86.93 EL1 1689.8 EL2 448.1 ALF 78.74

LAUNCH DATE SEP 16 1965 FLIGHT TIME 176.00 ARRIVAL DATE MAR 11 1966

HELIOCENTRIC CONIC DISTANCE 471.248

RL 150.39 LAL .00 LOL 352.92 VL 27.346 GAL 4.73 AZL 97.22 HCA 203.99 SMA 130.48 ECC .17302 INC 7.2221 V1 29.628
RP 107.90 LAP 2.93 LOP 196.74 VP 37.983 GAP .03 AZP 83.40 TAL 156.25 TAP .23 RCA 107.90 APO 153.06 V2 35.120
RC 71.643 GL -42.35 GP 65.78 ZAL 57.58 ZAP 88.16 ETS 349.60 ZAE 120.24 ETE 101.87 ZAC 54.40 ETC 232.46 CLP -85.51

PLANETOCENTRIC CONIC

C3 25.867 VHL 5.086 DLA -57.69 RAL 331.41 RAD 6568.0 VEL 12.134 PTH 2.17 VHP 6.026 DPA 41.71 RAP 285.57 ECC 1.4257

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
37.38	11 6 40	1775.49	33.55	47.32	216.60	140.11	11 36 16	1175.5	39.51	41.10
142.62	20 25 52	5422.31	33.56	251.92	216.62	140.10	21 56 15	4822.3	39.52	245.69
37.38	11 6 40	1775.49	33.55	47.32	216.60	140.11	11 36 16	1175.5	39.51	41.10
142.62	20 25 52	5422.31	33.56	251.92	216.62	140.10	21 56 15	4822.3	39.52	245.69
37.38	11 6 40	1775.49	33.55	47.32	216.60	140.11	11 36 16	1175.5	39.51	41.10
142.62	20 25 52	5422.31	33.56	251.92	216.62	140.10	21 56 15	4822.3	39.52	245.69

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.3644 TRA .2098 TC3 -.4096 BAU .3374 SGT 733.3 SGR 5036.3 SG3 519.9 ST 431.6 SR 1615.5 SS 1070.5
RDE -.5881 RRA-2.3298 RC3 .8855 FAU .03803 RRT -.6161 RRF -.9978 RTF .5975 CRT .1092 CRS .9892 CST .2535
FDE .9841 FRA 2.7378 FC3-1.2728 BSP 15927 SGB 5089.4 R23 .0321 R13 -.9975 LSA 1934.8 MSA 445.8 SSA 5.9
BDE .6918 BRA 2.3392 BC3 .9756 FSP -1679 SG1 5056.7 SG2 575.3 THA 95.19 EL1 1616.3 EL2 428.8 ALF 88.20

LAUNCH DATE SEP 16 1965 FLIGHT TIME 178.00 ARRIVAL DATE MAR 13 1966

HELIOCENTRIC CONIC DISTANCE 477.603

RL 150.39 LAL .00 LOL 352.92 VL 27.350 GAL 4.77 AZL 96.20 HCA 207.18 SMA 130.51 ECC .17311 INC 6.2022 V1 29.628
RP 107.94 LAP 2.83 LOP 199.96 VP 37.975 GAP .48 AZP 84.48 TAL 156.05 TAP 3.23 RCA 107.92 APO 153.10 V2 35.108
RC 73.845 GL -38.28 GP 62.44 ZAL 54.73 ZAP 90.98 ETS 355.98 ZAE 122.37 ETE 108.47 ZAC 50.76 ETC 235.61 CLP -92.12

PLANETOCENTRIC CONIC

C3 22.596 VHL 4.754 DLA -53.77 RAL 329.16 RAD 6567.9 VEL 11.999 PTH 2.14 VHP 5.516 DPA 38.22 RAP 284.15 ECC 1.3719

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
42.18	11 10 59	1714.77	33.44	40.10	210.20	134.90	11 39 34	1114.8	38.88	33.24
137.82	20 3 35	5416.75	33.45	251.13	210.22	134.89	21 33 52	4816.7	38.89	244.27
42.18	11 10 59	1714.77	33.44	40.10	210.20	134.90	11 39 34	1114.8	38.88	33.24
137.82	20 3 35	5416.75	33.45	251.13	210.22	134.89	21 33 52	4816.7	38.89	244.27
42.18	11 10 59	1714.77	33.44	40.10	210.20	134.90	11 39 34	1114.8	38.88	33.24
137.82	20 3 35	5416.75	33.45	251.13	210.22	134.89	21 33 52	4816.7	38.89	244.27

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.2435 TRA .5244 TC3 -.6162 BAU .3647 SGT 1254.2 SGR 4913.2 SG3 606.3 ST 435.2 SR 1556.9 SS 1130.7
RDE -.5058 RRA-2.3413 RC3 1.0380 FAU .04585 RRT -.8934 RRF -.9976 RTF .8830 CRT -.4149 CRS .9876 CST -.2670
FDE 1.0457 FRA 3.2848 FC3-1.7566 BSP 15891 SGB 5070.8 R23 .0433 R13 -.9968 LSA 1925.7 MSA 428.6 SSA 6.7
BDE .5614 BRA 2.3993 BC3 1.2072 FSP -1974 SG1 5041.0 SG2 549.3 THA 103.00 EL1 1568.1 EL2 393.1 ALF 97.06

LAUNCH DATE SEP 16 1965 FLIGHT TIME 180.00 ARRIVAL DATE MAR 15 1966

HELIOCENTRIC CONIC DISTANCE 483.941

RL 150.39 LAL .00 LOL 352.92 VL 27.352 GAL 4.82 AZL 95.38 HCA 210.37 SMA 130.52 ECC .17342 INC 5.3827 V1 29.628
RP 107.98 LAP 2.72 LOP 203.18 VP 37.965 GAP .91 AZP 85.35 TAL 155.82 TAP 6.20 RCA 107.89 APO 153.16 V2 35.095
RC 76.070 GL -34.48 GP 59.17 ZAL 52.18 ZAP 94.24 ETS 1.58 ZAE 124.06 ETE 114.88 ZAC 47.20 ETC 238.36 CLP -98.29

PLANETOCENTRIC CONIC

C3 20.400 VHL 4.517 DLA -50.08 RAL 327.39 RAD 6567.8 VEL 11.907 PTH 2.12 VHP 5.142 DPA 34.84 RAP 282.69 ECC 1.3357

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
46.80	11 18 3	1658.09	32.69	33.26	204.90	130.32	11 45 41	1058.1	37.63	25.98
133.20	19 42 27	5424.17	32.70	251.10	204.92	130.31	21 12 51	4824.2	37.65	243.81
46.80	11 18 3	1658.09	32.69	33.26	204.90	130.32	11 45 41	1058.1	37.63	25.98
133.20	19 42 27	5424.17	32.70	251.10	204.92	130.31	21 12 51	4824.2	37.65	243.81
46.80	11 18 3	1658.09	32.69	33.26	204.90	130.32	11 45 41	1058.1	37.63	25.98
133.20	19 42 27	5424.17	32.70	251.10	204.92	130.31	21 12 51	4824.2	37.65	243.81

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.1420 TRA .8347 TC3 -.8514 BAU .3878 SGT 1829.4 SGR 4718.9 SG3 685.6 ST 527.3 SR 1488.0 SS 1193.1
RDE -.4558 RRA-2.3112 RC3 1.1388 FAU .05277 RRT -.9529 RRF -.9973 RTF .9457 CRT -.7330 CRS .9855 CST -.6071
FDE 1.1417 FRA 3.8115 FC3-2.2396 BSP 15839 SGB 5061.1 R23 .0539 R13 -.9960 LSA 1936.2 MSA 408.4 SSA 7.5
BDE .4774 BRA 2.4573 BC3 1.4219 FSP -2247 SG1 5034.4 SG2 520.0 THA 110.50 EL1 1540.1 EL2 346.5 ALF 105.36

LAUNCH DATE SEP 16 1965 FLIGHT TIME 182.00 ARRIVAL DATE MAR 17 1966

DISTANCE 490.258

HELIOCENTRIC CONIC

RL 150.39 LAL .00 LOL 352.92 VL 27.352 GAL 4.89 AZL 94.71 HCA 213.57 SMA 130.52 ECC .17395 INC 4.7064 V1 29.628
RP 108.02 LAP 2.60 LOP 206.40 VP 37.953 GAP 1.35 AZP 86.08 TAL 155.56 TAP 9.13 RCA 107.82 APO 153.23 V2 35.082
RC 78.316 GL -30.95 GP 55.95 ZAL 49.91 ZAP 97.84 ETS 6.51 ZAE 125.32 ETE 121.09 ZAC 43.69 ETC 240.74 CLP-104.09

PLANETOCENTRIC CONIC

C3 18.907 VHL 4.348 DLA -46.64 RAL 326.00 RAD 6567.8 VEL 11.844 PTH 2.10 VHP 4.871 DPA 31.55 RAP 281.24 ECC 1.3112

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
51.26	11 27 39	1602.98	31.53	26.76	200.58	126.34	11 54 22	1003.0	36.02	19.21
128.74	19 21 44	5443.22	31.54	251.88	200.59	126.33	20 52 28	4843.2	36.03	244.33
51.26	11 27 39	1602.98	31.53	26.76	200.58	126.34	11 54 22	1003.0	36.02	19.21
128.74	19 21 44	5443.22	31.54	251.88	200.59	126.33	20 52 28	4843.2	36.03	244.33
51.26	11 27 39	1602.98	31.53	26.76	200.58	126.34	11 54 22	1003.0	36.02	19.21
128.74	19 21 44	5443.22	31.54	251.88	200.59	126.33	20 52 28	4843.2	36.03	244.33

DIFFERENTIAL CORRECTIONS

TDE -.0481 TRA 1.1374 TC3-1.1008 BAU .4097
RDE -.4210 RRA-2.2476 RC3 1.1895 FAU .05865
FDE 1.2574 FRA 4.2928 FC3-2.6855 BSP 15858
BDE .4238 BRA 2.5190 BC3 1.6207 FSP -2494

MID-COURSE EXECUTION ACCURACY

SGT 2384.3 SGR 4470.1 SG3 753.5
RRT -.9730 RRF -.9970 RTF .9672
SGB 5066.2 R23 .0628 R13 -.9951
SG1 5042.6 SG2 488.2 THA 117.71

ORBIT DETERMINATION ACCURACY

ST 658.5 SR 1408.2 SS 1252.7
CRT -.8768 CRS .9828 CST -.7732
LSA 1958.3 MSA 388.3 SSA 8.2
EL1 1526.9 EL2 292.1 ALF 113.19

LAUNCH DATE SEP 16 1965 FLIGHT TIME 184.00 ARRIVAL DATE MAR 19 1966

DISTANCE 496.555

HELIOCENTRIC CONIC

RL 150.39 LAL .00 LOL 352.92 VL 27.350 GAL 4.97 AZL 94.14 HCA 216.77 SMA 130.51 ECC .17471 INC 4.1354 V1 29.628
RP 108.06 LAP 2.47 LOP 209.62 VP 37.940 GAP 1.78 AZP 86.69 TAL 155.27 TAP 12.03 RCA 107.71 APO 153.31 V2 35.069
RC 80.581 GL -27.67 GP 52.76 ZAL 47.88 ZAP 101.67 ETS 10.79 ZAE 126.18 ETE 127.06 ZAC 40.26 ETC 242.75 CLP-109.53

PLANETOCENTRIC CONIC

C3 17.901 VHL 4.231 DLA -43.42 RAL 324.90 RAD 6567.7 VEL 11.802 PTH 2.09 VHP 4.680 DPA 28.33 RAP 279.87 ECC 1.2946

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
55.60	11 39 41	1547.39	30.10	20.50	197.10	122.90	12 5 28	947.4	34.20	12.80
124.40	19 0 54	5473.18	30.11	253.50	197.11	122.89	20 32 8	4873.2	34.21	245.79
55.60	11 39 41	1547.39	30.10	20.50	197.10	122.90	12 5 28	947.4	34.20	12.80
124.40	19 0 54	5473.18	30.11	253.50	197.11	122.89	20 32 8	4873.2	34.21	245.79
55.60	11 39 41	1547.39	30.10	20.50	197.10	122.90	12 5 28	947.4	34.20	12.80
124.40	19 0 54	5473.18	30.11	253.50	197.11	122.89	20 32 8	4873.2	34.21	245.79

DIFFERENTIAL CORRECTIONS

TDE .0447 TRA 1.4306 TC3-1.3491 BAU .4306
RDE -.3949 RRA-2.1602 RC3 1.1905 FAU .06310
FDE 1.3860 FRA 4.7113 FC3-3.0516 BSP 15911
BDE .3974 BRA 2.5910 BC3 1.7693 FSP -2695

MID-COURSE EXECUTION ACCURACY

SGT 2902.0 SGR 4186.0 SG3 807.5
RRT -.9817 RRF -.9964 RTF .9767
SGB 5093.5 R23 .0693 R13 -.9941
SG1 5073.0 SG2 456.0 THA 124.56

ORBIT DETERMINATION ACCURACY

ST 803.2 SR 1321.7 SS 1308.7
CRT -.9422 CRS .9796 CST -.8559
LSA 1992.0 MSA 369.6 SSA 9.0
EL1 1529.0 EL2 232.6 ALF 120.58

LAUNCH DATE SEP 16 1965 FLIGHT TIME 186.00 ARRIVAL DATE MAR 21 1966

DISTANCE 502.828

HELIOCENTRIC CONIC

RL 150.39 LAL .00 LOL 352.92 VL 27.347 GAL 5.06 AZL 93.64 HCA 219.96 SMA 130.48 ECC .17570 INC 3.6442 V1 29.628
RP 108.10 LAP 2.34 LOP 212.83 VP 37.925 GAP 2.21 AZP 87.21 TAL 154.93 TAP 14.90 RCA 107.56 APO 153.41 V2 35.056
RC 82.862 GL -24.64 GP 49.63 ZAL 46.07 ZAP 105.64 ETS 14.50 ZAE 126.66 ETE 132.70 ZAC 36.92 ETC 244.35 CLP-114.60

PLANETOCENTRIC CONIC

C3 17.248 VHL 4.153 DLA -40.42 RAL 324.02 RAD 6567.7 VEL 11.774 PTH 2.08 VHP 4.555 DPA 25.18 RAP 278.61 ECC 1.2839

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
59.86	11 54 19	1489.10	28.53	14.31	194.34	119.94	12 19 8	889.1	32.28	6.53
120.14	18 39 18	5514.24	28.54	255.98	194.34	119.93	20 11 13	4914.2	32.29	248.19
59.86	11 54 19	1489.10	28.53	14.31	194.34	119.94	12 19 8	889.1	32.28	6.53
120.14	18 39 18	5514.24	28.54	255.98	194.34	119.93	20 11 13	4914.2	32.29	248.19
59.86	11 54 19	1489.10	28.53	14.31	194.34	119.94	12 19 8	889.1	32.28	6.53
120.14	18 39 18	5514.24	28.54	255.98	194.34	119.93	20 11 13	4914.2	32.29	248.19

DIFFERENTIAL CORRECTIONS

TDE .1387 TRA 1.7124 TC3-1.5849 BAU .4520
RDE -.3706 RRA-2.0558 RC3 1.1531 FAU .06612
FDE 1.5137 FRA 5.0499 FC3-3.3188 BSP 16046
BDE .3957 BRA 2.6755 BC3 1.9600 FSP -2847

MID-COURSE EXECUTION ACCURACY

SGT 3376.0 SGR 3880.2 SG3 845.2
RRT -.9861 RRF -.9957 RTF .9817
SGB 5143.3 R23 .0725 R13 -.9931
SG1 5125.7 SG2 424.6 THA 130.97

ORBIT DETERMINATION ACCURACY

ST 951.1 SR 1229.3 SS 1357.7
CRT -.9744 CRS .9756 CST -.9014
LSA 2033.3 MSA 353.1 SSA 9.7
EL1 1544.9 EL2 170.3 ALF 127.55

LAUNCH DATE SEP 16 1965 FLIGHT TIME 188.00 ARRIVAL DATE MAR 23 1966

DISTANCE 509.079

HELIOCENTRIC CONIC

RL 150.39 LAL .00 LOL 352.92 VL 27.341 GAL 5.17 AZL 93.21 HCA 223.16 SMA 130.45 ECC .17691 INC 3.2147 V1 29.628
RP 108.14 LAP 2.20 LOP 216.04 VP 37.909 GAP 2.64 AZP 87.65 TAL 154.56 TAP 17.72 RCA 107.37 APO 153.52 V2 35.043
RC 85.157 GL -21.83 GP 46.58 ZAL 44.44 ZAP 109.67 ETS 17.66 ZAE 126.80 ETE 137.94 ZAC 33.71 ETC 245.51 CLP-119.32

PLANETOCENTRIC CONIC

C3 16.867 VHL 4.107 DLA -37.62 RAL 323.34 RAD 6567.7 VEL 11.758 PTH 2.08 VHP 4.483 DPA 22.13 RAP 277.52 ECC 1.2776

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
64.13	12 11 59	1425.56	26.88	8.00	192.18	117.37	12 35 44	825.6	30.32	.18
115.87	18 16 11	5567.45	26.89	259.40	192.19	117.35	19 48 58	4967.5	30.33	251.58
64.13	12 11 59	1425.56	26.88	8.00	192.18	117.37	12 35 44	825.6	30.32	.18
115.87	18 16 11	5567.45	26.89	259.40	192.19	117.35	19 48 58	4967.5	30.33	251.58
64.13	12 11 59	1425.56	26.88	8.00	192.18	117.37	12 35 44	825.6	30.32	.18
115.87	18 16 11	5567.45	26.89	259.40	192.19	117.35	19 48 58	4967.5	30.33	251.58

DIFFERENTIAL CORRECTIONS

TDE .2366 TRA 1.9842 TC3-1.7949 BAU .4724
RDE -.3480 RRA-1.9444 RC3 1.0804 FAU .06735
FDE 1.6391 FRA 5.3095 FC3-3.4572 BSP 16197
BDE .4208 BRA 2.7781 BC3 2.0949 FSP -2934

MID-COURSE EXECUTION ACCURACY

SGT 3807.3 SGR 3570.8 SG3 867.2
RRT -.9883 RRF -.9948 RTF .9845
SGB 5219.8 R23 .0724 R13 -.9922
SG1 5204.6 SG2 398.1 THA 136.86

ORBIT DETERMINATION ACCURACY

ST 1100.0 SR 1136.6 SS 1402.2
CRT -.9906 CRS .9708 CST -.9290
LSA 2086.3 MSA 339.2 SSA 10.4
EL1 1578.0 EL2 108.6 ALF 134.05

LAUNCH DATE SEP 16 1965 FLIGHT TIME 190.00 ARRIVAL DATE MAR 25 1966

HELIOCENTRIC CONIC DISTANCE 515,305

RL 150.39 LAL .00 LOL 352.92 VL 27,335 GAL 5.29 AZL 92.83 HCA 226.36 SMA 130.40 ECC .17834 INC 2.8339 V1 29.628
RP 108.18 LAP 2.05 LOP 219.24 VP 37.892 GAP 3.07 AZP 88.04 TAL 154.16 TAP 20.51 RCA 107.14 APO 153.65 V2 35.030
RC 87.465 GL -19.23 GP 43.64 ZAL 42.97 ZAP 113.67 ETS 20.36 ZAE 126.66 ETE 142.71 ZAC 30.66 ETC 246.16 CLP-123.69

PLANETOCENTRIC CONIC

C3 16.701 VHL 4.087 DLA -35.00 RAL 322.81 RAD 6567.7 VEL 11.751 PTH 2.07 VHP 4.456 DPA 19.19 RAP 276.61 ECC 1.2749

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
68.51	12 33 33	1353.01	25.21	1.26	190.55	115.13	12 56 6	753.0	28.38	353.44
111.49	17 50 24	5635.47	25.22	263.94	190.55	115.12	19 24 19	5035.5	28.39	256.12
68.51	12 33 33	1353.01	25.21	1.26	190.55	115.13	12 56 6	753.0	28.38	353.44
111.49	17 50 24	5635.47	25.22	263.94	190.55	115.12	19 24 19	5035.5	28.39	256.12
68.51	12 33 33	1353.01	25.21	1.26	190.55	115.13	12 56 6	753.0	28.38	353.44
111.49	17 50 24	5635.47	25.22	263.94	190.55	115.12	19 24 19	5035.5	28.39	256.12

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE .3359 TRA 2.2428 TC3-1.9788 BAU .4944 SGT 4192.1 SGR 3261.9 SG3 872.6 ST 1245.2 SR 1041.0 SS 1434.9
RDE -.3216 RRA-1.8268 RC3 .9941 FAU .06748 RRT -.9894 RRF -.9936 RTF .9862 CRT -.9981 CRS .9645 CST -.9468
FDE 1.7433 FRA 5.4761 FC3-3.4978 BSP 16490 SGB 5311.7 R23 .0682 R13 -.9915 LSA 2141.4 MSA 327.6 SSA 11.0
BDE .4650 BRA 2.8926 BC3 2.2144 FSP -2981 SG1 5298.5 SG2 374.8 THA 142.19 EL1 1622.3 EL2 49.4 ALF 140.11

LAUNCH DATE SEP 16 1965 FLIGHT TIME 192.00 ARRIVAL DATE MAR 27 1966

HELIOCENTRIC CONIC DISTANCE 521,505

RL 150.39 LAL .00 LOL 352.92 VL 27,326 GAL 5.43 AZL 92.49 HCA 229.55 SMA 130.34 ECC .18000 INC 2.4917 V1 29.628
RP 108.22 LAP 1.90 LOP 222.45 VP 37,874 GAP 3.49 AZP 88.38 TAL 153.72 TAP 23.27 RCA 106.88 APO 153.80 V2 35.016
RC 89.783 GL -16.81 GP 40.83 ZAL 41.64 ZAP 117.58 ETS 22.64 ZAE 126.28 ETE 146.99 ZAC 27.81 ETC 246.24 CLP-127.73

PLANETOCENTRIC CONIC

C3 16.716 VHL 4.088 DLA -32.56 RAL 322.41 RAD 6567.7 VEL 11.752 PTH 2.07 VHP 4.469 DPA 16.40 RAP 275.91 ECC 1.2751

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
73.21	13 0 48	1264.90	23.55	353.60	189.35	113.16	13 21 53	664.9	26.48	345.79
106.79	17 19 58	5723.98	23.57	270.00	189.36	113.15	18 55 22	5124.0	26.49	262.20
73.21	13 0 48	1264.90	23.55	353.60	189.35	113.16	13 21 53	664.9	26.48	345.79
106.79	17 19 58	5723.98	23.57	270.00	189.36	113.15	18 55 22	5124.0	26.49	262.20
110.00	16 20 36	619.27	16.96	302.68	185.83	120.13	16 30 55	19.3	20.84	295.70
110.00	18 59 21	5417.61	30.51	249.16	192.14	106.23	20 29 39	4817.6	32.42	240.46

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE .4383 TRA 2.4919 TC3-2.1298 BAU .5164 SGT 4536.4 SGR 2967.3 SG3 864.5 ST 1387.5 SR 947.9 SS 1459.3
RDE -.2936 RRA-1.7113 RC3 .8971 FAU .06634 RRT -.9896 RRF -.9919 RTF .9873 CRT -.9998 CRS .9564 CST -.9591
FDE 1.8290 FRA 5.5655 FC3-3.4360 BSP 16850 SGB 5420.6 R23 .0609 R13 -.9909 LSA 2202.7 MSA 318.2 SSA 11.6
BDE .5275 BRA 3.0229 BC3 2.3110 FSP -2981 SG1 5408.8 SG2 357.8 THA 146.92 EL1 1680.3 EL2 13.7 ALF 145.66

LAUNCH DATE SEP 16 1965 FLIGHT TIME 194.00 ARRIVAL DATE MAR 29 1966

HELIOCENTRIC CONIC DISTANCE 527,679

RL 150.39 LAL .00 LOL 352.92 VL 27.317 GAL 5.58 AZL 92.18 HCA 232.74 SMA 130.28 ECC .18189 INC 2.1809 V1 29.628
RP 108.26 LAP 1.74 LOP 225.64 VP 37,854 GAP 3.92 AZP 88.68 TAL 153.24 TAP 25.99 RCA 106.58 APO 153.97 V2 35.003
RC 92.112 GL -14.58 GP 38.18 ZAL 40.44 ZAP 121.36 ETS 24.58 ZAE 125.72 ETE 150.77 ZAC 25.17 ETC 245.67 CLP-131.45

PLANETOCENTRIC CONIC

C3 16.888 VHL 4.109 DLA -30.28 RAL 322.13 RAD 6567.7 VEL 11.759 PTH 2.08 VHP 4.515 DPA 13.75 RAP 275.43 ECC 1.2779

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
78.79	13 38 41	1144.54	21.93	343.78	188.53	111.43	13 57 46	544.5	24.64	336.01
101.21	16 39 49	5849.04	21.94	278.73	188.54	111.42	18 17 18	5249.0	24.65	270.95
78.79	13 38 41	1144.54	21.93	343.78	188.53	111.43	13 57 46	544.5	24.64	336.01
101.21	16 39 49	5849.04	21.94	278.73	188.54	111.42	18 17 18	5249.0	24.65	270.95
110.00	15 36 23	760.99	11.95	310.61	183.27	122.27	15 49 4	161.0	16.13	303.99
110.00	19 41 18	5280.59	32.68	239.07	192.00	100.64	21 9 18	4680.6	33.80	230.02

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE .5432 TRA 2.7325 TC3-2.2470 BAU .5383 SGT 4842.5 SGR 2691.5 SG3 844.9 ST 1526.0 SR 858.6 SS 1475.5
RDE -.2642 RRA-1.6007 RC3 .7971 FAU .06419 RRT -.9891 RRF -.9899 RTF .9880 CRT -.9970 CRS .9461 CST -.9679
FDE 1.8944 FRA 5.5860 FC3-3.2909 BSP 17258 SGB 5540.2 R23 .0515 R13 -.9904 LSA 2268.5 MSA 311.0 SSA 12.0
BDE .6041 BRA 3.1669 BC3 2.3842 FSP -2940 SG1 5529.3 SG2 347.3 THA 151.08 EL1 1750.0 EL2 57.9 ALF 150.67

LAUNCH DATE SEP 16 1965 FLIGHT TIME 196.00 ARRIVAL DATE MAR 31 1966

HELIOCENTRIC CONIC DISTANCE 533,826

RL 150.39 LAL .00 LOL 352.92 VL 27,306 GAL 5.76 AZL 91.90 HCA 235.94 SMA 130.20 ECC .18401 INC 1.8956 V1 29.628
RP 108.31 LAP 1.57 LOP 228.84 VP 37,834 GAP 4.35 AZP 88.94 TAL 152.73 TAP 28.67 RCA 106.24 APO 154.16 V2 34.990
RC 94.449 GL -12.51 GP 35.69 ZAL 39.33 ZAP 124.98 ETS 26.24 ZAE 125.04 ETE 154.07 ZAC 22.78 ETC 244.34 CLP-134.90

PLANETOCENTRIC CONIC

C3 17.202 VHL 4.148 DLA -28.16 RAL 321.94 RAD 6567.7 VEL 11.772 PTH 2.08 VHP 4.591 DPA 11.27 RAP 275.17 ECC 1.2831

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	14 42 2	942.89	18.38	327.45	187.24	111.93	14 57 45	342.9	21.19	319.91
90.00	15 34 58	771.16	22.37	316.44	188.78	107.83	15 47 49	171.2	24.60	308.48
100.00	15 4 29	870.28	13.86	320.00	185.12	116.75	15 18 59	270.3	17.34	312.94
100.00	17 55 12	5607.04	27.14	262.53	190.23	103.03	19 28 39	5007.0	28.67	254.06
110.00	15 6 31	863.87	8.16	316.16	181.76	123.31	15 20 55	263.9	12.49	309.74
110.00	20 9 39	5186.21	33.64	231.88	191.52	96.48	21 36 6	4586.2	34.17	222.67

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE .6518 TRA 2.9678 TC3-2.3291 BAU .5592 SGT 5115.4 SGR 2438.8 SG3 817.0 ST 1661.4 SR 775.1 SS 1484.8
RDE -.2343 RRA-1.4978 RC3 .6986 FAU .06119 RRT -.9878 RRF -.9872 RTF .9884 CRT -.9898 CRS .9331 CST -.9745
FDE 1.9413 FRA 5.5525 FC3-3.0793 BSP 17687 SGB 5667.0 R23 .0414 R13 -.9900 LSA 2339.2 MSA 305.3 SSA 12.4
BDE .6926 BRA 3.3243 BC3 2.4317 FSP -2864 SG1 5656.6 SG2 343.0 THA 154.68 EL1 1830.6 EL2 100.1 ALF 155.13

LAUNCH DATE SEP 16 1965 FLIGHT TIME 198.00 ARRIVAL DATE APR 2 1966

DISTANCE 539.945

HELIOCENTRIC CONIC

RL 150.39 LAL .00 LOL 352.92 VL 27.294 GAL 5.94 AZL 91.63 HCA 239.12 SMA 130.12 ECC .18638 INC 1.6312 V1 29.628
RP 108.35 LAP 1.40 LOP 232.04 VP 37.814 GAP 4.78 AZP 89.16 TAL 152.19 TAP 31.32 RCA 105.87 APO 154.37 V2 34.977
RC 96.794 GL -10.60 GP 33.39 ZAL 38.32 ZAP 128.41 ETS 27.68 ZAE 124.28 ETE 156.93 ZAC 20.66 ETC 242.16 CLP-138.08

PLANETOCENTRIC CONIC

C3 17.650 VHL 4.201 DLA -26.17 RAL 321.84 RAD 6567.7 VEL 11.791 PTH 2.08 VHP 4.693 DPA 8.97 RAP 275.13 ECC 1.2905

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	13 31 25	1180.47	11.78	341.76	184.84	115.94	13 51 6	580.5	15.17	334.73
90.00	16 44 44	5833.53	26.23	278.96	189.94	101.07	18 21 58	5233.5	27.49	270.52
100.00	14 24 42	1008.43	9.50	327.93	183.65	118.48	14 41 30	408.4	13.23	321.13
100.00	18 34 9	5480.81	28.76	253.50	190.43	98.54	20 5 30	4880.8	29.64	244.80
110.00	14 43 31	949.38	4.94	320.69	180.87	123.87	14 59 20	349.4	9.35	314.38
110.00	20 31 50	5112.62	34.06	226.17	191.07	93.13	21 57 2	4512.6	34.12	216.93

DIFFERENTIAL CORRECTIONS

TDE .7651 TRA 3.2008 TC3-2.3745 BAU .5781
RDE -.2050 RRA-1.4043 RC3 .6033 FAU .05737
FDE 1.9742 FRA 5.4803 FC3-2.8141 BSP 18078
BDE .7921 BRA 3.4953 BC3 2.4499 FSP -2752

MID-COURSE EXECUTION ACCURACY

SGT 5359.5 SGR 2211.0 SG3 783.3
RRT -.9858 RRF -.9839 RTF .9885
SGB 5797.7 R23 .0321 R13 -.9896
SGI 5787.5 SG2 344.0 THA 157.79

ORBIT DETERMINATION ACCURACY

ST 1794.8 SR 698.7 SS 1489.5
CRT -.9782 CRS .9168 CST -.9796
LSA 2416.1 MSA 300.9 SSA 12.7
ELI 1921.2 EL2 135.6 ALF 159.04

LAUNCH DATE SEP 16 1965 FLIGHT TIME 200.00 ARRIVAL DATE APR 4 1966

DISTANCE 546.034

HELIOCENTRIC CONIC

RL 150.39 LAL .00 LOL 352.92 VL 27.281 GAL 6.15 AZL 91.38 HCA 242.31 SMA 130.03 ECC .18900 INC 1.3840 V1 29.628
RP 108.39 LAP 1.23 LOP 235.23 VP 37.792 GAP 5.21 AZP 89.36 TAL 151.62 TAP 33.93 RCA 105.45 APO 154.60 V2 34.964
RC 99.145 GL -8.83 GP 31.26 ZAL 37.38 ZAP 131.65 ETS 28.94 ZAE 123.49 ETE 159.38 ZAC 18.83 ETC 239.03 CLP-141.03

PLANETOCENTRIC CONIC

C3 18.228 VHL 4.269 DLA -24.31 RAL 321.80 RAD 6567.7 VEL 11.816 PTH 2.09 VHP 4.818 DPA 6.84 RAP 275.28 ECC 1.3000

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 56 9	1308.14	7.88	349.12	183.89	117.29	13 17 57	708.1	11.47	342.28
90.00	17 19 45	5720.87	27.45	270.94	190.23	97.23	18 55 6	5120.9	28.17	262.35
100.00	13 56 52	1112.12	6.08	333.74	182.91	119.32	14 15 25	512.1	9.94	327.08
100.00	19 1 43	5392.13	29.48	247.01	190.48	95.20	20 31 35	4792.1	29.89	238.23
110.00	14 24 49	1024.48	2.08	324.62	180.43	124.13	14 41 53	424.5	6.54	318.38
110.00	20 50 16	5052.53	34.18	221.48	190.75	90.36	22 14 28	4452.5	33.85	212.25

DIFFERENTIAL CORRECTIONS

TDE .8788 TRA 3.4288 TC3-2.3956 BAU .5974
RDE -.1743 RRA-1.3185 RC3 .5200 FAU .05351
FDE 1.9850 FRA 5.3714 FC3-2.5415 BSP 18548
BDE .8959 BRA 3.6736 BC3 2.4514 FSP -2636

MID-COURSE EXECUTION ACCURACY

SGT 5573.9 SGR 2005.4 SG3 745.1
RRT -.9830 RRF -.9798 RTF .9885
SGB 5923.7 R23 .0232 R13 -.9892
SGI 5913.5 SG2 347.5 THA 160.45

ORBIT DETERMINATION ACCURACY

ST 1920.7 SR 627.8 SS 1485.2
CRT -.9611 CRS .8956 CST -.9835
LSA 2490.1 MSA 297.5 SSA 12.9
ELI 2013.9 EL2 165.3 ALF 162.44

LAUNCH DATE SEP 16 1965 FLIGHT TIME 202.00 ARRIVAL DATE APR 6 1966

DISTANCE 552.091

HELIOCENTRIC CONIC

RL 150.39 LAL .00 LOL 352.92 VL 27.268 GAL 6.38 AZL 91.15 HCA 245.50 SMA 129.93 ECC .19189 INC 1.1511 V1 29.628
RP 108.43 LAP 1.05 LOP 238.41 VP 37.771 GAP 5.65 AZP 89.52 TAL 151.02 TAP 36.51 RCA 105.00 APO 154.86 V2 34.951
RC 101.502 GL -7.19 GP 29.31 ZAL 36.50 ZAP 134.70 ETS 30.09 ZAE 122.67 ETE 161.49 ZAC 17.32 ETC 234.91 CLP-143.77

PLANETOCENTRIC CONIC

C3 18.935 VHL 4.351 DLA -22.57 RAL 321.83 RAD 6567.8 VEL 11.846 PTH 2.10 VHP 4.964 DPA 4.88 RAP 275.64 ECC 1.3116

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 30 25	1408.07	4.72	354.76	183.50	117.95	12 53 53	808.1	8.42	348.04
90.00	17 45 44	5638.81	28.01	265.01	190.46	94.31	19 19 43	5038.8	28.32	256.35
100.00	13 35 7	1199.24	3.16	338.55	182.64	119.74	13 55 7	599.2	7.09	331.97
100.00	19 23 43	5322.88	29.80	241.88	190.59	92.52	20 52 26	4722.9	29.83	233.08
110.00	14 9 10	1092.50	-.52	328.17	180.34	124.18	14 27 23	492.5	3.96	321.96
110.00	21 6 10	5002.38	34.13	217.57	190.61	88.04	22 29 32	4402.4	33.49	208.38

DIFFERENTIAL CORRECTIONS

TDE .9958 TRA 3.6570 TC3-2.3896 BAU .6153
RDE -.1443 RRA-1.2420 RC3 .4454 FAU .04943
FDE 1.9835 FRA 5.2430 FC3-2.2601 BSP 19002
BDE 1.0062 BRA 3.8622 BC3 2.4308 FSP -2509

MID-COURSE EXECUTION ACCURACY

SGT 5765.1 SGR 1822.8 SG3 705.0
RRT -.9792 RRF -.9748 RTF .9885
SGB 6046.4 R23 .0158 R13 -.9889
SGI 6036.1 SG2 353.2 THA 162.74

ORBIT DETERMINATION ACCURACY

ST 2042.1 SR 564.4 SS 1476.6
CRT -.9379 CRS .8690 CST -.9866
LSA 2565.5 MSA 294.7 SSA 13.1
ELI 2110.2 EL2 189.4 ALF 165.35

LAUNCH DATE SEP 16 1965 FLIGHT TIME 204.00 ARRIVAL DATE APR 8 1966

DISTANCE 558.116

HELIOCENTRIC CONIC

RL 150.39 LAL .00 LOL 352.92 VL 27.253 GAL 6.62 AZL 90.93 HCA 248.68 SMA 129.83 ECC .19504 INC .9298 V1 29.628
RP 108.46 LAP .87 LOP 241.60 VP 37.748 GAP 6.09 AZP 89.66 TAL 150.38 TAP 39.07 RCA 104.51 APO 155.15 V2 34.939
RC 103.862 GL -5.67 GP 27.52 ZAL 35.69 ZAP 137.56 ETS 31.15 ZAE 121.87 ETE 163.29 ZAC 16.16 ETC 229.80 CLP-146.32

PLANETOCENTRIC CONIC

C3 19.775 VHL 4.447 DLA -20.94 RAL 321.92 RAD 6567.8 VEL 11.881 PTH 2.11 VHP 5.128 DPA 3.08 RAP 276.17 ECC 1.3254

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 9 58	1493.39	1.98	359.54	183.50	118.25	12 34 51	893.4	5.74	352.88
90.00	18 6 54	5574.02	28.26	260.28	190.77	91.95	19 39 48	4974.0	28.23	251.62
100.00	13 17 17	1276.15	.55	342.77	182.71	119.89	13 38 33	676.1	4.52	336.24
100.00	19 42 16	5266.49	29.89	237.70	190.81	90.32	21 10 2	4666.5	29.61	228.90
110.00	13 55 50	1155.32	-2.92	331.44	180.54	124.07	14 15 5	555.3	1.57	325.24
110.00	21 20 12	4960.09	33.99	214.27	190.66	86.10	22 42 52	4360.1	33.07	205.15

DIFFERENTIAL CORRECTIONS

TDE 1.1161 TRA 3.8868 TC3-2.3591 BAU .6317
RDE -.1151 RRA-1.1743 RC3 .3795 FAU .04526
FDE 1.9719 FRA 5.1027 FC3-1.9814 BSP 19449
BDE 1.1220 BRA 4.0603 BC3 2.3895 FSP -2376

MID-COURSE EXECUTION ACCURACY

SGT 5935.0 SGR 1661.4 SG3 664.3
RRT -.9744 RRF -.9688 RTF .9883
SGB 6163.2 R23 .0098 R13 -.9886
SGI 6152.6 SG2 360.1 THA 164.69

ORBIT DETERMINATION ACCURACY

ST 2158.7 SR 508.2 SS 1464.1
CRT -.9076 CRS .8359 CST -.9890
LSA 2641.2 MSA 292.3 SSA 13.2
ELI 2207.8 EL2 208.6 ALF 167.83

LAUNCH DATE SEP 16 1965 FLIGHT TIME 206.00 ARRIVAL DATE APR 10 1966

HELIOCENTRIC CONIC DISTANCE 564.107

RL 150.39 LAL .00 LOL 352.92 VL 27.237 GAL 6.89 AZL 90.72 HCA 251.86 SMA 129.72 ECC .19849 INC .7181 VI 29.628
RP 108.50 LAP .68 LOP 244.78 VP 37.726 GAP 6.55 AZP 89.78 TAL 149.73 TAP 41.59 RCA 103.97 APO 155.47 V2 34.926
RC 106.225 GL -4.27 GP 25.90 ZAL 34.92 ZAP 140.23 ETS 32.17 ZAE 121.09 ETE 164.82 ZAC 15.37 ETC 223.86 CLP-148.70

PLANETOCENTRIC CONIC

C3 20.752 VHL 4.555 DLA -19.42 RAL 322.06 RAD 6567.8 VEL 11.922 PTH 2.12 VHP 5.311 DPA 1.45 RAP 276.87 ECC 1.3415

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 53 1	1569.37	-.47	3.77	183.81	118.31	12 19 10	969.4	3.32	357.14
90.00	18 24 56	5521.07	28.32	256.41	191.20	90.01	19 56 57	4921.1	28.02	247.76
100.00	13 2 14	1345.99	-1.82	346.61	183.06	119.84	13 24 40	746.0	2.17	340.09
100.00	19 58 24	5219.68	29.86	234.22	191.18	88.48	21 25 24	4619.7	29.33	225.45
110.00	13 44 19	1214.12	-5.16	334.53	180.98	123.84	14 4 33	614.1	-.68	328.31
110.00	21 32 48	4924.32	33.79	211.50	190.90	84.46	22 54 53	4324.3	32.65	202.45

DIFFERENTIAL CORRECTIONS
TDE 1.2438 TRA 4.1236 TC3-2.3013 BAU .6446
RDE -.0879 RRA-1.1156 RC3 .3200 FAU .04085
FOE 1.9581 FRA 4.9617 FC3-1.7042 BSP 19787
BDE 1.2469 BRA 4.2718 BC3 2.3234 FSP -2230

MID-COURSE EXECUTION ACCURACY
SGT 6089.8 SGR 1520.1 SG3 624.6
RRT -.9686 RRF -.9618 RTF .9880
SGB 6276.7 R23 .0055 R13 -.9882
SG1 6265.9 SG2 367.5 THA 166.36

ORBIT DETERMINATION ACCURACY
ST 2274.4 SR 459.9 SS 1451.7
CRT -.8699 CRS .7965 CST -.9910
LSA 2721.7 MSA 290.0 SSA 13.3
EL1 2309.7 EL2 223.4 ALF 169.93

LAUNCH DATE SEP 16 1965 FLIGHT TIME 208.00 ARRIVAL DATE APR 12 1966

HELIOCENTRIC CONIC DISTANCE 570.061

RL 150.39 LAL .00 LOL 352.92 VL 27.221 GAL 7.17 AZL 90.51 HCA 255.04 SMA 129.61 ECC .20225 INC .5141 VI 29.628
RP 108.54 LAP .50 LOP 247.96 VP 37.703 GAP 7.01 AZP 89.87 TAL 149.05 TAP 44.09 RCA 103.39 APO 155.82 V2 34.914
RC 108.588 GL -2.97 GP 24.42 ZAL 34.20 ZAP 142.74 ETS 33.18 ZAE 120.34 ETE 166.13 ZAC 14.96 ETC 217.38 CLP-150.93

PLANETOCENTRIC CONIC

C3 21.877 VHL 4.677 DLA -18.00 RAL 322.24 RAD 6567.9 VEL 11.969 PTH 2.13 VHP 5.511 DPA -.03 RAP 277.73 ECC 1.3600

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 38 37	1638.72	-2.71	7.64	184.36	118.20	12 5 56	1038.7	1.08	1.02
90.00	18 40 45	5477.12	28.28	253.19	191.77	88.40	20 12 2	4877.1	27.75	244.57
100.00	12 49 19	1410.59	-4.00	350.16	183.65	119.65	13 12 50	810.6	-.02	343.63
100.00	20 12 44	5180.48	29.75	231.31	191.70	86.96	21 39 4	4580.5	29.01	222.58
110.00	13 34 17	1269.72	-7.26	337.46	181.63	123.50	13 55 26	669.7	-2.81	331.21
110.00	21 44 16	4894.11	33.56	209.17	191.31	85.10	23 5 50	4294.1	32.25	200.18

DIFFERENTIAL CORRECTIONS
TDE 1.3707 TRA 4.3605 TC3-2.2338 BAU .6581
RDE -.0603 RRA-1.0629 RC3 .2715 FAU .03689
FOE 1.9313 FRA 4.8132 FC3-1.4599 BSP 20207
BDE 1.3720 BRA 4.4881 BC3 2.2703 FSP -2100

MID-COURSE EXECUTION ACCURACY
SGT 6223.4 SGR 1394.3 SG3 585.3
RRT -.9615 RRF -.9537 RTF .9878
SGB 6377.7 R23 .0018 R13 -.9879
SG1 6366.7 SG2 374.4 THA 167.80

ORBIT DETERMINATION ACCURACY
ST 2379.5 SR 417.4 SS 1433.1
CRT -.8222 CRS .7475 CST -.9926
LSA 2794.1 MSA 287.9 SSA 13.4
EL1 2404.4 EL2 235.1 ALF 171.71

LAUNCH DATE SEP 16 1965 FLIGHT TIME 210.00 ARRIVAL DATE APR 14 1966

HELIOCENTRIC CONIC DISTANCE 575.976

RL 150.39 LAL .00 LOL 352.92 VL 27.204 GAL 7.48 AZL 90.32 HCA 258.22 SMA 129.49 ECC .20633 INC .3161 VI 29.628
RP 108.58 LAP .31 LOP 251.14 VP 37.680 GAP 7.48 AZP 89.94 TAL 148.35 TAP 46.57 RCA 102.77 APO 156.21 V2 34.903
RC 110.951 GL -1.77 GP 23.07 ZAL 33.51 ZAP 145.08 ETS 34.21 ZAE 119.63 ETE 167.25 ZAC 14.92 ETC 210.74 CLP-153.03

PLANETOCENTRIC CONIC

C3 23.159 VHL 4.812 DLA -16.67 RAL 322.45 RAD 6567.9 VEL 12.022 PTH 2.15 VHP 5.728 DPA -1.38 RAP 278.72 ECC 1.3811

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 26 13	1703.09	-4.77	11.25	185.13	117.95	11 54 36	1103.1	-.99	4.60
90.00	18 54 52	5440.40	28.18	250.51	192.47	87.06	20 25 32	4840.4	27.47	241.92
100.00	12 38 7	1471.11	-6.03	353.51	184.44	119.33	13 2 38	871.1	-2.07	346.95
100.00	20 25 39	5147.62	29.61	228.87	192.37	85.68	21 51 27	4547.6	28.69	220.19
110.00	13 25 29	1322.70	-9.24	340.29	182.47	123.06	13 47 32	722.7	-4.82	333.99
110.00	21 54 46	4868.78	33.34	207.22	191.90	81.97	23 15 55	4268.8	31.87	198.30

DIFFERENTIAL CORRECTIONS
TDE 1.5022 TRA 4.6045 TC3-2.1506 BAU .6696
RDE -.0338 RRA-1.0169 RC3 .2296 FAU .03304
FOE 1.9015 FRA 4.6686 FC3-1.2351 BSP 20591
BDE 1.5026 BRA 4.7154 BC3 2.1628 FSP -1972

MID-COURSE EXECUTION ACCURACY
SGT 6342.8 SGR 1283.7 SG3 547.8
RRT -.9533 RRF -.9444 RTF .9875
SGB 6471.4 R23 -.0011 R13 -.9875
SG1 6460.2 SG2 380.6 THA 169.04

ORBIT DETERMINATION ACCURACY
ST 2479.9 SR 381.4 SS 1413.4
CRT -.7649 CRS .6899 CST -.9939
LSA 2865.5 MSA 285.7 SSA 13.4
EL1 2497.2 EL2 244.0 ALF 173.23

LAUNCH DATE SEP 16 1965 FLIGHT TIME 212.00 ARRIVAL DATE APR 16 1966

HELIOCENTRIC CONIC DISTANCE 581.847

RL 150.39 LAL .00 LOL 352.92 VL 27.186 GAL 7.82 AZL 90.12 HCA 261.40 SMA 129.37 ECC .21076 INC .1225 VI 29.628
RP 108.61 LAP .12 LOP 254.32 VP 37.656 GAP 7.96 AZP 89.98 TAL 147.62 TAP 49.02 RCA 102.10 APO 156.63 V2 34.892
RC 113.313 GL -.67 GP 21.85 ZAL 32.86 ZAP 147.28 ETS 35.28 ZAE 118.96 ETE 168.21 ZAC 15.25 ETC 204.34 CLP-155.01

PLANETOCENTRIC CONIC

C3 24.613 VHL 4.961 DLA -15.43 RAL 322.70 RAD 6568.0 VEL 12.083 PTH 2.16 VHP 5.961 DPA -2.59 RAP 279.84 ECC 1.4051

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 15 24	1763.56	-6.69	14.66	186.08	117.58	11 44 48	1163.6	-2.94	7.98
90.00	19 7 38	5409.76	28.05	248.28	193.32	85.94	20 37 48	4809.8	27.19	239.72
100.00	12 28 18	1528.36	-7.93	356.70	185.41	118.92	12 53 46	928.4	-4.01	350.10
100.00	20 37 26	5120.18	29.45	226.85	193.18	84.63	22 2 46	4520.2	28.39	218.20
110.00	13 17 44	1373.51	-11.11	343.03	183.49	122.54	13 40 37	773.5	-6.74	336.66
110.00	22 4 29	4847.80	33.13	205.62	192.64	81.05	23 25 17	4247.8	31.54	196.76

DIFFERENTIAL CORRECTIONS
TDE 1.6384 TRA 4.8561 TC3-2.0547 BAU .6791
RDE -.0084 RRA -.9768 RC3 .1937 FAU .02935
FOE 1.8695 FRA 4.5291 FC3-1.0322 BSP 20942
BDE 1.6384 BRA 4.9534 BC3 2.0638 FSP -1848

MID-COURSE EXECUTION ACCURACY
SGT 6448.6 SGR 1185.9 SG3 512.3
RRT -.9439 RRF -.9340 RTF .9871
SGB 6556.8 R23 -.0032 R13 -.9872
SG1 6545.4 SG2 386.0 THA 170.12

ORBIT DETERMINATION ACCURACY
ST 2575.0 SR 351.2 SS 1392.6
CRT -.6981 CRS .6239 CST -.9950
LSA 2934.8 MSA 283.4 SSA 13.3
EL1 2586.7 EL2 250.3 ALF 174.51

LAUNCH DATE SEP 16 1965 FLIGHT TIME 214.00 ARRIVAL DATE APR 18 1966

HELIOCENTRIC CONIC DISTANCE 587.673
RL 150.39 LAL .00 LOL 352.92 VL 27.168 GAL 8.18 AZL 89.93 HCA 264.57 SMA 129.24 ECC .21557 INC .0652 V1 29.628
RP 108.64 LAP -.07 LOP 257.49 VP 37.633 GAP 8.45 AZP 90.01 TAL 146.89 TAP 51.46 RCA 101.38 APO 157.10 V2 34.881
RC 115.673 GL .35 GP 20.74 ZAL 32.23 ZAP 149.33 ETS 36.42 ZAE 118.33 ETE 169.03 ZAC 15.89 ETC 198.49 CLP-156.89
PLANETOCENTRIC CONIC
C3 26.257 VHL 5.124 DLA -14.27 RAL 322.97 RAD 6568.1 VEL 12.150 PTH 2.18 VHP 6.210 DPA -3.67 RAP 281.08 ECC 1.4321

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 5 55	1820.87	-8.48	17.91	187.19	117.12	11 36 16	1220.9	-4.78	11.19
90.00	19 19 19	5384.35	27.91	246.43	194.29	85.03	20 49 3	4784.4	26.93	237.91
100.00	12 19 39	1582.94	-9.71	359.77	186.54	118.41	12 46 2	982.9	-5.84	353.12
100.00	20 48 15	5097.51	29.29	225.18	194.13	83.77	22 13 13	4497.5	28.12	216.57
110.00	13 10 53	1422.48	-12.89	345.71	184.65	121.94	13 34 35	822.5	-8.58	339.27
110.00	22 13 31	4830.74	32.94	204.33	193.54	80.30	23 34 2	4230.7	31.25	195.51

DIFFERENTIAL CORRECTIONS
TDE 1.7801 TRA 5.1176 TC3-1.9481 BAU .6862
RDE .0160 RRA -.9418 RC3 .1629 FAU .02582
FDE 1.8371 FRA 4.3972 FC3 -.8512 BSP 21263
BDE 1.7801 BRA 5.2035 BC3 1.9549 FSP -1729

MID-COURSE EXECUTION ACCURACY
SGT 6542.8 SGR 1099.4 SG3 478.9
RRT -.9332 RRF -.9225 RTF .9868
SGB 6634.5 R23 -.0047 R13 -.9868
SG1 6623.0 SG2 390.3 THA 171.06

ORBIT DETERMINATION ACCURACY
ST 2665.1 SR 326.5 SS 1371.8
CRT -.6230 CRS .5505 CST -.9959
LSA 3002.0 MSA 280.7 SSA 13.3
EL1 2672.9 EL2 254.6 ALF 175.60

LAUNCH DATE SEP 16 1965 FLIGHT TIME 216.00 ARRIVAL DATE APR 20 1966

HELIOCENTRIC CONIC DISTANCE 593.449
RL 150.39 LAL .00 LOL 352.92 VL 27.149 GAL 8.57 AZL 89.75 HCA 267.74 SMA 129.11 ECC .22078 INC .2544 V1 29.628
RP 108.68 LAP -.25 LOP 260.66 VP 37.610 GAP 8.97 AZP 90.01 TAL 146.13 TAP 53.88 RCA 100.61 APO 157.62 V2 34.870
RC 118.029 GL 1.29 GP 19.74 ZAL 31.64 ZAP 151.27 ETS 37.65 ZAE 117.73 ETE 169.74 ZAC 16.79 ETC 193.35 CLP-158.68
PLANETOCENTRIC CONIC
C3 28.111 VHL 5.302 DLA -13.18 RAL 323.27 RAD 6568.1 VEL 12.226 PTH 2.20 VHP 6.477 DPA -4.64 RAP 282.41 ECC 1.4626

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 57 32	1875.58	-10.16	21.05	188.46	116.57	11 28 47	1275.6	-6.52	14.27
90.00	19 30 3	5363.57	27.78	244.93	195.39	84.28	20 59 27	4763.6	26.70	236.43
100.00	12 12 0	1635.28	-11.39	2.75	187.82	117.83	12 39 16	1035.3	-7.58	356.03
100.00	20 58 16	5079.10	29.15	223.83	195.22	83.07	22 22 55	4479.1	27.88	215.26
110.00	13 4 49	1469.89	-14.58	348.34	185.96	121.26	13 29 19	869.9	-10.34	341.81
110.00	22 21 56	4817.26	32.78	203.31	194.57	79.72	23 42 14	4217.3	31.02	194.53

DIFFERENTIAL CORRECTIONS
TDE 1.9302 TRA 5.3929 TC3-1.8294 BAU .6894
RDE .0390 RRA -.9116 RC3 .1357 FAU .02232
FDE 1.8074 FRA 4.2758 FC3 -.6875 BSP 21471
BDE 1.9306 BRA 5.4694 BC3 1.8344 FSP -1610

MID-COURSE EXECUTION ACCURACY
SGT 6628.7 SGR 1022.8 SG3 447.8
RRT -.9214 RRF -.9099 RTF .9864
SGB 6707.1 R23 -.0057 R13 -.9864
SG1 6695.6 SG2 393.5 THA 171.88

ORBIT DETERMINATION ACCURACY
ST 2752.9 SR 306.5 SS 1352.5
CRT -.5421 CRS .4724 CST -.9967
LSA 3069.9 MSA 277.7 SSA 13.2
EL1 2758.0 EL2 257.0 ALF 176.52

LAUNCH DATE SEP 16 1965 FLIGHT TIME 218.00 ARRIVAL DATE APR 22 1966

HELIOCENTRIC CONIC DISTANCE 599.169
RL 150.39 LAL .00 LOL 352.92 VL 27.129 GAL 8.99 AZL 89.56 HCA 270.91 SMA 128.98 ECC .22643 INC .4414 V1 29.628
RP 108.71 LAP -.44 LOP 263.84 VP 37.587 GAP 9.50 AZP 89.99 TAL 145.37 TAP 56.28 RCA 99.78 APO 158.19 V2 34.860
RC 120.382 GL 2.15 GP 18.82 ZAL 31.07 ZAP 153.08 ETS 39.00 ZAE 117.18 ETE 170.35 ZAC 17.90 ETC 188.99 CLP-160.39
PLANETOCENTRIC CONIC
C3 30.201 VHL 5.496 DLA -12.16 RAL 323.58 RAD 6568.2 VEL 12.312 PTH 2.22 VHP 6.761 DPA -5.50 RAP 283.84 ECC 1.4970

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 50 5	1928.10	-11.75	24.10	189.86	115.95	11 22 13	1328.1	-8.16	17.26
90.00	19 39 59	5346.92	27.66	243.72	196.61	83.69	21 9 6	4746.9	26.50	235.25
100.00	12 5 13	1685.72	-12.97	5.65	189.23	117.17	12 33 19	1085.7	-9.23	358.86
100.00	21 7 33	5064.54	29.03	222.77	196.42	82.52	22 31 57	4464.5	27.69	214.22
110.00	12 59 26	1515.94	-16.19	350.94	187.40	120.52	13 24 41	915.9	-12.02	344.32
110.00	22 29 50	4807.08	32.65	202.54	195.74	79.28	23 49 57	4207.1	30.83	193.79

DIFFERENTIAL CORRECTIONS
TDE 2.0814 TRA 5.6762 TC3-1.7117 BAU .6926
RDE .0622 RRA -.8843 RC3 .1137 FAU .01926
FDE 1.7733 FRA 4.1591 FC3 -.5520 BSP 21771
BDE 2.0824 BRA 5.7446 BC3 1.7154 FSP -1508

MID-COURSE EXECUTION ACCURACY
SGT 6700.5 SGR 953.5 SG3 418.5
RRT -.9084 RRF -.8962 RTF .9862
SGB 6768.0 R23 -.0065 R13 -.9861
SG1 6756.4 SG2 395.5 THA 172.61

ORBIT DETERMINATION ACCURACY
ST 2830.3 SR 290.3 SS 1330.7
CRT -.4545 CRS .3883 CST -.9973
LSA 3128.9 MSA 274.6 SSA 13.1
EL1 2833.4 EL2 258.3 ALF 177.31

LAUNCH DATE SEP 16 1965 FLIGHT TIME 220.00 ARRIVAL DATE APR 24 1966

HELIOCENTRIC CONIC DISTANCE 604.828
RL 150.39 LAL .00 LOL 352.92 VL 27.110 GAL 9.44 AZL 89.37 HCA 274.08 SMA 128.85 ECC .23257 INC .6286 V1 29.628
RP 108.74 LAP -.63 LOP 267.00 VP 37.564 GAP 10.05 AZP 89.96 TAL 144.60 TAP 58.68 RCA 98.88 APO 158.82 V2 34.851
RC 122.731 GL 2.95 GP 17.99 ZAL 30.52 ZAP 154.79 ETS 40.50 ZAE 116.65 ETE 170.88 ZAC 19.18 ETC 185.34 CLP-162.03
PLANETOCENTRIC CONIC
C3 32.557 VHL 5.706 DLA -11.22 RAL 323.91 RAD 6568.3 VEL 12.407 PTH 2.24 VHP 7.064 DPA -6.26 RAP 285.34 ECC 1.5358

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 43 28	1978.75	-13.24	27.07	191.39	115.26	11 16 27	1378.8	-9.73	20.15
90.00	19 49 13	5334.04	27.56	242.80	197.93	83.24	21 18 7	4734.0	26.34	234.34
100.00	11 59 10	1734.52	-14.47	8.50	190.77	116.44	12 28 5	1134.5	-10.81	1.63
100.00	21 16 12	5053.50	28.93	221.96	197.74	82.11	22 40 25	4453.5	27.53	213.44
110.00	12 54 38	1560.83	-17.73	353.51	188.96	119.72	13 20 39	960.8	-13.64	346.79
110.00	22 37 13	4799.97	32.56	202.01	197.03	78.98	23 57 13	4200.0	30.70	193.28

DIFFERENTIAL CORRECTIONS
TDE 2.2396 TRA 5.9730 TC3-1.5893 BAU .6930
RDE .0846 RRA -.8600 RC3 .0946 FAU .01634
FDE 1.7411 FRA 4.0514 FC3 -.4344 BSP 22032
BDE 2.2412 BRA 6.0346 BC3 1.5921 FSP -1410

MID-COURSE EXECUTION ACCURACY
SGT 6762.8 SGR 891.1 SG3 391.2
RRT -.8942 RRF -.8814 RTF .9859
SGB 6821.2 R23 -.0070 R13 -.9859
SG1 6809.7 SG2 396.2 THA 173.26

ORBIT DETERMINATION ACCURACY
ST 2902.6 SR 277.5 SS 1309.7
CRT -.3646 CRS .3026 CST -.9978
LSA 3185.0 MSA 271.0 SSA 13.0
EL1 2904.4 EL2 258.2 ALF 177.99

LAUNCH DATE SEP 17 1965 FLIGHT TIME 70.00 ARRIVAL DATE NOV 26 1965

HELIOCENTRIC CONIC DISTANCE 126.643

RL	150.35	LAL	.00	LOL	353.90	VL	14.894	GAL	29.72	AZL	94.70	HCA	33.26	SMA	85.98	ECC	.81763	INC	4.6996	V1	29.636
RP	108.39	LAP	-2.58	LOP	27.06	VP	30.089	GAP	-53.39	AZP	93.93	TAL	172.40	TAP	205.65	RCA	15.68	APO	156.28	V2	34.964
RC	88.499	GL	-3.28	GP	-3.74	ZAL	64.90	ZAP	35.76	ETS	171.50	ZAE	132.22	ETE	178.39	ZAC	28.87	ETC	35.64	CLP	35.59

PLANETOCENTRIC CONIC

C3 343.070 VHL 18.522 DLA -25.34 RAL 291.12 RAD 6571.9 VEL 21.549 PTH 3.22 VHP 29.482 DPA -23.51 RAP 239.71 ECC 6.6461

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 7 56	1857.30	-9.60	20.00	190.92	116.77	11 38 53	1257.3	-5.94	13.24
90.00	14 55 19	1106.74	13.93	337.42	202.21	114.90	15 13 46	506.7	17.18	330.25
100.00	12 5 11	1672.43	-12.56	4.88	189.38	117.35	12 33 3	1072.4	-8.80	358.11
100.00	16 40 45	766.83	16.94	313.86	203.66	115.00	16 53 31	166.8	20.17	306.56
110.00	12 28 31	1599.21	-19.01	355.75	185.80	118.96	12 55 11	999.2	-15.00	348.93
110.00	18 33 54	5700.86	23.55	268.21	206.98	115.52	20 8 54	5100.9	26.79	260.54

DIFFERENTIAL CORRECTIONS

TDE	-.3807	TRA	-2.0346	TC3	-.1108	BAU	.5084				
RDE	-1.4493	RRA	.3235	RC3	.0040	FAU	.01105				
FDE	.1197	FRA	.7300	FC3	-.0279	BSP	1917				
BDE	1.4985	BRA	2.0602	BC3	.1109	FSP	-47				

MID-COURSE EXECUTION ACCURACY

SGT	816.8	SGR	462.0	SG3	23.6
RRT	-.0804	RRF	.0758	RTF	-.6099
SGB	938.4	R23	-.0040	R13	.6105
SG1	818.1	SG2	459.8	THA	176.19

ORBIT DETERMINATION ACCURACY

ST	240.1	SR	449.5	SS	213.1
CRT	.4247	CRS	.3752	CST	.9946
LSA	478.5	MSA	275.7	SSA	14.1
EL1	464.1	EL2	210.6	ALF	73.79

LAUNCH DATE SEP 17 1965 FLIGHT TIME 72.00 ARRIVAL DATE NOV 28 1965

HELIOCENTRIC CONIC DISTANCE 131.989

RL	150.35	LAL	.00	LOL	353.90	VL	15.700	GAL	28.32	AZL	94.12	HCA	36.43	SMA	87.38	ECC	.79221	INC	4.1240	V1	29.636
RP	108.35	LAP	-2.45	LOP	30.26	VP	30.511	GAP	-51.05	AZP	93.32	TAL	171.54	TAP	207.97	RCA	18.16	APO	156.59	V2	34.977
RC	86.263	GL	-3.21	GP	-3.82	ZAL	63.49	ZAP	34.26	ETS	171.05	ZAE	132.04	ETE	178.66	ZAC	27.65	ETC	37.85	CLP	34.07

PLANETOCENTRIC CONIC

C3 314.811 VHL 17.743 DLA -25.06 RAL 292.65 RAD 6571.8 VEL 20.883 PTH 3.18 VHP 28.427 DPA -24.02 RAP 241.45 ECC 6.1810

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 8 53	1865.31	-9.85	20.46	191.66	116.68	11 39 58	1265.3	-6.19	13.69
90.00	15 6 35	1079.43	14.71	335.79	203.29	114.47	15 24 34	479.4	17.89	328.56
100.00	12 7 12	1677.04	-12.70	5.15	190.17	117.29	12 35 9	1077.0	-8.95	358.37
100.00	16 50 57	742.93	17.62	312.42	204.67	114.54	17 3 20	142.9	20.79	305.05
110.00	12 31 52	1599.63	-19.02	355.78	186.67	118.95	12 58 32	999.6	-15.01	348.95
110.00	18 42 46	5681.15	24.13	266.96	207.88	114.98	20 17 27	5081.1	27.29	259.22

DIFFERENTIAL CORRECTIONS

TDE	-.4032	TRA	-2.0528	TC3	-.1185	BAU	.4991				
RDE	-1.4014	RRA	.3373	RC3	.0038	FAU	.01106				
FDE	.1348	FRA	.7581	FC3	-.0304	BSP	2053				
BDE	1.4583	BRA	2.0803	BC3	.1186	FSP	-52				

MID-COURSE EXECUTION ACCURACY

SGT	854.0	SGR	468.5	SG3	25.4
RRT	-.0869	RRF	.0823	RTF	-.6289
SGB	974.1	R23	-.0045	R13	.6295
SG1	855.4	SG2	465.9	THA	176.12

ORBIT DETERMINATION ACCURACY

ST	255.6	SR	454.0	SS	226.1
CRT	.4396	CRS	.4012	CST	.9955
LSA	490.5	MSA	285.9	SSA	14.4
EL1	471.8	EL2	220.9	ALF	72.04

LAUNCH DATE SEP 17 1965 FLIGHT TIME 74.00 ARRIVAL DATE NOV 30 1965

HELIOCENTRIC CONIC DISTANCE 137.462

RL	150.35	LAL	.00	LOL	353.90	VL	16.458	GAL	27.02	AZL	93.63	HCA	39.62	SMA	88.80	ECC	.76659	INC	3.6286	V1	29.636
RP	108.31	LAP	-2.31	LOP	33.46	VP	30.923	GAP	-48.84	AZP	92.80	TAL	170.68	TAP	210.29	RCA	20.73	APO	156.87	V2	34.990
RC	84.036	GL	-3.13	GP	-3.92	ZAL	62.12	ZAP	32.78	ETS	170.55	ZAE	131.93	ETE	178.96	ZAC	26.46	ETC	40.33	CLP	32.57

PLANETOCENTRIC CONIC

C3 289.032 VHL 17.001 DLA -24.76 RAL 294.12 RAD 6571.7 VEL 20.257 PTH 3.15 VHP 27.409 DPA -24.52 RAP 243.23 ECC 5.7567

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 9 28	1873.31	-10.09	20.92	192.30	116.60	11 40 42	1273.3	-6.44	14.15
90.00	15 17 44	1051.08	15.50	334.09	204.26	114.00	15 35 16	451.1	18.61	326.80
100.00	12 8 49	1681.74	-12.85	5.42	190.87	117.22	12 36 50	1081.7	-9.10	358.64
100.00	17 1 5	717.87	18.32	310.89	205.58	114.04	17 13 3	117.9	21.42	303.46
110.00	12 34 50	1600.11	-19.04	355.81	187.44	118.94	13 1 30	1000.1	-15.03	348.98
110.00	18 51 33	5660.31	24.72	265.63	208.67	114.40	20 25 54	5060.3	27.80	257.82

DIFFERENTIAL CORRECTIONS

TDE	-.4258	TRA	-2.0727	TC3	-.1267	BAU	.4897				
RDE	-1.3532	RRA	.3498	RC3	.0036	FAU	.01107				
FDE	.1504	FRA	.7868	FC3	-.0332	BSP	2177				
BDE	1.4186	BRA	2.1021	BC3	.1267	FSP	-57				

MID-COURSE EXECUTION ACCURACY

SGT	893.2	SGR	474.3	SG3	27.4
RRT	-.0937	RRF	.0892	RTF	-.6473
SGB	1011.4	R23	-.0052	R13	.6479
SG1	894.8	SG2	471.4	THA	176.06

ORBIT DETERMINATION ACCURACY

ST	272.1	SR	457.7	SS	239.8
CRT	.4533	CRS	.4251	CST	.9962
LSA	503.4	MSA	295.7	SSA	14.6
EL1	479.5	EL2	231.5	ALF	70.10

LAUNCH DATE SEP 17 1965 FLIGHT TIME 76.00 ARRIVAL DATE DEC 2 1965

HELIOCENTRIC CONIC DISTANCE 143.056

RL	150.35	LAL	.00	LOL	353.90	VL	17.172	GAL	25.81	AZL	93.20	HCA	42.80	SMA	90.25	ECC	.74092	INC	3.1954	V1	29.636
RP	108.27	LAP	-2.17	LOP	36.66	VP	31.323	GAP	-46.73	AZP	92.35	TAL	169.82	TAP	212.62	RCA	23.38	APO	157.12	V2	35.003
RC	81.818	GL	-3.03	GP	-4.02	ZAL	60.80	ZAP	31.33	ETS	170.00	ZAE	131.89	ETE	179.28	ZAC	25.32	ETC	43.09	CLP	31.10

PLANETOCENTRIC CONIC

C3 265.479 VHL 16.294 DLA -24.45 RAL 295.54 RAD 6571.5 VEL 19.667 PTH 3.12 VHP 26.425 DPA -25.02 RAP 245.05 ECC 5.3691

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 9 43	1881.19	-10.33	21.38	192.85	116.51	11 41 5	1281.2	-6.69	14.59
90.00	15 28 46	1021.73	16.30	332.31	205.13	113.48	15 45 47	421.7	19.34	324.95
100.00	12 10 3	1686.46	-13.00	5.69	191.47	117.16	12 38 9	1086.5	-9.25	358.90
100.00	17 11 7	691.70	19.04	309.27	206.37	113.49	17 22 39	91.7	22.06	301.78
110.00	12 37 25	1600.60	-19.05	355.84	188.12	118.93	13 4 6	1000.6	-15.05	349.01
110.00	19 0 14	5638.36	25.33	264.22	209.34	113.76	20 34 13	5038.4	28.32	256.32

DIFFERENTIAL CORRECTIONS

TDE	-.4462	TRA	-2.0923	TC3	-.1349	BAU	.4789				
RDE	-1.3048	RRA	.3609	RC3	.0032	FAU	.01111				
FDE	.1663	FRA	.8159	FC3	-.0362	BSP	2337				
BDE	1.3790	BRA	2.1232	BC3	.1349	FSP	-62				

MID-COURSE EXECUTION ACCURACY

SGT	933.3	SGR	479.7	SG3	29.5
RRT	-.1012	RRF	.0967	RTF	-.6650
SGB	1049.3	R23	-.0057	R13	.6657
SG1	935.0	SG2	476.3	THA	175.98

ORBIT DETERMINATION ACCURACY

ST	289.1	SR	460.7	SS	254.0
CRT	.4643	CRS	.4465	CST	.9968
LSA	516.9	MSA	304.9	SSA	14.8
EL1	487.0	EL2	242.2	ALF	68.07

LAUNCH DATE SEP 17 1965 FLIGHT TIME 78.00 ARRIVAL DATE DEC 4 1965

HELIOCENTRIC CONIC DISTANCE 148.763

RL	150.35	LAL	.00	LOL	353.90	VL	17.843	GAL	24.67	AZL	92.81	HCA	45.99	SMA	91.72	ECC	.71537	INC	2.8110	VI	29.636
RP	108.22	LAP	-2.02	LOP	39.86	VP	31.711	GAP	-44.74	AZP	91.95	TAL	168.97	TAP	214.97	RCA	26.11	APO	157.33	V2	35.016
RC	79.613	GL	-2.92	GP	-4.14	ZAL	59.52	ZAP	29.90	ETS	169.40	ZAE	131.91	ETE	179.65	ZAC	24.24	ETC	46.17	CLP	29.64

PLANETOCENTRIC CONIC

C3 243.935 VHL 15.618 DLA -24.11 RAL 296.89 RAD 6571.4 VEL 19.111 PTH 3.09 VHP 25.473 DPA -25.51 RAP 246.90 ECC 5.0145

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 9 39	1888.90	-10.57	21.82	193.31	116.42	11 41 8	1288.9	-6.93	15.03
90.00	15 39 38	991.43	17.12	330.46	205.87	112.91	15 56 9	391.4	20.07	323.03
100.00	12 10 55	1691.12	-13.14	5.96	191.98	117.09	12 39 7	1091.1	-9.41	359.17
100.00	17 21 3	664.45	19.77	307.58	207.05	112.89	17 32 7	64.4	22.70	300.01
110.00	12 39 39	1601.03	-19.07	355.86	188.71	118.92	13 6 20	1001.0	-15.06	349.03
110.00	19 8 49	5615.33	25.95	262.72	209.89	113.07	20 42 24	5015.3	28.84	254.73

DIFFERENTIAL CORRECTIONS

TDE -.4694 TRA-2.1161 TC3 -.1439 BAU .4695
RDE-1.2562 RRA .3708 RC3 .0028 FAU .01143
FDE .1832 FRA .8462 FC3 -.0395 BSP 2416
BDE 1.3410 BRA 2.1483 BC3 .1440 FSP -68

MID-COURSE EXECUTION ACCURACY

SGT 977.3 SGR 484.4 SG3 31.8
RRT -.1084 RRF .1046 RTF -.6822
SGB 1090.8 R23 -.0071 R13 .6829
SG1 979.2 SG2 480.6 THA 175.95

ORBIT DETERMINATION ACCURACY

ST 308.1 SR 463.0 SS 269.0
CRT .4762 CRS .4667 CST .9972
LSA 532.2 MSA 313.4 SSA 15.0
EL1 495.1 EL2 253.4 ALF 65.66

LAUNCH DATE SEP 17 1965 FLIGHT TIME 80.00 ARRIVAL DATE DEC 6 1965

HELIOCENTRIC CONIC DISTANCE 154.577

RL	150.35	LAL	.00	LOL	353.90	VL	18.475	GAL	23.60	AZL	92.47	HCA	49.19	SMA	93.19	ECC	.69004	INC	2.4656	VI	29.636
RP	108.18	LAP	-1.87	LOP	43.06	VP	32.085	GAP	-42.83	AZP	91.61	TAL	168.14	TAP	217.32	RCA	28.89	APO	157.50	V2	35.030
RC	77.423	GL	-2.79	GP	-4.26	ZAL	58.29	ZAP	28.50	ETS	168.72	ZAE	132.00	ETE	180.05	ZAC	23.23	ETC	49.59	CLP	28.20

PLANETOCENTRIC CONIC

C3 224.208 VHL 14.974 DLA -23.76 RAL 298.18 RAD 6571.3 VEL 18.588 PTH 3.05 VHP 24.551 DPA -26.00 RAP 248.78 ECC 4.6899

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 9 17	1896.38	-10.79	22.26	193.68	116.34	11 40 53	1296.4	-7.17	15.45
90.00	15 50 20	960.21	17.93	328.53	206.49	112.29	16 6 20	360.2	20.80	321.03
100.00	12 11 27	1695.68	-13.28	6.23	192.40	117.03	12 39 43	1095.7	-9.55	359.43
100.00	17 30 50	636.14	20.51	305.80	207.61	112.23	17 41 26	36.1	23.35	298.15
110.00	12 41 31	1601.40	-19.08	355.88	189.20	118.92	13 8 13	1001.4	-15.08	349.05
110.00	19 17 16	5591.22	26.59	261.13	210.32	112.32	20 50 27	4991.2	29.37	253.06

DIFFERENTIAL CORRECTIONS

TDE -.4983 TRA-2.1468 TC3 -.1545 BAU .4630
RDE-1.2073 RRA .3797 RC3 .0022 FAU .01113
FDE .2014 FRA .8781 FC3 -.0430 BSP 2343
BDE 1.3061 BRA 2.1801 BC3 .1545 FSP -72

MID-COURSE EXECUTION ACCURACY

SGT 1027.6 SGR 488.5 SG3 34.3
RRT -.1144 RRF .1127 RTF -.6984
SGB 1137.8 R23 -.0100 R13 .6991
SG1 1029.5 SG2 484.4 THA 176.00

ORBIT DETERMINATION ACCURACY

ST 330.2 SR 464.4 SS 285.2
CRT .4907 CRS .4861 CST .9975
LSA 550.3 MSA 321.0 SSA 15.3
EL1 504.6 EL2 264.8 ALF 62.66

LAUNCH DATE SEP 17 1965 FLIGHT TIME 82.00 ARRIVAL DATE DEC 8 1965

HELIOCENTRIC CONIC DISTANCE 160.484

RL	150.35	LAL	.00	LOL	353.90	VL	19.070	GAL	22.58	AZL	92.15	HCA	52.39	SMA	94.68	ECC	.66501	INC	2.1518	VI	29.636
RP	108.14	LAP	-1.70	LOP	46.26	VP	32.446	GAP	-41.02	AZP	91.31	TAL	167.31	TAP	219.70	RCA	31.72	APO	157.64	V2	35.043
RC	75.249	GL	-2.64	GP	-4.40	ZAL	57.11	ZAP	27.12	ETS	167.96	ZAE	132.16	ETE	180.49	ZAC	22.32	ETC	53.38	CLP	26.78

PLANETOCENTRIC CONIC

C3 206.083 VHL 14.356 DLA -23.39 RAL 299.42 RAD 6571.2 VEL 18.094 PTH 3.01 VHP 23.657 DPA -26.49 RAP 250.70 ECC 4.3916

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 8 36	1903.51	-11.01	22.67	193.95	116.25	11 40 20	1303.5	-7.39	15.86
90.00	16 0 49	928.09	18.75	326.53	206.99	111.61	16 16 18	328.1	21.52	318.95
100.00	12 11 39	1700.02	-13.42	6.48	192.72	116.96	12 39 59	1100.0	-9.70	359.67
100.00	17 40 28	606.81	21.26	303.94	208.04	111.53	17 50 35	6.8	23.99	296.21
110.00	12 43 2	1601.59	-19.09	355.89	189.59	118.91	13 9 44	1001.6	-15.08	349.06
110.00	19 25 34	5566.04	27.23	259.46	210.62	111.52	20 58 20	4966.0	29.90	251.28

DIFFERENTIAL CORRECTIONS

TDE -.4430 TRA-2.0943 TC3 -.1493 BAU .4115
RDE-1.1601 RRA .3857 RC3 .0011 FAU .01163
FDE .2096 FRA .9004 FC3 -.0489 BSP 4271
BDE 1.2418 BRA 2.1295 BC3 .1494 FSP -98

MID-COURSE EXECUTION ACCURACY

SGT 1022.0 SGR 492.4 SG3 36.7
RRT -.1435 RRF .1268 RTF -.7177
SGB 1134.5 R23 .0063 R13 .7181
SG1 1025.1 SG2 485.9 THA 174.90

ORBIT DETERMINATION ACCURACY

ST 325.7 SR 465.7 SS 294.9
CRT .4491 CRS .4885 CST .9967
LSA 548.7 MSA 329.5 SSA 15.0
EL1 499.3 EL2 271.4 ALF 64.56

LAUNCH DATE SEP 17 1965 FLIGHT TIME 84.00 ARRIVAL DATE DEC 10 1965

HELIOCENTRIC CONIC DISTANCE 166.496

RL	150.35	LAL	.00	LOL	353.90	VL	19.630	GAL	21.62	AZL	91.86	HCA	55.59	SMA	96.16	ECC	.64044	INC	1.8636	VI	29.636
RP	108.10	LAP	-1.54	LOP	49.47	VP	32.792	GAP	-39.29	AZP	91.05	TAL	166.50	TAP	222.09	RCA	34.58	APO	157.75	V2	35.056
RC	73.094	GL	-2.47	GP	-4.54	ZAL	55.97	ZAP	25.76	ETS	167.12	ZAE	132.40	ETE	180.98	ZAC	21.51	ETC	57.53	CLP	25.38

PLANETOCENTRIC CONIC

C3 189.519 VHL 13.767 DLA -22.99 RAL 300.59 RAD 6571.0 VEL 17.631 PTH 2.98 VHP 22.793 DPA -26.96 RAP 252.65 ECC 4.1190

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 7 38	1910.49	-11.22	23.08	194.15	116.17	11 39 29	1310.5	-7.61	16.25
90.00	16 11 12	895.00	19.57	324.44	207.37	110.88	16 26 7	295.0	22.24	316.78
100.00	12 11 31	1704.31	-13.55	6.73	192.95	116.90	12 39 55	1104.3	-9.83	359.91
100.00	17 50 0	5864.45	22.00	279.90	208.36	110.76	19 27 45	5264.5	24.63	272.09
110.00	12 44 13	1601.76	-19.09	355.90	189.90	118.91	13 10 55	1001.8	-15.09	349.07
110.00	19 33 47	5539.77	27.87	257.68	210.80	110.65	21 6 7	4939.8	30.42	249.41

DIFFERENTIAL CORRECTIONS

TDE -.5083 TRA-2.1639 TC3 -.1675 BAU .4245
RDE-1.1106 RRA .3932 RC3 .0003 FAU .01145
FDE .2337 FRA .9389 FC3 -.0523 BSP 3294
BDE 1.2214 BRA 2.1993 BC3 .1675 FSP -93

MID-COURSE EXECUTION ACCURACY

SGT 1102.1 SGR 495.2 SG3 39.6
RRT -.1401 RRF .1338 RTF -.7308
SGB 1208.3 R23 -.0064 R13 .7315
SG1 1104.8 SG2 489.1 THA 175.52

ORBIT DETERMINATION ACCURACY

ST 362.1 SR 465.3 SS 315.7
CRT .4876 CRS .5117 CST .9975
LSA 578.8 MSA 334.6 SSA 15.5
EL1 516.1 EL2 285.0 ALF 58.73

LAUNCH DATE SEP 17 1965 FLIGHT TIME 86.00 ARRIVAL DATE DEC 12 1965

HELIOCENTRIC CONIC DISTANCE 172.593

RL	150.35	LAL	.00	LOL	353.90	VL	20.156	GAL	20.70	AZL	91.60	HCA	58.79	SMA	97.65	ECC	.61634	INC	1.5966	V1	29.636
RP	108.06	LAP	-1.37	LOP	52.68	VP	33.124	GAP	-37.63	AZP	90.83	TAL	165.70	TAP	224.50	RCA	37.46	APO	157.83	V2	35.069
RC	70.962	GL	-2.28	GP	-4.70	ZAL	54.87	ZAP	24.42	ETS	166.15	ZAE	132.71	ETE	181.52	ZAC	20.83	ETC	62.05	CLP	23.99

PLANETOCENTRIC CONIC

C3 174.297 VHL 13.202 DLA -22.58 RAL 301.71 RAD 6570.9 VEL 17.194 PTH 2.94 VHP 21.954 DPA -27.43 RAP 254.64 ECC 3.8685

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 6 23	1917.16	-11.42	23.46	194.25	116.09	11 38 20	1317.2	-7.82	16.63
90.00	16 21 22	860.99	20.38	322.28	207.61	110.10	16 35 43	261.0	22.93	314.53
100.00	12 11 3	1708.40	-13.68	6.97	193.09	116.84	12 39 32	1108.4	-9.97	.15
100.00	17 59 23	5833.03	22.75	277.86	208.54	109.93	19 36 36	5233.0	25.26	269.96
110.00	12 45 4	1601.78	-19.09	355.91	190.11	118.91	13 11 46	1001.8	-15.09	349.07
110.00	19 41 51	5512.42	28.51	255.81	210.84	109.71	21 13 44	4912.4	30.93	247.45

DIFFERENTIAL CORRECTIONS

TDE	-.5304	TRA	-2.1908	TC3	-.1778	BAU	.4144
RDE	-1.0621	RRA	.3989	RC3	-.0009	FAU	.01153
FDE	.2530	FRA	.9731	FC3	-.0572	BSP	3342
BDE	1.1871	BRA	2.2268	BC3	.1778	FSP	-100

MID-COURSE EXECUTION ACCURACY

SGT	1154.9	SGR	497.6	SG3	42.7				
RRT	-.1493	RRF	.1445	RTF	-.7453				
SGB	1257.5	R23	-.0088	R13	.7460				
SG1	1157.8	SG2	490.8	THA	175.51				

ORBIT DETERMINATION ACCURACY

ST	385.5	SR	464.3	SS	333.4
CRT	.4956	CRS	.5254	CST	.9975
LSA	599.9	MSA	339.6	SSA	15.7
EL1	526.3	EL2	295.4	ALF	55.34

LAUNCH DATE SEP 17 1965 FLIGHT TIME 88.00 ARRIVAL DATE DEC 14 1965

HELIOCENTRIC CONIC DISTANCE 178.772

RL	150.35	LAL	.00	LOL	353.90	VL	20.652	GAL	19.82	AZL	91.35	HCA	62.00	SMA	99.12	ECC	.59278	INC	1.3468	V1	29.636
RP	108.02	LAP	-1.19	LOP	55.89	VP	33.441	GAP	-36.04	AZP	90.63	TAL	164.93	TAP	226.93	RCA	40.36	APO	157.88	V2	35.082
RC	68.856	GL	-2.07	GP	-4.88	ZAL	53.81	ZAP	23.11	ETS	165.06	ZAE	133.10	ETE	182.12	ZAC	20.30	ETC	66.91	CLP	22.62

PLANETOCENTRIC CONIC

C3 160.320 VHL 12.662 DLA -22.15 RAL 302.77 RAD 6570.7 VEL 16.782 PTH 2.90 VHP 21.141 DPA -27.89 RAP 256.65 ECC 3.6385

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 4 49	1923.59	-11.61	23.84	194.25	116.01	11 36 52	1323.6	-8.02	17.00
90.00	16 31 23	826.03	21.18	320.02	207.72	109.25	16 45 9	226.0	23.61	312.20
100.00	12 10 16	1712.34	-13.80	7.20	193.14	116.78	12 38 48	1112.3	-10.09	.37
100.00	18 8 37	5800.55	23.49	275.73	208.59	109.04	19 45 17	5200.5	25.87	267.74
110.00	12 45 34	1601.68	-19.09	355.90	190.23	118.91	13 12 15	1001.7	-15.09	349.07
110.00	19 49 48	5483.97	29.15	253.85	210.75	108.70	21 21 12	4884.0	31.42	245.38

DIFFERENTIAL CORRECTIONS

TDE	-.5466	TRA	-2.2126	TC3	-.1872	BAU	.4012
RDE	-1.0139	RRA	.4035	RC3	-.0025	FAU	.01165
FDE	.2723	FRA	1.0079	FC3	-.0629	BSP	3510
BDE	1.1518	BRA	2.2491	BC3	.1872	FSP	-109

MID-COURSE EXECUTION ACCURACY

SGT	1206.0	SGR	499.4	SG3	46.0				
RRT	-.1606	RRF	.1564	RTF	-.7594				
SGB	1305.3	R23	-.0103	R13	.7602				
SG1	1209.2	SG2	491.6	THA	175.44				

ORBIT DETERMINATION ACCURACY

ST	408.1	SR	462.6	SS	351.5
CRT	.4995	CRS	.5369	CST	.9973
LSA	621.1	MSA	343.6	SSA	15.8
EL1	536.2	EL2	305.0	ALF	52.06

LAUNCH DATE SEP 17 1965 FLIGHT TIME 90.00 ARRIVAL DATE DEC 16 1965

HELIOCENTRIC CONIC DISTANCE 185.028

RL	150.35	LAL	.00	LOL	353.90	VL	21.118	GAL	18.98	AZL	91.11	HCA	65.21	SMA	100.58	ECC	.56983	INC	1.1114	V1	29.636
RP	107.98	LAP	-1.01	LOP	59.10	VP	33.744	GAP	-34.51	AZP	90.47	TAL	164.17	TAP	229.38	RCA	43.27	APO	157.90	V2	35.095
RC	66.778	GL	-1.83	GP	-5.07	ZAL	52.80	ZAP	21.82	ETS	163.80	ZAE	133.57	ETE	182.79	ZAC	19.94	ETC	72.04	CLP	21.25

PLANETOCENTRIC CONIC

C3 147.484 VHL 12.144 DLA -21.70 RAL 303.77 RAD 6570.6 VEL 16.396 PTH 2.86 VHP 20.351 DPA -28.35 RAP 258.69 ECC 3.4272

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 2 57	1929.80	-11.80	24.20	194.17	115.93	11 35 6	1329.8	-8.21	17.35
90.00	16 41 13	790.08	21.97	317.68	207.70	108.33	16 54 23	190.1	24.27	309.77
100.00	12 9 8	1716.16	-13.91	7.42	193.10	116.73	12 37 45	1116.2	-10.22	.58
100.00	18 17 43	5767.00	24.21	273.50	208.50	108.09	19 53 50	5167.0	26.46	265.42
110.00	12 45 43	1601.50	-19.08	355.89	190.26	118.91	13 12 24	1001.5	-15.08	349.06
110.00	19 57 38	5454.41	29.78	251.77	210.51	107.62	21 28 32	4854.4	31.89	243.20

DIFFERENTIAL CORRECTIONS

TDE	-.5624	TRA	-2.2347	TC3	-.1968	BAU	.3881
RDE	-.9660	RRA	.4074	RC3	-.0043	FAU	.01179
FDE	.2923	FRA	1.0440	FC3	-.0692	BSP	3668
BDE	1.1178	BRA	2.2716	BC3	.1968	FSP	-118

MID-COURSE EXECUTION ACCURACY

SGT	1259.5	SGR	500.6	SG3	49.5				
RRT	-.1726	RRF	.1693	RTF	-.7729				
SGB	1355.4	R23	-.0121	R13	.7736				
SG1	1263.0	SG2	491.7	THA	175.37				

ORBIT DETERMINATION ACCURACY

ST	431.8	SR	459.9	SS	370.3
CRT	.5024	CRS	.5471	CST	.9970
LSA	644.0	MSA	346.6	SSA	16.0
EL1	547.4	EL2	313.7	ALF	48.58

LAUNCH DATE SEP 17 1965 FLIGHT TIME 92.00 ARRIVAL DATE DEC 18 1965

HELIOCENTRIC CONIC DISTANCE 191.356

RL	150.35	LAL	.00	LOL	353.90	VL	21.556	GAL	18.18	AZL	90.89	HCA	68.42	SMA	102.03	ECC	.54751	INC	.8877	V1	29.636
RP	107.94	LAP	-.83	LOP	62.31	VP	34.033	GAP	-33.05	AZP	90.33	TAL	163.44	TAP	231.86	RCA	46.17	APO	157.89	V2	35.108
RC	64.732	GL	-1.56	GP	-5.28	ZAL	51.84	ZAP	20.56	ETS	162.35	ZAE	134.13	ETE	183.53	ZAC	19.76	ETC	77.36	CLP	19.90

PLANETOCENTRIC CONIC

C3 135.695 VHL 11.649 DLA -21.22 RAL 304.71 RAD 6570.5 VEL 16.032 PTH 2.83 VHP 19.586 DPA -28.79 RAP 260.75 ECC 3.2332

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 0 46	1935.86	-11.98	24.55	194.01	115.85	11 33 1	1335.9	-8.40	17.70
90.00	16 50 55	753.12	22.74	315.25	207.54	107.34	17 3 28	153.1	24.90	307.24
100.00	12 7 41	1719.89	-14.03	7.64	192.97	116.67	12 36 20	1119.9	-10.34	.80
100.00	18 26 41	5732.36	24.92	271.18	208.28	107.06	20 2 13	5132.4	27.02	263.00
110.00	12 45 31	1601.28	-19.08	355.88	190.19	118.92	13 12 12	1001.3	-15.07	349.05
110.00	20 5 20	5423.73	30.39	249.59	210.13	106.47	21 35 43	4823.7	32.34	240.92

DIFFERENTIAL CORRECTIONS

TDE	-.5753	TRA	-2.2542	TC3	-.2058	BAU	.3735
RDE	-.9185	RRA	.4106	RC3	-.0065	FAU	.01197
FDE	.3129	FRA	1.0813	FC3	-.0764	BSP	3883
BDE	1.0838	BRA	2.2913	BC3	.2059	FSP	-129

MID-COURSE EXECUTION ACCURACY

SGT	1313.2	SGR	501.3	SG3	53.3				
RRT	-.1863	RRF	.1835	RTF	-.7858				
SGB	1405.6	R23	-.0136	R13	.7866				
SG1	1317.1	SG2	491.0	THA	175.27				

ORBIT DETERMINATION ACCURACY

ST	455.6	SR	456.4	SS	389.6
CRT	.5032	CRS	.5557	CST	.9966
LSA	667.7	MSA	348.7	SSA	16.1
EL1	559.1	EL2	321.4	ALF	45.10

LAUNCH DATE SEP 17 1965 FLIGHT TIME 94.00 ARRIVAL DATE DEC 20 1965

HELIOCENTRIC CONIC DISTANCE 197.749

RL	150.35	LAL	.00	LOL	353.90	VL	21.969	GAL	17.41	AZL	90.67	HCA	71.64	SMA	103.46	ECC	.52587	INC	.6734	V1	29.636
RP	107.90	LAP	-.64	LOP	65.53	VP	34.309	GAP	-31.64	AZP	90.21	TAL	162.73	TAP	234.37	RCA	49.05	APO	157.86	V2	35.120
RC	62.721	GL	-1.26	GP	-5.50	ZAL	50.92	ZAP	19.32	ETS	160.67	ZAE	134.77	ETE	184.37	ZAC	19.77	ETC	82.78	CLP	18.55

PLANETOCENTRIC CONIC

C3	124.869	VHL	11.174	DLA	-20.72	RAL	305.59	RAD	6570.3	VEL	15.691	PTH	2.79	VHP	18.843	DPA	-29.23	RAP	262.84	ECC	3.0550

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 58 15	1941.83	-12.15	24.90	193.75	115.77	11 30 37	1341.8	-8.59	18.04
90.00	17 0 27	715.12	23.49	312.71	207.24	106.29	17 12 23	115.1	25.50	304.62
100.00	12 5 52	1723.62	-14.14	7.86	192.75	116.61	12 34 35	1123.6	-10.46	1.01
100.00	18 35 32	5696.60	25.62	268.75	207.91	105.96	20 10 28	5096.6	27.56	260.48
110.00	12 44 58	1601.07	-19.07	355.86	190.04	118.92	13 11 39	1001.1	-15.07	349.03
110.00	20 12 55	5391.91	30.98	247.30	209.61	105.23	21 42 47	4791.9	32.76	238.53

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY				ORBIT DETERMINATION ACCURACY					
TDE	-.5869	TRA	-2.2729	TC3	-.2145	BAU	.3584	SGT	1368.6	SGR	501.4	SG3	57.4	ST	480.1	SR	451.9	SS	409.7
RDE	-.8714	RRA	.4132	RC3	-.0091	FAU	.01217	RRT	-.2012	RRF	.1991	RTF	-.7983	CRT	.5026	CRS	.5630	CST	.9961
FDE	.3342	FRA	1.1202	FC3	-.0844	BSP	4110	SGB	1457.5	R23	-.0152	R13	.7991	LSA	692.8	MSA	349.9	SSA	16.2
BDE	1.0506	BRA	2.3102	BC3	.2147	FSP	-141	SG1	1372.8	SG2	489.6	THA	175.17	EL1	572.0	EL2	327.9	ALF	41.57

LAUNCH DATE SEP 17 1965 FLIGHT TIME 96.00 ARRIVAL DATE DEC 22 1965

HELIOCENTRIC CONIC DISTANCE 204.203

RL	150.35	LAL	.00	LOL	353.90	VL	22.356	GAL	16.67	AZL	90.47	HCA	74.85	SMA	104.86	ECC	.50493	INC	.4670	V1	29.636
RP	107.87	LAP	-.45	LOP	68.75	VP	34.570	GAP	-30.29	AZP	90.12	TAL	162.05	TAP	236.91	RCA	51.92	APO	157.81	V2	35.132
RC	60.751	GL	-.93	GP	-5.75	ZAL	50.04	ZAP	18.12	ETS	158.71	ZAE	135.50	ETE	185.30	ZAC	19.98	ETC	88.18	CLP	17.21

PLANETOCENTRIC CONIC

C3	114.928	VHL	10.720	DLA	-20.20	RAL	306.41	RAD	6570.2	VEL	15.371	PTH	2.75	VHP	18.122	DPA	-29.67	RAP	264.95	ECC	2.8914

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 55 23	1947.82	-12.33	25.25	193.41	115.69	11 27 51	1347.8	-8.77	18.38
90.00	17 9 53	676.02	24.21	310.08	206.80	105.15	17 21 9	76.0	26.06	301.89
100.00	12 3 41	1727.41	-14.26	8.08	192.44	116.55	12 32 28	1127.4	-10.58	1.22
100.00	18 44 16	5659.71	26.28	266.21	207.41	104.78	20 18 35	5059.7	28.05	257.85
110.00	12 44 2	1600.95	-19.07	355.86	189.80	118.92	13 10 43	1000.9	-15.06	349.03
110.00	20 20 24	5358.93	31.54	244.90	208.95	103.91	21 49 43	4758.9	33.13	236.03

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY				ORBIT DETERMINATION ACCURACY					
TDE	-.6000	TRA	-2.2934	TC3	-.2239	BAU	.3445	SGT	1427.9	SGR	500.9	SG3	61.9	ST	506.5	SR	446.5	SS	430.9
RDE	-.8248	RRA	.4154	RC3	-.0121	FAU	.01238	RRT	-.2168	RRF	.2161	RTF	-.8099	CRT	.5021	CRS	.5694	CST	.9956
FDE	.3568	FRA	1.1611	FC3	-.0933	BSP	4282	SGB	1513.2	R23	-.0177	R13	.8107	LSA	720.4	MSA	349.8	SSA	16.4
BDE	1.0199	BRA	2.3307	BC3	.2242	FSP	-153	SG1	1432.5	SG2	487.4	THA	175.08	EL1	587.4	EL2	332.9	ALF	37.93

LAUNCH DATE SEP 17 1965 FLIGHT TIME 98.00 ARRIVAL DATE DEC 24 1965

HELIOCENTRIC CONIC DISTANCE 210.713

RL	150.35	LAL	.00	LOL	353.90	VL	22.721	GAL	15.96	AZL	90.27	HCA	78.07	SMA	106.24	ECC	.48470	INC	.2664	V1	29.636
RP	107.83	LAP	-.26	LOP	71.97	VP	34.819	GAP	-28.98	AZP	90.06	TAL	161.40	TAP	239.47	RCA	54.75	APO	157.74	V2	35.144
RC	58.824	GL	-.57	GP	-6.02	ZAL	49.21	ZAP	16.95	ETS	156.40	ZAE	136.32	ETE	186.35	ZAC	20.39	ETC	93.44	CLP	15.87

PLANETOCENTRIC CONIC

C3	105.803	VHL	10.286	DLA	-19.64	RAL	307.18	RAD	6570.0	VEL	15.071	PTH	2.71	VHP	17.423	DPA	-30.10	RAP	267.09	ECC	2.7412

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 52 10	1953.92	-12.51	25.61	192.98	115.61	11 24 43	1353.9	-8.96	18.73
90.00	17 19 11	635.80	24.90	307.33	206.21	103.94	17 29 46	35.8	26.57	299.06
100.00	12 1 7	1731.36	-14.38	8.31	192.04	116.49	12 29 59	1131.4	-10.71	1.45
100.00	18 52 54	5621.63	26.92	263.55	206.76	103.52	20 26 35	5021.6	28.51	255.11
110.00	12 42 44	1600.99	-19.07	355.86	189.47	118.92	13 9 25	1001.0	-15.06	349.03
110.00	20 27 47	5324.76	32.08	242.38	208.13	102.50	21 56 32	4724.8	33.46	233.42

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY				ORBIT DETERMINATION ACCURACY					
TDE	-.6101	TRA	-2.3111	TC3	-.2323	BAU	.3293	SGT	1487.3	SGR	500.1	SG3	66.8	ST	532.8	SR	440.0	SS	452.8
RDE	-.7787	RRA	.4172	RC3	-.0157	FAU	.01264	RRT	-.2345	RRF	.2348	RTF	-.8210	CRT	.4994	CRS	.5743	CST	.9949
FDE	.3801	FRA	1.2037	FC3	-.1034	BSP	4505	SGB	1569.2	R23	-.0200	R13	.8219	LSA	748.6	MSA	349.0	SSA	16.5
BDE	.9892	BRA	2.3484	BC3	.2328	FSP	-167	SG1	1492.5	SG2	484.4	THA	174.96	EL1	603.5	EL2	336.6	ALF	34.46

LAUNCH DATE SEP 17 1965 FLIGHT TIME 100.00 ARRIVAL DATE DEC 26 1965

HELIOCENTRIC CONIC DISTANCE 217.273

RL	150.35	LAL	.00	LOL	353.90	VL	23.063	GAL	15.28	AZL	90.07	HCA	81.29	SMA	107.59	ECC	.46520	INC	.0699	V1	29.636
RP	107.80	LAP	-.07	LOP	75.19	VP	35.055	GAP	-27.72	AZP	90.01	TAL	160.77	TAP	242.07	RCA	57.54	APO	157.64	V2	35.155
RC	56.947	GL	-.16	GP	-6.32	ZAL	48.42	ZAP	15.83	ETS	153.68	ZAE	137.24	ETE	187.53	ZAC	20.99	ETC	98.47	CLP	14.54

PLANETOCENTRIC CONIC

C3	97.430	VHL	9.871	DLA	-19.06	RAL	307.88	RAD	6569.9	VEL	14.791	PTH	2.67	VHP	16.745	DPA	-30.53	RAP	269.24	ECC	2.6034

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 48 33	1960.26	-12.70	25.98	192.48	115.52	11 21 13	1360.3	-9.16	19.09
90.00	17 28 23	5882.45	25.55	282.38	205.49	102.65	19 6 25	5282.5	27.03	274.03
100.00	11 58 10	1735.59	-14.51	8.56	191.57	116.43	12 27 6	1135.6	-10.84	1.69
100.00	19 1 27	5582.35	27.51	260.79	205.98	102.18	20 34 29	4982.3	28.91	252.26
110.00	12 41 1	1601.32	-19.08	355.88	189.07	118.92	13 7 42	1001.3	-15.07	349.05
110.00	20 35 5	5289.39	32.57	239.73	207.17	101.01	22 3 15	4689.4	33.74	230.70

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY				ORBIT DETERMINATION ACCURACY					
TDE	-.6192	TRA	-2.3277	TC3	-.2401	BAU	.3138	SGT	1548.3	SGR	498.8	SG3	72.0	ST	559.7	SR	432.5	SS	475.6
RDE	-.7331	RRA	.4188	RC3	-.0199	FAU	.01292	RRT	-.2539	RRF	.2555	RTF	-.8316	CRT	.4952	CRS	.5778	CST	.9941
FDE	.4045	FRA	1.2484	FC3	-.1148	BSP	4739	SGB	1626.7	R23	-.0226	R13	.8326	LSA	778.3	MSA	347.3	SSA	16.6
BDE	.9596	BRA	2.3651	BC3	.2409	FSP	-182	SG1	1554.1	SG2	480.7	THA	174.83	EL1	621.0	EL2	338.7	ALF	31.11

LAUNCH DATE SEP 17 1965 FLIGHT TIME 102.00 ARRIVAL DATE DEC 28 1965

HELIOCENTRIC CONIC DISTANCE 223,879

RL	150.35	LAL	.00	LOL	353.90	VL	23.385	GAL	14.63	AZL	89.88	HCA	84.52	SMA	108.91	ECC	.44645	INC	.1211	VI	29.636
RP	107.76	LAP	.12	LOP	78.41	VP	35.278	GAP	-26.51	AZP	89.99	TAL	160.18	TAP	244.70	RCA	60.29	APO	157.53	V2	35.166
RC	55.125	GL	.29	GP	-6.65	ZAL	47.69	ZAP	14.76	ETS	150.45	ZAE	138.25	ETE	188.87	ZAC	21.77	ETC	103.18	CLP	13.21

PLANETOCENTRIC CONIC

C3	89.751	VHL	9.474	DLA	-18.44	RAL	308.52	RAD	6569.8	VEL	14.529	PTH	2.64	VHP	16.088	DPA	-30.96	RAP	271.41	ECC	2.4771

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 44 31	1966.98	-12.89	26.38	191.89	115.43	11 17 18	1367.0	-9.36	19.48
90.00	17 37 31	5839.85	26.15	279.40	204.63	101.28	19 14 51	5239.8	27.44	270.97
100.00	11 54 47	1740.24	-14.65	8.84	191.02	116.35	12 23 47	1140.2	-10.99	1.96
100.00	19 9 56	5541.82	28.06	257.90	205.04	100.75	20 42 18	4941.8	29.26	249.30
110.00	12 38 54	1602.04	-19.10	355.92	188.58	118.90	13 5 36	1002.0	-15.10	349.09
110.00	20 42 19	5252.77	33.01	236.97	206.07	99.43	22 9 52	4652.8	33.96	227.86

DIFFERENTIAL CORRECTIONS

TDE	-.6272	TRA	-2.3432	TC3	-.2472	BAU	.2982												
RDE	-.6881	RRA	.4204	RC3	-.0248	FAU	.01324												
FDE	.4301	FRA	1.2955	FC3	-.1277	BSP	4981												
BDE	.9311	BRA	2.3806	BC3	.2485	FSP	-198												

MID-COURSE EXECUTION ACCURACY

SGT	1610.9	SGR	497.2	SG3	77.7														
RRT	-.2753	RRF	.2784	RTF	-.8418														
SGB	1685.8	R23	-.0255	R13	.8428														
SG1	1617.2	SG2	476.1	THA	174.68														

ORBIT DETERMINATION ACCURACY

ST	587.3	SR	423.9	SS	499.5														
CRT	.4895	CRS	.5799	CST	.9933														
LSA	809.3	MSA	344.6	SSA	16.7														
EL1	639.9	EL2	339.2	ALF	27.93														

LAUNCH DATE SEP 17 1965 FLIGHT TIME 104.00 ARRIVAL DATE DEC 30 1965

HELIOCENTRIC CONIC DISTANCE 230,526

RL	150.35	LAL	.00	LOL	353.90	VL	23.686	GAL	14.00	AZL	89.69	HCA	87.74	SMA	110.19	ECC	.42844	INC	.3120	VI	29.636
RP	107.73	LAP	.31	LOP	81.64	VP	35.489	GAP	-25.34	AZP	89.99	TAL	159.62	TAP	247.36	RCA	62.98	APO	157.41	V2	35.176
RC	53.365	GL	.79	GP	-7.01	ZAL	47.00	ZAP	13.76	ETS	146.62	ZAE	139.35	ETE	190.40	ZAC	22.71	ETC	107.52	CLP	11.88

PLANETOCENTRIC CONIC

C3	82.714	VHL	9.095	DLA	-17.79	RAL	309.09	RAD	6569.6	VEL	14.285	PTH	2.60	VHP	15.451	DPA	-31.40	RAP	273.60	ECC	2.3613

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 40 3	1974.25	-13.11	26.81	191.23	115.33	11 12 58	1374.2	-9.59	19.90
90.00	17 46 35	5795.97	26.69	276.31	203.62	99.82	19 23 11	5196.0	27.78	267.81
100.00	11 50 58	1745.46	-14.80	9.14	190.39	116.27	12 20 3	1145.5	-11.16	2.25
100.00	19 18 22	5499.99	28.55	254.89	203.97	99.24	20 50 2	4900.0	29.54	246.22
110.00	12 36 20	1603.32	-19.14	356.00	188.02	118.88	13 3 3	1003.3	-15.14	349.16
110.00	20 49 29	5214.89	33.39	234.08	204.82	97.76	22 16 24	4614.9	34.11	224.91

DIFFERENTIAL CORRECTIONS

TDE	-.6347	TRA	-2.3579	TC3	-.2538	BAU	.2827												
RDE	-.6436	RRA	.4221	RC3	-.0305	FAU	.01358												
FDE	.4574	FRA	1.3453	FC3	-.1422	BSP	5215												
BDE	.9039	BRA	2.3954	BC3	.2557	FSP	-216												

MID-COURSE EXECUTION ACCURACY

SGT	1675.3	SGR	495.4	SG3	83.9														
RRT	-.2987	RRF	.3037	RTF	-.8513														
SGB	1747.0	R23	-.0289	R13	.8524														
SG1	1682.4	SG2	470.8	THA	174.52														

ORBIT DETERMINATION ACCURACY

ST	615.7	SR	414.0	SS	524.5														
CRT	.4823	CRS	.5806	CST	.9923														
LSA	842.0	MSA	341.1	SSA	16.8														
EL1	660.5	EL2	338.1	ALF	24.91														

LAUNCH DATE SEP 17 1965 FLIGHT TIME 106.00 ARRIVAL DATE JAN 1 1966

HELIOCENTRIC CONIC DISTANCE 237,210

RL	150.35	LAL	.00	LOL	353.90	VL	23.969	GAL	13.40	AZL	89.50	HCA	90.97	SMA	111.44	ECC	.41117	INC	.5020	VI	29.636
RP	107.70	LAP	.50	LOP	84.87	VP	35.688	GAP	-24.21	AZP	90.01	TAL	159.09	TAP	250.06	RCA	65.62	APO	157.26	V2	35.186
RC	51.675	GL	1.34	GP	-7.40	ZAL	46.35	ZAP	12.86	ETS	142.07	ZAE	140.54	ETE	192.16	ZAC	23.81	ETC	111.48	CLP	10.54

PLANETOCENTRIC CONIC

C3	76.271	VHL	8.733	DLA	-17.09	RAL	309.61	RAD	6569.5	VEL	14.058	PTH	2.56	VHP	14.834	DPA	-31.84	RAP	275.80	ECC	2.2552

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 35 7	1982.26	-13.34	27.28	190.50	115.21	11 8 10	1382.3	-9.83	20.36
90.00	17 55 38	5750.76	27.18	273.09	202.48	°98.27	19 31 28	5150.8	28.04	264.53
100.00	11 46 39	1751.43	-14.98	9.50	189.68	116.17	12 15 51	1151.4	-11.35	2.59
100.00	19 26 46	5456.82	28.99	251.75	202.77	97.65	20 57 43	4856.8	29.74	243.03
110.00	12 33 18	1605.30	-19.21	356.11	187.38	118.83	13 0 3	1005.3	-15.21	349.27
110.00	20 56 37	5175.71	33.71	231.07	203.43	96.01	22 22 53	4575.7	34.18	221.85

DIFFERENTIAL CORRECTIONS

TDE	-.6412	TRA	-2.3715	TC3	-.2592	BAU	.2670												
RDE	-.5997	RRA	.4242	RC3	-.0370	FAU	.01397												
FDE	.4862	FRA	1.3980	FC3	-.1586	BSP	5462												
BDE	.8779	BRA	2.4091	BC3	.2619	FSP	-236												

MID-COURSE EXECUTION ACCURACY

SGT	1741.1	SGR	493.7	SG3	90.6														
RRT	-.3248	RRF	.3318	RTF	-.8604														
SGB	1809.7	R23	-.0327	R13	.8616														
SG1	1749.0	SG2	464.8	THA	174.34														

ORBIT DETERMINATION ACCURACY

ST	644.7	SR	403.0	SS	550.8														
CRT	.4730	CRS	.5793	CST	.9913														
LSA	876.1	MSA	336.8	SSA	16.9														
EL1	682.2	EL2	335.5	ALF	22.07														

LAUNCH DATE SEP 17 1965 FLIGHT TIME 108.00 ARRIVAL DATE JAN 3 1966

HELIOCENTRIC CONIC DISTANCE 243,925

RL	150.35	LAL	.00	LOL	353.90	VL	24.234	GAL	12.83	AZL	89.31	HCA	94.20	SMA	112.65	ECC	.39465	INC	.6924	VI	29.636
RP	107.67	LAP	.69	LOP	88.10	VP	35.876	GAP	-23.11	AZP	90.05	TAL	158.60	TAP	252.80	RCA	68.19	APO	157.11	V2	35.196
RC	50.062	GL	1.95	GP	-7.84	ZAL	45.76	ZAP	12.07	ETS	136.70	ZAE	141.82	ETE	194.17	ZAC	25.04	ETC	115.04	CLP	9.21

PLANETOCENTRIC CONIC

C3	70.377	VHL	8.389	DLA	-16.34	RAL	310.06	RAD	6569.4	VEL	13.847	PTH	2.53	VHP	14.236	DPA	-32.30	RAP	278.01	ECC	2.1582

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 29 41	1991.22	-13.60	27.81	189.70	115.08	11 2 52	1391.2	-10.11	20.87
90.00	18 4 40	5704.17	27.59	269.74	201.20	96.64	19 39 44	5104.2	28.22	261.13
100.00	11 41 51	1758.36	-15.19	9.91	188.92	116.06	12 11 9	1158.4	-11.57	2.99
100.00	19 35 11	5412.27	29.35	248.49	201.42	95.97	21 5 23	4812.3	29.86	239.72
110.00	12 29 47	1608.18	-19.30	356.28	186.68	118.77	12 56 35	1008.2	-15.32	349.44
110.00	21 3 44	5135.19	33.96	227.93	201.90	94.16	22 29 19	4535.2	34.16	218.69

DIFFERENTIAL CORRECTIONS

TDE	-.6470	TRA	-2.3840	TC3	-.2637	BAU	.2516												
RDE	-.5562	RRA	.4268	RC3	-.0444	FAU	.01439												
FDE	.5170	FRA	1.4539	FC3	-.1770	BSP	5713												
BDE	.8532	BRA	2.4219	BC3	.2674	FSP	-258												

MID-COURSE EXECUTION ACCURACY

SGT	1808.3	SGR	492.1	SG3	97.9														
RRT	-.3536	RRF	.3630	RTF	-.8690														
SGB	1874.0	R23	-.0371	R13	.8703														
SG1	1817.2	SG2	458.0	THA	174.13														

ORBIT DETERMINATION ACCURACY

ST	674.2	SR	390.7	SS	578.4														
CRT	.4613	CRS	.5760	CST	.9902														
LSA	911.8	MSA	331.6	SSA	17.0														
EL1	705.2	EL2	331.4	ALF	19.41														

LAUNCH DATE SEP 17 1965 FLIGHT TIME 110.00 ARRIVAL DATE JAN 5 1966

HELIOCENTRIC CONIC DISTANCE 250.668

RL	150.35	LAL	.00	LOL	353.90	VL	24.483	GAL	12.28	AZL	89.12	HCA	97.43	SMA	113.82	ECC	.37887	INC	.8844
RP	107.64	LAP	.88	LOP	91.33	VP	36.053	GAP	-22.06	AZP	90.11	TAL	158.14	TAP	255.57	RCA	70.70	APO	156.95
RC	48.537	GL	2.63	GP	-8.33	ZAL	45.23	ZAP	11.43	ETS	130.45	ZAE	143.17	ETE	196.51	ZAC	26.40	ETC	118.22

V1	29.636																		
V2	35.204																		
CLP	7.86																		

PLANETOCENTRIC CONIC

C3	64.994	VHL	8.062	DLA	-15.55	RAL	310.44	RAD	6569.2	VEL	13.651	PTH	2.49	VHP	13.658	DPA	-32.77	RAP	280.24

ECC	2.0696																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 23 41	2001.37	-13.89	28.41	188.85	114.93	10 57 2	1401.4	-10.42	21.46
90.00	18 13 43	5656.12	27.92	266.26	199.80	94.93	19 47 59	5056.1	28.31	257.62
100.00	11 36 29	1766.47	-15.43	10.39	188.09	115.92	12 5 56	1166.5	-11.82	3.46
100.00	19 43 36	5366.25	29.62	245.10	199.95	94.20	21 13 2	4766.3	29.89	236.30
110.00	12 25 44	1612.21	-19.43	356.52	185.92	118.69	12 52 36	1012.2	-15.46	349.66
110.00	21 10 51	5093.28	34.12	224.66	200.25	92.24	22 35 44	4493.3	34.05	215.42

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-.6523	TRA	-2.3956	TC3	-.2667	BAU	.2363	SGT	1876.9	SGR	491.0	SG3	105.9	ST	704.4	SR	376.9	SS	607.5
RDE	-.5131	RRA	.4303	RC3	-.0530	FAU	.01486	RRT	-.3853	RRF	.3975	RTF	-.8771	CRT	.4468	CRS	.5701	CST	.9890
FDE	.5500	FRA	1.5135	FC3	-.1979	BSP	5959	SGB	1940.1	R23	-.0421	R13	.8785	LSA	949.2	MSA	325.6	SSA	17.0
BDE	.8299	BRA	2.4339	BC3	.2719	FSP	-281	SGI	1887.0	SG2	450.6	THA	173.89	ELI	729.5	EL2	325.6	ALF	16.91

LAUNCH DATE SEP 17 1965 FLIGHT TIME 112.00 ARRIVAL DATE JAN 7 1966

HELIOCENTRIC CONIC DISTANCE 257.434

RL	150.35	LAL	.00	LOL	353.90	VL	24.716	GAL	11.75	AZL	88.92	HCA	100.67	SMA	114.95	ECC	.36381	INC	1.0795
RP	107.62	LAP	1.06	LOP	94.57	VP	36.220	GAP	-21.03	AZP	90.20	TAL	157.72	TAP	258.38	RCA	73.13	APO	156.77
RC	47.108	GL	3.37	GP	-8.87	ZAL	44.75	ZAP	10.98	ETS	123.36	ZAE	144.58	ETE	199.21	ZAC	27.86	ETC	121.02

V1	29.636																		
V2	35.213																		
CLP	6.51																		

PLANETOCENTRIC CONIC

C3	60.083	VHL	7.751	DLA	-14.69	RAL	310.76	RAD	6569.1	VEL	13.470	PTH	2.46	VHP	13.098	DPA	-33.26	RAP	282.48

ECC	1.9888																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 17 6	2012.98	-14.22	29.10	187.93	114.75	10 50 39	1413.0	-10.77	22.13
90.00	18 22 50	5606.52	28.16	262.65	198.26	93.14	19 56 17	5006.5	28.29	253.99
100.00	11 30 32	1776.02	-15.72	10.95	187.20	115.76	12 0 8	1176.0	-12.12	4.01
100.00	19 52 5	5318.71	29.81	241.57	198.35	92.36	21 20 44	4718.7	29.82	232.77
110.00	12 21 8	1617.58	-19.61	356.84	185.11	118.58	12 48 5	1017.6	-15.64	349.97
110.00	21 17 59	5049.92	34.18	221.28	198.47	90.24	22 42 9	4449.9	33.84	212.05

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-.6573	TRA	-2.4060	TC3	-.2683	BAU	.2213	SGT	1946.6	SGR	490.7	SG3	114.5	ST	735.2	SR	361.7	SS	638.4
RDE	-.4703	RRA	.4348	RC3	-.0628	FAU	.01536	RRT	-.4203	RRF	.4355	RTF	-.8848	CRT	.4287	CRS	.5609	CST	.9877
FDE	.5857	FRA	1.5770	FC3	-.2213	BSP	6211	SGB	2007.5	R23	-.0478	R13	.8863	LSA	988.4	MSA	318.8	SSA	17.1
BDE	.8083	BRA	2.4450	BC3	.2755	FSP	-307	SGI	1958.1	SG2	442.6	THA	173.63	ELI	755.0	EL2	318.2	ALF	14.55

LAUNCH DATE SEP 17 1965 FLIGHT TIME 114.00 ARRIVAL DATE JAN 9 1966

HELIOCENTRIC CONIC DISTANCE 264.220

RL	150.35	LAL	.00	LOL	353.90	VL	24.934	GAL	11.24	AZL	88.72	HCA	103.90	SMA	116.04	ECC	.34948	INC	1.2787
RP	107.60	LAP	1.24	LOP	97.80	VP	36.376	GAP	-20.04	AZP	90.31	TAL	157.33	TAP	261.23	RCA	75.48	APO	156.59
RC	45.785	GL	4.20	GP	-9.47	ZAL	44.34	ZAP	10.77	ETS	115.57	ZAE	146.01	ETE	202.36	ZAC	29.42	ETC	123.49

V1	29.636																		
V2	35.220																		
CLP	5.14																		

PLANETOCENTRIC CONIC

C3	55.613	VHL	7.457	DLA	-13.77	RAL	311.01	RAD	6569.0	VEL	13.303	PTH	2.43	VHP	12.558	DPA	-33.79	RAP	284.73

ECC	1.9152																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 9 53	2026.34	-14.60	29.90	186.98	114.53	10 43 39	1426.3	-11.17	22.90
90.00	18 32 3	5555.30	28.29	258.91	196.62	91.26	20 4 38	4955.3	28.17	250.25
100.00	11 23 58	1787.31	-16.05	11.63	186.27	115.56	11 53 45	1187.3	-12.48	4.66
100.00	20 0 39	5269.56	29.89	237.92	196.64	90.44	21 28 28	4669.6	29.63	229.13
110.00	12 15 55	1624.57	-19.84	357.25	184.25	118.43	12 43 0	1024.6	-15.89	350.36
110.00	21 25 11	5005.06	34.14	217.78	196.58	88.16	22 48 36	4405.1	33.51	208.59

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-.6619	TRA	-2.4155	TC3	-.2680	BAU	.2067	SGT	2017.3	SGR	491.7	SG3	124.0	ST	766.4	SR	344.9	SS	671.1
RDE	-.4277	RRA	.4407	RC3	-.0740	FAU	.01591	RRT	-.4587	RRF	.4773	RTF	-.8921	CRT	.4056	CRS	.5473	CST	.9864
FDE	.6243	FRA	1.6450	FC3	-.2477	BSP	6458	SGB	2076.3	R23	-.0543	R13	.8937	LSA	1029.3	MSA	311.4	SSA	17.2
BDE	.7881	BRA	2.4554	BC3	.2780	FSP	-335	SGI	2030.5	SG2	434.0	THA	173.31	ELI	781.5	EL2	309.2	ALF	12.30

LAUNCH DATE SEP 17 1965 FLIGHT TIME 116.00 ARRIVAL DATE JAN 11 1966

HELIOCENTRIC CONIC DISTANCE 271.022

RL	150.35	LAL	.00	LOL	353.90	VL	25.137	GAL	10.76	AZL	88.52	HCA	107.14	SMA	117.08	ECC	.33586	INC	1.4838
RP	107.57	LAP	1.42	LOP	101.04	VP	36.523	GAP	-19.09	AZP	90.44	TAL	156.99	TAP	264.12	RCA	77.76	APO	156.40
RC	44.580	GL	5.11	GP	-10.15	ZAL	43.99	ZAP	10.81	ETS	107.42	ZAE	147.43	ETE	206.04	ZAC	31.08	ETC	125.64

V1	29.636																		
V2	35.227																		
CLP	3.76																		

PLANETOCENTRIC CONIC

C3	51.552	VHL	7.180	DLA	-12.78	RAL	311.19	RAD	6568.9	VEL	13.150	PTH	2.40	VHP	12.037	DPA	-34.36	RAP	286.98

ECC	1.8484																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 1 57	2041.78	-15.04	30.83	185.98	114.28	10 35 59	1441.8	-11.63	23.80
90.00	18 41 23	5502.34	28.31	255.04	194.86	89.32	20 13 6	4902.3	27.92	246.40
100.00	11 16 42	1800.65	-16.44	12.43	185.31	115.32	11 46 42	1200.6	-12.89	5.43
100.00	20 9 20	5218.71	29.86	234.14	194.83	88.45	21 36 19	4618.7	29.32	225.38
110.00	12 10 4	1633.50	-20.13	357.79	183.35	118.23	12 37 17	1033.5	-16.20	350.87
110.00	21 32 27	4958.62	33.98	214.16	194.60	86.03	22 55 6	4358.6	33.06	205.04

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-.6663	TRA	-2.4237	TC3	-.2656	BAU	.1926	SGT	2088.4	SGR	494.5	SG3	134.3	ST	798.0	SR	326.4	SS	705.9
RDE	-.3851	RRA	.4485	RC3	-.0867	FAU	.01651	RRT	-.5005	RRF	.5227	RTF	-.8989	CRT	.3760	CRS	.5278	CST	.9849
FDE	.6664	FRA	1.7177	FC3	-.2772	BSP	6717	SGB	2146.1	R23	-.0617	R13	.9007	LSA	1072.1	MSA	303.3	SSA	17.2
BDE	.7696	BRA	2.4648	BC3	.2794	FSP	-365	SGI	2103.6	SG2	425.0	THA	172.95	ELI	808.9	EL2	298.4	ALF	10.14

LAUNCH DATE SEP 17 1965 FLIGHT TIME 118.00 ARRIVAL DATE JAN 13 1966

HELIOCENTRIC CONIC DISTANCE 277.836

RL 150.35 LAL .00 LOL 353.90 VL 25.327 GAL 10.30 AZL 88.30 HCA 110.37 SMA 118.08 ECC .32292 INC 1.6962 V1 29.636
RP 107.55 LAP 1.59 LOP 104.28 VP 36.660 GAP -18.16 AZP 90.59 TAL 156.68 TAP 267.05 RCA 79.95 APO 156.21 V2 35.234
RC 43.503 GL 6.12 GP -10.90 ZAL 43.71 ZAP 11.15 ETS 99.32 ZAE 148.79 ETE 210.31 ZAC 32.82 ETC 127.49 CLP 2.37

PLANETOCENTRIC CONIC

C3 47.875 VHL 6.919 DLA -11.70 RAL 311.29 RAD 6568.8 VEL 13.009 PTH 2.37 VHP 11.535 DPA -34.97 RAP 289.25 ECC 1.7879

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 53 16	2059.69	-15.53	31.91	184.96	113.98	10 27 36	1459.7	-12.16	24.85
90.00	18 50 55	5447.52	28.20	251.03	193.02	87.32	20 21 42	4847.5	27.53	242.43
100.00	11 8 41	1816.40	-16.90	13.37	184.31	115.03	11 38 57	1216.4	-13.38	6.34
100.00	20 18 11	5166.04	29.69	230.24	192.92	86.40	21 44 17	4566.0	28.88	221.53
110.00	12 3 30	1644.70	-20.48	358.46	182.42	117.98	12 30 55	1044.7	-16.58	351.51
110.00	21 39 51	4910.51	33.69	210.43	192.52	83.84	23 1 41	4310.5	32.47	201.41

DIFFERENTIAL CORRECTIONS

TDE -.6709 TRA-2.4309 TC3 -.2609 BAU .1791
RDE -.3422 RRA .4584 RC3 -.1010 FAU .01715
FDE .7125 FRA 1.7957 FC3 -.3102 BSP 6968
BDE .7531 BRA 2.4738 BC3 .2798 FSP -399

MID-COURSE EXECUTION ACCURACY

SGT 2159.8 SGR 500.1 SG3 145.6
RRT -.5453 RRF .5715 RTF -.9054
SGB 2217.0 R23 -.0701 R13 .9074
SG1 2177.7 SG2 415.8 THA 172.53

ORBIT DETERMINATION ACCURACY

ST 830.1 SR 306.3 SS 743.0
CRT .3372 CRS .4998 CST .9834
LSA 1117.1 MSA 294.6 SSA 17.2
EL1 837.4 EL2 285.9 ALF 8.03

LAUNCH DATE SEP 17 1965 FLIGHT TIME 120.00 ARRIVAL DATE JAN 15 1966

HELIOCENTRIC CONIC DISTANCE 284.859

RL 150.35 LAL .00 LOL 353.90 VL 25.505 GAL 9.86 AZL 88.08 HCA 113.61 SMA 119.03 ECC .31067 INC 1.9177 V1 29.636
RP 107.54 LAP 1.76 LOP 107.52 VP 36.788 GAP -17.26 AZP 90.77 TAL 156.40 TAP 270.02 RCA 82.05 APO 156.02 V2 35.239
RC 42.563 GL 7.24 GP -11.75 ZAL 43.51 ZAP 11.79 ETS 91.70 ZAE 150.02 ETE 215.24 ZAC 34.64 ETC 129.08 CLP .95

PLANETOCENTRIC CONIC

C3 44.558 VHL 6.675 DLA -10.54 RAL 311.32 RAD 6568.7 VEL 12.881 PTH 2.35 VHP 11.052 DPA -35.66 RAP 291.54 ECC 1.7333

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 43 45	2080.49	-16.11	33.17	183.92	113.61	10 18 25	1480.5	-12.78	26.07
90.00	19 0 40	5390.69	27.95	246.89	191.09	85.26	20 30 31	4790.7	27.00	238.36
100.00	10 59 51	1834.98	-17.43	14.50	183.30	114.68	11 30 26	1235.0	-13.95	7.43
100.00	20 27 15	5111.42	29.39	226.20	190.94	84.29	21 52 27	4511.4	28.29	217.57
110.00	11 56 11	1658.56	-20.93	359.29	181.48	117.67	12 23 50	1058.6	-17.06	352.30
110.00	21 47 24	4860.61	33.26	206.60	190.38	81.61	23 8 25	4260.6	31.74	197.70

DIFFERENTIAL CORRECTIONS

TDE -.6772 TRA-2.4392 TC3 -.2721 BAU .1766
RDE -.2986 RRA .4711 RC3 -.1175 FAU .01784
FDE .7635 FRA 1.8795 FC3 -.3466 BSP 7207
BDE .7401 BRA 2.4843 BC3 .2964 FSP -435

MID-COURSE EXECUTION ACCURACY

SGT 2237.2 SGR 509.4 SG3 157.8
RRT -.5879 RRF .6229 RTF -.9073
SGB 2294.4 R23 -.0879 R13 .9097
SG1 2257.8 SG2 408.3 THA 172.12

ORBIT DETERMINATION ACCURACY

ST 863.8 SR 284.5 SS 782.8
CRT .2857 CRS .4595 CST .9819
LSA 1165.4 MSA 285.3 SSA 17.7
EL1 868.0 EL2 271.3 ALF 5.96

LAUNCH DATE SEP 17 1965 FLIGHT TIME 122.00 ARRIVAL DATE JAN 17 1966

HELIOCENTRIC CONIC DISTANCE 291.488

RL 150.35 LAL .00 LOL 353.90 VL 25.670 GAL 9.44 AZL 87.85 HCA 116.85 SMA 119.95 ECC .29909 INC 2.1506 V1 29.636
RP 107.52 LAP 1.92 LOP 110.76 VP 36.908 GAP -16.39 AZP 90.97 TAL 156.17 TAP 273.02 RCA 84.07 APO 155.82 V2 35.244
RC 41.769 GL 8.47 GP -12.71 ZAL 43.40 ZAP 12.72 ETS 84.89 ZAE 151.05 ETE 220.88 ZAC 36.54 ETC 130.42 CLP -.49

PLANETOCENTRIC CONIC

C3 41.579 VHL 6.448 DLA -9.27 RAL 311.27 RAD 6568.6 VEL 12.765 PTH 2.32 VHP 10.589 DPA -36.42 RAP 293.84 ECC 1.6843

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 33 19	2104.64	-16.76	34.64	182.87	113.16	10 8 23	1504.6	-13.48	27.50
90.00	19 10 43	5331.68	27.54	242.62	189.09	83.15	20 39 35	4731.7	26.31	234.17
100.00	10 50 7	1856.85	-18.04	15.83	182.28	114.24	11 21 4	1256.9	-14.62	8.71
100.00	20 36 36	5054.69	28.94	222.05	188.89	82.15	22 0 51	4454.7	27.55	213.52
110.00	11 48 2	1675.49	-21.46	.32	180.53	117.27	12 15 58	1075.5	-17.63	353.28
110.00	21 55 10	4808.82	32.68	202.67	188.18	79.36	23 15 19	4208.8	30.86	193.92

DIFFERENTIAL CORRECTIONS

TDE -.6815 TRA-2.4428 TC3 -.2439 BAU .1551
RDE -.2540 RRA .4872 RC3 -.1355 FAU .01857
FDE .8198 FRA 1.9691 FC3 -.3866 BSP 7481
BDE .7273 BRA 2.4909 BC3 .2790 FSP -475

MID-COURSE EXECUTION ACCURACY

SGT 2302.7 SGR 523.4 SG3 171.1
RRT -.6415 RRF .6757 RTF -.9173
SGB 2361.4 R23 -.0902 R13 .9199
SG1 2327.8 SG2 397.2 THA 171.45

ORBIT DETERMINATION ACCURACY

ST 895.6 SR 261.3 SS 825.3
CRT .2133 CRS .4003 CST .9802
LSA 1214.5 MSA 276.0 SSA 17.2
EL1 897.5 EL2 254.8 ALF 3.87

LAUNCH DATE SEP 17 1965 FLIGHT TIME 124.00 ARRIVAL DATE JAN 19 1966

HELIOCENTRIC CONIC DISTANCE 298.319

RL 150.35 LAL .00 LOL 353.90 VL 25.824 GAL 9.05 AZL 87.60 HCA 120.09 SMA 120.81 ECC .28815 INC 2.3973 V1 29.636
RP 107.51 LAP 2.07 LOP 114.01 VP 37.019 GAP -15.54 AZP 91.20 TAL 155.97 TAP 276.06 RCA 86.00 APO 155.62 V2 35.249
RC 41.131 GL 9.85 GP -13.80 ZAL 43.40 ZAP 13.93 ETS 79.02 ZAE 151.76 ETE 227.17 ZAC 38.53 ETC 131.52 CLP -1.95

PLANETOCENTRIC CONIC

C3 38.923 VHL 6.239 DLA -7.88 RAL 311.14 RAD 6568.5 VEL 12.661 PTH 2.30 VHP 10.147 DPA -37.28 RAP 296.16 ECC 1.6406

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 21 52	2132.70	-17.50	36.36	181.84	112.62	9 57 24	1532.7	-14.28	29.16
90.00	19 21 8	5270.28	26.97	238.22	187.05	81.02	20 48 59	4670.3	25.45	229.88
100.00	10 39 24	1882.54	-18.75	17.40	181.28	113.71	11 10 47	1282.5	-15.39	10.23
100.00	20 46 17	4995.67	28.31	217.77	186.79	79.99	22 9 33	4395.7	26.64	209.37
110.00	11 38 59	1696.00	-22.09	1.57	179.60	116.77	12 7 15	1096.0	-18.32	354.47
110.00	22 3 12	4754.97	31.93	198.65	185.94	77.09	23 22 27	4155.0	29.82	190.07

DIFFERENTIAL CORRECTIONS

TDE -.6887 TRA-2.4477 TC3 -.2313 BAU .1452
RDE -.2079 RRA .5075 RC3 -.1559 FAU .01934
FDE .8828 FRA 2.0652 FC3 -.4301 BSP 7740
BDE .7194 BRA 2.4998 BC3 .2790 FSP -519

MID-COURSE EXECUTION ACCURACY

SGT 2373.5 SGR 543.8 SG3 185.5
RRT -.6903 RRF .7284 RTF -.9227
SGB 2435.0 R23 -.1022 R13 .9257
SG1 2403.8 SG2 388.5 THA 170.77

ORBIT DETERMINATION ACCURACY

ST 929.3 SR 237.5 SS 871.2
CRT .1119 CRS .3118 CST .9786
LSA 1268.0 MSA 266.3 SSA 17.1
EL1 929.7 EL2 235.9 ALF 1.75

LAUNCH DATE SEP 17 1965 FLIGHT TIME 126.00 ARRIVAL DATE JAN 21 1966

HELIOCENTRIC CONIC DISTANCE 305.151

RL	150.35	LAL	.00	LOL	353.90	VL	25.967	GAL	8.67	AZL	87.34	HCA	123.33	SMA	121.63	ECC	.27785	INC	2.6607	VI	29.636
RP	107.50	LAP	2.22	LOP	117.25	VP	37.122	GAP	-14.72	AZP	91.46	TAL	155.81	TAP	279.14	RCA	87.84	APO	155.43	V2	35.252
RC	40.657	GL	11.36	GP	-15.03	ZAL	43.50	ZAP	15.41	ETS	74.15	ZAE	152.08	ETE	233.99	ZAC	40.60	ETC	132.41	CLP	-3.44

PLANETOCENTRIC CONIC

C3	36.576	VHL	6.048	DLA	-6.36	RAL	310.93	RAD	6568.4	VEL	12.568	PTH	2.28	VHP	9.726	DPA	-38.27	RAP	298.51	ECC	1.6020

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 9 17	2165.28	-18.34	38.38	180.85	111.96	9 45 22	1565.3	-15.20	31.11
90.00	19 32 1	5206.26	26.21	233.69	184.97	78.87	20 58 47	4606.3	24.41	225.49
100.00	10 27 36	1912.63	-19.57	19.27	180.31	113.06	10 59 28	1312.6	-16.28	12.02
100.00	20 56 23	4934.14	27.51	213.38	184.67	77.81	22 18 37	4334.1	25.55	205.12
110.00	11 28 55	1720.64	-22.84	3.09	178.70	116.15	11 57 36	1120.6	-19.14	355.91
110.00	22 11 33	4698.90	31.00	194.54	183.70	74.82	23 29 52	4098.9	28.61	186.16

DIFFERENTIAL CORRECTIONS

TDE	-.6976	TRA	-2.4524	TC3	-.2161	BAU	.1371												
RDE	-.1593	RRA	.5328	RC3	-.1787	FAU	.02013												
FDE	.9532	FRA	2.1678	FC3	-.4765	BSP	7983												
BDE	.7155	BRA	2.5096	BC3	.2804	FSP	-565												

MID-COURSE EXECUTION ACCURACY

SGT	2443.3	SGR	572.3	SG3	201.1						
RRT	-.7374	RRF	.7791	RTF	-.9278						
SGB	2509.5	R23	-.1153	R13	.9313						
SG1	2480.4	SG2	380.8	THA	169.96						

ORBIT DETERMINATION ACCURACY

ST	963.7	SR	214.6	SS	920.6						
CRT	-.0341	CRS	.1776	CST	.9770						
LSA	1325.1	MSA	256.7	SSA	16.9						
EL1	963.7	EL2	214.4	ALF	179.54						

LAUNCH DATE SEP 17 1965 FLIGHT TIME 128.00 ARRIVAL DATE JAN 23 1966

HELIOCENTRIC CONIC DISTANCE 311.979

RL	150.35	LAL	.00	LOL	353.90	VL	26.100	GAL	8.31	AZL	87.06	HCA	126.57	SMA	122.41	ECC	.26816	INC	2.9446	VI	29.636
RP	107.49	LAP	2.36	LOP	120.50	VP	37.218	GAP	-13.92	AZP	91.76	TAL	155.69	TAP	282.26	RCA	89.58	APO	155.24	V2	35.255
RC	40.351	GL	13.05	GP	-16.44	ZAL	43.74	ZAP	17.15	ETS	70.20	ZAE	151.90	ETE	241.10	ZAC	42.78	ETC	133.10	CLP	-4.96

PLANETOCENTRIC CONIC

C3	34.530	VHL	5.876	DLA	-4.70	RAL	310.63	RAD	6568.4	VEL	12.486	PTH	2.26	VHP	9.328	DPA	-39.39	RAP	300.91	ECC	1.5683

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 55 25	2203.12	-19.29	40.76	179.91	111.14	9 32 8	1603.1	-16.24	33.40
90.00	19 43 27	5139.34	25.24	229.03	182.89	76.72	21 9 6	4539.3	23.17	220.97
100.00	10 14 33	1947.85	-20.49	21.48	179.40	112.25	10 47 1	1347.8	-17.30	14.14
100.00	21 7 0	4869.84	26.50	208.87	182.55	75.64	22 28 10	4269.8	24.26	200.78
110.00	11 17 44	1750.05	-23.71	4.93	177.86	115.38	11 46 54	1150.1	-20.09	357.66
110.00	22 20 18	4640.40	29.88	190.35	181.46	72.57	23 37 39	4040.4	27.21	182.19

DIFFERENTIAL CORRECTIONS

TDE	-.7084	TRA	-2.4563	TC3	-.1977	BAU	.1311												
RDE	-.1075	RRA	.5642	RC3	-.2040	FAU	.02095												
FDE	1.0322	FRA	2.2765	FC3	-.5252	BSP	8236												
BDE	.7166	BRA	2.5203	BC3	.2841	FSP	-616												

MID-COURSE EXECUTION ACCURACY

SGT	2511.2	SGR	610.9	SG3	217.8						
RRT	-.7812	RRF	.8259	RTF	-.9327						
SGB	2584.4	R23	-.1293	R13	.9367						
SG1	2557.1	SG2	374.5	THA	169.00						

ORBIT DETERMINATION ACCURACY

ST	998.5	SR	196.1	SS	973.7						
CRT	-.2396	CRS	-.0222	CST	.9755						
LSA	1386.4	MSA	247.6	SSA	16.6						
EL1	999.6	EL2	190.2	ALF	177.20						

LAUNCH DATE SEP 17 1965 FLIGHT TIME 130.00 ARRIVAL DATE JAN 25 1966

HELIOCENTRIC CONIC DISTANCE 318.802

RL	150.35	LAL	.00	LOL	353.90	VL	26.224	GAL	7.97	AZL	86.75	HCA	129.80	SMA	123.14	ECC	.25907	INC	3.2534	VI	29.636
RP	107.48	LAP	2.50	LOP	123.75	VP	37.307	GAP	-13.15	AZP	92.08	TAL	155.60	TAP	285.40	RCA	91.24	APO	155.05	V2	35.257
RC	40.219	GL	14.92	GP	-18.06	ZAL	44.12	ZAP	19.16	ETS	67.07	ZAE	151.17	ETE	248.18	ZAC	45.07	ETC	133.60	CLP	-6.51

PLANETOCENTRIC CONIC

C3	32.781	VHL	5.725	DLA	-2.87	RAL	310.23	RAD	6568.3	VEL	12.416	PTH	2.24	VHP	8.955	DPA	-40.70	RAP	303.37	ECC	1.5395

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 40 7	2247.08	-20.34	43.55	179.05	110.13	9 17 35	1647.1	-17.42	36.10
90.00	19 55 33	5069.15	24.06	224.23	180.84	74.60	21 20 2	4469.2	21.71	216.34
100.00	10 0 8	1989.00	-21.53	24.09	178.57	111.25	10 33 17	1389.0	-18.45	16.65
100.00	21 18 14	4802.46	25.28	204.23	180.45	73.49	22 38 17	4202.5	22.77	196.33
110.00	11 5 18	1784.98	-24.71	7.15	177.11	114.41	11 35 3	1185.0	-21.21	359.76
110.00	22 29 33	4579.25	28.56	186.09	179.25	70.36	23 45 52	3979.2	25.61	178.15

DIFFERENTIAL CORRECTIONS

TDE	-.7198	TRA	-2.4574	TC3	-.1735	BAU	.1269												
RDE	-.0513	RRA	.6029	RC3	-.2319	FAU	.02180												
FDE	1.1201	FRA	2.3894	FC3	-.5758	BSP	8551												
BDE	.7216	BRA	2.5303	BC3	.2896	FSP	-673												

MID-COURSE EXECUTION ACCURACY

SGT	2573.1	SGR	661.9	SG3	235.4						
RRT	-.8207	RRF	.8672	RTF	-.9374						
SGB	2656.9	R23	-.1429	R13	.9421						
SG1	2631.0	SG2	369.9	THA	167.84						

ORBIT DETERMINATION ACCURACY

ST	1031.8	SR	188.5	SS	1030.1						
CRT	-.4978	CRS	-.2899	CST	.9739						
LSA	1450.4	MSA	239.5	SSA	16.1						
EL1	1036.1	EL2	162.8	ALF	174.67						

LAUNCH DATE SEP 17 1965 FLIGHT TIME 132.00 ARRIVAL DATE JAN 27 1966

HELIOCENTRIC CONIC DISTANCE 325.618

RL	150.35	LAL	.00	LOL	353.90	VL	26.338	GAL	7.65	AZL	86.41	HCA	133.04	SMA	123.83	ECC	.25055	INC	3.5928	VI	29.636
RP	107.48	LAP	2.62	LOP	126.99	VP	37.389	GAP	-12.40	AZP	92.45	TAL	155.54	TAP	288.58	RCA	92.81	APO	154.86	V2	35.259
RC	40.263	GL	16.99	GP	-19.92	ZAL	44.68	ZAP	21.44	ETS	64.65	ZAE	149.86	ETE	254.91	ZAC	47.49	ETC	133.92	CLP	-8.09

PLANETOCENTRIC CONIC

C3	31.333	VHL	5.598	DLA	-.86	RAL	309.73	RAD	6568.2	VEL	12.357	PTH	2.23	VHP	8.610	DPA	-42.21	RAP	305.91	ECC	1.5157

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 23 10	2298.19	-21.51	46.85	178.31	108.88	9 1 29	1698.2	-18.73	39.27
90.00	20 8 31	4995.32	22.63	219.29	178.83	72.52	21 31 46	4395.3	20.03	211.58
100.00	9 44 7	2037.08	-22.68	27.20	177.86	110.01	10 18 4	1437.1	-19.75	19.63
100.00	21 30 15	4731.65	23.82	199.48	178.41	71.39	22 49 7	4131.7	21.06	191.77
110.00	10 51 27	1826.32	-25.85	9.83	176.49	113.19	11 21 53	1226.3	-22.48	2.29
110.00	22 39 25	4515.18	27.01	181.74	177.11	68.21	23 54 40	3915.2	23.81	174.04

DIFFERENTIAL CORRECTIONS

TDE	-.7386	TRA	-2.4621	TC3	-.1512	BAU	.1267												
RDE	.0115	RRA	.6510	RC3	-.2618	FAU	.02254												
FDE	1.2209	FRA	2.5079	FC3	-.6227	BSP	8791												
BDE	.7387	BRA	2.5467	BC3	.3024	FSP	-729												

MID-COURSE EXECUTION ACCURACY

SGT	2636.8	SGR	728.1	SG3	253.9						
RRT	-.8536	RRF	.9018	RTF	-.9416						
SGB	2735.5	R23	-.1573	R13	.9473						
SG1	2710.5	SG2	368.9	THA	166.48						

ORBIT DETERMINATION ACCURACY

ST	1069.3	SR	200.5	SS	1092.1						
CRT	-.7466	CRS	-.5739	CST	.9728						
LSA	1523.8	MSA	232.2	SSA	15.5						
EL1	1079.9	EL2	132.0	ALF	171.91						

LAUNCH DATE SEP 17 1965 FLIGHT TIME 134.00 ARRIVAL DATE JAN 29 1966

HELIOCENTRIC CONIC DISTANCE 332.423

RL	150.35	LAL	.00	LOL	353.90	VL	26.444	GAL	7.35	AZL	86.03	HCA	136.28	SMA	124.48	ECC	.24260	INC	3.9700	V1	29.636
RP	107.48	LAP	2.74	LOP	130.24	VP	37.464	GAP	-11.68	AZP	92.87	TAL	155.51	TAP	291.79	RCA	94.28	APO	154.68	V2	35.259
RC	40.482	GL	19.29	GP	-22.06	ZAL	45.43	ZAP	24.01	ETS	62.83	ZAE	147.95	ETE	260.99	ZAC	50.07	ETC	134.08	CLP	-9.71

PLANETOCENTRIC CONIC

C3	30.201	VHL	5.496	DLA	1.36	RAL	309.11	RAD	6568.2	VEL	12.312	PTH	2.22	VHP	8.296	DPA	-43.98	RAP	308.58	ECC	1.4970

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 4 18	2357.70	-22.76	50.76	177.73	107.31	8 43 35	1757.7	-20.18	43.04
90.00	20 22 31	4917.31	20.95	214.19	176.92	70.50	21 44 28	4317.3	18.10	206.67
100.00	9 26 16	2093.28	-23.94	30.90	177.32	108.45	10 1 10	1493.3	-21.20	23.17
100.00	21 43 13	4656.97	22.11	194.59	176.46	69.36	23 0 50	4057.0	19.11	187.08
110.00	10 35 58	1875.12	-27.11	13.05	176.04	111.66	11 7 13	1275.1	-23.93	5.34
110.00	22 50 1	4447.89	25.24	177.32	175.07	66.14	24 4 9	3847.9	21.79	169.86

DIFFERENTIAL CORRECTIONS

TDE	-.7626	TRA	-2.4676	TC3	-.1275	BAU	.1292
RDE	.0831	RRA	.7102	RC3	-.2935	FAU	.02316
FDE	1.3343	FRA	2.6278	FC3	-.6640	BSP	9032
BDE	.7671	BRA	2.5678	BC3	.3200	FSP	-786

MID-COURSE EXECUTION ACCURACY

SGT	2697.1	SGR	812.4	SG3	272.9				
RRT	-.8806	RRF	.9295	RTF	-.9456				
SGB	2816.8	R23	-.1702	R13	.9524				
SG1	2792.2	SG2	371.9	THA	164.87				

ORBIT DETERMINATION ACCURACY

ST	1108.3	SR	238.7	SS	1158.3				
CRT	-.9087	CRS	-.7866	CST	.9719				
LSA	1604.8	MSA	226.4	SSA	14.7				
EL1	1129.5	EL2	97.8	ALF	168.84				

LAUNCH DATE SEP 17 1965 FLIGHT TIME 136.00 ARRIVAL DATE JAN 31 1966

HELIOCENTRIC CONIC DISTANCE 339.216

RL	150.35	LAL	.00	LOL	353.90	VL	26.541	GAL	7.07	AZL	85.61	HCA	139.51	SMA	125.09	ECC	.23518	INC	4.3947	V1	29.636
RP	107.48	LAP	2.85	LOP	133.49	VP	37.533	GAP	-10.97	AZP	93.35	TAL	155.51	TAP	295.03	RCA	95.67	APO	154.51	V2	35.259
RC	40.875	GL	21.85	GP	-24.55	ZAL	46.41	ZAP	26.90	ETS	61.53	ZAE	145.46	ETE	266.27	ZAC	52.84	ETC	134.09	CLP	-11.36

PLANETOCENTRIC CONIC

C3	29.409	VHL	5.423	DLA	3.81	RAL	308.38	RAD	6568.2	VEL	12.279	PTH	2.21	VHP	8.019	DPA	-46.04	RAP	311.44	ECC	1.4840

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 43 8	2427.19	-24.10	55.41	177.38	105.34	8 23 35	1827.2	-21.76	47.52
90.00	20 37 50	4834.51	18.98	208.91	175.14	68.58	21 58 24	4234.5	15.90	201.59
100.00	9 6 15	2159.07	-25.29	35.32	177.00	106.49	9 42 14	1559.1	-22.79	27.42
100.00	21 57 23	4577.87	20.13	189.55	174.65	67.42	23 13 41	3977.9	16.89	182.25
110.00	10 18 35	1932.66	-28.50	16.96	175.82	109.73	10 50 48	1332.7	-25.54	9.03
110.00	23 1 33	4377.04	23.21	172.82	173.16	64.17	24 14 30	3777.0	19.54	165.60

DIFFERENTIAL CORRECTIONS

TDE	-.7910	TRA	-2.4714	TC3	-.0994	BAU	.1342
RDE	.1662	RRA	.7823	RC3	-.3265	FAU	.02368
FDE	1.4595	FRA	2.7425	FC3	-.6972	BSP	9346
BDE	.8083	BRA	2.5922	BC3	.3413	FSP	-847

MID-COURSE EXECUTION ACCURACY

SGT	2749.2	SGR	917.8	SG3	291.5				
RRT	-.9021	RRF	.9508	RTF	-.9495				
SGB	2898.4	R23	-.1798	R13	.9575				
SG1	2873.5	SG2	378.9	THA	162.93				

ORBIT DETERMINATION ACCURACY

ST	1146.6	SR	304.5	SS	1227.2				
CRT	-.9791	CRS	-.9040	CST	.9712				
LSA	1692.2	MSA	222.9	SSA	13.7				
EL1	1184.8	EL2	59.9	ALF	165.39				

LAUNCH DATE SEP 17 1965 FLIGHT TIME 138.00 ARRIVAL DATE FEB 2 1966

HELIOCENTRIC CONIC DISTANCE 345.995

RL	150.35	LAL	.00	LOL	353.90	VL	26.631	GAL	6.80	AZL	85.12	HCA	142.75	SMA	125.66	ECC	.22829	INC	4.8796	V1	29.636
RP	107.48	LAP	2.95	LOP	136.74	VP	37.595	GAP	-10.28	AZP	93.89	TAL	155.54	TAP	298.29	RCA	96.97	APO	154.34	V2	35.258
RC	41.437	GL	24.69	GP	-27.43	ZAL	47.65	ZAP	30.15	ETS	60.66	ZAE	142.42	ETE	270.68	ZAC	55.84	ETC	133.97	CLP	-13.04

PLANETOCENTRIC CONIC

C3	29.006	VHL	5.386	DLA	6.52	RAL	307.51	RAD	6568.2	VEL	12.263	PTH	2.21	VHP	7.788	DPA	-48.44	RAP	314.57	ECC	1.4774

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 19 11	2508.69	-25.45	61.00	177.30	102.86	8 0 59	1908.7	-23.43	52.92
90.00	20 54 51	4746.10	16.69	203.44	173.56	66.79	22 13 57	4146.1	13.41	196.30
100.00	8 43 37	2236.32	-26.67	40.64	176.97	104.02	9 20 54	1636.3	-24.48	32.53
100.00	22 13 5	4493.70	17.84	184.34	173.02	65.61	23 27 59	3893.7	14.40	177.24
110.00	9 58 58	2000.54	-29.97	21.70	175.93	107.27	10 32 18	1400.5	-27.31	13.51
110.00	23 14 14	4302.25	20.91	168.22	171.43	62.32	24 25 56	3702.2	17.04	161.24

DIFFERENTIAL CORRECTIONS

TDE	-.8281	TRA	-2.4771	TC3	-.0715	BAU	.1420
RDE	.2657	RRA	.8702	RC3	-.3590	FAU	.02392
FDE	1.5976	FRA	2.8466	FC3	-.7141	BSP	9685
BDE	.8696	BRA	2.6255	BC3	.3661	FSP	-906

MID-COURSE EXECUTION ACCURACY

SGT	2795.9	SGR	1047.7	SG3	308.8				
RRT	-.9185	RRF	.9663	RTF	-.9531				
SGB	2985.8	R23	-.1855	R13	.9627				
SG1	2960.0	SG2	391.2	THA	160.66				

ORBIT DETERMINATION ACCURACY

ST	1187.1	SR	397.7	SS	1298.7				
CRT	-.9985	CRS	-.9592	CST	.9710				
LSA	1790.2	MSA	221.6	SSA	12.4				
EL1	1251.8	EL2	20.7	ALF	161.50				

LAUNCH DATE SEP 17 1965 FLIGHT TIME 140.00 ARRIVAL DATE FEB 4 1966

HELIOCENTRIC CONIC DISTANCE 352.758

RL	150.35	LAL	.00	LOL	353.90	VL	26.714	GAL	6.56	AZL	84.56	HCA	145.98	SMA	126.18	ECC	.22191	INC	5.4421	V1	29.636
RP	107.49	LAP	3.04	LOP	140.00	VP	37.652	GAP	-9.61	AZP	94.51	TAL	155.58	TAP	301.56	RCA	98.18	APO	154.19	V2	35.256
RC	42.162	GL	27.83	GP	-30.78	ZAL	49.19	ZAP	33.80	ETS	60.15	ZAE	138.83	ETE	274.26	ZAC	59.13	ETC	133.77	CLP	-14.72

PLANETOCENTRIC CONIC

C3	29.067	VHL	5.391	DLA	9.50	RAL	306.49	RAD	6568.2	VEL	12.265	PTH	2.21	VHP	7.613	DPA	-51.24	RAP	318.11	ECC	1.4784

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 51 45	2604.91	-26.73	67.75	177.58	99.71	7 35 10	2004.9	-25.12	59.46
90.00	21 14 5	4650.94	14.05	197.70	172.24	65.16	22 31 36	4050.9	10.58	190.73
100.00	8 17 45	2327.52	-28.01	47.09	177.31	100.88	8 56 33	1727.5	-26.23	38.74
100.00	22 30 46	4403.56	15.23	178.93	171.67	63.96	23 44 10	3803.6	11.60	172.01
110.00	9 36 36	2080.77	-31.45	27.48	176.44	104.15	10 11 17	1480.8	-29.18	19.00
110.00	23 28 24	4223.07	18.34	163.53	169.96	60.63	24 38 47	3623.1	14.29	156.75

DIFFERENTIAL CORRECTIONS

TDE	-.8721	TRA	-2.4807	TC3	-.0386	BAU	.1521
RDE	.3866	RRA	.9757	RC3	-.3896	FAU	.02389
FDE	1.7437	FRA	2.9259	FC3	-.7115	BSP	10188
BDE	.9539	BRA	2.6657	BC3	.3915	FSP	-967

MID-COURSE EXECUTION ACCURACY

SGT	2829.4	SGR	1204.4	SG3	322.8				
RRT	-.9313	RRF	.9773	RTF	-.9565				
SGB	3075.1	R23	-.1855	R13	.9679				
SG1	3048.0	SG2	407.3	THA	157.96				

ORBIT DETERMINATION ACCURACY

ST	1225.5	SR	518.1	SS	1368.5				
CRT	-.9980	CRS	-.9833	CST	.9709				
LSA	1895.6	MSA	223.2	SSA	11.0				
EL1	1330.2	EL2	30.4	ALF	157.11				

LAUNCH DATE SEP 17 1965 FLIGHT TIME 142.00 ARRIVAL DATE FEB 6 1966

DISTANCE 359.491

HELIOCENTRIC CONIC

RL 150.35 LAL .00 LOL 353.90 VL 26.790 GAL 6.33 AZL 83.89 HCA 149.21 SMA 126.67 ECC .21599 INC 6.1073 V1 29.636
RP 107.49 LAP 3.12 LOP 143.25 VP 37.704 GAP -8.96 AZP 95.25 TAL 155.66 TAP 304.86 RCA 99.31 APO 154.03 V2 35.254
RC 43.042 GL 31.32 GP -34.66 ZAL 51.08 ZAP 37.90 ETS 59.92 ZAE 134.68 ETE 277.09 ZAC 62.77 ETC 133.52 CLP -16.40

PLANETOCENTRIC CONIC

C3 29.709 VHL 5.451 DLA 12.78 RAL 305.27 RAD 6568.2 VEL 12.292 PTH 2.21 VHP 7.509 DPA -54.47 RAP 322.31 ECC 1.4889

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 19 43	2719.71	-27.78	75.99	178.26	95.71	7 5 3	2119.7	-26.70	67.49
90.00	21 36 23	4547.07	11.00	191.60	171.30	63.74	22 52 10	3947.1	7.38	184.78
100.00	7 47 40	2436.07	-29.16	54.95	178.09	96.89	8 28 16	1836.1	-27.90	46.38
100.00	22 51 7	4305.93	12.23	173.23	170.66	62.51	24 2 53	3705.9	8.45	166.48
110.00	9 10 47	2175.98	-32.81	34.56	177.45	100.16	9 47 3	1576.0	-31.06	25.78
110.00	23 44 29	4138.80	15.46	158.69	168.80	59.13	24 53 28	3538.8	11.25	152.12

DIFFERENTIAL CORRECTIONS

TDE -.8194 TRA-2.3761 TC3 .1441 BAU .1865
RDE .5126 RRA 1.0752 RC3 -.4468 FAU .02707
FDE 1.8125 FRA 2.8831 FC3 -.7887 BSP 13496
BDE .9665 BRA 2.6081 BC3 .4695 FSP -1184

MID-COURSE EXECUTION ACCURACY

SGT 2706.7 SGR 1367.8 SG3 323.6
RRT -.9478 RRF .9853 RTF -.9604
SGB 3032.7 R23 -.1736 R13 .9734
SG1 3007.2 SG2 392.5 THA 153.93

ORBIT DETERMINATION ACCURACY

ST 1154.3 SR 641.5 SS 1376.3
CRT -.9878 CRS -.9930 CST .9628
LSA 1892.1 MSA 241.0 SSA 8.5
EL1 1317.6 EL2 87.6 ALF 151.10

LAUNCH DATE SEP 17 1965 FLIGHT TIME 144.00 ARRIVAL DATE FEB 8 1966

DISTANCE 366.228

HELIOCENTRIC CONIC

RL 150.35 LAL .00 LOL 353.90 VL 26.860 GAL 6.12 AZL 83.09 HCA 152.43 SMA 127.13 ECC .21060 INC 6.9113 V1 29.636
RP 107.50 LAP 3.19 LOP 146.50 VP 37.750 GAP -8.34 AZP 96.13 TAL 155.72 TAP 308.15 RCA 100.35 APO 153.90 V2 35.250
RC 44.068 GL 35.14 GP -39.14 ZAL 53.33 ZAP 42.47 ETS 59.96 ZAE 129.97 ETE 279.36 ZAC 66.82 ETC 133.34 CLP -18.00

PLANETOCENTRIC CONIC

C3 31.179 VHL 5.584 DLA 16.37 RAL 303.85 RAD 6568.2 VEL 12.351 PTH 2.23 VHP 7.506 DPA -58.12 RAP 327.56 ECC 1.5131

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 41 39	2858.83	-28.31	86.12	179.43	90.66	6 29 17	2258.8	-27.92	77.48
90.00	22 3 11	4432.18	7.46	185.01	170.95	62.60	23 17 3	3832.2	3.73	178.31
100.00	7 12 11	2566.86	-29.84	64.61	179.40	91.86	7 54 58	1966.9	-29.26	55.85
100.00	23 15 20	4199.38	8.81	167.17	170.22	61.32	24 25 19	3599.4	4.92	160.54
110.00	8 40 46	2289.66	-33.85	43.27	179.11	95.11	9 18 56	1689.7	-32.77	34.20
110.00	0 7 9	4049.35	12.27	153.72	168.15	57.84	1 14 38	3449.4	7.94	147.31

DIFFERENTIAL CORRECTIONS

TDE-1.0730 TRA-2.5635 TC3 -.0583 BAU .1716
RDE .7471 RRA 1.2666 RC3 -.4076 FAU .01996
FDE 2.0876 FRA 3.0018 FC3 -.5542 BSP 10015
BDE 1.3074 BRA 2.8593 BC3 .4117 FSP -961

MID-COURSE EXECUTION ACCURACY

SGT 2955.0 SGR 1621.7 SG3 337.7
RRT -.9449 RRF .9896 RTF -.9627
SGB 3370.8 R23 -.1716 R13 .9782
SG1 3337.8 SG2 470.0 THA 151.99

ORBIT DETERMINATION ACCURACY

ST 1374.3 SR 867.8 SS 1523.2
CRT -.9880 CRS -.9979 CST .9761
LSA 2216.1 MSA 224.9 SSA 8.4
EL1 1621.3 EL2 113.6 ALF 147.86

LAUNCH DATE SEP 17 1965 FLIGHT TIME 146.00 ARRIVAL DATE FEB 10 1966

DISTANCE 372.926

HELIOCENTRIC CONIC

RL 150.35 LAL .00 LOL 353.90 VL 26.923 GAL 5.92 AZL 82.09 HCA 155.65 SMA 127.54 ECC .20563 INC 7.9092 V1 29.636
RP 107.51 LAP 3.25 LOP 149.75 VP 37.792 GAP -7.73 AZP 97.21 TAL 155.80 TAP 311.45 RCA 101.32 APO 153.77 V2 35.247
RC 45.230 GL 39.33 GP -44.27 ZAL 56.00 ZAP 47.53 ETS 60.24 ZAE 124.65 ETE 281.23 ZAC 71.35 ETC 133.34 CLP -19.45

PLANETOCENTRIC CONIC

C3 33.800 VHL 5.814 DLA 20.27 RAL 302.15 RAD 6568.3 VEL 12.457 PTH 2.25 VHP 7.637 DPA -62.12 RAP 334.56 ECC 1.5563

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 54 0	3032.95	-27.79	98.82	180.92	84.32	5 44 33	2433.0	-28.28	90.19
90.00	22 37 13	4298.73	3.22	177.49	171.41	61.85	23 48 52	3698.7	-.57	170.86
100.00	6 28 29	2728.31	-29.59	76.59	181.10	85.57	7 13 57	2128.3	-29.89	67.80
100.00	23 45 26	4078.61	4.81	160.44	170.53	60.46	24 53 24	3478.6	.84	153.90
110.00	8 4 47	2427.02	-34.16	53.98	181.36	88.79	8 45 14	1827.0	-33.95	44.74
110.00	0 29 33	3952.67	8.72	148.49	168.13	56.82	1 35 25	3352.7	4.29	142.20

DIFFERENTIAL CORRECTIONS

TDE-1.1908 TRA-2.5939 TC3 -.0344 BAU .1816
RDE 1.0024 RRA 1.4395 RC3 -.4003 FAU .01765
FDE 2.2192 FRA 2.9157 FC3 -.4520 BSP 10828
BDE 1.5566 BRA 2.9665 BC3 .4018 FSP -968

MID-COURSE EXECUTION ACCURACY

SGT 2967.3 SGR 1865.3 SG3 328.3
RRT -.9506 RRF .9927 RTF -.9660
SGB 3504.9 R23 -.1546 R13 .9832
SG1 3469.7 SG2 495.0 THA 148.42

ORBIT DETERMINATION ACCURACY

ST 1430.3 SR 1087.1 SS 1565.4
CRT -.9841 CRS -.9994 CST .9779
LSA 2371.7 MSA 230.4 SSA 6.9
EL1 1789.9 EL2 154.2 ALF 142.88

LAUNCH DATE SEP 17 1965 FLIGHT TIME 148.00 ARRIVAL DATE FEB 12 1966

DISTANCE 379.596

HELIOCENTRIC CONIC

RL 150.35 LAL .00 LOL 353.90 VL 26.981 GAL 5.75 AZL 80.81 HCA 158.85 SMA 127.93 ECC .20111 INC 9.1892 V1 29.636
RP 107.53 LAP 3.30 LOP 153.00 VP 37.829 GAP -7.13 AZP 98.58 TAL 155.89 TAP 314.74 RCA 102.20 APO 153.65 V2 35.242
RC 46.516 GL 43.88 GP -50.08 ZAL 59.13 ZAP 53.07 ETS 60.82 ZAE 118.70 ETE 283.01 ZAC 76.40 ETC 133.77 CLP -20.55

PLANETOCENTRIC CONIC

C3 38.257 VHL 6.185 DLA 24.45 RAL 300.09 RAD 6568.5 VEL 12.634 PTH 2.29 VHP 7.964 DPA -66.25 RAP 344.58 ECC 1.6296

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	3 48 48	3267.73	-25.09	115.45	182.18	76.43	4 43 16	2667.7	-26.71	107.16
90.00	23 26 2	4126.52	-2.33	167.88	173.31	61.77	24 34 48	3526.5	-6.09	161.22
100.00	5 31 11	2937.65	-27.52	91.78	182.80	77.84	6 20 9	2337.6	-28.92	83.26
100.00	0 30 16	3931.84	-.16	152.37	172.10	60.11	1 35 48	3331.8	-4.13	145.84
110.00	7 20 19	2596.20	-33.15	67.06	184.01	81.12	8 3 35	1996.2	-34.02	57.93
110.00	0 57 37	3846.06	4.70	142.85	169.08	56.10	2 1 43	3246.1	.22	136.63

DIFFERENTIAL CORRECTIONS

TDE-1.3825 TRA-2.6659 TC3 -.0340 BAU .1861
RDE 1.3460 RRA 1.6345 RC3 -.3623 FAU .01379
FDE 2.3257 FRA 2.7501 FC3 -.3120 BSP 11459
BDE 1.9295 BRA 3.1271 BC3 .3639 FSP -922

MID-COURSE EXECUTION ACCURACY

SGT 3000.2 SGR 2126.5 SG3 307.0
RRT -.9546 RRF .9946 RTF -.9696
SGB 3677.4 R23 -.1339 R13 .9878
SG1 3640.1 SG2 522.3 THA 145.09

ORBIT DETERMINATION ACCURACY

ST 1517.3 SR 1343.1 SS 1591.1
CRT -.9828 CRS -.9999 CST .9811
LSA 2565.8 MSA 233.8 SSA 5.5
EL1 2017.8 EL2 186.5 ALF 138.55

LAUNCH DATE SEP 17 1965 FLIGHT TIME 150.00 ARRIVAL DATE FEB 14 1966

HELIOCENTRIC CONIC DISTANCE 386.233

RL 150.35 LAL .00 LOL 353.90 VL 27.033 GAL 5.59 AZL 79.10 HCA 162.05 SMA 128.28 ECC .19702 INC10.9014 VI 29.636
RP 107.55 LAP 3.34 LOP 156.25 VP 37.861 GAP -6.56 AZP 100.38 TAL 155.97 TAP 318.02 RCA 103.00 APO 153.55 V2 35.236
RC 47.916 GL 48.71 GP -56.53 ZAL 62.71 ZAP 58.98 ETS 61.98 ZAE 112.14 ETE 285.19 ZAC 82.02 ETC 135.12 CLP -20.89

PLANETOCENTRIC CONIC

C3 45.853 VHL 6.771 DLA 28.84 RAL 297.58 RAD 6568.7 VEL 12.931 PTH 2.36 VHP 8.588 DPA -69.89 RAP 359.64 ECC 1.7546

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
84.31	0 42 6	3895.68	-14.41	157.22	179.78	64.75	1 47 2	3295.7	-17.69	150.05
95.69	2 16 35	3589.89	-14.40	134.81	179.77	64.74	3 16 25	2989.9	-17.68	127.64
100.00	3 57 20	3266.16	-20.87	113.87	182.73	68.10	4 51 46	2666.2	-23.66	106.18
100.00	1 44 2	3694.64	-8.12	139.26	176.50	61.13	2 45 37	3094.6	-11.91	132.52
110.00	6 21 53	2813.53	-29.71	83.04	186.25	72.26	7 8 47	2213.5	-31.85	74.48
110.00	1 35 58	3720.04	-.11	136.26	171.58	55.82	2 37 58	3120.0	-4.59	130.04

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TOE-1.6909 TRA-2.8003 TC3 -.0455 BAU .1807 SGT 3060.5 SGR 2372.8 SG3 272.1 ST 1644.8 SR 1619.3 SS 1588.2
ROE 1.8078 RRA 1.8331 RC3 -.2912 FAU .00869 RRT -.9575 RRF .9952 RTF -.9740 CRT -.9835 CRS -.9999 CST .9853
FOE 2.3809 FRA 2.4951 FC3 -.1642 BSP 12135 SGB 3872.6 R23 -.1099 R13 .9918 LSA 2791.9 MSA 235.2 SSA 4.3
BOE 2.4753 BRA 3.3469 BC3 .2948 FSP -833 SG1 3833.9 SG2 546.5 THA 142.52 EL1 2298.6 EL2 209.6 ALF 135.46

LAUNCH DATE SEP 17 1965 FLIGHT TIME 152.00 ARRIVAL DATE FEB 16 1966

HELIOCENTRIC CONIC DISTANCE 392.824

RL 150.35 LAL .00 LOL 353.90 VL 27.081 GAL 5.45 AZL 76.68 HCA 165.22 SMA 128.59 ECC .19337 INC13.3220 VI 29.636
RP 107.56 LAP 3.37 LOP 159.50 VP 37.889 GAP -6.00 AZP 102.90 TAL 156.03 TAP 321.25 RCA 103.73 APO 153.46 V2 35.230
RC 49.420 GL 53.70 GP -63.50 ZAL 66.73 ZAP 65.12 ETS 64.68 ZAE 104.95 ETE 288.90 ZAC 88.26 ETC 138.51 CLP -19.46

PLANETOCENTRIC CONIC

C3 59.413 VHL 7.708 DLA 33.24 RAL 294.43 RAD 6569.1 VEL 13.445 PTH 2.46 VHP 9.689 DPA -71.86 RAP 21.39 ECC 1.9778

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
71.81	22 54 29	4248.71	-14.25	183.61	181.65	59.64	24 5 17	3648.7	-18.18	176.77
108.19	3 35 11	3365.32	-14.24	117.91	181.64	59.64	4 31 16	2765.3	-18.16	111.07
71.81	22 54 29	4248.71	-14.25	183.61	181.65	59.64	24 5 17	3648.7	-18.18	176.77
108.19	3 35 11	3365.32	-14.24	117.91	181.64	59.64	4 31 16	2765.3	-18.16	111.07
110.00	4 46 56	3145.21	-20.86	104.69	185.49	62.28	5 39 21	2545.2	-24.40	97.34
110.00	2 45 50	3516.82	-7.82	125.59	177.58	56.62	3 44 27	2916.8	-12.16	119.18

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TOE-2.2529 TRA-3.0720 TC3 -.0703 BAU .1597 SGT 3204.8 SGR 2530.4 SG3 226.1 ST 1864.2 SR 1869.9 SS 1556.1
ROE 2.4130 RRA 1.9814 RC3 -.1884 FAU .00253 RRT -.9594 RRF .9942 RTF -.9803 CRT -.9858 CRS -.9995 CST .9905
FOE 2.3764 FRA 2.1720 FC3 -.0369 BSP 12771 SGB 4083.4 R23 -.0828 R13 .9952 LSA 3055.9 MSA 233.5 SSA 3.3
BOE 3.3012 BRA 3.6556 BC3 .2011 FSP -702 SG1 4044.0 SG2 565.3 THA 141.98 EL1 2631.0 EL2 222.3 ALF 134.91

LAUNCH DATE SEP 17 1965 FLIGHT TIME 154.00 ARRIVAL DATE FEB 18 1966

HELIOCENTRIC CONIC DISTANCE 399.350

RL 150.35 LAL .00 LOL 353.90 VL 27.123 GAL 5.34 AZL 72.98 HCA 168.35 SMA 128.88 ECC .19016 INC17.0173 VI 29.636
RP 107.58 LAP 3.39 LOP 162.74 VP 37.913 GAP -5.48 AZP 106.69 TAL 156.06 TAP 324.41 RCA 104.37 APO 153.39 V2 35.224
RC 51.018 GL 58.49 GP -70.68 ZAL 71.15 ZAP 71.22 ETS 72.33 ZAE 97.12 ETE 297.68 ZAC 95.25 ETC 147.48 CLP -13.33

PLANETOCENTRIC CONIC

C3 85.942 VHL 9.270 DLA 37.30 RAL 290.42 RAD 6569.7 VEL 14.398 PTH 2.62 VHP 11.627 DPA -70.59 RAP 46.23 ECC 2.4144

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
64.64	21 57 30	4458.82	-12.42	199.01	183.64	54.54	23 11 49	3858.8	-16.96	192.62
115.36	4 0 10	3328.68	-12.40	113.79	183.63	54.54	4 55 38	2728.7	-16.95	107.41
64.64	21 57 30	4458.82	-12.42	199.01	183.64	54.54	23 11 49	3858.8	-16.96	192.62
115.36	4 0 10	3328.68	-12.40	113.79	183.63	54.54	4 55 38	2728.7	-16.95	107.41
64.64	21 57 30	4458.82	-12.42	199.01	183.64	54.54	23 11 49	3858.8	-16.96	192.62
115.36	4 0 10	3328.68	-12.40	113.79	183.63	54.54	4 55 38	2728.7	-16.95	107.41

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TOE-3.5081 TRA-3.6813 TC3 -.1105 BAU .1532 SGT 3594.9 SGR 2337.4 SG3 174.9 ST 2331.8 SR 1900.6 SS 1507.3
ROE 2.9970 RRA 1.8263 RC3 -.0746 FAU-.00444 RRT -.9576 RRF .9871 RTF -.9897 CRT -.9886 CRS -.9981 CST .9961
FOE 2.3277 FRA 1.8293 FC3 .0448 BSP 13378 SGB 4288.0 R23 -.0518 R13 .9978 LSA 3357.2 MSA 225.5 SSA 2.5
BOE 4.6140 BRA 4.1094 BC3 .1333 FSP -551 SG1 4250.0 SG2 569.9 THA 147.44 EL1 3000.0 EL2 222.2 ALF 140.88

LAUNCH DATE SEP 17 1965 FLIGHT TIME 156.00 ARRIVAL DATE FEB 20 1966

HELIOCENTRIC CONIC DISTANCE 405.759

RL 150.35 LAL .00 LOL 353.90 VL 27.161 GAL 5.25 AZL 66.67 HCA 171.40 SMA 129.14 ECC .18745 INC23.3285 VI 29.636
RP 107.61 LAP 3.39 LOP 165.99 VP 37.934 GAP -4.98 AZP 113.09 TAL 156.01 TAP 327.41 RCA 104.93 APO 153.35 V2 35.216
RC 52.701 GL 62.25 GP -76.87 ZAL 75.85 ZAP 76.99 ETS 100.36 ZAE 88.36 ETE 326.90 ZAC 103.45 ETC 177.51 CLP 7.64

PLANETOCENTRIC CONIC

C3 146.481 VHL 12.103 DLA 40.15 RAL 285.25 RAD 6570.6 VEL 16.365 PTH 2.86 VHP 15.235 DPA -65.33 RAP 66.06 ECC 3.4107

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
60.25	21 15 37	4628.87	-8.57	210.13	184.97	50.62	22 32 46	4028.9	-13.58	204.20
119.75	4 0 47	3376.56	-8.56	114.77	184.96	50.62	4 57 3	2776.6	-13.57	108.84
60.25	21 15 37	4628.87	-8.57	210.13	184.97	50.62	22 32 46	4028.9	-13.58	204.20
119.75	4 0 47	3376.56	-8.56	114.77	184.96	50.62	4 57 3	2776.6	-13.57	108.84
60.25	21 15 37	4628.87	-8.57	210.13	184.97	50.62	22 32 46	4028.9	-13.58	204.20
119.75	4 0 47	3376.56	-8.56	114.77	184.96	50.62	4 57 3	2776.6	-13.57	108.84

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TOE-6.8003 TRA-4.8522 TC3 -.1827 BAU .3672 SGT 4426.2 SGR 512.5 SG3 126.8 ST 3343.2 SR 457.8 SS 1488.6
ROE .9571 RRA -.3498 RC3 -.0421 FAU-.01280 RRT -.3362 RRF .3569 RTF -.9993 CRT -.9148 CRS -.9208 CST .9999
FOE 2.3097 FRA 1.5528 FC3 .0757 BSP 13872 SGB 4455.8 R23 -.0180 R13 .9993 LSA 3683.6 MSA 183.7 SSA 1.8
BOE 6.8674 BRA 4.8648 BC3 .1875 FSP -405 SG1 4429.6 SG2 482.3 THA 177.74 EL1 3369.4 EL2 183.4 ALF 172.84

LAUNCH DATE SEP 17 1965 FLIGHT TIME 158.00 ARRIVAL DATE FEB 22 1966

HELIOCENTRIC CONIC DISTANCE 411.899

RL	150.35	LAL	.00	LOL	353.90	VL	27.195	GAL	5.23	AZL	53.90	HCA	174.24	SMA	129.37	ECC	.18544	INC	36.0988	VI	29.636
RP	107.63	LAP	3.39	LOP	169.24	VP	37.951	GAP	-4.56	AZP	125.96	TAL	155.79	TAP	330.03	RCA	105.38	APO	153.36	V2	35.208
RC	54.462	GL	62.54	GP	-75.99	ZAL	80.55	ZAP	82.02	ETS	159.16	ZAE	77.52	ETE	26.36	ZAC	114.53	ETC	238.82	CLP	55.00

PLANETOCENTRIC CONIC

C3	323.366	VHL	17.982	DLA	39.54	RAL	278.76	RAD	6571.8	VEL	21.087	PTH	3.19	VHP	22.803	DPA	-55.39	RAP	78.07	ECC	6.3218

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
61.16	20 53 55	4733.75	-3.44	214.75	184.59	50.58	22 12 49	4133.8	-8.49	208.93
118.84	3 30 41	3505.17	-3.43	121.40	184.58	50.58	4 29 6	2905.2	-8.48	115.57
61.16	20 53 55	4733.75	-3.44	214.75	184.59	50.58	22 12 49	4133.8	-8.49	208.93
118.84	3 30 41	3505.17	-3.43	121.40	184.58	50.58	4 29 6	2905.2	-8.48	115.57
61.16	20 53 55	4733.75	-3.44	214.75	184.59	50.58	22 12 49	4133.8	-8.49	208.93
118.84	3 30 41	3505.17	-3.43	121.40	184.58	50.58	4 29 6	2905.2	-8.48	115.57

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-6.5677	TRA	-2.5656	TC3	-.1581	BAU	1.2196	SGT	2413.7	SGR	3814.2	SG3	90.7	ST	2116.7	SR	2919.5	SS	1629.7
RDE	-8.8754	RRA	-5.8515	RC3	-.2337	FAU	-.02751	RRT	.9731	RRF	-.9982	RTF	-.9837	CRT	.9950	CRS	.9997	CST	.9971
FDE	2.5298	FRA	1.4977	FC3	.0736	BSP	14021	SGB	4513.8	R23	-.0119	R13	-.9995	LSA	3953.5	MSA	172.3	SSA	1.7
BDE	11.0412	BRA	6.3892	BC3	.2821	FSP	-293	SG1	4488.9	SG2	472.9	THA	57.98	EL1	3602.0	EL2	171.7	ALF	54.10

LAUNCH DATE SEP 17 1965 FLIGHT TIME 160.00 ARRIVAL DATE FEB 24 1966

HELIOCENTRIC CONIC DISTANCE 417.145

RL	150.35	LAL	.00	LOL	353.90	VL	27.225	GAL	5.38	AZL	22.74	HCA	176.34	SMA	129.58	ECC	.18508	INC	67.2620	VI	29.636
RP	107.66	LAP	3.38	LOP	172.48	VP	37.964	GAP	-4.37	AZP	157.22	TAL	154.97	TAP	331.31	RCA	105.59	APO	153.56	V2	35.200
RC	56.291	GL	52.20	GP	-59.44	ZAL	84.52	ZAP	85.67	ETS	179.31	ZAE	60.98	ETE	43.28	ZAC	134.00	ETC	261.14	CLP	81.46

PLANETOCENTRIC CONIC

C3	1000.990	VHL	31.638	DLA	28.77	RAL	272.00	RAD	6573.0	VEL	33.500	PTH	3.50	VHP	40.422	DPA	-36.20	RAP	83.52	ECC	17.4738

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
84.67	22 59 3	4348.51	.19	182.78	182.37	61.23	24 11 32	3748.5	-3.65	176.17
95.33	0 31 40	4061.42	.21	161.74	182.37	61.23	1 39 22	3461.4	-3.63	155.13
100.00	2 17 15	3722.00	-7.22	140.79	186.47	60.91	3 19 17	3122.0	-11.04	134.09
100.00	0 0 5	4163.16	7.62	165.13	178.27	61.01	1 9 28	3563.2	3.70	158.55
110.00	4 40 42	3272.92	-16.63	112.19	191.95	59.70	5 35 14	2672.9	-20.53	105.24
110.00	23 49 12	4185.01	17.05	161.32	172.81	59.92	24 58 57	3585.0	12.93	154.64

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-6.6633	TRA	-.6245	TC3	-.1158	BAU	4.1976	SGT	1417.7	SGR	3896.0	SG3	72.4	ST	1207.5	SR	2866.1	SS	2127.9
RD	-15.4804	RRA	-9.5792	RC3	-.2915	FAU	-.07516	RRT	.9035	RRF	-.9998	RTF	-.9045	CRT	.9844	CRS	1.0000	CST	.9843
FDE	3.2901	FRA	2.0449	FC3	.0650	BSP	12694	SGB	4145.9	R23	-.0443	R13	-.9988	LSA	3763.0	MSA	201.6	SSA	1.7
BDE	16.8535	BRA	9.5995	BC3	.3137	FSP	-231	SG1	4105.6	SG2	576.7	THA	71.42	EL1	3103.9	EL2	195.9	ALF	67.38

LAUNCH DATE SEP 17 1965 FLIGHT TIME 162.00 ARRIVAL DATE FEB 26 1966

HELIOCENTRIC CONIC DISTANCE 428.706

RL	150.35	LAL	.00	LOL	353.90	VL	27.251	GAL	4.41	AZL	151.44	HCA	183.81	SMA	129.76	ECC	.17597	INC	61.4397	VI	29.636
RP	107.69	LAP	3.35	LOP	175.72	VP	37.974	GAP	-2.62	AZP	28.61	TAL	158.48	TAP	342.29	RCA	106.92	APO	152.59	V2	35.191
RC	58.184	GL	-54.79	GP	62.47	ZAL	84.95	ZAP	87.11	ETS	192.91	ZAE	77.52	ETE	318.41	ZAC	103.16	ETC	103.28	CLP	83.73

PLANETOCENTRIC CONIC

C3	853.052	VHL	29.207	DLA	-78.16	RAL	277.53	RAD	6572.8	VEL	31.214	PTH	3.47	VHP	37.749	DPA	81.62	RAP	21.24	ECC	15.0391

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
13.47	6 34 14	2449.34	.11	82.72	187.50	168.16	7 15 3	1849.3	7.94	81.48
166.53	17 40 38	656.92	.11	283.17	187.52	168.16	17 51 34	56.9	7.94	281.94
13.47	6 34 14	2449.34	.11	82.72	187.50	168.16	7 15 3	1849.3	7.94	81.48
166.53	17 40 38	656.92	.11	283.17	187.52	168.16	17 51 34	56.9	7.94	281.94
13.47	6 34 14	2449.34	.11	82.72	187.50	168.16	7 15 3	1849.3	7.94	81.48
166.53	17 40 38	656.92	.11	283.17	187.52	168.16	17 51 34	56.9	7.94	281.94

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	10.0307	TRA	-.7775	TC3	-.1701	BAU	3.7510	SGT	2326.3	SGR	3650.1	SG3	77.2	ST	1980.6	SR	2450.8	SS	2122.1
RD	-12.0068	RRA	2.3543	RC3	.2815	FAU	-.06409	RRT	-.9354	RRF	.9963	RTF	-.9608	CRT	-.9862	CRS	-.9990	CST	.9926
FDE	-3.2255	FRA	.5265	FC3	.0650	BSP	13611	SGB	4328.4	R23	-.0199	R13	.9994	LSA	3790.2	MSA	258.7	SSA	2.3
BDE	15.6454	BRA	2.4793	BC3	.3289	FSP	-245	SG1	4270.9	SG2	702.8	THA	121.76	EL1	3140.6	EL2	256.1	ALF	128.86

LAUNCH DATE SEP 17 1965 FLIGHT TIME 164.00 ARRIVAL DATE FEB 28 1966

HELIOCENTRIC CONIC DISTANCE 434.080

RL	150.35	LAL	.00	LOL	353.90	VL	27.273	GAL	4.56	AZL	123.25	HCA	186.05	SMA	129.91	ECC	.17582	INC	33.2497	VI	29.636
RP	107.72	LAP	3.31	LOP	178.96	VP	37.981	GAP	-2.41	AZP	56.90	TAL	157.68	TAP	343.73	RCA	107.07	APO	152.75	V2	35.181
RC	60.133	GL	-63.65	GP	79.10	ZAL	80.87	ZAP	85.27	ETS	221.36	ZAE	92.40	ETE	342.65	ZAC	85.89	ETC	127.57	CLP	64.14

PLANETOCENTRIC CONIC

C3	276.720	VHL	16.635	DLA	-83.13	RAL	341.92	RAD	6571.6	VEL	19.951	PTH	3.14	VHP	21.522	DPA	73.45	RAP	299.92	ECC	5.5541

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
7.81	10 40 4	2359.57	6.62	85.07	251.11	173.08	11 19 24	1759.6	14.56	84.50
172.19	22 8 28	5842.02	6.63	257.97	251.13	173.08	23 45 50	5242.0	14.57	257.40
7.81	10 40 4	2359.57	6.62	85.07	251.11	173.08	11 19 24	1759.6	14.56	84.50
172.19	22 8 28	5842.02	6.63	257.97	251.13	173.08	23 45 50	5242.0	14.57	257.40
7.81	10 40 4	2359.57	6.62	85.07	251.11	173.08	11 19 24	1759.6	14.56	84.50
172.19	22 8 28	5842.02	6.63	257.97	251.13	173.08	23 45 50	5242.0	14.57	257.40

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-1.1183	TRA	-1.3579	TC3	-.2309	BAU	1.0847	SGT	4002.4	SGR	2794.0	SG3	101.6	ST	1234.6	SR	1240.0	SS	762.1
RDE	2.8343	RRA	.8850	RC3	.1807	FAU	-.02046	RRT	-.9656	RRF	.9861	RTF	-.9950	CRT	-.8314	CRS	-.9511	CST	.9624
FDE	.6645	FRA	.3936	FC3	.0640	BSP	15229	SGB	4881.2	R23	-.0123	R13	.9997	LSA	1839.6	MSA	508.2	SSA	1.3
BDE	3.0469	BRA	1.6208	BC3	.2932	FSP	-322	SG1	4844.1	SG2	600.4	THA	145.41	EL1	1674.4	EL2	508.0	ALF	134.85

LAUNCH DATE SEP 17 1965 FLIGHT TIME 166.00 ARRIVAL DATE MAR 2 1966

HELIOCENTRIC CONIC DISTANCE 440.175

RL 150.35 LAL .00 LOL 353.90 VL 27.293 GAL 4.59 AZL 111.56 HCA 188.92 SMA 130.05 ECC .17497 INC21.5616 V1 29.636
RP 107.75 LAP 3.27 LOP 182.20 VP 37.986 GAP -2.03 AZP 68.68 TAL 157.40 TAP 346.31 RCA 107.29 APO 152.80 V2 35.171
RC 62.133 GL -63.07 GP 83.93 ZAL 76.31 ZAP 83.93 ETS 274.83 ZAE 100.91 ETE 33.36 ZAC 76.70 ETC 176.59 CLP 1.30

PLANETOCENTRIC CONIC

C3 125.757 VHL 11.214 DLA -78.73 RAL 353.93 RAD 6570.3 VEL 15.719 PTH 2.79 VHP 14.455 DPA 64.46 RAP 292.15 ECC 3.0696

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
12.82	11 37 43	2227.02	15.01	80.92	260.86	168.33	12 14 50	1627.0	22.83	79.59
167.18	22 46 39	5720.75	15.01	258.66	260.88	168.33	24 22 0	5120.7	22.84	257.32
12.82	11 37 43	2227.02	15.01	80.92	260.86	168.33	12 14 50	1627.0	22.83	79.59
167.18	22 46 39	5720.75	15.01	258.66	260.88	168.33	24 22 0	5120.7	22.84	257.32
12.82	11 37 43	2227.02	15.01	80.92	260.86	168.33	12 14 50	1627.0	22.83	79.59
167.18	22 46 39	5720.75	15.01	258.66	260.88	168.33	24 22 0	5120.7	22.84	257.32

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE-3.9631 TRA-1.6319 TC3 -.1737 BAU .2923 SGT 4738.8 SGR 1667.7 SG3 144.7 ST 2395.5 SR 520.2 SS 1018.9
RDE -.2922 RRA -.6352 RC3 .0076 FAU-.00457 RRT .9341 RRF -.9463 RTF -.9988 CRT .7544 CRS .7766 CST .9994
FDE 1.3196 FRA .5857 FC3 .0315 BSP 15857 SGB 5023.7 R23 .0004 R13 -.9995 LSA 2633.2 MSA 337.0 SSA 1.9
BDE 3.9738 BRA 1.7511 BC3 .1739 FSP -464 SG1 4991.8 SG2 565.2 THA 18.44 EL1 2428.1 EL2 336.8 ALF 9.49

LAUNCH DATE SEP 17 1965 FLIGHT TIME 168.00 ARRIVAL DATE MAR 4 1966

HELIOCENTRIC CONIC DISTANCE 446.464

RL 150.35 LAL .00 LOL 353.90 VL 27.309 GAL 4.59 AZL 105.66 HCA 191.97 SMA 130.16 ECC .17410 INC15.6560 V1 29.636
RP 107.78 LAP 3.21 LOP 185.43 VP 37.988 GAP -1.59 AZP 74.67 TAL 157.24 TAP 349.21 RCA 107.50 APO 152.82 V2 35.160
RC 64.180 GL -59.48 GP 80.62 ZAL 71.85 ZAP 83.41 ETS 308.70 ZAE 106.78 ETE 64.90 ZAC 70.51 ETC 205.94 CLP -45.24

PLANETOCENTRIC CONIC

C3 72.724 VHL 8.528 DLA -74.19 RAL 348.66 RAD 6569.4 VEL 13.931 PTH 2.54 VHP 10.892 DPA 58.06 RAP 290.09 ECC 2.1968

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
18.03	11 27 6	2099.56	22.44	75.19	251.93	162.85	12 2 5	1499.6	30.06	72.89
161.97	22 15 11	5611.26	22.45	258.07	251.95	162.85	23 48 43	5011.3	30.07	255.77
18.03	11 27 6	2099.56	22.44	75.19	251.93	162.85	12 2 5	1499.6	30.06	72.89
161.97	22 15 11	5611.26	22.45	258.07	251.95	162.85	23 48 43	5011.3	30.07	255.77
18.03	11 27 6	2099.56	22.44	75.19	251.93	162.85	12 2 5	1499.6	30.06	72.89
161.97	22 15 11	5611.26	22.45	258.07	251.95	162.85	23 48 43	5011.3	30.07	255.77

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE-2.0798 TRA-1.1124 TC3 -.0800 BAU .1221 SGT 3081.3 SGR 4053.3 SG3 204.7 ST 1621.6 SR 1553.6 SS 982.7
RDE-1.5108 RRA-1.5901 RC3 .0967 FAU .00562 RRT .9728 RRF -.9957 RTF -.9879 CRT .9471 CRS .9864 CST .9869
FDE 1.1947 FRA .9029 FC3 -.0668 BSP 15991 SGB 5091.5 R23 -.0015 R13 -.9992 LSA 2424.0 MSA 364.9 SSA 2.7
BDE 2.5706 BRA 1.9406 BC3 .1755 FSP -654 SG1 5059.3 SG2 571.9 THA 52.96 EL1 2215.9 EL2 364.8 ALF 43.70

LAUNCH DATE SEP 17 1965 FLIGHT TIME 170.00 ARRIVAL DATE MAR 6 1966

HELIOCENTRIC CONIC DISTANCE 452.818

RL 150.35 LAL .00 LOL 353.90 VL 27.322 GAL 4.59 AZL 102.15 HCA 195.09 SMA 130.25 ECC .17339 INC12.1467 V1 29.636
RP 107.81 LAP 3.14 LOP 188.67 VP 37.987 GAP -1.15 AZP 78.26 TAL 157.10 TAP 352.20 RCA 107.67 APO 152.84 V2 35.149
RC 66.268 GL -54.99 GP 76.29 ZAL 67.66 ZAP 83.72 ETS 325.44 ZAE 111.32 ETE 79.73 ZAC 65.61 ETC 218.28 CLP -62.54

PLANETOCENTRIC CONIC

C3 48.952 VHL 6.997 DLA -69.64 RAL 342.72 RAD 6568.8 VEL 13.050 PTH 2.38 VHP 8.811 DPA 52.97 RAP 288.92 ECC 1.8056

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
23.28	11 14 24	1990.76	27.89	68.28	241.39	156.82	11 47 35	1390.8	35.19	64.86
156.72	21 40 32	5527.57	27.89	256.57	241.41	156.82	23 12 40	4927.6	35.20	253.14
23.28	11 14 24	1990.76	27.89	68.28	241.39	156.82	11 47 35	1390.8	35.19	64.86
156.72	21 40 32	5527.57	27.89	256.57	241.41	156.82	23 12 40	4927.6	35.20	253.14
23.28	11 14 24	1990.76	27.89	68.28	241.39	156.82	11 47 35	1390.8	35.19	64.86
156.72	21 40 32	5527.57	27.89	256.57	241.41	156.82	23 12 40	4927.6	35.20	253.14

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE-1.1357 TRA -.6776 TC3 -.0791 BAU .2079 SGT 1849.8 SGR 4763.0 SG3 277.4 ST 1045.9 SR 1703.8 SS 960.5
RDE-1.1993 RRA-1.9713 RC3 .3077 FAU .01471 RRT .9385 RRF -.9976 RTF -.9531 CRT .8864 CRS .9905 CST .9415
FDE 1.0525 FRA 1.3045 FC3 -.2602 BSP 16085 SGB 5109.6 R23 .0051 R13 -.9988 LSA 2177.4 MSA 422.3 SSA 3.5
BDE 1.6517 BRA 2.0845 BC3 .3177 FSP -891 SG1 5074.3 SG2 599.7 THA 69.68 EL1 1954.2 EL2 422.2 ALF 59.90

LAUNCH DATE SEP 17 1965 FLIGHT TIME 172.00 ARRIVAL DATE MAR 8 1966

HELIOCENTRIC CONIC DISTANCE 459.189

RL 150.35 LAL .00 LOL 353.90 VL 27.333 GAL 4.60 AZL 99.83 HCA 198.25 SMA 130.32 ECC .17288 INC 9.8251 V1 29.636
RP 107.85 LAP 3.06 LOP 191.90 VP 37.984 GAP -.70 AZP 80.66 TAL 156.97 TAP 355.22 RCA 107.79 APO 152.85 V2 35.138
RC 68.394 GL -50.33 GP 72.29 ZAL 63.83 ZAP 84.83 ETS 336.28 ZAE 115.00 ETE 89.17 ZAC 61.35 ETC 224.95 CLP -72.76

PLANETOCENTRIC CONIC

C3 36.476 VHL 6.040 DLA -65.15 RAL 337.95 RAD 6568.4 VEL 12.564 PTH 2.28 VHP 7.472 DPA 48.61 RAP 287.83 ECC 1.6003

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
28.51	11 7 2	1900.18	31.34	60.69	231.57	150.53	11 38 42	1300.2	38.21	56.11
151.49	21 9 52	5469.97	31.35	254.67	231.58	150.53	22 41 2	4870.0	38.21	250.09
28.51	11 7 2	1900.18	31.34	60.69	231.57	150.53	11 38 42	1300.2	38.21	56.11
151.49	21 9 52	5469.97	31.35	254.67	231.58	150.53	22 41 2	4870.0	38.21	250.09
28.51	11 7 2	1900.18	31.34	60.69	231.57	150.53	11 38 42	1300.2	38.21	56.11
151.49	21 9 52	5469.97	31.35	254.67	231.58	150.53	22 41 2	4870.0	38.21	250.09

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.7049 TRA -.3266 TC3 -.1513 BAU .2750 SGT 1012.1 SGR 5004.8 SG3 359.4 ST 704.4 SR 1687.9 SS 975.2
RDE -.8792 RRA-2.1663 RC3 .5433 FAU .02353 RRT .7984 RRF -.9980 RTF -.8171 CRT .7420 CRS .9908 CST .8257
FDE .9665 FRA 1.7721 FC3 -.5584 BSP 16078 SGB 5106.1 R23 .0143 R13 -.9984 LSA 2022.9 MSA 451.6 SSA 4.4
BDE 1.1269 BRA 2.1908 BC3 .5639 FSP -1158 SG1 5070.5 SG2 601.5 THA 80.70 EL1 1772.9 EL2 449.6 ALF 71.57

LAUNCH DATE SEP 17 1965 FLIGHT TIME 174.00 ARRIVAL DATE MAR 10 1966

HELIOCENTRIC CONIC DISTANCE 465.560

RL	150.35	LAL	.00	LOL	353.90	VL	27.341	GAL	4.62	AZL	98.17	HCA	201.43	SMA	130.38	ECC	.17259	INC	8.1716	VI	29.636
RP	107.89	LAP	2.98	LOP	195.13	VP	37.979	GAP	-.26	AZP	82.39	TAL	156.82	TAP	358.25	RCA	107.88	APO	152.88	V2	35.126
RC	70.553	GL	-45.79	GP	68.60	ZAL	60.36	ZAP	86.64	ETS	344.69	ZAE	118.04	ETE	96.74	ZAC	57.43	ETC	229.49	CLP	-80.75

PLANETOCENTRIC CONIC

C3	29.208	VHL	5.404	DLA	-60.80	RAL	334.30	RAD	6568.2	VEL	12.271	PTH	2.21	VHP	6.553	DPA	44.68	RAP	286.63	ECC	1.4807		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
33.65	11 4 41	1823.74	33.14	52.92	222.89	144.37	11 35 5	1223.7	39.50	47.30
146.35	20 43 2	5434.52	33.15	252.87	222.90	144.36	22 13 36	4834.5	39.51	247.25
33.65	11 4 41	1823.74	33.14	52.92	222.89	144.37	11 35 5	1223.7	39.50	47.30
146.35	20 43 2	5434.52	33.15	252.87	222.90	144.36	22 13 36	4834.5	39.51	247.25
33.65	11 4 41	1823.74	33.14	52.92	222.89	144.37	11 35 5	1223.7	39.50	47.30
146.35	20 43 2	5434.52	33.15	252.87	222.90	144.36	22 13 36	4834.5	39.51	247.25

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-.4733	TRA	-.0036	TC3	-.2841	BAU	.3202	SGT	588.4	SGR	5054.5	SG3	446.6	ST	501.9	SR	1643.4	SS	1015.0				
RDE	-.6729	RRA	-2.2703	RC3	.7692	FAU	.03222	RRT	.0476	RRF	-.9979	RTF	-.0730	CRT	.4380	CRS	.9901	CST	.5594				
FDE	.9400	FRA	2.2847	FC3	-.9551	BSP	16041	SGB	5088.6	R23	.0249	R13	-.9979	LSA	1943.1	MSA	455.3	SSA	5.2				
BDE	.8227	BRA	2.2703	BC3	.8200	FSP	-1447	SG1	5054.6	SG2	587.7	THA	89.68	EL1	1659.2	EL2	446.9	ALF	81.78				

LAUNCH DATE SEP 17 1965 FLIGHT TIME 176.00 ARRIVAL DATE MAR 12 1966

HELIOCENTRIC CONIC DISTANCE 471.922

RL	150.35	LAL	.00	LOL	353.90	VL	27.346	GAL	4.65	AZL	96.93	HCA	204.61	SMA	130.42	ECC	.17252	INC	6.9291	VI	29.636
RP	107.92	LAP	2.88	LOP	198.35	VP	37.971	GAP	.18	AZP	83.70	TAL	156.64	TAP	1.26	RCA	107.92	APO	152.92	V2	35.114
RC	72.741	GL	-41.46	GP	65.12	ZAL	57.24	ZAP	89.06	ETS	351.76	ZAE	120.57	ETE	103.60	ZAC	53.70	ETC	233.06	CLP	-87.77

PLANETOCENTRIC CONIC

C3	24.665	VHL	4.966	DLA	-56.66	RAL	331.49	RAD	6568.0	VEL	12.085	PTH	2.16	VHP	5.898	DPA	41.02	RAP	285.32	ECC	1.4059		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
38.63	11 6 26	1757.08	33.71	45.32	215.44	138.65	11 35 43	1157.1	39.53	38.89
141.37	20 18 55	5417.27	33.72	251.54	215.46	138.64	21 49 12	4817.3	39.54	245.11
38.63	11 6 26	1757.08	33.71	45.32	215.44	138.65	11 35 43	1157.1	39.53	38.89
141.37	20 18 55	5417.27	33.72	251.54	215.46	138.64	21 49 12	4817.3	39.54	245.11
38.63	11 6 26	1757.08	33.71	45.32	215.44	138.65	11 35 43	1157.1	39.53	38.89
141.37	20 18 55	5417.27	33.72	251.54	215.46	138.64	21 49 12	4817.3	39.54	245.11

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-.3252	TRA	.3106	TC3	-.4685	BAU	.3524	SGT	884.6	SGR	4990.7	SG3	534.8	ST	423.3	SR	1589.8	SS	1069.2				
RDE	-.5504	RRA	-2.3141	RC3	.9603	FAU	.04051	RRT	-.7640	RRF	-.9978	RTF	.7489	CRT	-.0702	CRS	.9888	CST	.0790				
FDE	.9665	FRA	2.8214	FC3	-1.4220	BSP	15972	SGB	5068.5	R23	.0361	R13	-.9973	LSA	1911.3	MSA	443.4	SSA	6.0				
BDE	.6393	BRA	2.3349	BC3	1.0685	FSP	-1742	SG1	5036.8	SG2	565.5	THA	97.81	EL1	1590.1	EL2	422.2	ALF	91.15				

LAUNCH DATE SEP 17 1965 FLIGHT TIME 178.00 ARRIVAL DATE MAR 14 1966

HELIOCENTRIC CONIC DISTANCE 478.269

RL	150.35	LAL	.00	LOL	353.90	VL	27.349	GAL	4.69	AZL	95.96	HCA	207.80	SMA	130.44	ECC	.17268	INC	5.9566	VI	29.636
RP	107.96	LAP	2.77	LOP	201.57	VP	37.962	GAP	.62	AZP	84.73	TAL	156.43	TAP	4.24	RCA	107.92	APO	152.97	V2	35.101
RC	74.954	GL	-37.40	GP	61.76	ZAL	54.45	ZAP	92.00	ETS	357.92	ZAE	122.62	ETE	110.14	ZAC	50.06	ETC	236.06	CLP	-94.24

PLANETOCENTRIC CONIC

C3	21.692	VHL	4.658	DLA	-52.74	RAL	329.32	RAD	6567.9	VEL	11.961	PTH	2.13	VHP	5.422	DPA	37.52	RAP	283.93	ECC	1.3570		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
43.44	11 11 26	1696.67	33.40	38.07	209.20	133.52	11 39 42	1096.7	38.69	31.06
136.56	19 56 34	5415.08	33.42	250.91	209.22	133.51	21 26 49	4815.1	38.71	243.89
43.44	11 11 26	1696.67	33.40	38.07	209.20	133.52	11 39 42	1096.7	38.69	31.06
136.56	19 56 34	5415.08	33.42	250.91	209.22	133.51	21 26 49	4815.1	38.71	243.89
43.44	11 11 26	1696.67	33.40	38.07	209.20	133.52	11 39 42	1096.7	38.69	31.06
136.56	19 56 34	5415.08	33.42	250.91	209.22	133.51	21 26 49	4815.1	38.71	243.89

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-.2131	TRA	.6208	TC3	-.6925	BAU	.3767	SGT	1440.9	SGR	4848.7	SG3	620.1	ST	460.8	SR	1530.1	SS	1132.2				
RDE	-.4811	RRA	-2.3140	RC3	1.0991	FAU	.04799	RRT	-.9214	RRF	-.9976	RTF	.9123	CRT	-.5379	CRS	.9871	CST	-.3962				
FDE	1.0403	FRA	3.3624	FC3	-1.9151	BSP	15840	SGB	5058.2	R23	.0471	R13	-.9966	LSA	1911.8	MSA	424.8	SSA	6.8				
BDE	.5262	BRA	2.3958	BC3	1.2990	FSP	-2022	SG1	5029.3	SG2	540.0	THA	105.50	EL1	1551.4	EL2	383.1	ALF	99.81				

LAUNCH DATE SEP 17 1965 FLIGHT TIME 180.00 ARRIVAL DATE MAR 16 1966

HELIOCENTRIC CONIC DISTANCE 484.598

RL	150.35	LAL	.00	LOL	353.90	VL	27.351	GAL	4.74	AZL	95.17	HCA	211.00	SMA	130.45	ECC	.17306	INC	5.1708	VI	29.636
RP	108.00	LAP	2.66	LOP	204.79	VP	37.952	GAP	1.06	AZP	85.56	TAL	156.19	TAP	7.19	RCA	107.88	APO	153.03	V2	35.089
RC	77.191	GL	-33.61	GP	58.47	ZAL	51.96	ZAP	95.36	ETS	3.33	ZAE	124.24	ETE	116.50	ZAC	46.49	ETC	238.65	CLP	-100.29

PLANETOCENTRIC CONIC

C3	19.694	VHL	4.438	DLA	-49.07	RAL	327.61	RAD	6567.8	VEL	11.877	PTH	2.11	VHP	5.073	DPA	34.14	RAP	282.50	ECC	1.3241		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
48.09	11 19 14	1639.59	32.50	31.21	204.06	129.03	11 46 34	1039.6	37.30	23.82
131.91	19 35 10	5425.88	32.52	251.09	204.07	129.02	21 5 36	4825.9	37.31	243.69
48.09	11 19 14	1639.59	32.50	31.21	204.06	129.03	11 46 34	1039.6	37.30	23.82
131.91	19 35 10	5425.88	32.52	251.09	204.07	129.02	21 5 36	4825.9	37.31	243.69
48.09	11 19 14	1639.59	32.50	31.21	204.06	129.03	11 46 34	1039.6	37.30	23.82
131.91	19 35 10	5425.88	32.52	251.09	204.07	129.02	21 5 36	4825.9	37.31	243.69

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-.1159	TRA	.9249	TC3	-.9407	BAU	.3993	SGT	2010.5	SGR	4635.3	SG3	696.6	ST	567.5	SR	1457.2	SS	1194.0				
RDE	-.4365	RRA	-2.2722	RC3	1.1898	FAU	.05473	RRT	-.9615	RRF	-.9973	RTF	.9548	CRT	-.7874	CRS	.9848	CST	-.6685				
FDE	1.1414	FRA	3.8734	FC3	-2.4060	BSP	15803	SGB	5052.5	R23	.0572	R13	-.9957	LSA	1925.5	MSA	403.9	SSA	7.6				
BDE	.4516	BRA	2.4533	BC3	1.5168	FSP	-2288	SG1	5026.7	SG2	509.8	THA	112.89	EL1	1527.8	EL2	333.7	ALF	107.93				

LAUNCH DATE SEP 17 1965 FLIGHT TIME 182.00 ARRIVAL DATE MAR 18 1966

HELIOCENTRIC CONIC DISTANCE 490.907

RL	150.35	LAL	.00	LOL	353.90	VL	27.350	GAL	4.81	AZL	94.52	HCA	214.20	SMA	130.45	ECC	.17367	INC	4.5192
RP	108.04	LAP	2.54	LOP	208.01	VP	37.939	GAP	1.49	AZP	86.26	TAL	155.92	TAP	10.11	RCA	107.79	APO	153.10
RC	79.446	GL	-30.09	GP	55.23	ZAL	49.73	ZAP	99.02	ETS	8.05	ZAE	125.43	ETE	122.64	ZAC	42.98	ETC	240.86

VI	29.636	V2	35.076	CLP	-105.96														

PLANETOCENTRIC CONIC

C3	18.340	VHL	4.282	DLA	-45.64	RAL	326.27	RAD	6567.7	VEL	11.820	PTH	2.09	VHP	4.822	DPA	30.83	RAP	281.11

ECC	1.3018																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
52.59	11 29 38	1583.48	31.22	24.68	199.89	125.15	11 56 1	983.5	35.58	17.05
127.41	19 14 3	5448.39	31.24	252.11	199.90	125.14	20 44 51	4848.4	35.59	244.49
52.59	11 29 38	1583.48	31.22	24.68	199.89	125.15	11 56 1	983.5	35.58	17.05
127.41	19 14 3	5448.39	31.24	252.11	199.90	125.14	20 44 51	4848.4	35.59	244.49
52.59	11 29 38	1583.48	31.22	24.68	199.89	125.15	11 56 1	983.5	35.58	17.05
127.41	19 14 3	5448.39	31.24	252.11	199.90	125.14	20 44 51	4848.4	35.59	244.49

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-.0236	TRA	1.2204	TC3	-1.1991	BAU	.4209	SGT	2551.2	SGR	4373.6	SG3	761.0	ST	701.9	SR	1375.1	SS	1252.9
RDE	-.4056	RRA	-2.2003	RC3	1.2287	FAU	.06034	RRT	-.9765	RRF	-.9968	RTF	.9710	CRT	-.9000	CRS	.9820	CST	-.8015
FDE	1.2616	FRA	4.3345	FC3	-2.8483	BSP	15837	SGB	5063.3	R23	.0655	R13	-.9947	LSA	1951.0	MSA	383.4	SSA	8.4
BDE	.4063	BRA	2.5161	BC3	1.7168	FSP	-2524	SG1	5040.7	SG2	477.5	THA	119.96	EL1	1518.8	EL2	277.1	ALF	115.59

LAUNCH DATE SEP 17 1965 FLIGHT TIME 184.00 ARRIVAL DATE MAR 20 1966

HELIOCENTRIC CONIC DISTANCE 497.194

RL	150.35	LAL	.00	LOL	353.90	VL	27.347	GAL	4.90	AZL	93.97	HCA	217.39	SMA	130.43	ECC	.17450	INC	3.9668
RP	108.08	LAP	2.41	LOP	211.22	VP	37.925	GAP	1.92	AZP	86.85	TAL	155.60	TAP	13.00	RCA	107.67	APO	153.19
RC	81.719	GL	-26.84	GP	52.03	ZAL	47.75	ZAP	102.90	ETS	12.16	ZAE	126.23	ETE	128.51	ZAC	39.54	ETC	242.68

VI	29.636	V2	35.063	CLP	-111.27														

PLANETOCENTRIC CONIC

C3	17.435	VHL	4.176	DLA	-42.43	RAL	325.21	RAD	6567.7	VEL	11.782	PTH	2.08	VHP	4.647	DPA	27.59	RAP	279.79

ECC	1.2869																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
56.98	11 42 36	1526.12	29.71	18.33	196.56	121.80	12 8 3	926.1	33.68	10.57
123.02	18 52 36	5482.21	29.73	254.01	196.57	121.79	20 23 58	4882.2	33.69	246.26
56.98	11 42 36	1526.12	29.71	18.33	196.56	121.80	12 8 3	926.1	33.68	10.57
123.02	18 52 36	5482.21	29.73	254.01	196.57	121.79	20 23 58	4882.2	33.69	246.26
56.98	11 42 36	1526.12	29.71	18.33	196.56	121.80	12 8 3	926.1	33.68	10.57
123.02	18 52 36	5482.21	29.73	254.01	196.57	121.79	20 23 58	4882.2	33.69	246.26

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	.0688	TRA	1.5058	TC3	-1.4522	BAU	.4419	SGT	3052.3	SGR	4081.7	SG3	810.9	ST	845.9	SR	1287.0	SS	1307.8
RDE	-.3813	RRA	-2.1076	RC3	1.2186	FAU	.06448	RRT	-.9834	RRF	-.9963	RTF	.9786	CRT	-.9531	CRS	.9785	CST	-.8704
FDE	1.3914	FRA	4.7294	FC3	-3.2015	BSP	15912	SGB	5096.7	R23	.0711	R13	-.9938	LSA	1987.2	MSA	364.7	SSA	9.1
BDE	.3875	BRA	2.5903	BC3	1.8658	FSP	-2712	SG1	5077.3	SG2	445.3	THA	126.66	EL1	1524.9	EL2	216.0	ALF	122.81

LAUNCH DATE SEP 17 1965 FLIGHT TIME 186.00 ARRIVAL DATE MAR 22 1966

HELIOCENTRIC CONIC DISTANCE 503.459

RL	150.35	LAL	.00	LOL	353.90	VL	27.343	GAL	5.00	AZL	93.49	HCA	220.59	SMA	130.40	ECC	.17555	INC	3.4901
RP	108.12	LAP	2.27	LOP	214.43	VP	37.910	GAP	2.35	AZP	87.35	TAL	155.26	TAP	15.84	RCA	107.51	APO	153.29
RC	84.008	GL	-23.82	GP	48.89	ZAL	45.98	ZAP	106.88	ETS	15.68	ZAE	126.65	ETE	134.04	ZAC	36.22	ETC	244.07

VI	29.636	V2	35.050	CLP	-116.22														

PLANETOCENTRIC CONIC

C3	16.862	VHL	4.106	DLA	-39.44	RAL	324.37	RAD	6567.7	VEL	11.758	PTH	2.08	VHP	4.535	DPA	24.44	RAP	278.61

ECC	1.2775																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
61.32	11 58 26	1465.05	28.07	11.99	193.93	118.92	12 22 51	865.1	31.70	4.17
118.68	18 30 6	5527.84	28.09	256.84	193.94	118.91	20 2 14	4927.8	31.71	249.02
61.32	11 58 26	1465.05	28.07	11.99	193.93	118.92	12 22 51	865.1	31.70	4.17
118.68	18 30 6	5527.84	28.09	256.84	193.94	118.91	20 2 14	4927.8	31.71	249.02
61.32	11 58 26	1465.05	28.07	11.99	193.93	118.92	12 22 51	865.1	31.70	4.17
118.68	18 30 6	5527.84	28.09	256.84	193.94	118.91	20 2 14	4927.8	31.71	249.02

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	.1635	TRA	1.7801	TC3	-1.6881	BAU	.4629	SGT	3509.5	SGR	3774.0	SG3	844.7	ST	992.3	SR	1194.9	SS	1356.6
RDE	-.3589	RRA	-2.0010	RC3	1.1694	FAU	.06708	RRT	-.9870	RRF	-.9955	RTF	.9827	CRT	-.9799	CRS	.9743	CST	-.9098
FDE	1.5208	FRA	5.0449	FC3	-3.4440	BSP	16057	SGB	5153.6	R23	.0733	R13	-.9928	LSA	2032.6	MSA	348.3	SSA	9.8
BDE	.3944	BRA	2.6782	BC3	2.0536	FSP	-2849	SG1	5136.8	SG2	414.9	THA	132.89	EL1	1545.6	EL2	153.2	ALF	129.60

LAUNCH DATE SEP 17 1965 FLIGHT TIME 188.00 ARRIVAL DATE MAR 24 1966

HELIOCENTRIC CONIC DISTANCE 509.700

RL	150.35	LAL	.00	LOL	353.90	VL	27.337	GAL	5.11	AZL	93.07	HCA	223.79	SMA	130.36	ECC	.17682	INC	3.0720
RP	108.16	LAP	2.13	LOP	217.64	VP	37.894	GAP	2.77	AZP	87.78	TAL	154.87	TAP	18.65	RCA	107.31	APO	153.41
RC	86.309	GL	-21.02	GP	45.85	ZAL	44.38	ZAP	110.90	ETS	18.69	ZAE	126.75	ETE	139.14	ZAC	33.04	ETC	244.98

VI	29.636	V2	35.036	CLP	-120.81														

PLANETOCENTRIC CONIC

C3	16.544	VHL	4.067	DLA	-36.65	RAL	323.72	RAD	6567.7	VEL	11.744	PTH	2.07	VHP	4.475	DPA	21.39	RAP	277.60

ECC	1.2723																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
65.69	12 17 42	1397.24	26.38	5.41	191.90	116.42	12 41 0	797.2	29.70	357.58
114.31	18 5 38	5586.91	26.39	260.69	191.91	116.41	19 38 45	4986.9	29.71	252.86
65.69	12 17 42	1397.24	26.38	5.41	191.90	116.42	12 41 0	797.2	29.70	357.58
114.31	18 5 38	5586.91	26.39	260.69	191.91	116.41	19 38 45	4986.9	29.71	252.86
65.69	12 17 42	1397.24	26.38	5.41	191.90	116.42	12 41 0	797.2	29.70	357.58
114.31	18 5 38	5586.91	26.39	260.69	191.91	116.41	19 38 45	4986.9	29.71	252.86

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	.2618	TRA	2.0434	TC3	-1.8970	BAU	.4839	SGT	3923.0	SGR	3464.4	SG3	862.4	ST	1138.7	SR	1102.1	SS	1399.0
RDE	-.3365	RRA	-1.8882	RC3	1.0901	FAU	.06805	RRT	-.9887	RRF	-.9945	RTF	.9851	CRT	-.9933	CRS	.9690	CST	-.9343
FDE	1.6432	FRA	5.2781	FC3	-3.5612	BSP	16245	SGB	5233.7	R23	.0720	R13	-.9919	LSA	2087.2	MSA	334.6	SSA	10.5
BDE	.4264	BRA	2.7823	BC3	2.1880	FSP	-2924	SG1	5219.2	SG2	389.6	THA	138.59	EL1	1582.0	EL2	91.6	ALF	135.94

LAUNCH DATE SEP 17 1965 FLIGHT TIME 190.00 ARRIVAL DATE MAR 26 1966

DISTANCE 515.917

HELIOCENTRIC CONIC

RL 150.35 LAL .00 LOL 353.90 VL 27.330 GAL 5.24 AZL 92.70 HCA 226.98 SMA 130.31 ECC .17831 INC 2.7002 V1 29.636
RP 108.20 LAP 1.97 LOP 220.84 VP 37.876 GAP 3.20 AZP 88.16 TAL 154.45 TAP 21.43 RCA 107.07 APO 153.54 V2 35.023
RC 88.623 GL -18.44 GP 42.92 ZAL 42.95 ZAP 114.87 ETS 21.25 ZAE 126.56 ETE 143.78 ZAC 30.04 ETC 245.36 CLP-125.05

PLANETOCENTRIC CONIC

C3 16.431 VHL 4.054 DLA -34.05 RAL 323.22 RAD 6567.7 VEL 11.739 PTH 2.07 VHP 4.458 DPA 18.47 RAP 276.78 ECC 1.2704

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
70.25	12 41 32	1318.09	24.67	358.24	190.38	114.25	13 3 30	718.1	27.73	350.42
109.75	17 37 49	5662.93	24.68	265.82	190.38	114.23	19 12 12	5062.9	27.74	258.00
70.25	12 41 32	1318.09	24.67	358.24	190.38	114.25	13 3 30	718.1	27.73	350.42
109.75	17 37 49	5662.93	24.68	265.82	190.38	114.23	19 12 12	5062.9	27.74	258.00
110.00	17 16 18	5728.56	22.73	269.94	189.38	116.25	18 51 46	5128.6	26.07	262.37
110.00	18 2 14	5588.50	26.66	260.95	191.32	112.24	19 35 22	4988.5	29.43	252.87

DIFFERENTIAL CORRECTIONS

TDE .3623 TRA 2.2954 TC3-2.0758 BAU .5059
RDE -.3107 RRA-1.7723 RC3 .9974 FAU .06785
FDE 1.7451 FRA 5.4244 FC3-3.5749 BSP 16554
BDE .4773 BRA 2.9000 BC3 2.3030 FSP -2959

MID-COURSE EXECUTION ACCURACY

SGT 4292.8 SGR 3160.3 SG3 864.5
RRT -.9895 RRF -.9931 RTF .9866
SGB 5330.7 R23 .0667 R13 -.9912
SG1 5317.9 SG2 367.9 THA 143.73

ORBIT DETERMINATION ACCURACY

ST 1282.5 SR 1008.0 SS 1430.9
CRT -.9991 CRS .9623 CST -.9506
LSA 2145.7 MSA 323.1 SSA 11.2
EL1 1630.9 EL2 33.7 ALF 141.84

LAUNCH DATE SEP 17 1965 FLIGHT TIME 192.00 ARRIVAL DATE MAR 28 1966

DISTANCE 522.108

HELIOCENTRIC CONIC

RL 150.35 LAL .00 LOL 353.90 VL 27.321 GAL 5.38 AZL 92.37 HCA 230.17 SMA 130.25 ECC .18003 INC 2.3655 V1 29.636
RP 108.24 LAP 1.82 LOP 224.05 VP 37.857 GAP 3.62 AZP 88.48 TAL 153.99 TAP 24.16 RCA 106.80 APO 153.69 V2 35.010
RC 90.946 GL -16.05 GP 40.13 ZAL 41.65 ZAP 118.74 ETS 23.41 ZAE 126.16 ETE 147.91 ZAC 27.24 ETC 245.13 CLP-128.98

PLANETOCENTRIC CONIC

C3 16.491 VHL 4.061 DLA -31.62 RAL 322.85 RAD 6567.7 VEL 11.742 PTH 2.07 VHP 4.480 DPA 15.70 RAP 276.18 ECC 1.2714

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
75.30	13 12 40	1217.98	22.99	349.76	189.28	112.33	13 32 58	618.0	25.81	341.96
104.70	17 3 44	5764.72	23.00	272.85	189.29	112.32	18 39 49	5164.7	25.82	265.04
75.30	13 12 40	1217.98	22.99	349.76	189.28	112.33	13 32 58	618.0	25.81	341.96
104.70	17 3 44	5764.72	23.00	272.85	189.29	112.32	18 39 49	5164.7	25.82	265.04
110.00	15 58 14	680.61	14.83	306.16	184.95	121.16	16 9 35	80.6	18.85	299.35
110.00	19 17 20	5350.08	31.69	244.25	192.45	103.55	20 46 31	4750.1	33.22	235.36

DIFFERENTIAL CORRECTIONS

TDE .4661 TRA 2.5380 TC3-2.2199 BAU .5278
RDE -.2834 RRA-1.6591 RC3 .8958 FAU .06642
FDE 1.8288 FRA 5.4953 FC3-3.4868 BSP 16917
BDE .5455 BRA 3.0322 BC3 2.3538 FSP -2947

MID-COURSE EXECUTION ACCURACY

SGT 4622.5 SGR 2871.6 SG3 853.5
RRT -.9895 RRF -.9914 RTF .9875
SGB 5441.8 R23 .0587 R13 -.9907
SG1 5430.4 SG2 352.9 THA 148.27

ORBIT DETERMINATION ACCURACY

ST 1423.7 SR 916.8 SS 1454.7
CRT -.9995 CRS .9537 CST -.9620
LSA 2210.2 MSA 314.1 SSA 11.7
EL1 1693.2 EL2 24.9 ALF 147.23

LAUNCH DATE SEP 17 1965 FLIGHT TIME 194.00 ARRIVAL DATE MAR 30 1966

DISTANCE 528.273

HELIOCENTRIC CONIC

RL 150.35 LAL .00 LOL 353.90 VL 27.311 GAL 5.54 AZL 92.06 HCA 233.37 SMA 130.18 ECC .18198 INC 2.0608 V1 29.636
RP 108.29 LAP 1.65 LOP 227.24 VP 37.838 GAP 4.05 AZP 88.77 TAL 153.50 TAP 26.86 RCA 106.49 APO 153.86 V2 34.996
RC 93.279 GL -13.84 GP 37.51 ZAL 40.47 ZAP 122.47 ETS 25.24 ZAE 125.59 ETE 151.56 ZAC 24.68 ETC 244.21 CLP-132.60

PLANETOCENTRIC CONIC

C3 16.704 VHL 4.087 DLA -29.36 RAL 322.59 RAD 6567.7 VEL 11.751 PTH 2.07 VHP 4.533 DPA 13.08 RAP 275.79 ECC 1.2749

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
81.90	14 0 29	1065.70	21.35	337.69	188.56	110.65	14 18 15	465.7	23.97	329.91
98.10	16 13 51	634.82	21.36	306.06	188.56	110.64	16 24 26	34.8	23.98	298.28
100.00	15 41 9	739.62	17.72	312.22	186.96	114.48	15 53 29	139.6	20.87	304.84
100.00	17 15 53	5724.18	25.09	270.62	189.94	106.81	18 51 17	5124.2	27.15	262.43
110.00	15 20 49	803.63	10.39	312.93	182.85	122.75	15 34 13	203.6	14.64	306.40
110.00	19 52 41	5232.93	33.22	235.46	192.03	98.56	21 19 54	4632.9	34.05	226.32

DIFFERENTIAL CORRECTIONS

TDE .5726 TRA 2.7733 TC3-2.3290 BAU .5494
RDE -.2546 RRA-1.5519 RC3 .7928 FAU .06403
FDE 1.8916 FRA 5.5027 FC3-3.3184 BSP 17332
BDE .6267 BRA 3.1780 BC3 2.4603 FSP -2897

MID-COURSE EXECUTION ACCURACY

SGT 4916.1 SGR 2603.5 SG3 832.0
RRT -.9888 RRF -.9891 RTF .9881
SGB 5562.9 R23 .0489 R13 -.9902
SG1 5552.2 SG2 344.5 THA 152.25

ORBIT DETERMINATION ACCURACY

ST 1561.6 SR 829.8 SS 1470.2
CRT -.9954 CRS .9428 CST -.9702
LSA 2279.1 MSA 307.1 SSA 12.1
EL1 1766.9 EL2 70.6 ALF 152.08

LAUNCH DATE SEP 17 1965 FLIGHT TIME 196.00 ARRIVAL DATE APR 1 1966

DISTANCE 534.410

HELIOCENTRIC CONIC

RL 150.35 LAL .00 LOL 353.90 VL 27.300 GAL 5.72 AZL 91.78 HCA 236.56 SMA 130.10 ECC .18417 INC 1.7805 V1 29.636
RP 108.33 LAP 1.49 LOP 230.44 VP 37.818 GAP 4.47 AZP 89.02 TAL 152.97 TAP 29.53 RCA 106.14 APO 154.06 V2 34.983
RC 95.621 GL -11.79 GP 35.07 ZAL 39.38 ZAP 126.03 ETS 26.82 ZAE 124.91 ETE 154.74 ZAC 22.38 ETC 242.50 CLP-135.95

PLANETOCENTRIC CONIC

C3 17.055 VHL 4.130 DLA -27.25 RAL 322.43 RAD 6567.7 VEL 11.766 PTH 2.08 VHP 4.616 DPA 10.64 RAP 275.61 ECC 1.2807

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	13 58 16	1077.75	14.76	335.69	186.06	114.44	14 16 14	477.7	17.93	328.46
90.00	16 14 46	632.36	24.95	307.09	189.82	103.84	16 25 18	32.4	26.61	298.82
100.00	14 42 38	934.45	11.87	323.72	184.61	117.64	14 58 12	334.4	15.47	316.79
100.00	18 13 6	5538.93	28.10	257.69	190.58	100.65	19 45 25	4938.9	29.28	249.09
110.00	14 53 48	899.38	6.83	318.05	181.59	123.58	15 8 47	299.4	11.19	311.68
110.00	20 18 25	5146.76	33.90	228.83	191.49	94.69	21 44 12	4546.8	34.18	219.59

DIFFERENTIAL CORRECTIONS

TDE .6848 TRA 3.0062 TC3-2.3975 BAU .5688
RDE -.2265 RRA-1.4539 RC3 .6894 FAU .06058
FDE 1.9413 FRA 5.4646 FC3-3.0748 BSP 17701
BDE .7213 BRA 3.3393 BC3 2.4946 FSP -2803

MID-COURSE EXECUTION ACCURACY

SGT 5179.9 SGR 2360.2 SG3 803.2
RRT -.9872 RRF -.9863 RTF .9883
SGB 5692.3 R23 .0393 R13 -.9898
SG1 5682.0 SG2 342.6 THA 155.69

ORBIT DETERMINATION ACCURACY

ST 1699.1 SR 749.9 SS 1481.7
CRT -.9870 CRS .9292 CST -.9764
LSA 2356.6 MSA 301.6 SSA 12.5
EL1 1853.9 EL2 110.6 ALF 156.37

LAUNCH DATE SEP 17 1965 FLIGHT TIME 198.00 ARRIVAL DATE APR 3 1966

HELIOCENTRIC CONIC DISTANCE 540.519

RL 150.35 LAL .00 LOL 353.90 VL 27.288 GAL 5.91 AZL 91.52 HCA 239.74 SMA 130.01 ECC .18660 INC 1.5204 VI 29.636
RP 108.37 LAP 1.31 LOP 233.63 VP 37.797 GAP 4.90 AZP 89.23 TAL 152.42 TAP 32.16 RCA 105.75 APO 154.27 V2 34.970
RC 97.969 GL -9.90 GP 32.81 ZAL 38.39 ZAP 129.40 ETS 28.19 ZAE 124.16 ETE 157.49 ZAC 20.36 ETC 239.91 CLP-139.05

PLANETOCENTRIC CONIC

C3 17.538 VHL 4.188 DLA -25.28 RAL 322.35 RAD 6567.7 VEL 11.786 PTH 2.08 VHP 4.723 DPA 8.38 RAP 275.65 ECC 1.2886

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	13 11 19	1240.83	9.96	345.26	184.54	116.65	13 32 0	640.8	13.45	338.33
90.00	17 1 4	5770.23	26.98	274.48	190.27	98.94	18 37 14	5170.2	27.94	265.94
100.00	14 8 49	1055.16	7.97	330.56	183.48	118.91	14 26 24	455.2	11.77	323.83
100.00	18 46 15	5431.12	29.20	249.87	190.62	96.68	20 16 46	4831.1	29.82	241.12
110.00	14 32 28	980.97	3.74	322.34	180.88	124.00	14 48 49	381.0	8.17	316.07
110.00	20 39 6	5078.08	34.15	223.48	191.04	91.54	22 3 44	4478.1	33.99	214.24

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE .7968 TRA 3.2324 TC3-2.4404 BAU .5891 SGT 5411.5 SGR 2138.6 SG3 768.2 ST 1828.9 SR 674.4 SS 1482.5
RDE -.1961 RRA-1.3627 RC3 .5978 FAU .05697 RRT -.9850 RRF -.9827 RTF .9885 CRT -.9737 CRS .9114 CST -.9811
FDE 1.9653 FRA 5.3806 FC3-2.8124 BSP 18171 SGB 5818.8 R23 .0296 R13 -.9894 LSA 2430.8 MSA 297.5 SSA 12.8
BDE .8206 BRA 3.5079 BC3 2.5126 FSP -2702 SG1 5808.6 SG2 344.0 THA 158.65 EL1 1943.9 EL2 144.6 ALF 160.14

LAUNCH DATE SEP 17 1965 FLIGHT TIME 200.00 ARRIVAL DATE APR 5 1966

HELIOCENTRIC CONIC DISTANCE 546.598

RL 150.35 LAL .00 LOL 353.90 VL 27.274 GAL 6.12 AZL 91.28 HCA 242.93 SMA 129.92 ECC .18928 INC 1.2768 VI 29.636
RP 108.41 LAP 1.14 LOP 236.82 VP 37.775 GAP 5.34 AZP 89.42 TAL 151.83 TAP 34.76 RCA 105.33 APO 154.51 V2 34.957
RC 100.323 GL -8.15 GP 30.72 ZAL 37.46 ZAP 132.58 ETS 29.40 ZAE 123.37 ETE 159.85 ZAC 18.65 ETC 236.38 CLP-141.92

PLANETOCENTRIC CONIC

C3 18.149 VHL 4.260 DLA -23.43 RAL 322.34 RAD 6567.7 VEL 11.812 PTH 2.09 VHP 4.853 DPA 6.29 RAP 275.89 ECC 1.2987

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 40 47	1354.59	6.42	351.75	183.85	117.64	13 3 22	754.6	10.07	344.97
90.00	17 31 32	5672.41	27.82	267.44	190.47	95.51	19 6 4	5072.4	28.29	258.81
100.00	13 43 43	1151.46	4.77	335.92	182.94	119.54	14 2 54	551.5	8.66	329.30
100.00	19 11 17	5350.77	29.69	243.95	190.64	93.60	20 40 28	4750.8	29.88	235.15
110.00	14 14 56	1053.58	.96	326.14	180.58	124.17	14 32 29	453.6	5.44	319.91
110.00	20 56 33	5021.42	34.17	219.05	190.75	88.92	22 20 15	4421.4	33.64	209.85

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE .9120 TRA 3.4573 TC3-2.4530 BAU .6082 SGT 5617.5 SGR 1940.7 SG3 729.9 ST 1954.5 SR 606.0 SS 1478.0
RDE -.1660 RRA-1.2807 RC3 .5146 FAU .05304 RRT -.9819 RRF -.9783 RTF .9885 CRT -.9549 CRS .8889 CST -.9847
FDE 1.9747 FRA 5.2693 FC3-2.5298 BSP 18639 SGB 5943.3 R23 .0211 R13 -.9891 LSA 2507.0 MSA 294.2 SSA 13.0
BDE .9270 BRA 3.6869 BC3 2.5064 FSP -2586 SG1 5933.0 SG2 348.4 THA 161.19 EL1 2039.0 EL2 172.5 ALF 163.39

LAUNCH DATE SEP 17 1965 FLIGHT TIME 202.00 ARRIVAL DATE APR 7 1966

HELIOCENTRIC CONIC DISTANCE 552.646

RL 150.35 LAL .00 LOL 353.90 VL 27.260 GAL 6.35 AZL 91.05 HCA 246.12 SMA 129.82 ECC .19223 INC 1.0468 VI 29.636
RP 108.44 LAP .96 LOP 240.01 VP 37.753 GAP 5.77 AZP 89.58 TAL 151.21 TAP 37.32 RCA 104.86 APO 154.77 V2 34.945
RC 102.682 GL -6.54 GP 28.81 ZAL 36.60 ZAP 135.57 ETS 30.51 ZAE 122.57 ETE 161.87 ZAC 17.28 ETC 231.87 CLP-144.59

PLANETOCENTRIC CONIC

C3 18.889 VHL 4.346 DLA -21.72 RAL 322.39 RAD 6567.8 VEL 11.844 PTH 2.10 VHP 5.003 DPA 4.37 RAP 276.31 ECC 1.3109

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 17 27	1447.89	3.44	356.99	183.63	118.12	12 41 35	847.9	7.18	350.30
90.00	17 55 17	5597.86	28.19	262.02	190.69	92.82	19 28 35	4997.9	28.28	253.36
100.00	13 23 37	1234.34	1.97	340.48	182.82	119.83	13 44 12	634.3	5.92	333.93
100.00	19 31 48	5286.64	29.87	239.19	190.75	91.10	20 59 54	4686.6	29.71	230.39
110.00	14 0 9	1119.84	-1.57	329.59	180.61	124.15	14 18 49	519.8	2.92	323.39
110.00	21 11 46	4973.90	34.05	215.35	190.66	86.73	22 34 39	4373.9	33.22	206.20

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE 1.0311 TRA 3.6834 TC3-2.4379 BAU .6256 SGT 5801.5 SGR 1765.5 SG3 690.0 ST 2076.1 SR 545.0 SS 1469.5
RDE -.1367 RRA-1.2080 RC3 .4402 FAU .04889 RRT -.9778 RRF -.9730 RTF .9884 CRT -.9297 CRS .8608 CST -.9876
FDE 1.9728 FRA 5.1415 FC3-2.2409 BSP 19083 SGB 6064.2 R23 .0141 R13 -.9888 LSA 2584.9 MSA 291.5 SSA 13.2
BDE 1.0401 BRA 3.8765 BC3 2.4774 FSP -2457 SG1 6053.8 SG2 354.7 THA 163.37 EL1 2137.6 EL2 194.9 ALF 166.17

LAUNCH DATE SEP 17 1965 FLIGHT TIME 204.00 ARRIVAL DATE APR 9 1966

HELIOCENTRIC CONIC DISTANCE 558.661

RL 150.35 LAL .00 LOL 353.90 VL 27.245 GAL 6.60 AZL 90.83 HCA 249.30 SMA 129.71 ECC .19545 INC .8280 VI 29.636
RP 108.48 LAP .77 LOP 243.19 VP 37.731 GAP 6.22 AZP 89.71 TAL 150.56 TAP 39.86 RCA 104.36 APO 155.07 V2 34.932
RC 105.043 GL -5.05 GP 27.07 ZAL 35.80 ZAP 138.37 ETS 31.55 ZAE 121.79 ETE 163.59 ZAC 16.27 ETC 226.47 CLP-147.07

PLANETOCENTRIC CONIC

C3 19.762 VHL 4.445 DLA -20.11 RAL 322.50 RAD 6567.8 VEL 11.880 PTH 2.11 VHP 5.172 DPA 2.62 RAP 276.91 ECC 1.3252

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 58 32	1529.22	.83	1.54	183.77	118.31	12 24 1	929.2	4.60	354.89
90.00	18 15 4	5537.89	28.31	257.64	191.02	90.63	19 47 22	4937.9	28.10	248.98
100.00	13 6 56	1308.45	-.54	344.55	183.01	119.89	13 28 45	708.4	3.44	338.02
100.00	19 49 21	5233.89	29.88	235.27	191.01	89.04	21 16 35	4633.9	29.43	226.50
110.00	13 47 30	1181.34	-3.92	332.81	180.91	123.99	14 7 11	581.3	.57	326.60
110.00	21 25 17	4933.76	33.85	212.23	190.76	84.89	22 47 30	4333.8	32.77	203.16

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE 1.1531 TRA 3.9113 TC3-2.3998 BAU .6417 SGT 5965.0 SGR 1610.6 SG3 649.8 ST 2192.4 SR 491.1 SS 1457.0
RDE -.1081 RRA-1.1435 RC3 .3750 FAU .04472 RRT -.9726 RRF -.9667 RTF .9882 CRT -.8971 CRS .8258 CST -.9899
FDE 1.9607 FRA 5.0029 FC3-1.9591 BSP 19520 SGB 6178.6 R23 .0085 R13 -.9884 LSA 2662.1 MSA 289.2 SSA 13.3
BDE 1.1582 BRA 4.0750 BC3 2.4290 FSP -2325 SG1 6168.0 SG2 361.8 THA 165.23 EL1 2236.6 EL2 212.7 ALF 168.53

LAUNCH DATE SEP 17 1965 FLIGHT TIME 206.00 ARRIVAL DATE APR 11 1966

HELIOCENTRIC CONIC DISTANCE 564.641

RL 150.35 LAL .00 LOL 353.90 VL 27.229 GAL 6.87 AZL 90.62 HCA 252.48 SMA 129.60 ECC .19896 INC .6184 VI 29.636
RP 108.52 LAP .59 LOP 246.37 VP 37.708 GAP 6.67 AZP 89.81 TAL 149.89 TAP 42.37 RCA 103.82 APO 155.39 V2 34.920
RC 107.406 GL -3.67 GP 25.48 ZAL 35.04 ZAP 140.99 ETS 32.55 ZAE 121.03 ETE 165.07 ZAC 15.63 ETC 220.39 CLP-149.40

PLANETOCENTRIC CONIC

C3 20.773 VHL 4.558 DLA -18.61 RAL 322.66 RAD 6567.8 VEL 11.923 PTH 2.12 VHP 5.358 DPA 1.03 RAP 277.68 ECC 1.3419

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 42 40	1602.47	-1.54	5.62	184.19	118.28	12 9 23	1002.5	2.25	358.99
90.00	18 32 10	5488.45	28.29	254.02	191.48	88.81	20 3 39	4888.4	27.83	245.39
100.00	12 52 46	1376.28	-2.84	348.27	183.46	119.77	13 15 42	776.3	1.14	341.75
100.00	20 4 46	5189.88	29.78	232.00	191.42	87.32	21 31 16	4589.9	29.09	223.27
110.00	13 36 32	1239.12	-6.11	335.84	181.44	123.70	13 57 12	639.1	-1.64	329.61
110.00	21 37 29	4899.81	33.61	209.61	191.06	83.36	22 59 8	4299.8	32.33	200.61

DIFFERENTIAL CORRECTIONS
TOE 1.2822 TRA 4.1464 TC3-2.3347 BAU .6543
RDE -.0813 RRA-1.0877 RC3 .3164 FAU .04034
FDE 1.9460 FRA 4.8646 FC3-1.6811 BSP 19853
BDE 1.2847 BRA 4.2867 BC3 2.3560 FSP -2181

MID-COURSE EXECUTION ACCURACY
SGT 6113.7 SGR 1474.9 SG3 610.8
RRT -.9664 RRF -.9593 RTF .9879
SGB 6289.1 R23 .0045 R13 -.9880
SG1 6278.2 SG2 369.3 THA 166.83

ORBIT DETERMINATION ACCURACY
ST 2307.5 SR 444.8 SS 1444.4
CRT -.8568 CRS .7841 CST -.9918
LSA 2743.4 MSA 286.9 SSA 13.4
EL1 2339.0 EL2 226.3 ALF 170.53

LAUNCH DATE SEP 17 1965 FLIGHT TIME 208.00 ARRIVAL DATE APR 13 1966

HELIOCENTRIC CONIC DISTANCE 570.584

RL 150.35 LAL .00 LOL 353.90 VL 27.212 GAL 7.17 AZL 90.42 HCA 255.66 SMA 129.49 ECC .20278 INC .4161 VI 29.636
RP 108.56 LAP .40 LOP 249.55 VP 37.685 GAP 7.13 AZP 89.90 TAL 149.19 TAP 44.85 RCA 103.23 APO 155.75 V2 34.909
RC 109.770 GL -2.40 GP 24.04 ZAL 34.32 ZAP 143.44 ETS 33.55 ZAE 120.30 ETE 166.33 ZAC 15.38 ETC 213.94 CLP-151.58

PLANETOCENTRIC CONIC

C3 21.933 VHL 4.683 DLA -17.21 RAL 322.85 RAD 6567.9 VEL 11.971 PTH 2.13 VHP 5.561 DPA -.41 RAP 278.59 ECC 1.3610

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 29 7	1669.84	-3.71	9.39	184.84	118.09	11 56 57	1069.8	.08	2.75
90.00	18 47 18	5447.23	28.20	251.01	192.09	87.31	20 18 5	4847.2	27.53	242.41
100.00	12 40 33	1439.34	-4.97	351.75	184.14	119.51	13 4 32	839.3	-1.00	345.21
100.00	20 18 33	5152.96	29.63	229.27	191.99	85.89	21 44 26	4553.0	28.75	220.58
110.00	13 26 59	1293.88	-8.17	338.75	182.17	123.31	13 48 33	693.9	-3.73	332.47
110.00	21 48 36	4871.19	33.36	207.41	191.53	82.08	23 9 48	4271.2	31.91	198.48

DIFFERENTIAL CORRECTIONS
TOE 1.4114 TRA 4.3829 TC3-2.2598 BAU .6673
RDE -.0543 RRA-1.0378 RC3 .2682 FAU .03636
FDE 1.9203 FRA 4.7208 FC3-1.4354 BSP 20255
BDE 1.4124 BRA 4.5041 BC3 2.2756 FSP -2052

MID-COURSE EXECUTION ACCURACY
SGT 6242.7 SGR 1354.3 SG3 572.3
RRT -.9589 RRF -.9508 RTF .9876
SGB 6388.0 R23 .0010 R13 -.9877
SG1 6376.9 SG2 376.1 THA 168.21

ORBIT DETERMINATION ACCURACY
ST 2412.8 SR 404.3 SS 1426.3
CRT -.8064 CRS .7329 CST -.9933
LSA 2817.4 MSA 284.9 SSA 13.4
EL1 2434.9 EL2 236.9 ALF 172.23

LAUNCH DATE SEP 17 1965 FLIGHT TIME 210.00 ARRIVAL DATE APR 15 1966

HELIOCENTRIC CONIC DISTANCE 576.487

RL 150.35 LAL .00 LOL 353.90 VL 27.195 GAL 7.48 AZL 90.22 HCA 258.83 SMA 129.37 ECC .20694 INC .2196 VI 29.636
RP 108.59 LAP .22 LOP 252.73 VP 37.662 GAP 7.60 AZP 89.96 TAL 148.48 TAP 47.31 RCA 102.60 APO 156.14 V2 34.897
RC 112.133 GL -1.23 GP 22.73 ZAL 33.64 ZAP 145.73 ETS 34.58 ZAE 119.61 ETE 167.41 ZAC 15.50 ETC 207.52 CLP-153.64

PLANETOCENTRIC CONIC

C3 23.252 VHL 4.822 DLA -15.90 RAL 323.09 RAD 6567.9 VEL 12.026 PTH 2.15 VHP 5.781 DPA -1.71 RAP 279.63 ECC 1.3827

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 17 23	1732.67	-5.71	12.91	185.69	117.78	11 46 16	1132.7	-1.95	6.26
90.00	19 0 53	5412.77	28.06	248.50	192.84	86.05	20 31 6	4812.8	27.22	239.93
100.00	12 29 55	1498.64	-6.94	355.04	185.01	119.15	12 54 54	898.6	-3.01	348.46
100.00	20 31 2	5122.02	29.46	226.98	192.71	84.70	21 56 24	4522.0	28.42	218.34
110.00	13 18 36	1346.16	-10.11	341.55	183.09	122.83	13 41 2	746.2	-5.71	335.22
110.00	21 58 51	4847.28	33.12	205.58	192.17	81.02	23 19 38	4247.3	31.53	196.72

DIFFERENTIAL CORRECTIONS
TOE 1.5446 TRA 4.6262 TC3-2.1712 BAU .6786
RDE -.0282 RRA -.9942 RC3 .2271 FAU .03257
FDE 1.8906 FRA 4.5803 FC3-1.2126 BSP 20634
BDE 1.5448 BRA 4.7318 BC3 2.1830 FSP -1927

MID-COURSE EXECUTION ACCURACY
SGT 6357.6 SGR 1248.1 SG3 535.7
RRT -.9503 RRF -.9411 RTF .9873
SGB 6478.9 R23 -.0016 R13 -.9873
SG1 6467.6 SG2 382.1 THA 169.40

ORBIT DETERMINATION ACCURACY
ST 2512.4 SR 370.1 SS 1406.5
CRT -.7460 CRS .6726 CST -.9945
LSA 2889.2 MSA 282.7 SSA 13.4
EL1 2527.7 EL2 244.9 ALF 173.67

LAUNCH DATE SEP 17 1965 FLIGHT TIME 212.00 ARRIVAL DATE APR 17 1966

HELIOCENTRIC CONIC DISTANCE 582.347

RL 150.35 LAL .00 LOL 353.90 VL 27.176 GAL 7.82 AZL 90.03 HCA 262.01 SMA 129.24 ECC .21144 INC .0242 VI 29.636
RP 108.63 LAP .03 LOP 255.91 VP 37.638 GAP 8.08 AZP 90.00 TAL 147.74 TAP 49.75 RCA 101.92 APO 156.57 V2 34.886
RC 114.493 GL -.15 GP 21.54 ZAL 32.99 ZAP 147.88 ETS 35.66 ZAE 118.96 ETE 168.33 ZAC 15.96 ETC 201.48 CLP-155.58

PLANETOCENTRIC CONIC

C3 24.745 VHL 4.974 DLA -14.67 RAL 323.35 RAD 6568.0 VEL 12.088 PTH 2.16 VHP 6.017 DPA -2.89 RAP 280.80 ECC 1.4072

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 7 8	1791.91	-7.58	16.27	186.72	117.37	11 37 0	1191.9	-3.85	9.57
90.00	19 13 14	5384.04	27.91	246.41	193.73	85.02	20 42 58	4784.0	26.93	237.88
100.00	12 20 36	1554.90	-8.80	358.19	186.06	118.68	12 46 31	954.9	-4.90	351.57
100.00	20 42 28	5096.27	29.28	225.09	193.57	83.72	22 7 24	4496.3	28.11	216.49
110.00	13 11 13	1396.36	-11.95	344.28	184.18	122.27	13 34 29	796.4	-7.60	337.88
110.00	22 8 21	4827.57	32.90	204.09	192.97	80.16	23 28 48	4227.6	31.20	195.28

DIFFERENTIAL CORRECTIONS
TOE 1.6831 TRA 4.8785 TC3-2.0689 BAU .6874
RDE -.0032 RRA -.9562 RC3 .1915 FAU .02888
FDE 1.8597 FRA 4.4464 FC3-1.0104 BSP 20972
BDE 1.6831 BRA 4.9713 BC3 2.0777 FSP -1806

MID-COURSE EXECUTION ACCURACY
SGT 6460.1 SGR 1154.3 SG3 501.0
RRT -.9403 RRF -.9302 RTF .9870
SGB 6562.4 R23 -.0035 R13 -.9870
SG1 6551.0 SG2 387.3 THA 170.43

ORBIT DETERMINATION ACCURACY
ST 2607.3 SR 341.6 SS 1386.3
CRT -.6765 CRS .6042 CST -.9955
LSA 2959.4 MSA 280.4 SSA 13.4
EL1 2617.7 EL2 250.6 ALF 174.89

LAUNCH DATE SEP 17 1965 FLIGHT TIME 214.00 ARRIVAL DATE APR 19 1966

HELIOCENTRIC CONIC DISTANCE 588.161

RL 150.35 LAL .00 LOL 353.90 VL 27.158 GAL 8.19 AZL 89.84 HCA 265.18 SMA 129.12 ECC .21633 INC .1607 V1 29.636
RP 108.66 LAP -.16 LOP 259.08 VP 37.615 GAP 8.58 AZP 90.01 TAL 146.99 TAP 52.17 RCA 101.19 APO 157.05 V2 34.875
RC 116.852 GL .84 GP 20.46 ZAL 32.37 ZAP 149.90 ETS 36.81 ZAE 118.34 ETE 169.13 ZAC 16.71 ETC 196.04 CLP-157.43

PLANETOCENTRIC CONIC

C3 26.432 VHL 5.141 DLA -13.53 RAL 323.64 RAD 6568.1 VEL 12.158 PTH 2.18 VHP 6.269 DPA -3.93 RAP 282.08 ECC 1.4350

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 58 7	1848.20	-9.33	19.48	187.90	116.86	11 28 56	1248.2	-5.65	12.73
90.00	19 24 34	5360.30	27.76	244.69	194.75	84.17	20 53 54	4760.3	26.66	236.20
100.00	12 12 22	1608.58	-10.54	1.23	187.26	118.14	12 39 11	1008.6	-6.70	354.55
100.00	20 53 0	5075.09	29.12	223.54	194.57	82.92	22 17 35	4475.1	27.83	214.97
110.00	13 4 41	1444.81	-13.69	346.94	185.41	121.63	13 28 46	844.8	-9.41	340.46
110.00	22 17 11	4811.69	32.71	202.89	193.92	79.48	23 37 22	4211.7	30.92	194.13

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TOE 1.8262 TRA 5.1398 TC3-1.9581 BAU .6943 SGT 6550.2 SGR 1071.0 SG3 468.4 ST 2696.2 SR 318.3 SS 1365.4
RDE .0210 RRA -.9229 RC3 .1613 FAU .02540 RRT -.9292 RRF -.9182 RTF .9866 CRT -.5985 CRS .5282 CST -.9963
FDE 1.8275 FRA 4.3189 FC3 -.8320 BSP 21289 SGB 6637.2 R23 -.0049 R13 -.9866 LSA 3026.2 MSA 277.8 SSA 13.3
BDE 1.8263 BRA 5.2220 BC3 1.9647 FSP -1691 SG1 6625.6 SG2 391.4 THA 171.33 EL1 2703.0 EL2 254.3 ALF 175.92

LAUNCH DATE SEP 17 1965 FLIGHT TIME 216.00 ARRIVAL DATE APR 21 1966

HELIOCENTRIC CONIC DISTANCE 593.924

RL 150.35 LAL .00 LOL 353.90 VL 27.139 GAL 8.59 AZL 89.65 HCA 268.35 SMA 128.99 ECC .22162 INC .3482 V1 29.636
RP 108.69 LAP -.35 LOP 262.25 VP 37.592 GAP 9.09 AZP 90.01 TAL 146.23 TAP 54.58 RCA 100.40 APO 157.57 V2 34.865
RC 119.206 GL 1.76 GP 19.47 ZAL 31.77 ZAP 151.79 ETS 38.06 ZAE 117.77 ETE 169.81 ZAC 17.70 ETC 191.33 CLP-159.18

PLANETOCENTRIC CONIC

C3 28.333 VHL 5.323 DLA -12.46 RAL 323.95 RAD 6568.1 VEL 12.235 PTH 2.20 VHP 6.539 DPA -4.87 RAP 283.45 ECC 1.4663

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 50 9	1902.05	-10.97	22.58	189.24	116.27	11 21 51	1302.1	-7.35	15.77
90.00	19 35 1	5341.01	27.62	243.30	195.89	83.48	21 4 2	4741.0	26.43	234.83
100.00	12 5 6	1660.27	-12.18	4.18	188.61	117.51	12 32 46	1060.3	-8.40	357.43
100.00	21 2 45	5058.03	28.97	222.29	195.70	82.28	22 27 3	4458.0	27.60	213.76
110.00	12 58 54	1491.75	-15.35	349.57	186.78	120.92	13 23 46	891.8	-11.14	343.00
110.00	22 25 26	4799.30	32.55	201.96	195.01	78.95	23 45 26	4199.3	30.69	193.23

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TOE 1.9781 TRA 5.4157 TC3-1.8354 BAU .6971 SGT 6632.8 SGR 997.2 SG3 438.2 ST 2783.0 SR 299.5 SS 1346.3
RDE .0438 RRA -.8942 RC3 .1345 FAU .02195 RRT -.9169 RRF -.9051 RTF .9862 CRT -.5152 CRS .4480 CST -.9970
FDE 1.7984 FRA 4.2024 FC3 -.6708 BSP 21497 SGB 6707.4 R23 -.0058 R13 -.9862 LSA 3093.8 MSA 274.8 SSA 13.2
BDE 1.9786 BRA 5.4890 BC3 1.8403 FSP -1575 SG1 6695.8 SG2 394.4 THA 172.12 EL1 2787.3 EL2 256.3 ALF 176.80

LAUNCH DATE SEP 17 1965 FLIGHT TIME 218.00 ARRIVAL DATE APR 23 1966

HELIOCENTRIC CONIC DISTANCE 599.630

RL 150.35 LAL .00 LOL 353.90 VL 27.119 GAL 9.01 AZL 89.47 HCA 271.52 SMA 128.86 ECC .22737 INC .5345 V1 29.636
RP 108.72 LAP -.53 LOP 265.42 VP 37.569 GAP 9.63 AZP 89.99 TAL 145.45 TAP 56.98 RCA 99.56 APO 158.15 V2 34.856
RC 121.557 GL 2.60 GP 18.58 ZAL 31.20 ZAP 153.57 ETS 39.44 ZAE 117.22 ETE 170.41 ZAC 18.89 ETC 187.34 CLP-160.87

PLANETOCENTRIC CONIC

C3 30.474 VHL 5.520 DLA -11.47 RAL 324.28 RAD 6568.2 VEL 12.323 PTH 2.22 VHP 6.826 DPA -5.69 RAP 284.91 ECC 1.5015

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 43 5	1953.83	-12.51	25.61	190.70	115.61	11 15 39	1353.8	-8.96	18.72
90.00	19 44 42	5325.71	27.49	242.19	197.15	82.94	21 13 27	4725.7	26.23	233.76
100.00	11 58 38	1710.07	-13.73	7.07	190.09	116.82	12 27 8	1110.1	-10.02	.24
100.00	21 11 50	5044.70	28.84	221.32	196.95	81.78	22 35 54	4444.7	27.40	212.81
110.00	12 53 46	1537.39	-16.93	352.16	188.28	120.15	13 19 24	937.4	-12.80	345.49
110.00	22 33 11	4790.14	32.43	201.27	196.22	78.56	23 53 1	4190.1	30.52	192.58

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TOE 2.1322 TRA 5.7001 TC3-1.7134 BAU .6996 SGT 6702.0 SGR 930.4 SG3 409.6 ST 2860.1 SR 284.4 SS 1325.2
RDE .0667 RRA -.8682 RC3 .1126 FAU .01889 RRT -.9033 RRF -.8909 RTF .9860 CRT -.4260 CRS .3625 CST -.9975
FDE 1.7659 FRA 4.0906 FC3 -.5367 BSP 21776 SGB 6766.2 R23 -.0065 R13 -.9859 LSA 3153.3 MSA 271.6 SSA 13.1
BDE 2.1332 BRA 5.7658 BC3 1.7171 FSP -1474 SG1 6754.6 SG2 396.1 THA 172.83 EL1 2862.7 EL2 257.1 ALF 177.55

LAUNCH DATE SEP 17 1965 FLIGHT TIME 220.00 ARRIVAL DATE APR 25 1966

HELIOCENTRIC CONIC DISTANCE 605.274

RL 150.35 LAL .00 LOL 353.90 VL 27.099 GAL 9.47 AZL 89.28 HCA 274.69 SMA 128.72 ECC .23360 INC .7215 V1 29.636
RP 108.75 LAP -.72 LOP 268.59 VP 37.546 GAP 10.18 AZP 89.94 TAL 144.67 TAP 59.36 RCA 98.65 APO 158.79 V2 34.846
RC 123.903 GL 3.37 GP 17.77 ZAL 30.65 ZAP 155.25 ETS 40.97 ZAE 116.71 ETE 170.93 ZAC 20.23 ETC 184.02 CLP-162.48

PLANETOCENTRIC CONIC

C3 32.888 VHL 5.735 DLA -10.54 RAL 324.62 RAD 6568.3 VEL 12.420 PTH 2.24 VHP 7.132 DPA -6.42 RAP 286.44 ECC 1.5412

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 36 48	2003.82	-13.96	28.56	192.29	114.89	11 10 11	1403.8	-10.49	21.60
90.00	19 53 42	5314.06	27.39	241.36	198.52	82.53	21 22 16	4714.1	26.08	232.94
100.00	11 52 53	1758.32	-15.19	9.90	191.68	116.06	12 22 12	1158.3	-11.56	2.99
100.00	21 20 17	5034.79	28.74	220.60	198.31	81.42	22 44 12	4434.8	27.26	212.11
110.00	12 49 14	1581.89	-18.43	354.74	189.90	119.31	13 15 35	981.9	-14.39	347.96
110.00	22 40 26	4783.98	32.35	200.81	197.56	78.30	24 0 10	4184.0	30.40	192.13

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TOE 2.2925 TRA 5.9985 TC3-1.5878 BAU .6993 SGT 6761.9 SGR 870.0 SG3 383.1 ST 2931.5 SR 272.5 SS 1304.5
RDE .0890 RRA -.8450 RC3 .0938 FAU .01601 RRT -.8885 RRF -.8757 RTF .9857 CRT -.3349 CRS .2757 CST -.9980
FDE 1.7346 FRA 3.9876 FC3 -.4215 BSP 22035 SGB 6817.6 R23 -.0070 R13 -.9857 LSA 3209.0 MSA 268.1 SSA 13.0
BDE 2.2942 BRA 6.0578 BC3 1.5906 FSP -1380 SG1 6806.0 SG2 396.6 THA 173.46 EL1 2932.9 EL2 256.7 ALF 178.20

LAUNCH DATE SEP 18 1965 FLIGHT TIME 70.00 ARRIVAL DATE NOV 27 1965

HELIOCENTRIC CONIC DISTANCE 127.152

RL	150.31	LAL	.00	LOL	354.87	VL	15.043	GAL	29.01	AZL	94.51	HCA	33.87	SMA	86.20	ECC	.81130	INC	4.5112	V1	29.644
RP	108.37	LAP	-2.51	LOP	28.66	VP	30.162	GAP	-52.77	AZP	93.75	TAL	172.30	TAP	206.17	RCA	16.27	APO	156.14	V2	34.970
RC	87.380	GL	-3.24	GP	-3.77	ZAL	64.86	ZAP	35.45	ETS	171.38	ZAE	132.57	ETE	178.55	ZAC	27.91	ETC	37.26	CLP	35.27

PLANETOCENTRIC CONIC

C3 334.517 VHL 18.290 DLA -25.15 RAL 292.22 RAD 6571.9 VEL 21.350 PTH 3.21 VHP 29.196 DPA -23.86 RAP 241.05 ECC 6.5053

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 4 55	1866.43	-9.88	20.53	191.72	116.67	11 36 2	1266.4	-6.23	13.76
90.00	14 59 16	1092.06	14.35	336.55	203.25	114.67	15 17 28	492.1	17.56	329.34
100.00	12 2 54	1679.25	-12.77	5.28	190.22	117.26	12 30 53	1079.2	-9.02	358.50
100.00	16 43 59	754.48	17.29	313.12	204.66	114.77	16 56 33	154.5	20.49	305.78
110.00	12 27 9	1603.19	-19.14	355.99	186.69	118.88	12 53 52	1003.2	-15.14	349.15
110.00	18 36 13	5691.33	23.83	267.61	207.91	115.26	20 11 5	5091.3	27.03	259.90

DIFFERENTIAL CORRECTIONS

TDE	-.3922	TRA	-2.0163	TC3	-.1114	BAU	.4984
RDE	-1.4268	RRA	.3317	RC3	.0037	FAU	.01112
FDE	.1263	FRA	.7275	FC3	-.0288	BSP	1919
BDE	1.4798	BRA	2.0434	BC3	.1114	FSP	-48

MID-COURSE EXECUTION ACCURACY

SGT	817.3	SGR	461.7	SG3	23.8		
RRT	-.0815	RRF	.0768	RTF	-.6107		
SGB	938.7	R23	-.0041	R13	.6113		
SG1	818.6	SG2	459.4	THA	176.15		

ORBIT DETERMINATION ACCURACY

ST	243.0	SR	448.3	SS	215.2
CRT	.4378	CRS	.3944	CST	.9950
LSA	480.2	MSA	274.9	SSA	14.1
EL1	464.2	EL2	211.0	ALF	73.04

LAUNCH DATE SEP 18 1965 FLIGHT TIME 72.00 ARRIVAL DATE NOV 29 1965

HELIOCENTRIC CONIC DISTANCE 132.530

RL	150.31	LAL	.00	LOL	354.87	VL	15.843	GAL	27.65	AZL	93.95	HCA	37.05	SMA	87.61	ECC	.78569	INC	3.9541	V1	29.644
RP	108.33	LAP	-2.38	LOP	31.86	VP	30.585	GAP	-50.46	AZP	93.16	TAL	171.45	TAP	208.50	RCA	18.78	APO	156.44	V2	34.983
RC	85.148	GL	-3.17	GP	-3.86	ZAL	63.45	ZAP	33.94	ETS	170.91	ZAE	132.41	ETE	178.83	ZAC	26.72	ETC	39.63	CLP	33.75

PLANETOCENTRIC CONIC

C3 306.814 VHL 17.516 DLA -24.86 RAL 293.74 RAD 6571.8 VEL 20.691 PTH 3.18 VHP 28.147 DPA -24.36 RAP 242.80 ECC 6.0494

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 5 41	1874.73	-10.14	21.00	192.42	116.58	11 36 56	1274.7	-6.49	14.23
90.00	15 10 37	1064.01	15.14	334.87	204.30	114.22	15 28 21	464.0	18.29	327.60
100.00	12 4 42	1684.19	-12.93	5.56	190.98	117.19	12 32 47	1084.2	-9.18	358.78
100.00	16 54 17	729.78	17.99	311.62	205.64	114.28	17 6 27	129.8	21.12	304.22
110.00	12 30 19	1603.88	-19.16	356.03	187.53	118.86	12 57 2	1003.9	-15.16	349.19
110.00	18 45 10	5670.89	24.42	266.31	208.78	114.70	20 19 41	5070.9	27.54	258.53

DIFFERENTIAL CORRECTIONS

TDE	-.4145	TRA	-2.0345	TC3	-.1192	BAU	.4891
RDE	-1.3790	RRA	.3448	RC3	.0035	FAU	.01114
FDE	.1415	FRA	.7555	FC3	-.0314	BSP	2050
BDE	1.4400	BRA	2.0635	BC3	.1193	FSP	-52

MID-COURSE EXECUTION ACCURACY

SGT	854.8	SGR	468.1	SG3	25.7		
RRT	-.0880	RRF	.0834	RTF	-.6297		
SGB	974.6	R23	-.0047	R13	.6303		
SG1	856.2	SG2	465.5	THA	176.08		

ORBIT DETERMINATION ACCURACY

ST	258.7	SR	452.6	SS	228.5
CRT	.4521	CRS	.4193	CST	.9958
LSA	492.6	MSA	284.8	SSA	14.4
EL1	472.1	EL2	221.3	ALF	71.24

LAUNCH DATE SEP 18 1965 FLIGHT TIME 74.00 ARRIVAL DATE DEC 1 1965

HELIOCENTRIC CONIC DISTANCE 138.034

RL	150.31	LAL	.00	LOL	354.87	VL	16.596	GAL	26.40	AZL	93.47	HCA	40.24	SMA	89.04	ECC	.75992	INC	3.4731	V1	29.644
RP	108.29	LAP	-2.24	LOP	35.06	VP	30.996	GAP	-48.26	AZP	92.65	TAL	170.59	TAP	210.83	RCA	21.38	APO	156.71	V2	34.996
RC	82.926	GL	-3.08	GP	-3.95	ZAL	62.09	ZAP	32.47	ETS	170.41	ZAE	132.32	ETE	179.14	ZAC	25.57	ETC	42.29	CLP	32.25

PLANETOCENTRIC CONIC

C3 281.552 VHL 16.780 DLA -24.55 RAL 295.20 RAD 6571.6 VEL 20.071 PTH 3.14 VHP 27.133 DPA -24.85 RAP 244.59 ECC 5.6336

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 6 6	1882.94	-10.39	21.48	193.04	116.49	11 37 29	1282.9	-6.75	14.69
90.00	15 21 50	1034.95	15.94	333.11	205.23	113.71	15 39 5	435.0	19.02	325.78
100.00	12 6 8	1689.17	-13.08	5.85	191.65	117.12	12 34 17	1089.2	-9.34	359.06
100.00	17 4 30	703.96	18.71	310.03	206.51	113.75	17 16 13	104.0	21.76	302.57
110.00	12 33 6	1604.59	-19.19	356.07	188.27	118.85	12 59 50	1004.6	-15.19	349.23
110.00	18 54 1	5649.33	25.03	264.93	209.52	114.08	20 28 10	5049.3	28.06	257.07

DIFFERENTIAL CORRECTIONS

TDE	-.4357	TRA	-2.0534	TC3	-.1273	BAU	.4792
RDE	-1.3310	RRA	.3565	RC3	.0033	FAU	.01116
FDE	.1571	FRA	.7840	FC3	-.0343	BSP	2190
BDE	1.4005	BRA	2.0841	BC3	.1273	FSP	-57

MID-COURSE EXECUTION ACCURACY

SGT	893.7	SGR	473.9	SG3	27.7		
RRT	-.0950	RRF	.0904	RTF	-.6481		
SGB	1011.6	R23	-.0052	R13	.6487		
SG1	895.3	SG2	470.9	THA	176.01		

ORBIT DETERMINATION ACCURACY

ST	275.3	SR	456.2	SS	242.3
CRT	.4644	CRS	.4419	CST	.9965
LSA	505.8	MSA	294.4	SSA	14.6
EL1	479.8	EL2	231.8	ALF	69.31

LAUNCH DATE SEP 18 1965 FLIGHT TIME 76.00 ARRIVAL DATE DEC 3 1965

HELIOCENTRIC CONIC DISTANCE 143.657

RL	150.31	LAL	.00	LOL	354.87	VL	17.305	GAL	25.22	AZL	93.05	HCA	43.42	SMA	90.50	ECC	.73416	INC	3.0512	V1	29.644
RP	108.24	LAP	-2.10	LOP	38.26	VP	31.396	GAP	-46.18	AZP	92.22	TAL	169.74	TAP	213.17	RCA	24.06	APO	156.95	V2	35.010
RC	80.714	GL	-2.97	GP	-4.06	ZAL	60.78	ZAP	31.02	ETS	169.85	ZAE	132.30	ETE	179.49	ZAC	24.48	ETC	45.25	CLP	30.78

PLANETOCENTRIC CONIC

C3 258.483 VHL 16.077 DLA -24.21 RAL 296.60 RAD 6571.5 VEL 19.488 PTH 3.11 VHP 26.154 DPA -25.34 RAP 246.41 ECC 5.2540

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 6 12	1890.99	-10.63	21.94	193.56	116.40	11 37 43	1291.0	-7.00	15.15
90.00	15 32 53	1004.94	16.76	331.28	206.05	113.16	15 49 38	404.9	19.75	323.89
100.00	12 7 11	1694.11	-13.23	6.14	192.22	117.05	12 35 25	1094.1	-9.50	359.34
100.00	17 14 35	677.06	19.44	308.37	207.26	113.17	17 25 52	77.1	22.41	300.83
110.00	12 35 31	1605.28	-19.21	356.11	188.92	118.84	13 2 16	1005.3	-15.21	349.27
110.00	19 2 45	5626.69	25.65	263.46	210.15	113.41	20 36 32	5026.7	28.59	255.52

DIFFERENTIAL CORRECTIONS

TDE	-.4589	TRA	-2.0760	TC3	-.1360	BAU	.4702
RDE	-1.2826	RRA	.3670	RC3	.0029	FAU	.01118
FDE	.1736	FRA	.8135	FC3	-.0374	BSP	2267
BDE	1.3623	BRA	2.1082	BC3	.1361	FSP	-62

MID-COURSE EXECUTION ACCURACY

SGT	936.0	SGR	479.2	SG3	29.9		
RRT	-.1017	RRF	.0978	RTF	-.6659		
SGB	1051.5	R23	-.0065	R13	.6665		
SG1	937.7	SG2	475.8	THA	175.98		

ORBIT DETERMINATION ACCURACY

ST	293.5	SR	459.1	SS	257.0
CRT	.4770	CRS	.4630	CST	.9969
LSA	520.3	MSA	303.4	SSA	14.8
EL1	487.9	EL2	242.8	ALF	67.06

LAUNCH DATE SEP 18 1965 FLIGHT TIME 78.00 ARRIVAL DATE DEC 5 1965

HELIOCENTRIC CONIC DISTANCE 149.390

RL	150.31	LAL	.00	LOL	354.87	VL	17.971	GAL	24.11	AZL	92.68	HCA	46.62	SMA	91.98	ECC	.70854	INC	2.6758	V1	29.644
RP	108.20	LAP	-1.94	LOP	41.46	VP	31.783	GAP	-44.20	AZP	91.84	TAL	168.90	TAP	215.52	RCA	26.81	APO	157.14	V2	35.023
RC	78.516	GL	-2.85	GP	-4.18	ZAL	59.51	ZAP	29.59	ETS	169.23	ZAE	132.34	ETE	179.87	ZAC	23.46	ETC	48.55	CLP	29.32

PLANETOCENTRIC CONIC

C3 237.390 VHL 15.407 DLA -23.86 RAL 297.94 RAD 6571.4 VEL 18.940 PTH 3.07 VHP 25.207 DPA -25.82 RAP 248.28 ECC 4.9068

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 5 59	1898.80	-10.87	22.40	193.99	116.31	11 37 38	1298.8	-7.25	15.59
90.00	15 43 47	974.01	17.58	329.38	206.75	112.56	16 0 1	374.0	20.48	321.91
100.00	12 7 54	1698.94	-13.38	6.42	192.70	116.98	12 36 13	1098.9	-9.66	359.61
100.00	17 24 33	649.10	20.18	306.62	207.89	112.54	17 35 22	49.1	23.06	299.01
110.00	12 37 34	1605.88	-19.23	356.15	189.48	118.82	13 4 20	1005.9	-15.23	349.31
110.00	19 11 22	5602.96	26.28	261.91	210.66	112.69	20 44 45	5003.0	29.12	253.88

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-.4822	TRA	-2.1001	TC3	-.1453	BAU	.4611	SGT	980.7	SGR	483.8	SG3	32.2	ST	313.0	SR	461.2	SS	272.4
RDE	-1.2342	RRA	.3762	RC3	.0023	FAU	.01121	RRT	-.1087	RRF	.1057	RTF	-.6829	CRT	.4886	CRS	.4823	CST	.9973
FDE	.1907	FRA	.8439	FC3	-.0409	BSP	2329	SGB	1093.5	R23	-.0081	R13	.6836	LSA	536.2	MSA	311.7	SSA	15.0
BDE	1.3250	BRA	2.1335	BC3	.1453	FSP	-67	SG1	982.5	SG2	480.1	THA	175.97	EL1	496.3	EL2	253.8	ALF	64.57

LAUNCH DATE SEP 18 1965 FLIGHT TIME 80.00 ARRIVAL DATE DEC 7 1965

HELIOCENTRIC CONIC DISTANCE 155.233

RL	150.31	LAL	.00	LOL	354.87	VL	18.598	GAL	23.07	AZL	92.34	HCA	49.81	SMA	93.46	ECC	.68319	INC	2.3379	V1	29.644
RP	108.16	LAP	-1.79	LOP	44.66	VP	32.156	GAP	-42.32	AZP	91.51	TAL	168.07	TAP	217.88	RCA	29.61	APO	157.31	V2	35.036
RC	76.333	GL	-2.71	GP	-4.30	ZAL	58.29	ZAP	28.19	ETS	168.53	ZAE	132.46	ETE	180.29	ZAC	22.52	ETC	52.20	CLP	27.88

PLANETOCENTRIC CONIC

C3 218.103 VHL 14.768 DLA -23.49 RAL 299.22 RAD 6571.2 VEL 18.423 PTH 3.04 VHP 24.291 DPA -26.30 RAP 250.17 ECC 4.5894

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 5 28	1906.39	-11.10	22.84	194.33	116.22	11 37 14	1306.4	-7.48	16.02
90.00	15 54 30	942.15	18.40	327.40	207.33	111.91	16 10 12	342.2	21.21	319.86
100.00	12 8 16	1703.68	-13.53	6.69	193.09	116.91	12 36 40	1103.7	-9.81	359.88
100.00	17 34 23	620.10	20.92	304.79	208.41	111.85	17 44 44	20.1	23.70	297.10
110.00	12 39 17	1606.41	-19.25	356.18	189.94	118.81	13 6 3	1006.4	-15.25	349.34
110.00	19 19 52	5578.15	26.92	260.27	211.04	111.91	20 52 50	4978.2	29.65	252.14

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-.5424	TRA	-2.1624	TC3	-.1617	BAU	.4716	SGT	1053.2	SGR	487.8	SG3	34.8	ST	346.1	SR	462.3	SS	291.6
RDE	-1.1850	RRA	.3851	RC3	.0018	FAU	.01103	RRT	-.1067	RRF	.1118	RTF	-.6982	CRT	.5207	CRS	.5064	CST	.9975
FDE	.2130	FRA	.8797	FC3	-.0438	BSP	1495	SGB	1160.7	R23	-.0174	R13	.6990	LSA	563.0	MSA	318.4	SSA	15.5
BDE	1.3032	BRA	2.1965	BC3	.1617	FSP	-63	SG1	1054.9	SG2	484.2	THA	176.41	EL1	512.3	EL2	266.7	ALF	59.71

LAUNCH DATE SEP 18 1965 FLIGHT TIME 82.00 ARRIVAL DATE DEC 9 1965

HELIOCENTRIC CONIC DISTANCE 161.164

RL	150.31	LAL	.00	LOL	354.87	VL	19.187	GAL	22.08	AZL	92.03	HCA	53.01	SMA	94.95	ECC	.65815	INC	2.0302	V1	29.644
RP	108.12	LAP	-1.62	LOP	47.87	VP	32.515	GAP	-40.52	AZP	91.22	TAL	167.25	TAP	220.26	RCA	32.46	APO	157.44	V2	35.049
RC	74.169	GL	-2.55	GP	-4.44	ZAL	57.11	ZAP	26.81	ETS	167.76	ZAE	132.65	ETE	180.76	ZAC	21.68	ETC	56.22	CLP	26.46

PLANETOCENTRIC CONIC

C3 200.377 VHL 14.155 DLA -23.11 RAL 300.43 RAD 6571.1 VEL 17.936 PTH 3.00 VHP 23.402 DPA -26.77 RAP 252.10 ECC 4.2977

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 4 39	1913.56	-11.31	23.25	194.58	116.13	11 36 33	1313.6	-7.71	16.43
90.00	16 5 0	909.43	19.22	325.35	207.77	111.21	16 20 10	309.4	21.93	317.73
100.00	12 8 18	1708.12	-13.67	6.95	193.37	116.85	12 36 46	1108.1	-9.96	.13
100.00	17 44 3	5878.14	21.67	280.78	208.79	111.11	19 22 1	5278.1	24.35	273.00
110.00	12 40 38	1606.72	-19.26	356.20	190.30	118.80	13 7 25	1006.7	-15.26	349.35
110.00	19 28 12	5552.29	27.57	258.53	211.28	111.06	21 0 44	4952.3	30.17	250.31

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-.4939	TRA	-2.1169	TC3	-.1583	BAU	.4240	SGT	1052.9	SGR	491.6	SG3	37.2	ST	343.9	SR	463.4	SS	302.1
RDE	-1.1378	RRA	.3906	RC3	.0007	FAU	.01149	RRT	-.1331	RRF	.1256	RTF	-.7165	CRT	.4873	CRS	.5097	CST	.9974
FDE	.2223	FRA	.9030	FC3	-.0497	BSP	3241	SGB	1162.0	R23	-.0044	R13	.7172	LSA	563.5	MSA	326.4	SSA	15.2
BDE	1.2404	BRA	2.1527	BC3	.1583	FSP	-88	SG1	1055.5	SG2	486.0	THA	175.48	EL1	507.9	EL2	274.0	ALF	60.92

LAUNCH DATE SEP 18 1965 FLIGHT TIME 84.00 ARRIVAL DATE DEC 11 1965

HELIOCENTRIC CONIC DISTANCE 167.195

RL	150.31	LAL	.00	LOL	354.87	VL	19.742	GAL	21.13	AZL	91.75	HCA	56.21	SMA	96.44	ECC	.63359	INC	1.7471	V1	29.644
RP	108.08	LAP	-1.45	LOP	51.07	VP	32.859	GAP	-38.80	AZP	90.97	TAL	166.45	TAP	222.66	RCA	35.34	APO	157.54	V2	35.063
RC	72.025	GL	-2.37	GP	-4.59	ZAL	55.98	ZAP	25.45	ETS	166.88	ZAE	132.92	ETE	181.27	ZAC	20.96	ETC	60.61	CLP	25.06

PLANETOCENTRIC CONIC

C3 184.163 VHL 13.571 DLA -22.70 RAL 301.59 RAD 6571.0 VEL 17.478 PTH 2.96 VHP 22.541 DPA -27.23 RAP 254.06 ECC 4.0309

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 3 33	1920.51	-11.52	23.66	194.73	116.05	11 35 34	1320.5	-7.92	16.82
90.00	16 15 21	875.77	20.03	323.22	208.09	110.44	16 29 57	275.8	22.63	315.51
100.00	12 8 1	1712.46	-13.80	7.21	193.57	116.78	12 36 33	1112.5	-10.10	.37
100.00	17 53 34	5847.09	22.42	278.78	209.04	110.31	19 31 1	5247.1	24.98	270.92
110.00	12 41 40	1606.96	-19.26	356.21	190.57	118.80	13 8 27	1007.0	-15.27	349.37
110.00	19 36 25	5525.35	28.21	256.70	211.40	110.16	21 8 30	4925.3	30.69	248.38

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-.5173	TRA	-2.1445	TC3	-.1685	BAU	.4148	SGT	1104.5	SGR	494.5	SG3	40.1	ST	366.8	SR	463.2	SS	319.5
RDE	-1.0894	RRA	.3966	RC3	-.0004	FAU	.01156	RRT	-.1413	RRF	.1354	RTF	-.7317	CRT	.4968	CRS	.5244	CST	.9974
FDE	.2413	FRA	.9363	FC3	-.0543	BSP	3256	SGB	1210.2	R23	-.0070	R13	.7324	LSA	583.6	MSA	332.2	SSA	15.5
BDE	1.2059	BRA	2.1809	BC3	.1685	FSP	-94	SG1	1107.3	SG2	488.3	THA	175.50	EL1	517.6	EL2	284.9	ALF	57.67

LAUNCH DATE SEP 18 1965 FLIGHT TIME 94.00 ARRIVAL DATE DEC 21 1965

HELIOCENTRIC CONIC DISTANCE 198.538

RL 150.31 LAL .00 LOL 354.87 VL 22.058 GAL 17.00 AZL 90.57 HCA 72.27 SMA 103.74 ECC .51944 INC .5723 V1 29.644
RP 107.89 LAP -.55 LOP 67.14 VP 34.366 GAP -31.22 AZP 90.17 TAL 162.74 TAP 235.01 RCA 49.85 APO 157.63 V2 35.126
RC 61.731 GL -1.10 GP -5.57 ZAL 50.99 ZAP 19.02 ETS 160.20 ZAE 135.46 ETE 184.85 ZAC 19.80 ETC 86.46 CLP 18.22

PLANETOCENTRIC CONIC

C3 121.059 VHL 11.003 DLA -20.35 RAL 306.49 RAD 6570.3 VEL 15.569 PTH 2.77 VHP 18.615 DPA -29.43 RAP 264.29 ECC 2.9923

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 53 30	1951.78	-12.45	25.49	194.17	115.64	11 26 2	1351.8	-8.90	18.61
90.00	17 4 29	692.94	23.90	311.22	207.65	105.65	17 16 2	92.9	25.82	303.08
100.00	12 1 37	1731.99	-14.40	8.35	193.19	116.48	12 30 29	1132.0	-10.73	1.48
100.00	18 39 3	5676.00	25.99	267.33	208.28	105.30	20 13 39	5076.0	27.84	259.02
110.00	12 41 37	1606.63	-19.25	356.19	190.54	118.81	13 8 23	1006.6	-15.26	349.35
110.00	20 15 33	5374.11	31.29	246.01	209.89	104.52	21 45 7	4774.1	32.97	237.19

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.5924 TRA-2.2504 TC3 -.2151 BAU .3485 SGT 1371.7 SGR 500.2 SG3 58.3 ST 485.8 SR 449.0 SS 414.9
RDE -.8521 RRA .4139 RC3 -.0106 FAU .01233 RRT -.2032 RRF .2017 RTF -.7990 CRT .5090 CRS .5725 CST .9958
FOE .3426 FRA 1.1177 FC3 -.0881 BSP 4071 SGB 1460.0 R23 -.0161 R13 .7999 LSA 699.6 MSA 346.5 SSA 16.2
BOE 1.0378 BRA 2.2882 BC3 .2153 FSP -142 SG1 1376.0 SG2 488.3 THA 175.15 EL1 575.5 EL2 326.3 ALF 40.60

LAUNCH DATE SEP 18 1965 FLIGHT TIME 96.00 ARRIVAL DATE DEC 23 1965

HELIOCENTRIC CONIC DISTANCE 205.006

RL 150.31 LAL .00 LOL 354.87 VL 22.442 GAL 16.28 AZL 90.37 HCA 75.49 SMA 105.14 ECC .49862 INC .3675 V1 29.644
RP 107.85 LAP -.36 LOP 70.36 VP 34.625 GAP -29.88 AZP 90.09 TAL 162.07 TAP 237.56 RCA 52.72 APO 157.57 V2 35.138
RC 59.781 GL -.75 GP -5.82 ZAL 50.13 ZAP 17.82 ETS 158.15 ZAE 136.23 ETE 185.84 ZAC 20.13 ETC 91.79 CLP 16.87

PLANETOCENTRIC CONIC

C3 111.375 VHL 10.553 DLA -19.81 RAL 307.29 RAD 6570.1 VEL 15.255 PTH 2.73 VHP 17.899 DPA -29.86 RAP 266.40 ECC 2.8329

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 50 30	1957.77	-12.62	25.84	193.80	115.56	11 23 8	1357.8	-9.08	18.95
90.00	17 13 52	653.25	24.61	308.53	207.13	104.47	17 24 45	53.2	26.36	300.29
100.00	11 59 17	1735.83	-14.51	8.58	192.85	116.42	12 28 13	1135.8	-10.85	1.70
100.00	18 47 46	5638.46	26.64	264.73	207.71	104.08	20 21 45	5038.5	28.32	256.33
110.00	12 40 31	1606.60	-19.25	356.19	190.26	118.81	13 7 18	1006.6	-15.26	349.35
110.00	20 23 1	5340.45	31.84	243.54	209.15	103.15	21 52 2	4740.5	33.32	234.62

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.6028 TRA-2.2681 TC3 -.2235 BAU .3334 SGT 1429.2 SGR 499.8 SG3 62.8 ST 511.3 SR 443.4 SS 436.1
RDE -.8059 RRA .4155 RC3 -.0138 FAU .01257 RRT -.2196 RRF .2191 RTF -.8108 CRT .5070 CRS .5780 CST .9952
FOE .3650 FRA 1.1584 FC3 -.0977 BSP 4298 SGB 1514.1 R23 -.0181 R13 .8117 LSA 726.6 MSA 346.5 SSA 16.4
BOE 1.0064 BRA 2.3059 BC3 .2239 FSP -155 SG1 1434.0 SG2 486.0 THA 175.04 EL1 590.3 EL2 331.1 ALF 37.12

LAUNCH DATE SEP 18 1965 FLIGHT TIME 98.00 ARRIVAL DATE DEC 25 1965

HELIOCENTRIC CONIC DISTANCE 211.528

RL 150.31 LAL .00 LOL 354.87 VL 22.802 GAL 15.58 AZL 90.17 HCA 78.71 SMA 106.52 ECC .47853 INC .1686 V1 29.644
RP 107.81 LAP -.17 LOP 73.58 VP 34.871 GAP -28.58 AZP 90.03 TAL 161.43 TAP 240.14 RCA 55.55 APO 157.49 V2 35.149
RC 57.879 GL -.37 GP -6.10 ZAL 49.31 ZAP 16.66 ETS 155.74 ZAE 137.10 ETE 186.95 ZAC 20.66 ETC 96.91 CLP 15.53

PLANETOCENTRIC CONIC

C3 102.491 VHL 10.124 DLA -19.24 RAL 308.03 RAD 6570.0 VEL 14.961 PTH 2.70 VHP 17.205 DPA -30.28 RAP 268.54 ECC 2.6867

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 47 8	1963.90	-12.80	26.20	193.34	115.47	11 19 52	1363.9	-9.27	19.30
90.00	17 23 8	612.42	25.27	305.72	206.48	103.22	17 33 20	12.4	26.84	297.40
100.00	11 56 34	1739.86	-14.63	8.81	192.42	116.36	12 25 34	1139.9	-10.98	1.93
100.00	18 56 23	5599.74	27.26	262.01	206.99	102.78	20 29 43	4999.7	28.74	253.53
110.00	12 39 2	1606.74	-19.26	356.20	189.90	118.80	13 5 49	1006.7	-15.26	349.35
110.00	20 30 24	5305.61	32.35	240.95	208.27	101.70	21 58 49	4705.6	33.62	231.95

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.6122 TRA-2.2848 TC3 -.2315 BAU .3181 SGT 1488.5 SGR 498.9 SG3 67.7 ST 537.6 SR 436.7 SS 458.3
RDE -.7602 RRA .4169 RC3 -.0177 FAU .01283 RRT -.2376 RRF .2382 RTF -.8220 CRT .5037 CRS .5824 CST .9945
FOE .3886 FRA 1.2011 FC3 -.1084 BSP 4527 SGB 1569.8 R23 -.0205 R13 .8229 LSA 755.1 MSA 345.6 SSA 16.5
BOE .9761 BRA 2.3226 BC3 .2322 FSP -169 SG1 1493.7 SG2 482.9 THA 174.91 EL1 606.6 EL2 334.4 ALF 33.72

LAUNCH DATE SEP 18 1965 FLIGHT TIME 100.00 ARRIVAL DATE DEC 27 1965

HELIOCENTRIC CONIC DISTANCE 218.100

RL 150.31 LAL .00 LOL 354.87 VL 23.141 GAL 14.92 AZL 89.97 HCA 81.93 SMA 107.86 ECC .45918 INC .0210 V1 29.644
RP 107.78 LAP .03 LOP 76.80 VP 35.104 GAP -27.33 AZP 90.00 TAL 160.82 TAP 242.75 RCA 58.33 APO 157.39 V2 35.160
RC 56.028 GL .06 GP -6.41 ZAL 48.54 ZAP 15.55 ETS 152.89 ZAE 138.06 ETE 188.22 ZAC 21.37 ETC 101.75 CLP 14.20

PLANETOCENTRIC CONIC

C3 94.345 VHL 9.713 DLA -18.64 RAL 308.70 RAD 6569.8 VEL 14.686 PTH 2.66 VHP 16.532 DPA -30.69 RAP 270.70 ECC 2.5527

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 43 22	1970.30	-12.99	26.57	192.80	115.38	11 16 13	1370.3	-9.47	19.67
90.00	17 32 18	5858.46	25.89	280.71	205.69	101.88	19 9 56	5258.5	27.27	272.31
100.00	11 53 26	1744.20	-14.77	9.07	191.91	116.29	12 22 31	1144.2	-11.12	2.18
100.00	19 4 55	5559.80	27.82	259.18	206.13	101.39	20 37 34	4959.8	29.11	250.62
110.00	12 37 10	1607.19	-19.27	356.23	189.46	118.79	13 3 57	1007.2	-15.28	349.38
110.00	20 37 41	5269.55	32.81	238.24	207.23	100.16	22 5 30	4669.6	33.87	229.16

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.6207 TRA-2.3008 TC3 -.2390 BAU .3027 SGT 1549.5 SGR 497.6 SG3 73.1 ST 564.7 SR 429.0 SS 481.5
RDE -.7151 RRA .4182 RC3 -.0222 FAU .01313 RRT -.2574 RRF .2593 RTF -.8326 CRT .4991 CRS .5854 CST .9937
FOE .4133 FRA 1.2460 FC3 -.1205 BSP 4759 SGB 1627.4 R23 -.0231 R13 .8336 LSA 785.0 MSA 343.8 SSA 16.6
BOE .9469 BRA 2.3385 BC3 .2400 FSP -185 SG1 1555.4 SG2 479.0 THA 174.78 EL1 624.4 EL2 336.2 ALF 30.43

LAUNCH DATE SEP 18 1965 FLIGHT TIME 86.00 ARRIVAL DATE DEC 13 1965

HELIOCENTRIC CONIC DISTANCE 173.313

RL	150.31	LAL	.00	LOL	354.87	VL	20.264	GAL	20.23	AZL	91.48	HCA	59.42	SMA	97.93	ECC	.60953	INC	1.4843	VI	29.644
RP	108.04	LAP	-1.28	LOP	54.28	VP	33.189	GAP	-37.15	AZP	90.76	TAL	165.67	TAP	225.08	RCA	38.24	APO	157.62	V2	35.076
RC	69.906	GL	-2.17	GP	-4.75	ZAL	54.89	ZAP	24.11	ETS	165.89	ZAE	133.26	ETE	181.84	ZAC	20.38	ETC	65.34	CLP	23.67

PLANETOCENTRIC CONIC

C3 169.289 VHL 13.011 DLA -22.27 RAL 302.69 RAD 6570.8 VEL 17.047 PTH 2.93 VHP 21.707 DPA -27.68 RAP 256.05 ECC 3.7861

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 2 10	1927.17	-11.72	24.05	194.80	115.96	11 34 17	1327.2	-8.13	17.20
90.00	16 25 30	841.17	20.84	321.00	208.28	109.62	16 39 32	241.2	23.32	313.21
100.00	12 7 24	1716.61	-13.93	7.45	193.68	116.72	12 36 1	1116.6	-10.23	.61
100.00	18 2 57	5815.01	23.16	276.68	209.17	109.45	19 39 52	5215.0	25.60	268.73
110.00	12 42 21	1607.05	-19.27	356.22	190.75	118.80	13 9 8	1007.1	-15.28	349.37
110.00	19 44 30	5497.32	28.85	254.77	211.38	109.18	21 16 7	4897.3	31.19	246.35

DIFFERENTIAL CORRECTIONS

TDE	-.5382	TRA	-2.1705	TC3	-.1787	BAU	.4044
RDE	-1.0412	RRA	.4017	RC3	-.0018	FAU	.01164
FDE	.2606	FRA	.9705	FC3	-.0595	BSP	3312
BDE	1.1721	BRA	2.2073	BC3	.1787	FSP	-101

MID-COURSE EXECUTION ACCURACY

SGT	1157.2	SGR	496.8	SG3	43.2		
RRT	-.1507	RRF	.1463	RTF	-.7462		
SGB	1259.3	R23	-.0094	R13	.7469		
SG1	1160.1	SG2	489.9	THA	175.49		

ORBIT DETERMINATION ACCURACY

ST	390.4	SR	462.1	SS	337.5		
CRT	.5040	CRS	.5372	CST	.9974		
LSA	605.0	MSA	336.9	SSA	15.7		
EL1	528.1	EL2	295.0	ALF	54.29		

LAUNCH DATE SEP 18 1965 FLIGHT TIME 88.00 ARRIVAL DATE DEC 15 1965

HELIOCENTRIC CONIC DISTANCE 179.511

RL	150.31	LAL	.00	LOL	354.87	VL	20.755	GAL	19.37	AZL	91.24	HCA	62.63	SMA	99.40	ECC	.58605	INC	1.2381	VI	29.644
RP	108.00	LAP	-1.10	LOP	57.49	VP	33.505	GAP	-35.58	AZP	90.57	TAL	164.90	TAP	227.53	RCA	41.15	APO	157.66	V2	35.089
RC	67.813	GL	-1.94	GP	-4.93	ZAL	53.85	ZAP	22.80	ETS	164.75	ZAE	133.68	ETE	182.48	ZAC	19.96	ETC	70.38	CLP	22.29

PLANETOCENTRIC CONIC

C3 155.640 VHL 12.476 DLA -21.82 RAL 303.73 RAD 6570.7 VEL 16.642 PTH 2.89 VHP 20.898 DPA -28.13 RAP 258.07 ECC 3.5614

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 0 28	1933.58	-11.91	24.42	194.78	115.88	11 32 42	1333.6	-8.33	17.57
90.00	16 35 29	805.62	21.63	318.70	208.33	108.73	16 48 55	205.6	23.99	310.82
100.00	12 6 28	1720.59	-14.05	7.68	193.69	116.66	12 35 9	1120.6	-10.36	.84
100.00	18 12 11	5781.88	23.89	274.50	209.15	108.52	19 48 33	5181.9	26.20	266.46
110.00	12 42 41	1607.03	-19.27	356.22	190.83	118.80	13 9 28	1007.0	-15.27	349.37
110.00	19 52 27	5468.19	29.49	252.74	211.23	108.13	21 23 35	4868.2	31.68	244.22

DIFFERENTIAL CORRECTIONS

TDE	-.5540	TRA	-2.1919	TC3	-.1881	BAU	.3914
RDE	-.9933	RRA	.4058	RC3	-.0034	FAU	.01178
FDE	.2801	FRA	1.0053	FC3	-.0655	BSP	3473
BDE	1.1374	BRA	2.2292	BC3	.1881	FSP	-110

MID-COURSE EXECUTION ACCURACY

SGT	1208.6	SGR	498.5	SG3	46.6		
RRT	-.1620	RRF	.1583	RTF	-.7603		
SGB	1307.4	R23	-.0110	R13	.7610		
SG1	1211.9	SG2	490.6	THA	175.43		

ORBIT DETERMINATION ACCURACY

ST	413.2	SR	460.2	SS	355.8		
CRT	.5074	CRS	.5481	CST	.9971		
LSA	626.7	MSA	340.7	SSA	15.8		
EL1	538.4	EL2	304.3	ALF	51.00		

LAUNCH DATE SEP 18 1965 FLIGHT TIME 90.00 ARRIVAL DATE DEC 17 1965

HELIOCENTRIC CONIC DISTANCE 185.785

RL	150.31	LAL	.00	LOL	354.87	VL	21.216	GAL	18.55	AZL	91.01	HCA	65.84	SMA	100.87	ECC	.56318	INC	1.0057	VI	29.644
RP	107.96	LAP	-.92	LOP	60.71	VP	33.806	GAP	-34.07	AZP	90.41	TAL	164.16	TAP	229.99	RCA	44.06	APO	157.67	V2	35.101
RC	65.751	GL	-1.69	GP	-5.13	ZAL	52.85	ZAP	21.51	ETS	163.45	ZAE	134.19	ETE	183.18	ZAC	19.72	ETC	75.65	CLP	20.92

PLANETOCENTRIC CONIC

C3 143.111 VHL 11.963 DLA -21.36 RAL 304.71 RAD 6570.6 VEL 16.262 PTH 2.85 VHP 20.114 DPA -28.57 RAP 260.12 ECC 3.3553

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 58 29	1939.77	-12.09	24.78	194.66	115.80	11 30 48	1339.8	-8.52	17.92
90.00	16 45 18	769.09	22.41	316.30	208.24	107.78	16 58 8	169.1	24.63	308.34
100.00	12 5 12	1724.44	-14.17	7.91	193.62	116.60	12 33 56	1124.4	-10.48	1.06
100.00	18 21 16	5747.69	24.61	272.21	209.00	107.52	19 57 4	5147.7	26.78	264.08
110.00	12 42 41	1606.93	-19.26	356.21	190.82	118.80	13 9 28	1006.9	-15.27	349.36
110.00	20 0 16	5437.96	30.11	250.61	210.93	107.01	21 30 54	4838.0	32.14	241.98

DIFFERENTIAL CORRECTIONS

TDE	-.5668	TRA	-2.2110	TC3	-.1969	BAU	.3769
RDE	-.9459	RRA	.4091	RC3	-.0054	FAU	.01194
FDE	.3000	FRA	1.0411	FC3	-.0722	BSP	3691
BDE	1.1027	BRA	2.2485	BC3	.1970	FSP	-120

MID-COURSE EXECUTION ACCURACY

SGT	1260.4	SGR	499.6	SG3	50.2		
RRT	-.1749	RRF	.1716	RTF	-.7739		
SGB	1355.8	R23	-.0123	R13	.7747		
SG1	1263.9	SG2	490.6	THA	175.33		

ORBIT DETERMINATION ACCURACY

ST	436.2	SR	457.4	SS	374.6		
CRT	.5086	CRS	.5573	CST	.9967		
LSA	649.2	MSA	343.7	SSA	16.0		
EL1	549.2	EL2	312.8	ALF	47.67		

LAUNCH DATE SEP 18 1965 FLIGHT TIME 92.00 ARRIVAL DATE DEC 19 1965

HELIOCENTRIC CONIC DISTANCE 192.129

RL	150.31	LAL	.00	LOL	354.87	VL	21.650	GAL	17.76	AZL	90.78	HCA	69.05	SMA	102.31	ECC	.54096	INC	.7844	VI	29.644
RP	107.92	LAP	-.73	LOP	63.92	VP	34.093	GAP	-32.61	AZP	90.28	TAL	163.44	TAP	232.49	RCA	46.97	APO	157.66	V2	35.114
RC	63.722	GL	-1.41	GP	-5.34	ZAL	51.90	ZAP	20.25	ETS	161.94	ZAE	134.78	ETE	183.97	ZAC	19.66	ETC	81.05	CLP	19.57

PLANETOCENTRIC CONIC

C3 131.612 VHL 11.472 DLA -20.87 RAL 305.63 RAD 6570.4 VEL 15.904 PTH 2.81 VHP 19.353 DPA -29.01 RAP 262.19 ECC 3.1660

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 56 9	1945.81	-12.27	25.14	194.46	115.72	11 28 35	1345.8	-8.71	18.27
90.00	16 54 58	731.54	23.17	313.81	208.01	106.75	17 7 9	131.5	25.25	305.76
100.00	12 3 35	1728.22	-14.28	8.13	193.45	116.54	12 32 23	1128.2	-10.60	1.27
100.00	18 30 14	5712.40	25.32	269.82	208.71	106.45	20 5 26	5112.4	27.33	261.60
110.00	12 42 20	1606.77	-19.26	356.20	190.72	118.80	13 9 6	1006.8	-15.27	349.36
110.00	20 7 58	5406.61	30.71	248.36	210.48	105.80	21 38 5	4806.6	32.57	239.64

DIFFERENTIAL CORRECTIONS

TDE	-.5789	TRA	-2.2298	TC3	-.2057	BAU	.3622
RDE	-.8988	RRA	.4117	RC3	-.0078	FAU	.01213
FDE	.3207	FRA	1.0784	FC3	-.0798	BSP	3909
BDE	1.0691	BRA	2.2675	BC3	.2058	FSP	-131

MID-COURSE EXECUTION ACCURACY

SGT	1314.0	SGR	500.2	SG3	54.1		
RRT	-.1887	RRF	.1860	RTF	-.7868		
SGB	1406.0	R23	-.0138	R13	.7876		
SG1	1318.0	SG2	489.8	THA	175.23		

ORBIT DETERMINATION ACCURACY

ST	460.0	SR	453.7	SS	394.2		
CRT	.5088	CRS	.5654	CST	.9963		
LSA	673.2	MSA	345.7	SSA	16.1		
EL1	561.2	EL2	320.2	ALF	44.22		

LAUNCH DATE SEP 18 1965 FLIGHT TIME 102.00 ARRIVAL DATE DEC 29 1965

HELIOCENTRIC CONIC DISTANCE 224.716

RL 150.31 LAL .00 LOL 354.87 VL 23.458 GAL 14.27 AZL 89.78 HCA 85.16 SMA 109.18 ECC .44059 INC .2170 V1 29.644
RP 107.75 LAP .22 LOP 80.03 VP 35.325 GAP -26.13 AZP 89.98 TAL 160.24 TAP 245.40 RCA 61.08 APO 157.28 V2 35.171
RC 54.237 GL .53 GP -6.74 ZAL 47.81 ZAP 14.50 ETS 149.51 ZAE 139.11 ETE 189.65 ZAC 22.25 ETC 106.24 CLP 12.86

PLANETOCENTRIC CONIC

C3 86.881 VHL 9.321 DLA -18.00 RAL 309.32 RAD 6569.7 VEL 14.430 PTH 2.62 VHP 15.879 DPA -31.11 RAP 272.88 ECC 2.4298

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 39 11	1977.12	-13.19	26.98	192.18	115.29	11 12 8	1377.1	-9.68	20.06
90.00	17 41 23	5815.23	26.46	277.67	204.75	100.46	19 18 18	5215.2	27.64	269.20
100.00	11 49 53	1748.98	-14.91	9.35	191.32	116.21	12 19 2	1149.0	-11.27	2.45
100.00	19 13 22	5518.61	28.34	256.23	205.13	99.92	20 45 21	4918.6	29.42	247.59
110.00	12 34 51	1608.06	-19.30	356.28	188.93	118.78	13 1 39	1008.1	-15.31	349.43
110.00	20 44 54	5232.26	33.23	235.41	206.05	98.53	22 12 6	4632.3	34.05	226.26

DIFFERENTIAL CORRECTIONS

TDE -.6285 TRA-2.3157 TC3 -.2458 BAU .2872
RDE -.6705 RRA .4194 RC3 -.0274 FAU .01346
FDE .4394 FRA 1.2932 FC3 -.1341 BSP 4996
BDE .9190 BRA 2.3533 BC3 .2473 FSP -202

MID-COURSE EXECUTION ACCURACY

SGT 1612.2 SGR 496.0 SG3 78.9
RRT -.2790 RRF .2826 RTF -.8427
SGB 1686.8 R23 -.0262 R13 .8437
SG1 1618.7 SG2 474.4 THA 174.63

ORBIT DETERMINATION ACCURACY

ST 592.5 SR 420.1 SS 505.7
CRT .4931 CRS .5871 CST .9928
LSA 816.5 MSA 341.1 SSA 16.7
EL1 643.7 EL2 336.4 ALF 27.29

LAUNCH DATE SEP 18 1965 FLIGHT TIME 104.00 ARRIVAL DATE DEC 31 1965

HELIOCENTRIC CONIC DISTANCE 231.372

RL 150.31 LAL .00 LOL 354.87 VL 23.756 GAL 13.66 AZL 89.59 HCA 88.38 SMA 110.46 ECC .42274 INC .4071 V1 29.644
RP 107.72 LAP .41 LOP 83.25 VP 35.534 GAP -24.97 AZP 89.99 TAL 159.70 TAP 248.08 RCA 63.76 APO 157.15 V2 35.181
RC 52.511 GL 1.05 GP -7.11 ZAL 47.14 ZAP 13.52 ETS 145.49 ZAE 140.26 ETE 191.29 ZAC 23.29 ETC 110.35 CLP 11.53

PLANETOCENTRIC CONIC

C3 80.045 VHL 8.947 DLA -17.32 RAL 309.87 RAD 6569.6 VEL 14.191 PTH 2.58 VHP 15.247 DPA -31.54 RAP 275.07 ECC 2.3173

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 34 33	1984.54	-13.40	27.42	191.49	115.18	11 7 38	1384.5	-9.90	20.49
90.00	17 50 26	5770.73	26.97	274.51	203.67	98.96	19 26 36	5170.7	27.94	265.98
100.00	11 45 53	1754.38	-15.07	9.67	190.66	116.12	12 15 7	1154.4	-11.44	2.76
100.00	19 21 47	5476.12	28.80	253.16	203.99	98.36	20 53 3	4876.1	29.66	244.46
110.00	12 32 6	1609.59	-19.35	356.37	188.34	118.75	12 58 56	1009.6	-15.36	349.51
110.00	20 52 3	5193.70	33.58	232.45	204.73	96.82	22 18 37	4593.7	34.16	223.26

DIFFERENTIAL CORRECTIONS

TDE -.6350 TRA-2.3294 TC3 -.2516 BAU .2716
RDE -.6265 RRA .4209 RC3 -.0334 FAU .01382
FDE .4670 FRA 1.3431 FC3 -.1495 BSP 5241
BDE .8921 BRA 2.3671 BC3 .2438 FSP -220

MID-COURSE EXECUTION ACCURACY

SGT 1676.2 SGR 494.2 SG3 85.2
RRT -.3031 RRF .3085 RTF -.8523
SGB 1747.6 R23 -.0296 R13 .8534
SG1 1683.5 SG2 468.9 THA 174.46

ORBIT DETERMINATION ACCURACY

ST 620.7 SR 410.1 SS 531.1
CRT .4851 CRS .5871 CST .9918
LSA 849.3 MSA 337.5 SSA 16.8
EL1 664.2 EL2 335.1 ALF 24.34

LAUNCH DATE SEP 18 1965 FLIGHT TIME 106.00 ARRIVAL DATE JAN 2 1966

HELIOCENTRIC CONIC DISTANCE 238.063

RL 150.31 LAL .00 LOL 354.87 VL 24.036 GAL 13.07 AZL 89.40 HCA 91.61 SMA 111.70 ECC .40564 INC .5966 V1 29.644
RP 107.69 LAP .60 LOP 86.48 VP 35.731 GAP -23.85 AZP 90.02 TAL 159.18 TAP 250.80 RCA 66.39 APO 157.01 V2 35.191
RC 50.858 GL 1.63 GP -7.52 ZAL 46.52 ZAP 12.64 ETS 140.73 ZAE 141.50 ETE 193.17 ZAC 24.46 ETC 114.07 CLP 10.19

PLANETOCENTRIC CONIC

C3 73.793 VHL 8.590 DLA -16.60 RAL 310.36 RAD 6569.4 VEL 13.969 PTH 2.55 VHP 14.634 DPA -31.97 RAP 277.27 ECC 2.2144

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 29 26	1992.76	-13.64	27.90	190.73	115.06	11 2 39	1392.8	-10.15	20.96
90.00	17 59 26	5724.89	27.42	271.23	202.46	97.37	19 34 51	5124.9	28.15	262.64
100.00	11 41 23	1760.59	-15.26	10.04	189.93	116.02	12 10 44	1160.6	-11.64	3.12
100.00	19 30 10	5432.29	29.19	249.96	202.71	96.72	21 0 42	4832.3	29.82	241.21
110.00	12 28 53	1611.82	-19.42	356.50	187.67	118.70	12 55 45	1011.8	-15.44	349.64
110.00	20 59 10	5153.84	33.86	229.37	203.27	95.01	22 25 4	4553.8	34.18	220.14

DIFFERENTIAL CORRECTIONS

TDE -.6440 TRA-2.3451 TC3 -.2579 BAU .2575
RDE -.5829 RRA .4228 RC3 -.0402 FAU .01420
FDE .4969 FRA 1.3966 FC3 -.1666 BSP 5419
BDE .8686 BRA 2.3830 BC3 .2610 FSP -239

MID-COURSE EXECUTION ACCURACY

SGT 1745.0 SGR 492.5 SG3 92.1
RRT -.3290 RRF .3371 RTF -.8611
SGB 1813.2 R23 -.0343 R13 .8623
SG1 1753.1 SG2 462.9 THA 174.30

ORBIT DETERMINATION ACCURACY

ST 651.5 SR 398.7 SS 558.3
CRT .4766 CRS .5856 CST .9909
LSA 885.5 MSA 332.8 SSA 16.9
EL1 687.9 EL2 331.9 ALF 21.50

LAUNCH DATE SEP 18 1965 FLIGHT TIME 108.00 ARRIVAL DATE JAN 4 1966

HELIOCENTRIC CONIC DISTANCE 244.784

RL 150.31 LAL .00 LOL 354.87 VL 24.297 GAL 12.51 AZL 89.21 HCA 94.84 SMA 112.90 ECC .38929 INC .7868 V1 29.644
RP 107.66 LAP .78 LOP 89.72 VP 35.916 GAP -22.76 AZP 90.07 TAL 158.71 TAP 253.55 RCA 68.95 APO 156.85 V2 35.200
RC 49.288 GL 2.26 GP -7.97 ZAL 45.95 ZAP 11.88 ETS 135.12 ZAE 142.82 ETE 195.34 ZAC 25.76 ETC 117.39 CLP 8.84

PLANETOCENTRIC CONIC

C3 68.078 VHL 8.251 DLA -15.83 RAL 310.78 RAD 6569.3 VEL 13.763 PTH 2.51 VHP 14.041 DPA -32.42 RAP 279.49 ECC 2.1204

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 23 48	2001.99	-13.91	28.45	189.90	114.92	10 57 10	1402.0	-10.43	21.49
90.00	18 8 26	5677.65	27.78	267.82	201.11	95.70	19 43 4	5077.7	28.28	259.19
100.00	11 36 23	1767.81	-15.47	10.47	189.13	115.90	12 5 50	1167.8	-11.86	3.53
100.00	19 38 33	5387.06	29.51	246.63	201.29	95.00	21 8 20	4787.1	29.89	237.85
110.00	12 25 9	1615.01	-19.53	356.69	186.94	118.63	12 52 4	1015.0	-15.55	349.82
110.00	21 6 16	5112.63	34.06	226.17	201.67	93.13	22 31 28	4512.6	34.12	216.93

DIFFERENTIAL CORRECTIONS

TDE -.6494 TRA-2.3570 TC3 -.2618 BAU .2423
RDE -.5398 RRA .4253 RC3 -.0482 FAU .01465
FDE .5283 FRA 1.4529 FC3 -.1862 BSP 5665
BDE .8445 BRA 2.3950 BC3 .2662 FSP -261

MID-COURSE EXECUTION ACCURACY

SGT 1812.3 SGR 491.0 SG3 99.6
RRT -.3583 RRF .3690 RTF -.8697
SGB 1877.6 R23 -.0388 R13 .8710
SG1 1821.4 SG2 456.1 THA 174.08

ORBIT DETERMINATION ACCURACY

ST 681.2 SR 386.0 SS 586.4
CRT .4643 CRS .5816 CST .9897
LSA 921.6 MSA 327.6 SSA 17.0
EL1 711.2 EL2 327.5 ALF 18.89

LAUNCH DATE SEP 18 1965 FLIGHT TIME 110.00 ARRIVAL DATE JAN 6 1966

HELIOCENTRIC CONIC DISTANCE 251.532

RL 150.31 LAL .00 LOL 354.87 VL 24.543 GAL 11.97 AZL 89.02 HCA 98.08 SMA 114.06 ECC .37369 INC .9790 VI 29.644
RP 107.63 LAP .97 LOP 92.95 VP 36.091 GAP -21.72 AZP 90.14 TAL 158.27 TAP 256.34 RCA 71.44 APO 156.69 V2 35.209
RC 47.809 GL 2.97 GP -8.47 ZAL 45.44 ZAP 11.29 ETS 128.62 ZAE 144.20 ETE 197.85 ZAC 27.18 ETC 120.35 CLP 7.49

PLANETOCENTRIC CONIC

C3 62.863 VHL 7.929 DLA -15.01 RAL 311.14 RAD 6569.2 VEL 13.573 PTH 2.48 VHP 13.468 DPA -32.88 RAP 281.72 ECC 2.0346

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 17 36	2012.49	-14.21	29.07	189.01	114.75	10 51 9	1412.5	-10.75	22.10
90.00	18 17 28	5628.95	28.06	264.29	199.63	93.95	19 51 17	5028.9	28.32	255.63
100.00	11 30 48	1776.29	-15.72	10.97	188.27	115.75	12 0 25	1176.3	-12.13	4.02
100.00	19 46 57	5340.37	29.74	243.18	199.75	93.20	21 15 58	4740.4	29.86	234.38
110.00	12 20 54	1619.40	-19.67	356.95	186.15	118.54	12 47 53	1019.4	-15.71	350.07
110.00	21 13 21	5070.03	34.17	222.85	199.95	91.17	22 37 51	4470.0	33.95	213.61

DIFFERENTIAL CORRECTIONS

TDE -.6543 TRA-2.3676 TC3 -.2641 BAU .2271
RDE -.4971 RRA .4286 RC3 -.0572 FAU .01513
FDE .5621 FRA 1.5128 FC3 -.2083 BSP 5915
BDE .8218 BRA 2.4060 BC3 .2703 FSP -285

MID-COURSE EXECUTION ACCURACY

SGT 1880.6 SGR 490.0 SG3 107.7
RRT -.3908 RRF .4042 RTF -.8778
SGB 1943.4 R23 -.0440 R13 .8792
SG1 1890.9 SG2 448.6 THA 173.84

ORBIT DETERMINATION ACCURACY

ST 711.4 SR 371.9 SS 616.1
CRT .4489 CRS .5750 CST .9885
LSA 959.4 MSA 321.5 SSA 17.0
EL1 735.7 EL2 321.4 ALF 16.43

LAUNCH DATE SEP 18 1965 FLIGHT TIME 112.00 ARRIVAL DATE JAN 8 1966

HELIOCENTRIC CONIC DISTANCE 258.303

RL 150.31 LAL .00 LOL 354.87 VL 24.772 GAL 11.45 AZL 88.83 HCA 101.31 SMA 115.18 ECC .35881 INC 1.1743 VI 29.644
RP 107.61 LAP 1.15 LOP 96.18 VP 36.255 GAP -20.70 AZP 90.23 TAL 157.86 TAP 259.17 RCA 73.85 APO 156.51 V2 35.217
RC 46.433 GL 3.74 GP -9.02 ZAL 44.98 ZAP 10.90 ETS 121.30 ZAE 145.63 ETE 200.78 ZAC 28.69 ETC 122.95 CLP 6.13

PLANETOCENTRIC CONIC

C3 58.111 VHL 7.623 DLA -14.13 RAL 311.42 RAD 6569.1 VEL 13.397 PTH 2.45 VHP 12.913 DPA -33.37 RAP 283.96 ECC 1.9564

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 10 48	2024.52	-14.55	29.79	188.08	114.56	10 44 32	1424.5	-11.11	22.80
90.00	18 26 34	5578.69	28.24	260.62	198.04	92.12	19 59 33	4978.7	28.24	251.96
100.00	11 24 38	1786.29	-16.02	11.57	187.36	115.58	11 54 24	1186.3	-12.45	4.60
100.00	19 55 25	5292.15	29.87	239.60	198.09	91.32	21 23 37	4692.2	29.73	230.80
110.00	12 16 4	1625.22	-19.86	357.29	185.31	118.41	12 43 9	1025.2	-15.91	350.40
110.00	21 20 29	5025.99	-34.17	219.41	198.11	89.13	22 44 15	4426.0	33.68	210.20

DIFFERENTIAL CORRECTIONS

TDE -.6592 TRA-2.3775 TC3 -.2649 BAU .2124
RDE -.4547 RRA .4331 RC3 -.0676 FAU .01565
FDE .5986 FRA 1.5768 FC3 -.2331 BSP 6161
BDE .8008 BRA 2.4166 BC3 .2734 FSP -311

MID-COURSE EXECUTION ACCURACY

SGT 1950.5 SGR 490.0 SG3 116.6
RRT -.4265 RRF .4431 RTF -.8854
SGB 2011.1 R23 -.0499 R13 .8870
SG1 1962.2 SG2 440.6 THA 173.56

ORBIT DETERMINATION ACCURACY

ST 742.5 SR 356.3 SS 647.6
CRT .4298 CRS .5648 CST .9872
LSA 999.2 MSA 314.7 SSA 17.1
EL1 761.5 EL2 313.7 ALF 14.10

LAUNCH DATE SEP 18 1965 FLIGHT TIME 114.00 ARRIVAL DATE JAN 10 1966

HELIOCENTRIC CONIC DISTANCE 265.092

RL 150.31 LAL .00 LOL 354.87 VL 24.987 GAL 10.95 AZL 88.63 HCA 104.54 SMA 116.26 ECC .34466 INC 1.3742 VI 29.644
RP 107.58 LAP 1.33 LOP 99.42 VP 36.410 GAP -19.72 AZP 90.35 TAL 157.50 TAP 262.04 RCA 76.19 APO 156.33 V2 35.224
RC 45.168 GL 4.60 GP -9.64 ZAL 44.59 ZAP 10.74 ETS 113.36 ZAE 147.07 ETE 204.19 ZAC 30.30 ETC 125.23 CLP 4.76

PLANETOCENTRIC CONIC

C3 53.790 VHL 7.334 DLA -13.18 RAL 311.64 RAD 6568.9 VEL 13.234 PTH 2.42 VHP 12.378 DPA -33.89 RAP 286.21 ECC 1.8853

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 3 20	2038.40	-14.94	30.62	187.10	114.34	10 37 19	1438.4	-11.53	23.61
90.00	18 35 46	5526.79	28.32	256.83	196.33	90.22	20 7 53	4926.8	28.05	248.17
100.00	11 17 49	1798.11	-16.37	12.27	186.41	115.37	11 47 47	1198.1	-12.82	5.28
100.00	20 3 58	5242.31	29.89	235.90	196.33	89.37	21 31 21	4642.3	29.48	227.12
110.00	12 10 37	1632.75	-20.10	357.74	184.42	118.25	12 37 50	1032.7	-16.17	350.83
110.00	21 27 40	4980.44	34.07	215.86	196.17	87.03	22 50 40	4380.4	33.28	206.70

DIFFERENTIAL CORRECTIONS

TDE -.6637 TRA-2.3858 TC3 -.2636 BAU .1979
RDE -.4124 RRA .4391 RC3 -.0794 FAU .01622
FDE .6383 FRA 1.6451 FC3 -.2611 BSP 6412
BDE .7814 BRA 2.4259 BC3 .2753 FSP -340

MID-COURSE EXECUTION ACCURACY

SGT 2020.6 SGR 491.4 SG3 126.3
RRT -.4657 RRF .4857 RTF -.8927
SGB 2079.5 R23 -.0566 R13 .8944
SG1 2034.1 SG2 432.0 THA 173.23

ORBIT DETERMINATION ACCURACY

ST 773.8 SR 339.1 SS 681.1
CRT .4055 CRS .5499 CST .9858
LSA 1040.7 MSA 307.2 SSA 17.2
EL1 788.1 EL2 304.3 ALF 11.87

LAUNCH DATE SEP 18 1965 FLIGHT TIME 116.00 ARRIVAL DATE JAN 12 1966

HELIOCENTRIC CONIC DISTANCE 271.896

RL 150.31 LAL .00 LOL 354.87 VL 25.187 GAL 10.48 AZL 88.42 HCA 107.78 SMA 117.29 ECC .33121 INC 1.5800 VI 29.644
RP 107.56 LAP 1.50 LOP 102.66 VP 36.554 GAP -18.77 AZP 90.48 TAL 157.17 TAP 264.95 RCA 78.44 APO 156.14 V2 35.231
RC 44.025 GL 5.55 GP -10.34 ZAL 44.27 ZAP 10.87 ETS 105.15 ZAE 148.47 ETE 208.17 ZAC 31.99 ETC 127.21 CLP 3.37

PLANETOCENTRIC CONIC

C3 49.871 VHL 7.062 DLA -12.16 RAL 311.79 RAD 6568.8 VEL 13.086 PTH 2.39 VHP 11.861 DPA -34.46 RAP 288.46 ECC 1.8208

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 55 10	2054.48	-15.39	31.59	186.08	114.07	10 29 24	1454.5	-12.01	24.55
90.00	18 45 6	5473.14	28.27	252.90	194.52	88.25	20 16 19	4873.1	27.73	244.28
100.00	11 10 17	1812.09	-16.77	13.11	185.42	115.11	11 40 29	1212.1	-13.25	6.09
100.00	20 12 40	5190.76	29.79	232.07	194.46	87.36	21 39 10	4590.8	29.10	223.33
110.00	12 4 30	1642.31	-20.41	358.31	183.50	118.04	12 31 53	1042.3	-16.50	351.37
110.00	21 34 56	4933.31	33.84	212.19	194.13	84.87	22 57 9	4333.3	32.76	203.12

DIFFERENTIAL CORRECTIONS

TDE -.6681 TRA-2.3936 TC3 -.2604 BAU .1843
RDE -.3700 RRA .4469 RC3 -.0927 FAU .01684
FDE .6816 FRA 1.7185 FC3 -.2923 BSP 6666
BDE .7637 BRA 2.4350 BC3 .2764 FSP -371

MID-COURSE EXECUTION ACCURACY

SGT 2091.8 SGR 494.8 SG3 136.9
RRT -.5082 RRF .5320 RTF -.8995
SGB 2149.5 R23 -.0643 R13 .9014
SG1 2107.5 SG2 423.0 THA 172.86

ORBIT DETERMINATION ACCURACY

ST 805.7 SR 320.2 SS 716.7
CRT .3739 CRS .5285 CST .9844
LSA 1084.3 MSA 299.1 SSA 17.2
EL1 815.9 EL2 293.2 ALF 9.72

LAUNCH DATE SEP 18 1965 FLIGHT TIME 118.00 ARRIVAL DATE JAN 14 1966

HELIOCENTRIC CONIC DISTANCE 278.711

RL	150.31	LAL	.00	LOL	354.87	VL	25.375	GAL	10.03	AZL	88.21	HCA	111.02	SMA	118.28	ECC	.31846	INC	1.7936	VI	29.644
RP	107.55	LAP	1.67	LOP	105.90	VP	36.689	GAP	-17.85	AZP	90.64	TAL	156.88	TAP	267.90	RCA	80.61	APO	155.95	V2	35.237
RC	43.015	GL	6.60	GP	-11.12	ZAL	44.02	ZAP	11.29	ETS	97.12	ZAE	149.79	ETE	212.78	ZAC	33.77	ETC	128.92	CLP	1.97

PLANETOCENTRIC CONIC

C3	46.328	VHL	6.806	DLA	-11.05	RAL	311.86	RAD	6568.7	VEL	12.950	PTH	2.36	VHP	11.364	DPA	-35.08	RAP	290.74	ECC	1.7624

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 46 12	2073.14	-15.90	32.72	185.04	113.74	10 20 45	1473.1	-12.56	25.64
90.00	18 54 38	5417.61	28.09	248.85	192.63	86.23	20 24 55	4817.6	27.27	240.28
100.00	11 2 0	1828.60	-17.25	14.11	184.41	114.80	11 32 29	1228.6	-13.76	7.05
100.00	20 21 31	5137.38	29.55	228.12	192.51	85.29	21 47 9	4537.4	28.59	219.45
110.00	11 57 41	1654.24	-20.79	359.03	182.56	117.77	12 25 15	1054.2	-16.91	352.05
110.00	21 42 20	4884.50	33.48	208.43	192.02	82.67	23 3 44	4284.5	32.11	199.47

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-.6728	TRA	-2.4002	TC3	-.2542	BAU	.1710	SGT	2163.1	SGR	501.1	SG3	148.4	ST	838.1	SR	299.5	SS	754.7
RDE	-.3272	RRA	.4571	RC3	-.1079	FAU	.01751	RRT	-.5538	RRF	.5816	RTF	-.9061	CRT	.3323	CRS	.4979	CST	.9829
FDE	.7292	FRA	1.7970	FC3	-.3272	BSP	6912	SGB	2220.3	R23	-.0729	R13	.9082	LSA	1130.1	MSA	290.4	SSA	17.2
BDE	.7482	BRA	2.4434	BC3	.2762	FSP	-406	SG1	2181.5	SG2	413.7	THA	172.41	ELI	844.7	EL2	280.3	ALF	7.62

LAUNCH DATE SEP 18 1965 FLIGHT TIME 120.00 ARRIVAL DATE JAN 16 1966

HELIOCENTRIC CONIC DISTANCE 285.534

RL	150.31	LAL	.00	LOL	354.87	VL	25.549	GAL	9.60	AZL	87.98	HCA	114.26	SMA	119.23	ECC	.30639	INC	2.0167	VI	29.644
RP	107.53	LAP	1.84	LOP	109.14	VP	36.815	GAP	-16.96	AZP	90.83	TAL	156.63	TAP	270.88	RCA	82.70	APO	155.76	V2	35.242
RC	42.147	GL	7.76	GP	-11.99	ZAL	43.86	ZAP	12.00	ETS	89.68	ZAE	150.94	ETE	218.09	ZAC	35.62	ETC	130.37	CLP	.54

PLANETOCENTRIC CONIC

C3	43.137	VHL	6.568	DLA	-9.85	RAL	311.85	RAD	6568.6	VEL	12.826	PTH	2.33	VHP	10.887	DPA	-35.77	RAP	293.02	ECC	1.7099

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 36 23	2094.81	-16.49	34.04	183.99	113.35	10 11 18	1494.8	-13.19	26.91
90.00	19 4 24	5360.05	27.76	244.67	190.66	84.16	20 33 44	4760.0	26.66	236.18
100.00	10 52 52	1848.07	-17.80	15.29	183.39	114.42	11 23 40	1248.1	-14.35	8.19
100.00	20 30 36	5082.03	29.17	224.05	190.48	83.18	21 55 18	4482.0	27.92	215.47
110.00	11 50 4	1668.95	-21.25	359.92	181.60	117.43	12 17 53	1069.0	-17.41	352.90
110.00	21 49 54	4833.90	32.98	204.57	189.84	80.44	23 10 28	4233.9	31.31	195.74

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-.6765	TRA	-2.4042	TC3	-.2449	BAU	.1585	SGT	2232.3	SGR	511.3	SG3	161.0	ST	869.6	SR	277.2	SS	795.5
RDE	-.2836	RRA	.4702	RC3	-.1249	FAU	.01822	RRT	-.6022	RRF	.6335	RTF	-.9123	CRT	.2750	CRS	.4534	CST	.9811
FDE	.7819	FRA	1.8813	FC3	-.3657	BSP	7196	SGB	2290.2	R23	-.0820	R13	.9147	LSA	1177.4	MSA	281.4	SSA	17.2
BDE	.7335	BRA	2.4498	BC3	.2749	FSP	-443	SG1	2254.2	SG2	404.3	THA	171.88	ELI	873.3	EL2	265.4	ALF	5.52

LAUNCH DATE SEP 18 1965 FLIGHT TIME 122.00 ARRIVAL DATE JAN 18 1966

HELIOCENTRIC CONIC DISTANCE 292.362

RL	150.31	LAL	.00	LOL	354.87	VL	25.712	GAL	9.19	AZL	87.75	HCA	117.49	SMA	120.13	ECC	.29499	INC	2.2516	VI	29.644
RP	107.51	LAP	2.00	LOP	112.38	VP	36.933	GAP	-16.09	AZP	91.04	TAL	156.41	TAP	273.91	RCA	84.69	APO	155.57	V2	35.247
RC	41.430	GL	9.04	GP	-12.98	ZAL	43.79	ZAP	13.01	ETS	83.09	ZAE	151.84	ETE	224.10	ZAC	37.55	ETC	131.59	CLP	-.91

PLANETOCENTRIC CONIC

C3	40.278	VHL	6.347	DLA	-8.54	RAL	311.77	RAD	6568.5	VEL	12.714	PTH	2.31	VHP	10.430	DPA	-36.55	RAP	295.32	ECC	1.6629

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 25 38	2119.99	-17.17	35.58	182.94	112.87	10 0 58	1520.0	-13.92	28.41
90.00	19 14 29	5300.28	27.27	240.37	188.63	82.05	20 42 50	4700.3	25.89	231.97
100.00	10 42 49	1870.96	-18.44	16.69	182.36	113.96	11 14 0	1271.0	-15.04	9.54
100.00	20 39 59	5024.55	28.64	219.86	188.40	81.04	22 3 43	4424.5	27.10	211.39
110.00	11 41 37	1686.88	-21.81	1.01	180.65	117.00	12 9 44	1086.9	-18.01	353.94
110.00	21 57 41	4781.39	32.31	200.61	187.62	78.19	23 17 22	4181.4	30.35	191.95

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-.6812	TRA	-2.4078	TC3	-.2320	BAU	.1471	SGT	2301.5	SGR	526.7	SG3	174.5	ST	901.8	SR	253.7	SS	838.6
RDE	-.2391	RRA	.4866	RC3	-.1443	FAU	.01902	RRT	-.6515	RRF	.6867	RTF	-.9180	CRT	.1963	CRS	.3878	CST	.9794
FDE	.8395	FRA	1.9708	FC3	-.4089	BSP	7495	SGB	2361.0	R23	-.0928	R13	.9208	LSA	1227.3	MSA	272.2	SSA	17.1
BDE	.7220	BRA	2.4565	BC3	.2732	FSP	-486	SG1	2327.7	SG2	395.1	THA	171.27	ELI	903.2	EL2	248.4	ALF	3.42

LAUNCH DATE SEP 18 1965 FLIGHT TIME 124.00 ARRIVAL DATE JAN 20 1966

HELIOCENTRIC CONIC DISTANCE 299.192

RL	150.31	LAL	.00	LOL	354.87	VL	25.863	GAL	8.80	AZL	87.50	HCA	120.73	SMA	120.98	ECC	.28423	INC	2.5008	VI	29.644
RP	107.50	LAP	2.15	LOP	115.63	VP	37.042	GAP	-15.26	AZP	91.28	TAL	156.24	TAP	276.97	RCA	86.60	APO	155.37	V2	35.251
RC	40.873	GL	10.46	GP	-14.10	ZAL	43.83	ZAP	14.30	ETS	77.48	ZAE	152.39	ETE	230.73	ZAC	39.56	ETC	132.59	CLP	-2.38

PLANETOCENTRIC CONIC

C3	37.737	VHL	6.143	DLA	-7.12	RAL	311.60	RAD	6568.5	VEL	12.614	PTH	2.29	VHP	9.993	DPA	-37.43	RAP	297.65	ECC	1.6211

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 13 49	2149.24	-17.93	37.39	181.91	112.29	9 49 39	1549.2	-14.75	30.15
90.00	19 24 57	5238.10	26.60	235.94	186.57	79.93	20 52 15	4638.1	24.94	227.66
100.00	10 31 46	1897.82	-19.17	18.35	181.36	113.38	11 3 23	1297.8	-15.84	11.14
100.00	20 49 42	4964.75	27.93	215.56	186.29	78.88	22 12 27	4364.8	26.11	207.23
110.00	11 32 13	1708.52	-22.47	2.34	179.72	116.46	12 0 42	1108.5	-18.74	355.20
110.00	22 5 44	4726.82	31.48	196.58	185.38	75.93	23 24 31	4126.8	29.23	188.10

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-.6890	TRA	-2.4118	TC3	-.2178	BAU	.1381	SGT	2371.4	SGR	548.8	SG3	189.3	ST	935.7	SR	229.7	SS	885.6
RDE	-.1926	RRA	.5074	RC3	-.1657	FAU	.01983	RRT	-.7002	RRF	.7393	RTF	-.9234	CRT	.0846	CRS	.2889	CST	.9779
FDE	.9048	FRA	2.0673	FC3	-.4548	BSP	7751	SGB	2434.1	R23	-.1051	R13	.9266	LSA	1281.9	MSA	262.7	SSA	17.0
BDE	.7154	BRA	2.4646	BC3	.2737	FSP	-530	SG1	2403.2	SG2	386.7	THA	170.55	ELI	935.9	EL2	228.9	ALF	1.27

LAUNCH DATE SEP 18 1965 FLIGHT TIME 126.00 ARRIVAL DATE JAN 22 1966

HELIOCENTRIC CONIC DISTANCE 306.021

RL	150.31	LAL	.00	LOL	354.87	VL	26.004	GAL	8.43	AZL	87.23	HCA	123.97	SMA	121.79	ECC	.27411	INC	2.7673	V1	29.644
RP	107.49	LAP	2.29	LOP	118.87	VP	37.143	GAP	-14.44	AZP	91.55	TAL	156.10	TAP	280.07	RCA	88.41	APO	155.18	V2	35.254
RC	40.482	GL	12.03	GP	-15.38	ZAL	43.98	ZAP	15.85	ETS	72.85	ZAE	152.49	ETE	237.80	ZAC	41.66	ETC	133.38	CLP	-3.89

PLANETOCENTRIC CONIC

C3 35.501 VHL 5.958 DLA -5.56 RAL 311.35 RAD 6568.4 VEL 12.525 PTH 2.27 VHP 9.578 DPA -38.43 RAP 300.01 ECC 1.5843

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 0 51	2183.21	-18.80	39.50	180.92	111.58	9 37 14	1583.2	-15.70	32.20
90.00	19 35 54	5173.26	25.75	231.38	184.48	77.80	21 2 7	4573.3	23.81	223.25
100.00	10 19 34	1929.28	-20.01	20.31	180.39	112.68	10 51 43	1329.3	-16.76	13.02
100.00	20 59 52	4902.42	27.03	211.14	184.16	76.72	22 21 35	4302.4	24.93	202.97
110.00	11 21 48	1734.45	-23.25	3.95	178.82	115.79	11 50 42	1134.5	-19.59	356.73
110.00	22 14 8	4670.02	30.47	192.46	183.13	73.69	23 31 58	4070.0	27.93	184.18

DIFFERENTIAL CORRECTIONS

TDE	-.6984	TRA	-2.4152	TC3	-.2005	BAU	.1310												
RDE	-.1436	RRA	.5335	RC3	-.1896	FAU	.02065												
FDE	.9780	FRA	2.1702	FC3	-.5036	BSP	8003												
BDE	.7130	BRA	2.4735	BC3	.2760	FSP	-578												

MID-COURSE EXECUTION ACCURACY

SGT	2440.0	SGR	579.5	SG3	205.2						
RRT	-.7469	RRF	.7895	RTF	-.9286						
SGB	2507.8	R23	-.1184	R13	.9322						
SG1	2479.0	SG2	379.2	THA	169.70						

ORBIT DETERMINATION ACCURACY

ST	970.1	SR	207.4	SS	936.4						
CRT	-.0770	CRS	.1382	CST	.9764						
LSA	1340.4	MSA	253.3	SSA	16.8						
EL1	970.3	EL2	206.7	ALF	179.01						

LAUNCH DATE SEP 18 1965 FLIGHT TIME 128.00 ARRIVAL DATE JAN 24 1966

HELIOCENTRIC CONIC DISTANCE 312.846

RL	150.31	LAL	.00	LOL	354.87	VL	26.135	GAL	8.08	AZL	86.94	HCA	127.21	SMA	122.56	ECC	.26459	INC	3.0551	V1	29.644
RP	107.48	LAP	2.43	LOP	122.12	VP	37.237	GAP	-13.65	AZP	91.85	TAL	155.99	TAP	283.20	RCA	90.13	APO	154.99	V2	35.256
RC	40.263	GL	13.77	GP	-16.84	ZAL	44.27	ZAP	17.66	ETS	69.12	ZAE	152.08	ETE	245.00	ZAC	43.85	ETC	133.98	CLP	-5.42

PLANETOCENTRIC CONIC

C3 33.562 VHL 5.793 DLA -3.85 RAL 311.00 RAD 6568.3 VEL 12.447 PTH 2.25 VHP 9.186 DPA -39.59 RAP 302.41 ECC 1.5524

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 46 34	2222.65	-19.76	41.99	179.99	110.70	9 23 37	1622.7	-16.77	34.60
90.00	19 47 26	5105.47	24.69	226.70	182.41	75.68	21 12 31	4505.5	22.48	218.73
100.00	10 6 7	1966.06	-20.96	22.63	179.50	111.82	10 38 53	1366.1	-17.81	15.25
100.00	21 10 34	4837.29	25.93	206.61	182.05	74.58	22 31 12	4237.3	23.56	198.62
110.00	11 10 14	1765.34	-24.15	5.90	178.00	114.96	11 39 39	1165.3	-20.58	358.57
110.00	22 22 57	4610.78	29.26	188.27	180.90	71.48	23 39 48	4010.8	26.45	180.21

DIFFERENTIAL CORRECTIONS

TDE	-.7104	TRA	-2.4185	TC3	-.1808	BAU	.1264												
RDE	-.0908	RRA	.5659	RC3	-.2160	FAU	.02148												
FDE	1.0604	FRA	2.2791	FC3	-.5541	BSP	8249												
BDE	.7162	BRA	2.4838	BC3	.2817	FSP	-630												

MID-COURSE EXECUTION ACCURACY

SGT	2506.9	SGR	620.8	SG3	222.2						
RRT	-.7899	RRF	.8353	RTF	-.9333						
SGB	2582.6	R23	-.1326	R13	.9376						
SG1	2555.4	SG2	373.5	THA	168.69						

ORBIT DETERMINATION ACCURACY

ST	1005.4	SR	190.9	SS	991.2						
CRT	-.3014	CRS	-.0838	CST	.9749						
LSA	1403.5	MSA	244.4	SSA	16.4						
EL1	1007.1	EL2	181.7	ALF	176.61						

LAUNCH DATE SEP 18 1965 FLIGHT TIME 130.00 ARRIVAL DATE JAN 26 1966

HELIOCENTRIC CONIC DISTANCE 319.665

RL	150.31	LAL	.00	LOL	354.87	VL	26.256	GAL	7.75	AZL	86.63	HCA	130.45	SMA	123.28	ECC	.25567	INC	3.3687	V1	29.644
RP	107.48	LAP	2.56	LOP	125.37	VP	37.324	GAP	-12.89	AZP	92.19	TAL	155.92	TAP	286.37	RCA	91.76	APO	154.80	V2	35.258
RC	40.219	GL	15.70	GP	-18.51	ZAL	44.71	ZAP	19.74	ETS	66.19	ZAE	151.10	ETE	252.02	ZAC	46.16	ETC	134.41	CLP	-6.99

PLANETOCENTRIC CONIC

C3 31.919 VHL 5.650 DLA -1.97 RAL 310.56 RAD 6568.3 VEL 12.381 PTH 2.23 VHP 8.820 DPA -40.93 RAP 304.89 ECC 1.5253

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 30 48	2268.45	-20.84	44.92	179.16	109.62	9 8 36	1668.5	-17.97	37.42
90.00	19 59 41	5034.37	23.41	221.89	180.37	73.60	21 23 35	4434.4	20.94	214.09
100.00	9 51 13	2009.01	-22.02	25.38	178.69	110.74	10 24 42	1409.0	-19.00	17.88
100.00	21 21 56	4769.04	24.61	201.97	179.97	72.48	22 41 25	4169.0	21.98	194.16
110.00	10 57 22	1801.95	-25.18	8.24	177.27	113.92	11 27 24	1202.0	-21.73	.79
110.00	22 32 17	4548.86	27.84	184.01	178.72	69.32	23 48 6	3948.9	24.78	176.18

DIFFERENTIAL CORRECTIONS

TDE	-.7238	TRA	-2.4195	TC3	-.1558	BAU	.1239												
RDE	-.0333	RRA	.6059	RC3	-.2450	FAU	.02234												
FDE	1.1525	FRA	2.3923	FC3	-.6059	BSP	8552												
BDE	.7245	BRA	2.4942	BC3	.2903	FSP	-687												

MID-COURSE EXECUTION ACCURACY

SGT	2568.6	SGR	675.1	SG3	240.2						
RRT	-.8281	RRF	.8753	RTF	-.9380						
SGB	2655.8	R23	-.1464	R13	.9430						
SG1	2629.9	SG2	369.6	THA	167.47						

ORBIT DETERMINATION ACCURACY

ST	1039.8	SR	187.7	SS	1049.6						
CRT	-.5690	CRS	-.3678	CST	.9735						
LSA	1470.3	MSA	236.6	SSA	15.9						
EL1	1045.4	EL2	153.5	ALF	174.01						

LAUNCH DATE SEP 18 1965 FLIGHT TIME 132.00 ARRIVAL DATE JAN 28 1966

HELIOCENTRIC CONIC DISTANCE 326.476

RL	150.31	LAL	.00	LOL	354.87	VL	26.368	GAL	7.44	AZL	86.29	HCA	133.69	SMA	123.96	ECC	.24733	INC	3.7141	V1	29.644
RP	107.48	LAP	2.68	LOP	128.62	VP	37.404	GAP	-12.15	AZP	92.57	TAL	155.88	TAP	289.57	RCA	93.30	APO	154.62	V2	35.259
RC	40.350	GL	17.84	GP	-20.43	ZAL	45.32	ZAP	22.10	ETS	63.94	ZAE	149.53	ETE	258.51	ZAC	48.61	ETC	134.66	CLP	-8.59

PLANETOCENTRIC CONIC

C3 30.577 VHL 5.530 DLA .10 RAL 310.01 RAD 6568.2 VEL 12.327 PTH 2.22 VHP 8.483 DPA -42.49 RAP 307.45 ECC 1.5032

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 13 18	2321.68	-22.02	48.38	178.45	108.27	8 52 0	1721.7	-19.31	40.75
90.00	20 12 49	4959.54	21.88	216.93	178.39	71.57	21 35 28	4359.5	19.16	209.31
100.00	9 34 42	2059.15	-23.19	28.64	178.02	109.41	10 9 1	1459.2	-20.33	21.01
100.00	21 34 6	4697.31	23.06	197.21	177.96	70.43	22 52 24	4097.3	20.18	189.60
110.00	10 43 3	1845.20	-26.35	11.07	176.69	112.61	11 13 48	1245.2	-23.05	3.46
110.00	22 42 15	4484.02	26.21	179.68	176.61	67.23	23 56 59	3884.0	22.89	172.09

DIFFERENTIAL CORRECTIONS

TDE	-.7438	TRA	-2.4231	TC3	-.1319	BAU	.1250												
RDE	.0314	RRA	.6555	RC3	-.2760	FAU	.02309												
FDE	1.2575	FRA	2.5099	FC3	-.6537	BSP	8797												
BDE	.7444	BRA	2.5102	BC3	.3059	FSP	-744												

MID-COURSE EXECUTION ACCURACY

SGT	2630.4	SGR	745.3	SG3	259.0						
RRT	-.8599	RRF	.9084	RTF	-.9422						
SGB	2733.9	R23	-.1604	R13	.9482						
SG1	2708.9	SG2	369.4	THA	166.04						

ORBIT DETERMINATION ACCURACY

ST	1077.6	SR	206.5	SS	1113.2						
CRT	-.8021	CRS	-.6426	CST	.9725						
LSA	1546.0	MSA	229.8	SSA	15.3						
EL1	1090.4	EL2	121.9	ALF	171.15						

LAUNCH DATE SEP 18 1965 FLIGHT TIME 134.00 ARRIVAL DATE JAN 30 1966

HELIOCENTRIC CONIC DISTANCE 333.277

RL 150.31 LAL .00 LOL 354.87 VL 26.472 GAL 7.14 AZL 85.90 HCA 136.92 SMA 124.60 ECC .23954 INC 4.0991 V1 29.644
RP 107.48 LAP 2.80 LOP 131.87 VP 37.477 GAP -11.42 AZP 93.00 TAL 155.87 TAP 292.79 RCA 94.75 APO 154.45 V2 35.259
RC 40.657 GL 20.21 GP -22.66 ZAL 46.14 ZAP 24.75 ETS 62.26 ZAE 147.40 ETE 264.26 ZAC 51.22 ETC 134.76 CLP -10.23

PLANETOCENTRIC CONIC

C3 29.552 VHL 5.436 DLA 2.37 RAL 309.35 RAD 6568.2 VEL 12.285 PTH 2.21 VHP 8.178 DPA -44.31 RAP 310.16 ECC 1.4864

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 53 48	2383.67	-23.28	52.49	177.93	106.59	8 33 32	1783.7	-20.79	44.70
90.00	20 27 3	4880.47	20.09	211.82	176.53	69.62	21 48 24	4280.5	17.14	204.40
100.00	9 16 15	2117.73	-24.46	32.53	177.53	107.74	9 51 33	1517.7	-21.80	24.74
100.00	21 47 18	4621.64	21.25	192.32	176.05	68.46	23 4 19	4021.6	18.13	184.91
110.00	10 27 2	1896.18	-27.64	14.47	176.29	110.97	10 58 38	1296.2	-24.53	6.68
110.00	22 53 0	4415.95	24.34	175.27	174.62	65.22	24 6 36	3816.0	20.79	167.92

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.7697 TRA-2.4275 TC3 -.1065 BAU .1290 SGT 2688.6 SGR 834.4 SG3 278.1 ST 1117.2 SR 252.8 SS 1181.1
RDE .1056 RRA .7164 RC3 -.3086 FAU .02372 RRT -.8856 RRF .9347 RTF -.9462 CRT -.9364 CRS -.8287 CST .9718
FDE 1.3757 FRA 2.6278 FC3 -.6950 BSP 9043 SGB 2815.1 R23 -.1728 R13 .9533 LSA 1629.9 MSA 224.6 SSA 14.4
BDE .7769 BRA 2.5310 BC3 .3265 FSP -803 SG1 2790.2 SG2 373.4 THA 164.34 EL1 1142.2 EL2 86.8 ALF 167.97

LAUNCH DATE SEP 18 1965 FLIGHT TIME 136.00 ARRIVAL DATE FEB 1 1966

HELIOCENTRIC CONIC DISTANCE 340.064

RL 150.31 LAL .00 LOL 354.87 VL 26.567 GAL 6.87 AZL 85.47 HCA 140.16 SMA 125.20 ECC .23229 INC 4.5335 V1 29.644
RP 107.48 LAP 2.90 LOP 135.12 VP 37.544 GAP -10.72 AZP 93.48 TAL 155.89 TAP 296.05 RCA 96.11 APO 154.28 V2 35.258
RC 41.135 GL 22.83 GP -25.23 ZAL 47.19 ZAP 27.73 ETS 61.07 ZAE 144.71 ETE 269.14 ZAC 54.02 ETC 134.71 CLP -11.90

PLANETOCENTRIC CONIC

C3 28.875 VHL 5.374 DLA 4.88 RAL 308.57 RAD 6568.2 VEL 12.258 PTH 2.21 VHP 7.911 DPA -46.44 RAP 313.07 ECC 1.4752

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 31 54	2456.06	-24.60	57.38	177.63	104.48	8 12 51	1856.1	-22.37	49.42
90.00	20 42 42	4796.47	18.01	206.54	174.81	67.78	22 2 39	4196.5	14.84	199.30
100.00	8 55 33	2186.28	-25.80	37.18	177.28	105.64	9 31 59	1586.3	-23.41	29.20
100.00	22 1 45	4541.48	19.16	187.28	174.30	66.61	23 17 26	3941.5	15.83	180.07
110.00	10 9 3	1956.22	-29.03	18.58	176.15	108.90	10 41 40	1356.2	-26.18	10.57
110.00	23 4 44	4344.31	22.22	170.79	172.78	63.33	24 17 8	3744.3	18.46	163.67

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.8007 TRA-2.4308 TC3 -.0784 BAU .1355 SGT 2739.1 SGR 945.2 SG3 296.6 ST 1156.7 SR 326.6 SS 1251.7
RDE .1925 RRA .7908 RC3 -.3422 FAU .02421 RRT -.9059 RRF .9546 RTF -.9500 CRT -.9881 CRS -.9248 CST .9713
FDE 1.5062 FRA 2.7396 FC3 -.7257 BSP 9359 SGB 2897.6 R23 -.1817 R13 .9585 LSA 1721.1 MSA 221.6 SSA 13.3
BDE .8235 BRA 2.5562 BC3 .3510 FSP -864 SG1 2872.4 SG2 381.7 THA 162.32 EL1 1200.9 EL2 48.4 ALF 164.38

LAUNCH DATE SEP 18 1965 FLIGHT TIME 138.00 ARRIVAL DATE FEB 3 1966

HELIOCENTRIC CONIC DISTANCE 346.837

RL 150.31 LAL .00 LOL 354.87 VL 26.655 GAL 6.61 AZL 84.97 HCA 143.39 SMA 125.75 ECC .22557 INC 5.0311 V1 29.644
RP 107.48 LAP 3.00 LOP 138.37 VP 37.605 GAP -10.04 AZP 94.04 TAL 155.93 TAP 299.32 RCA 97.39 APO 154.12 V2 35.257
RC 41.780 GL 25.74 GP -28.21 ZAL 48.50 ZAP 31.07 ETS 60.29 ZAE 141.49 ETE 273.15 ZAC 57.07 ETC 134.55 CLP -13.59

PLANETOCENTRIC CONIC

C3 28.596 VHL 5.348 DLA 7.64 RAL 307.65 RAD 6568.1 VEL 12.246 PTH 2.20 VHP 7.692 DPA -48.93 RAP 316.28 ECC 1.4706

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 7 5	2541.01	-25.92	63.25	177.64	101.82	7 49 26	1941.0	-24.03	55.09
90.00	21 0 10	4706.67	15.62	201.04	173.31	66.07	22 18 37	4106.7	12.25	193.98
100.00	8 32 6	2266.80	-27.16	42.78	177.33	102.99	9 9 53	1666.8	-25.10	34.58
100.00	22 17 50	4456.12	16.77	182.07	172.77	64.89	23 32 6	3856.1	13.25	175.05
110.00	9 48 44	2026.97	-30.49	23.58	176.34	106.27	10 22 31	1427.0	-27.96	15.30
110.00	23 17 41	4268.72	19.84	166.22	171.14	61.58	24 28 50	3668.7	15.89	159.32

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.8410 TRA-2.4356 TC3 -.0505 BAU .1445 SGT 2783.5 SGR 1081.4 SG3 313.5 ST 1138.3 SR 428.0 SS 1324.7
RDE .2971 RRA .8812 RC3 -.3747 FAU .02438 RRT -.9214 RRF .9691 RTF -.9535 CRT -.9995 CRS -.9684 CST .9713
FDE 1.6498 FRA 2.8383 FC3 -.7381 BSP 9708 SGB 2986.2 R23 -.1861 R13 .9637 LSA 1823.4 MSA 220.8 SSA 12.1
BDE .8919 BRA 2.5901 BC3 .3780 FSP -923 SG1 2959.9 SG2 395.1 THA 159.93 EL1 1272.4 EL2 12.8 ALF 160.35

LAUNCH DATE SEP 18 1965 FLIGHT TIME 140.00 ARRIVAL DATE FEB 5 1966

HELIOCENTRIC CONIC DISTANCE 353.592

RL 150.31 LAL .00 LOL 354.87 VL 26.736 GAL 6.37 AZL 84.39 HCA 146.62 SMA 126.27 ECC .21934 INC 5.6104 V1 29.644
RP 107.49 LAP 3.08 LOP 141.62 VP 37.661 GAP -9.38 AZP 94.69 TAL 155.99 TAP 302.61 RCA 98.57 APO 153.97 V2 35.255
RC 42.583 GL 28.95 GP -31.68 ZAL 50.12 ZAP 34.83 ETS 59.85 ZAE 137.75 ETE 276.36 ZAC 60.41 ETC 134.32 CLP -15.29

PLANETOCENTRIC CONIC

C3 28.801 VHL 5.367 DLA 10.68 RAL 306.56 RAD 6568.2 VEL 12.255 PTH 2.20 VHP 7.532 DPA -51.81 RAP 319.95 ECC 1.4740

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 38 33	2641.45	-27.12	70.35	178.01	98.46	7 22 34	2041.4	-25.67	61.99
90.00	21 20 3	4609.81	12.86	195.26	172.12	64.55	22 36 52	4009.8	9.33	188.36
100.00	8 5 13	2361.92	-28.43	49.56	177.77	99.64	8 44 35	1761.9	-26.81	41.13
100.00	22 36 3	4364.57	14.05	176.63	171.52	63.34	23 48 48	3764.6	10.36	169.79
110.00	9 25 33	2110.54	-31.92	29.67	176.97	102.93	10 0 44	1510.5	-29.81	21.09
110.00	23 32 13	4188.71	17.18	161.54	169.77	59.98	24 42 2	3588.7	13.06	154.85

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.8882 TRA-2.4378 TC3 -.0168 BAU .1560 SGT 2813.3 SGR 1244.9 SG3 326.6 ST 1237.1 SR 556.7 SS 1394.4
RDE .4249 RRA .9893 RC3 -.4048 FAU .02428 RRT -.9334 RRF .9792 RTF -.9570 CRT -.9966 CRS -.9872 CST .9715
FDE 1.7996 FRA 2.9085 FC3 -.7299 BSP 10240 SGB 3076.4 R23 -.1847 R13 .9690 LSA 1932.6 MSA 222.8 SSA 10.6
BDE .9846 BRA 2.6309 BC3 .4051 FSP -983 SG1 3048.7 SG2 412.2 THA 157.12 EL1 1356.0 EL2 42.1 ALF 155.82

LAUNCH DATE SEP 18 1965 FLIGHT TIME 142.00 ARRIVAL DATE FEB 7 1966

HELIOCENTRIC CONIC DISTANCE 360.324

RL 150.31 LAL .00 LOL 354.87 VL 26.811 GAL 6.15 AZL 83.70 HCA 149.85 SMA 126.75 ECC .21359 INC 6.2982 V1 29.644
RP 107.50 LAP 3.16 LOP 144.87 VP 37.711 GAP -8.74 AZP 95.45 TAL 156.07 TAP 305.92 RCA 99.68 APO 153.82 V2 35.252
RC 43.538 GL 32.50 GP -35.69 ZAL 52.08 ZAP 39.03 ETS 59.69 ZAE 133.47 ETE 278.87 ZAC 64.10 ETC 134.06 CLP -16.98

PLANETOCENTRIC CONIC

C3 29.627 VHL 5.443 DLA 14.01 RAL 305.29 RAD 6568.2 VEL 12.288 PTH 2.21 VHP 7.449 DPA -55.12 RAP 324.34 ECC 1.4876

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 5 7	2761.60	-28.03	79.03	178.80	94.20	6 51 8	2161.6	-27.15	70.47
90.00	21 43 18	4503.80	9.68	189.10	171.34	63.26	22 58 21	3903.8	6.02	182.34
100.00	7 33 53	2475.33	-29.44	57.83	178.67	95.40	8 15 8	1875.3	-28.38	49.19
100.00	22 57 13	4265.31	10.94	170.90	170.67	62.01	24 8 18	3665.3	7.11	164.20
110.00	8 58 46	2209.72	-33.19	37.12	178.12	98.69	9 35 36	1609.7	-31.63	28.24
110.00	23 48 49	4103.68	14.22	156.72	168.76	58.58	24 57 13	3503.7	9.96	150.21

DIFFERENTIAL CORRECTIONS

TDE -.9196 TRA-2.4123 TC3 .0579 BAU .1748
RDE .5779 RRA 1.1099 RC3 -.4376 FAU .02470
FDE 1.9289 FRA 2.9133 FC3 -.7219 BSP 11648
BDE 1.0861 BRA 2.6553 BC3 .4414 FSP -1081

MID-COURSE EXECUTION ACCURACY

SGT 2791.1 SGR 1430.7 SG3 331.6
RRT -.9441 RRF .9862 RTF -.9603
SGB 3136.4 R23 -.1762 R13 .9744
SG1 3107.7 SG2 423.4 THA 153.65

ORBIT DETERMINATION ACCURACY

ST 1246.4 SR 707.6 SS 1442.3
CRT -.9893 CRS -.9951 CST .9702
LSA 2020.3 MSA 230.2 SSA 8.8
EL1 1430.4 EL2 90.2 ALF 150.55

LAUNCH DATE SEP 18 1965 FLIGHT TIME 144.00 ARRIVAL DATE FEB 9 1966

HELIOCENTRIC CONIC DISTANCE 367.046

RL 150.31 LAL .00 LOL 354.87 VL 26.878 GAL 5.94 AZL 82.87 HCA 153.07 SMA 127.19 ECC .20834 INC 7.1335 V1 29.644
RP 107.51 LAP 3.22 LOP 148.12 VP 37.756 GAP -8.12 AZP 96.37 TAL 156.15 TAP 309.22 RCA 100.69 APO 153.69 V2 35.249
RC 44.633 GL 36.38 GP -40.31 ZAL 54.40 ZAP 43.71 ETS 59.77 ZAE 128.63 ETE 280.86 ZAC 68.21 ETC 133.90 CLP -18.58

PLANETOCENTRIC CONIC

C3 31.323 VHL 5.597 DLA 17.65 RAL 303.79 RAD 6568.2 VEL 12.357 PTH 2.23 VHP 7.471 DPA -58.85 RAP 329.90 ECC 1.5155

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 24 54	2908.13	-28.30	89.73	180.03	88.85	6 13 22	2308.1	-28.16	81.07
90.00	22 11 36	4385.21	5.98	182.35	171.19	62.27	23 24 41	3785.2	2.22	175.68
100.00	6 56 33	2612.57	-29.89	68.01	180.05	90.07	7 40 5	2012.6	-29.56	59.22
100.00	23 22 38	4156.00	7.39	164.73	170.42	60.95	24 31 54	3556.0	3.46	158.15
110.00	8 27 24	2328.29	-34.04	46.27	179.90	93.34	9 6 13	1728.3	-33.20	37.13
110.00	0 12 11	4013.05	10.95	151.74	168.27	57.41	1 19 4	3413.0	6.57	145.38

DIFFERENTIAL CORRECTIONS

TDE-1.1020 TRA-2.5210 TC3 -.0400 BAU .1752
RDE .8091 RRA 1.2862 RC3 -.4164 FAU .01998
FDE 2.1473 FRA 2.9574 FC3 -.5521 BSP 10106
BDE 1.3672 BRA 2.8302 BC3 .4184 FSP -968

MID-COURSE EXECUTION ACCURACY

SGT 2934.2 SGR 1677.1 SG3 338.0
RRT -.9461 RRF .9904 RTF -.9631
SGB 3379.7 R23 -.1679 R13 .9794
SG1 3346.0 SG2 476.3 THA 150.95

ORBIT DETERMINATION ACCURACY

ST 1390.3 SR 926.4 SS 1546.7
CRT -.9871 CRS -.9985 CST .9769
LSA 2265.6 MSA 224.8 SSA 8.0
EL1 1666.1 EL2 123.9 ALF 146.46

LAUNCH DATE SEP 18 1965 FLIGHT TIME 146.00 ARRIVAL DATE FEB 11 1966

HELIOCENTRIC CONIC DISTANCE 373.735

RL 150.31 LAL .00 LOL 354.87 VL 26.940 GAL 5.75 AZL 81.82 HCA 156.29 SMA 127.60 ECC .20352 INC 8.1766 V1 29.644
RP 107.52 LAP 3.28 LOP 151.37 VP 37.796 GAP -7.51 AZP 97.49 TAL 156.24 TAP 312.53 RCA 101.63 APO 153.57 V2 35.244
RC 45.858 GL 40.63 GP -45.59 ZAL 57.15 ZAP 48.88 ETS 60.08 ZAE 123.19 ETE 282.53 ZAC 72.81 ETC 133.96 CLP -20.00

PLANETOCENTRIC CONIC

C3 34.279 VHL 5.855 DLA 21.58 RAL 302.01 RAD 6568.4 VEL 12.476 PTH 2.26 VHP 7.638 DPA -62.89 RAP 337.41 ECC 1.5642

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 33 44	3094.03	-27.30	103.22	181.48	82.17	5 25 19	2494.0	-28.10	94.65
90.00	22 48 29	4244.75	1.48	174.48	171.98	61.72	23 59 14	3644.7	-2.31	167.85
100.00	6 10 3	2783.51	-29.23	80.66	181.76	83.46	6 56 26	2183.5	-29.83	71.90
100.00	23 54 52	4030.50	3.19	157.78	171.03	60.26	25 2 3	3430.5	-.79	151.26
110.00	7 49 38	2471.95	-34.04	57.48	182.24	86.72	8 30 50	1872.0	-34.12	48.23
110.00	0 35 42	3914.83	7.30	146.47	168.49	56.51	1 40 57	3314.8	2.85	140.22

DIFFERENTIAL CORRECTIONS

TDE-1.2346 TRA-2.5565 TC3 -.0230 BAU .1847
RDE 1.0843 RRA 1.4617 RC3 -.4024 FAU .01729
FDE 2.2773 FRA 2.8546 FC3 -.4367 BSP 10862
BDE 1.6431 BRA 2.9449 BC3 .4030 FSP -963

MID-COURSE EXECUTION ACCURACY

SGT 2949.3 SGR 1927.2 SG3 326.2
RRT -.9514 RRF .9933 RTF -.9664
SGB 3523.1 R23 -.1499 R13 .9844
SG1 3487.2 SG2 501.9 THA 147.37

ORBIT DETERMINATION ACCURACY

ST 1453.0 SR 1157.2 SS 1586.5
CRT -.9840 CRS -.9996 CST .9791
LSA 2431.9 MSA 229.5 SSA 6.5
EL1 1850.4 EL2 161.9 ALF 141.57

LAUNCH DATE SEP 18 1965 FLIGHT TIME 148.00 ARRIVAL DATE FEB 13 1966

HELIOCENTRIC CONIC DISTANCE 380.395

RL 150.31 LAL .00 LOL 354.87 VL 26.996 GAL 5.58 AZL 80.48 HCA 159.49 SMA 127.97 ECC .19914 INC 9.5246 V1 29.644
RP 107.54 LAP 3.32 LOP 154.62 VP 37.831 GAP -6.92 AZP 98.93 TAL 156.33 TAP 315.82 RCA 102.49 APO 153.45 V2 35.239
RC 47.202 GL 45.20 GP -51.54 ZAL 60.33 ZAP 54.50 ETS 60.72 ZAE 117.14 ETE 284.20 ZAC 77.93 ETC 134.53 CLP -21.01

PLANETOCENTRIC CONIC

C3 39.261 VHL 6.266 DLA 25.76 RAL 299.85 RAD 6568.5 VEL 12.674 PTH 2.30 VHP 8.017 DPA -66.96 RAP 348.28 ECC 1.6461

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	3 19 46	3357.03	-23.53	121.53	182.34	73.77	4 15 43	2757.0	-25.53	113.43
90.00	23 45 17	4050.31	-4.78	163.61	174.54	62.06	24 52 47	3450.3	-8.48	156.89
100.00	5 7 4	3011.12	-26.36	96.94	183.20	75.37	5 57 15	2411.1	-28.11	88.57
100.00	0 44 36	3871.45	-2.20	149.05	173.12	60.18	1 49 7	3271.5	-6.15	142.50
110.00	7 2 26	2650.17	-32.50	71.14	184.82	78.78	7 46 36	2050.2	-33.71	62.11
110.00	1 5 43	3805.17	3.15	140.70	169.78	55.94	2 9 9	3205.2	-1.34	134.50

DIFFERENTIAL CORRECTIONS

TDE-1.4451 TRA-2.6345 TC3 -.0259 BAU .1878
RDE 1.4539 RRA 1.6561 RC3 -.3569 FAU .01315
FDE 2.3739 FRA 2.6693 FC3 -.2899 BSP 11513
BDE 2.0499 BRA 3.1118 BC3 .3578 FSP -907

MID-COURSE EXECUTION ACCURACY

SGT 2983.7 SGR 2189.7 SG3 301.7
RRT -.9551 RRF .9948 RTF -.9702
SGB 3701.0 R23 -.1283 R13 .9888
SG1 3663.1 SG2 528.4 THA 144.11

ORBIT DETERMINATION ACCURACY

ST 1546.0 SR 1422.0 SS 1605.7
CRT -.9832 CRS-1.0000 CST .9825
LSA 2633.7 MSA 232.4 SSA 5.2
EL1 2091.7 EL2 191.7 ALF 137.43

LAUNCH DATE SEP 18 1965 FLIGHT TIME 150.00 ARRIVAL DATE FEB 15 1966

DISTANCE 387.020

HELIOCENTRIC CONIC

RL 150.31 LAL .00 LOL 354.87 VL 27.047 GAL 5.43 AZL 78.65 HCA 162.68 SMA 128.31 ECC .19519 INCI1.3454 V1 29.644
RP 107.55 LAP 3.36 LOP 157.87 VP 37.862 GAP -6.35 AZP 100.84 TAL 156.42 TAP 319.10 RCA 103.27 APO 153.36 V2 35.234
RC 48.656 GL 50.03 GP -58.10 ZAL 63.94 ZAP 60.47 ETS 62.07 ZAE 110.48 ETE 286.46 ZAC 83.62 ETC 136.17 CLP -21.13

PLANETOCENTRIC CONIC

C3 47.773 VHL 6.912 DLA 30.11 RAL 297.21 RAD 6568.8 VEL 13.005 PTH 2.37 VHP 8.720 DPA -70.34 RAP 4.59 ECC 1.7862

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
79.30	23 53 29	4032.07	-14.69	167.46	180.36	63.41	25 0 41	3432.1	-18.14	160.35
100.70	2 50 31	3474.07	-14.68	126.38	180.35	63.41	3 48 25	2874.1	-18.13	119.28
79.30	23 53 29	4032.07	-14.69	167.46	180.36	63.41	25 0 41	3432.1	-18.14	160.35
100.70	2 50 31	3474.07	-14.68	126.38	180.35	63.41	3 48 25	2874.1	-18.13	119.28
110.00	5 58 37	2884.15	-28.14	87.94	186.60	69.75	6 46 41	2284.2	-30.64	79.63
110.00	1 48 29	3669.99	-2.02	133.65	172.88	55.87	2 49 39	3070.0	-6.48	127.41

DIFFERENTIAL CORRECTIONS

TDE-1.7898 TRA-2.7830 TC3 -.0411 BAU .1793
RDE 1.9493 RRA 1.8471 RC3 -.2777 FAU .00780
FDE 2.4141 FRA 2.3976 FC3 -.1414 BSP 12198
BDE 2.6463 BRA 3.3402 BC3 .2807 FSP -809

MID-COURSE EXECUTION ACCURACY

SGT 3052.3 SGR 2427.3 SG3 263.8
RRT -.9578 RRF .9952 RTF -.9749
SGB 3899.8 R23 -.1036 R13 .9927
SG1 3860.6 SG2 551.6 THA 141.78

ORBIT DETERMINATION ACCURACY

ST 1685.6 SR 1700.9 SS 1594.5
CRT -.9843 CRS -.9999 CST .9868
LSA 2867.5 MSA 233.1 SSA 4.1
EL1 2385.3 EL2 211.9 ALF 134.74

LAUNCH DATE SEP 18 1965 FLIGHT TIME 152.00 ARRIVAL DATE FEB 17 1966

DISTANCE 393.597

HELIOCENTRIC CONIC

RL 150.31 LAL .00 LOL 354.87 VL 27.093 GAL 5.30 AZL 76.05 HCA 165.85 SMA 128.62 ECC .19167 INC13.9538 V1 29.644
RP 107.57 LAP 3.38 LOP 161.12 VP 37.889 GAP -5.81 AZP 103.55 TAL 156.48 TAP 322.33 RCA 103.97 APO 153.27 V2 35.227
RC 50.208 GL 54.94 GP -65.14 ZAL 67.99 ZAP 66.59 ETS 65.32 ZAE 103.21 ETE 290.68 ZAC 89.92 ETC 140.26 CLP -19.12

PLANETOCENTRIC CONIC

C3 63.154 VHL 7.947 DLA 34.42 RAL 293.92 RAD 6569.2 VEL 13.583 PTH 2.48 VHP 9.950 DPA -71.74 RAP 27.28 ECC 2.0394

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
69.56	22 34 46	4305.50	-14.18	187.98	182.30	58.30	23 46 32	3705.5	-18.27	181.24
110.44	3 42 55	3338.17	-14.16	115.75	182.29	58.30	4 38 33	2738.2	-18.25	109.01
69.56	22 34 46	4305.50	-14.18	187.98	182.30	58.30	23 46 32	3705.5	-18.27	181.24
110.44	3 42 55	3338.17	-14.16	115.75	182.29	58.30	4 38 33	2738.2	-18.25	109.01
69.56	22 34 46	4305.50	-14.18	187.98	182.30	58.30	23 46 32	3705.5	-18.27	181.24
110.44	3 42 55	3338.17	-14.16	115.75	182.29	58.30	4 38 33	2738.2	-18.25	109.01

DIFFERENTIAL CORRECTIONS

TDE-2.4390 TRA-3.0917 TC3 -.0701 BAU .1538
RDE 2.5858 RRA 1.9656 RC3 -.1681 FAU .00141
FDE 2.3937 FRA 2.0677 FC3 -.0194 BSP 12830
BDE 3.5546 BRA 3.6636 BC3 .1622 FSP -672

MID-COURSE EXECUTION ACCURACY

SGT 3225.8 SGR 2549.1 SG3 215.9
RRT -.9595 RRF .9937 RTF -.9818
SGB 4111.4 R23 -.0756 R13 .9959
SG1 4071.9 SG2 568.6 THA 141.95

ORBIT DETERMINATION ACCURACY

ST 1936.3 SR 1934.2 SS 1555.2
CRT -.9869 CRS -.9994 CST .9919
LSA 3139.4 MSA 230.6 SSA 3.1
EL1 2727.9 EL2 221.9 ALF 135.03

LAUNCH DATE SEP 18 1965 FLIGHT TIME 154.00 ARRIVAL DATE FEB 19 1966

DISTANCE 400.101

HELIOCENTRIC CONIC

RL 150.31 LAL .00 LOL 354.87 VL 27.134 GAL 5.20 AZL 71.99 HCA 168.97 SMA 128.90 ECC .18860 INC18.0119 V1 29.644
RP 107.60 LAP 3.39 LOP 164.37 VP 37.912 GAP -5.29 AZP 107.70 TAL 156.50 TAP 325.47 RCA 104.59 APO 153.21 V2 35.220
RC 51.850 GL 59.55 GP -72.27 ZAL 72.39 ZAP 72.62 ETS 75.11 ZAE 95.27 ETE 301.58 ZAC 97.02 ETC 151.56 CLP -11.23

PLANETOCENTRIC CONIC

C3 93.953 VHL 9.693 DLA 38.24 RAL 289.72 RAD 6569.8 VEL 14.673 PTH 2.66 VHP 12.129 DPA -69.69 RAP 51.42 ECC 2.5462

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
63.14	21 43 14	4500.49	-11.89	202.03	184.24	53.38	22 58 14	3900.5	-16.57	195.76
116.86	4 0 58	3326.46	-11.87	113.22	184.23	53.37	4 56 24	2726.5	-16.56	106.95
63.14	21 43 14	4500.49	-11.89	202.03	184.24	53.38	22 58 14	3900.5	-16.57	195.76
116.86	4 0 58	3326.46	-11.87	113.22	184.23	53.37	4 56 24	2726.5	-16.56	106.95
63.14	21 43 14	4500.49	-11.89	202.03	184.24	53.38	22 58 14	3900.5	-16.57	195.76
116.86	4 0 58	3326.46	-11.87	113.22	184.23	53.37	4 56 24	2726.5	-16.56	106.95

DIFFERENTIAL CORRECTIONS

TDE-3.9739 TRA-3.8040 TC3 -.1159 BAU .1621
RDE 3.0525 RRA 1.6511 RC3 -.0568 FAU-.00572
FDE 2.3360 FRA 1.7328 FC3 .0528 BSP 13456
BDE 5.0109 BRA 4.1468 BC3 .1291 FSP -520

MID-COURSE EXECUTION ACCURACY

SGT 3710.1 SGR 2193.6 SG3 164.3
RRT -.9549 RRF .9828 RTF -.9920
SGB 4310.1 R23 -.0439 R13 .9982
SG1 4272.8 SG2 565.7 THA 149.97

ORBIT DETERMINATION ACCURACY

ST 2501.1 SR 1842.4 SS 1503.9
CRT -.9892 CRS -.9974 CST .9972
LSA 3444.4 MSA 219.8 SSA 2.3
EL1 3098.8 EL2 217.6 ALF 143.71

LAUNCH DATE SEP 18 1965 FLIGHT TIME 156.00 ARRIVAL DATE FEB 21 1966

DISTANCE 406.472

HELIOCENTRIC CONIC

RL 150.31 LAL .00 LOL 354.87 VL 27.171 GAL 5.12 AZL 64.86 HCA 171.99 SMA 129.15 ECC .18605 INC25.1434 V1 29.644
RP 107.62 LAP 3.39 LOP 167.61 VP 37.931 GAP -4.81 AZP 114.93 TAL 156.43 TAP 328.43 RCA 105.12 APO 153.18 V2 35.212
RC 53.572 GL 62.82 GP -77.77 ZAL 77.03 ZAP 78.22 ETS 111.96 ZAE 86.27 ETE 339.58 ZAC 105.51 ETC 190.60 CLP 15.42

PLANETOCENTRIC CONIC

C3 167.072 VHL 12.926 DLA 40.58 RAL 284.34 RAD 6570.8 VEL 16.982 PTH 2.92 VHP 16.256 DPA -63.66 RAP 69.56 ECC 3.7496

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
59.62	21 5 12	4660.12	-7.63	212.01	185.35	50.02	22 22 52	4060.1	-12.72	206.15
120.38	3 56 4	3391.78	-7.62	115.28	185.34	50.02	4 52 36	2791.8	-12.70	109.43
59.62	21 5 12	4660.12	-7.63	212.01	185.35	50.02	22 22 52	4060.1	-12.72	206.15
120.38	3 56 4	3391.78	-7.62	115.28	185.34	50.02	4 52 36	2791.8	-12.70	109.43
59.62	21 5 12	4660.12	-7.63	212.01	185.35	50.02	22 22 52	4060.1	-12.72	206.15
120.38	3 56 4	3391.78	-7.62	115.28	185.34	50.02	4 52 36	2791.8	-12.70	109.43

DIFFERENTIAL CORRECTIONS

TDE-7.5059 TRA-4.7549 TC3 -.1912 BAU .4538
RDE -.8180 RRA-1.4879 RC3 -.0687 FAU-.01467
FDE 2.3371 FRA 1.4878 FC3 .0760 BSP 13907
BDE 7.5503 BRA 4.9823 BC3 .2032 FSP -379

MID-COURSE EXECUTION ACCURACY

SGT 4360.8 SGR 957.7 SG3 118.0
RRT .8870 RRF -.8903 RTF -.9995
SGB 4464.7 R23 .0112 R13 -.9995
SG1 4443.5 SG2 434.0 THA 11.13

ORBIT DETERMINATION ACCURACY

ST 3429.8 SR 446.5 SS 1500.4
CRT .9294 CRS .9299 CST 1.0000
LSA 3766.6 MSA 163.7 SSA 1.7
EL1 3454.8 EL2 163.6 ALF 6.92

LAUNCH DATE SEP 18 1965 FLIGHT TIME 158.00 ARRIVAL DATE FEB 23 1966

HELIOCENTRIC CONIC DISTANCE 412.512

RL	150.31	LAL	.00	LOL	354.87	VL	27.204	GAL	5.12	AZL	49.81	HCA	174.75	SMA	129.37	ECC	.18429	INC	40.1905	VI	29.644
RP	107.64	LAP	3.38	LOP	170.86	VP	37.947	GAP	-4.42	AZP	130.07	TAL	156.14	TAP	330.89	RCA	105.53	APO	153.21	V2	35.204
RC	55.368	GL	61.73	GP	-74.17	ZAL	81.59	ZAP	82.99	ETS	166.62	ZAE	74.69	ETE	34.57	ZAC	117.56	ETC	247.91	CLP	63.41

PLANETOCENTRIC CONIC

C3	394.123	VHL	19.853	DLA	38.64	RAL	277.76	RAD	6572.1	VEL	22.703	PTH	3.26	VHP	25.176	DPA	-52.49	RAP	80.19	ECC	7.4863

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
62.54	20 52 33	4735.97	-2.49	214.17	184.66	51.43	22 11 29	4136.0	-7.45	208.28
117.46	3 16 13	3544.82	-2.47	123.93	184.64	51.43	4 15 18	2944.8	-7.44	118.05
62.54	20 52 33	4735.97	-2.49	214.17	184.66	51.43	22 11 29	4136.0	-7.45	208.28
117.46	3 16 13	3544.82	-2.47	123.93	184.64	51.43	4 15 18	2944.8	-7.44	118.05
62.54	20 52 33	4735.97	-2.49	214.17	184.66	51.43	22 11 29	4136.0	-7.45	208.28
117.46	3 16 13	3544.82	-2.47	123.93	184.64	51.43	4 15 18	2944.8	-7.44	118.05

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-6.1774	TRA	-1.8887	TC3	-.1399	BAU	1.5467	SGT	1993.5	SGR	4009.9	SG3	85.2	ST	1795.2	SR	3134.9	SS	1698.7
RD	-10.5735	RRA	-6.4718	RC3	-.2580	FAU	-.03237	RRT	.9605	RRF	-.9990	RTF	-.9694	CRT	.9935	CRS	.9999	CST	.9951
FDE	2.6429	FRA	1.5102	FC3	.0711	BSP	14006	SGB	4478.1	R23	-.0190	R13	-.9994	LSA	3988.0	MSA	178.6	SSA	1.7
BDE	12.2458	BRA	6.7418	BC3	.2935	FSP	-277	SGI	4450.2	SG2	499.7	THA	64.12	ELI	3608.2	EL2	177.4	ALF	60.28

LAUNCH DATE SEP 18 1965 FLIGHT TIME 160.00 ARRIVAL DATE FEB 25 1966

HELIOCENTRIC CONIC DISTANCE 417.393

RL	150.31	LAL	.00	LOL	354.87	VL	27.232	GAL	5.34	AZL	12.90	HCA	176.55	SMA	129.57	ECC	.18455	INC	77.1047	VI	29.644
RP	107.67	LAP	3.36	LOP	174.10	VP	37.959	GAP	-4.32	AZP	167.08	TAL	155.07	TAP	331.62	RCA	105.66	APO	153.48	V2	35.195
RC	57.230	GL	48.02	GP	-54.15	ZAL	85.15	ZAP	86.19	ETS	180.48	ZAE	56.44	ETE	43.31	ZAC	139.61	ETC	264.02	CLP	83.49

PLANETOCENTRIC CONIC

C3	1264.033	VHL	35.553	DLA	24.59	RAL	271.57	RAD	6573.1	VEL	37.220	PTH	3.54	VHP	45.434	DPA	-30.64	RAP	84.71	ECC	21.8028

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	1 48 48	3793.13	-12.70	148.88	188.71	64.48	2 52 1	3193.1	-16.04	141.79
90.00	21 30 38	4635.95	13.62	196.81	176.43	64.93	22 47 54	4035.9	10.13	189.87
100.00	3 31 36	3461.70	-15.45	125.86	190.07	64.09	4 29 17	2861.7	-18.81	118.68
100.00	22 30 31	4442.61	16.38	181.26	175.08	64.64	23 44 34	3842.6	12.83	174.26
110.00	5 21 18	3118.45	-21.69	103.07	193.35	62.91	6 13 17	2518.5	-25.15	95.62
110.00	22 57 18	4358.63	22.66	171.67	171.86	63.69	24 9 57	3758.6	18.94	164.51

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-6.9390	TRA	-.3705	TC3	-.1151	BAU	5.1195	SGT	1387.3	SGR	3682.1	SG3	70.5	ST	1118.7	SR	2588.0	SS	2219.9
RD	-15.7078	RR	-10.0611	RC3	-.2802	FAU	-.09297	RRT	.8963	RRF	-.9999	RTF	-.8959	CRT	.9819	CRS	1.0000	CST	.9814
FDE	3.4302	FRA	2.2278	FC3	.0637	BSP	12221	SGB	3934.8	R23	-.0524	R13	-.9985	LSA	3582.7	MSA	203.0	SSA	1.6
BDE	17.1722	BRA	10.0679	BC3	.3030	FSP	-228	SGI	3891.5	SG2	582.0	THA	70.90	ELI	2812.7	EL2	195.0	ALF	66.88

LAUNCH DATE SEP 18 1965 FLIGHT TIME 162.00 ARRIVAL DATE FEB 27 1966

HELIOCENTRIC CONIC DISTANCE 429.088

RL	150.31	LAL	.00	LOL	354.87	VL	27.257	GAL	4.35	AZL	143.50	HCA	184.15	SMA	129.74	ECC	.17538	INC	53.4951	VI	29.644
RP	107.70	LAP	3.33	LOP	177.34	VP	37.968	GAP	-2.54	AZP	36.58	TAL	158.71	TAP	342.85	RCA	106.99	APO	152.49	V2	35.186
RC	59.152	GL	-57.89	GP	66.97	ZAL	84.34	ZAP	86.82	ETS	196.18	ZAE	80.98	ETE	319.84	ZAC	98.68	ETC	104.77	CLP	81.85

PLANETOCENTRIC CONIC

C3	665.220	VHL	25.792	DLA	-80.96	RAL	289.16	RAD	6572.6	VEL	28.045	PTH	3.41	VHP	33.374	DPA	82.59	RAP	348.77	ECC	11.9478

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
10.28	7 10 26	2438.99	1.09	84.18	198.98	170.96	7 51 5	1839.0	8.99	83.33
169.72	18 29 20	638.23	1.09	281.53	199.00	170.96	18 39 58	38.2	8.99	280.68
10.28	7 10 26	2438.99	1.09	84.18	198.98	170.96	7 51 5	1839.0	8.99	83.33
169.72	18 29 20	638.23	1.09	281.53	199.00	170.96	18 39 58	38.2	8.99	280.68
10.28	7 10 26	2438.99	1.09	84.18	198.98	170.96	7 51 5	1839.0	8.99	83.33
169.72	18 29 20	638.23	1.09	281.53	199.00	170.96	18 39 58	38.2	8.99	280.68

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	8.9368	TRA	-.9244	TC3	-.1804	BAU	2.9470	SGT	2552.6	SGR	3714.9	SG3	80.7	ST	2023.8	SR	2141.0	SS	1748.7
RD	-8.8595	RRA	1.9840	RC3	.2780	FAU	-.05039	RRT	-.9395	RRF	.9947	RTF	-.9688	CRT	-.9782	CRS	-.9972	CST	.9909
FDE	-2.5823	FRA	.4630	FC3	.0656	BSP	13473	SGB	4507.4	R23	-.0095	R13	.9997	LSA	3412.0	MSA	309.2	SSA	1.8
BDE	12.5840	BRA	2.1887	BC3	.3314	FSP	-243	SGI	4447.8	SG2	730.5	THA	123.88	ELI	2930.1	EL2	307.0	ALF	133.35

LAUNCH DATE SEP 18 1965 FLIGHT TIME 164.00 ARRIVAL DATE MAR 1 1966

HELIOCENTRIC CONIC DISTANCE 434.694

RL	150.31	LAL	.00	LOL	354.87	VL	27.279	GAL	4.46	AZL	120.03	HCA	186.59	SMA	129.89	ECC	.17499	INC	30.0292	VI	29.644
RP	107.73	LAP	3.29	LOP	180.58	VP	37.974	GAP	-2.27	AZP	60.13	TAL	158.07	TAP	344.65	RCA	107.16	APO	152.62	V2	35.176
RC	61.127	GL	-64.05	GP	81.04	ZAL	80.12	ZAP	85.07	ETS	230.87	ZAE	94.21	ETE	350.89	ZAC	83.69	ETC	135.27	CLP	56.54

PLANETOCENTRIC CONIC

C3	229.120	VHL	15.137	DLA	-82.12	RAL	349.81	RAD	6571.3	VEL	18.720	PTH	3.06	VHP	19.610	DPA	71.52	RAP	296.48	ECC	4.7707

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
8.96	11 9 48	2333.16	8.32	84.27	258.64	172.04	11 48 41	1733.2	16.24	83.54
171.04	22 33 48	5817.69	8.32	258.27	258.66	172.04	24 10 46	5217.7	16.24	257.53
8.96	11 9 48	2333.16	8.32	84.27	258.64	172.04	11 48 41	1733.2	16.24	83.54
171.04	22 33 48	5817.69	8.32	258.27	258.66	172.04	24 10 46	5217.7	16.24	257.53
8.96	11 9 48	2333.16	8.32	84.27	258.64	172.04	11 48 41	1733.2	16.24	83.54
171.04	22 33 48	5817.69	8.32	258.27	258.66	172.04	24 10 46	5217.7	16.24	257.53

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-2.7936	TRA	-1.5357	TC3	-.2344	BAU	.8330	SGT	4428.2	SGR	2184.8	SG3	109.0	ST	1654.5	SR	1270.7	SS	896.9
RD	3.0346	RRA	.6558	RC3	.1379	FAU	-.01604	RRT	-.9500	RRF	.9699	RTF	-.9971	CRT	-.9066	CRS	-.9571	CST	.9900
FDE	1.0366	FRA	.4289	FC3	.0606	BSP	15084	SGB	4937.8	R23	-.0123	R13	.9996	LSA	2228.8	MSA	435.0	SSA	1.4
BDE	4.1247	BRA	1.6699	BC3	.2719	FSP	-338	SGI	4899.2	SG2	616.3	THA	154.45	ELI	2040.4	EL2	434.8	ALF	143.20

LAUNCH DATE SEP 18 1965 FLIGHT TIME 166.00 ARRIVAL DATE MAR 3 1966

DISTANCE 440.844

HELIOCENTRIC CONIC

RL	150.31	LAL	.00	LOL	354.87	VL	27.297	GAL	4.48	AZL	110.00	HCA	189.51	SMA	130.02	ECC	.17414	INC19.9964
RP	107.76	LAP	3.24	LOP	183.82	VP	37.978	GAP	-1.87	AZP	70.26	TAL	157.82	TAP	347.33	RCA	107.37	APO 152.66
RC	63.151	GL	-62.56	GP	83.78	ZAL	75.60	ZAP	83.94	ETS	284.60	ZAE	102.04	ETE	42.00	ZAC	75.37	ETC 184.53

V1	29.644																	
V2	35.166																	
CLP	-12.94																	

PLANETOCENTRIC CONIC

C3	109.945	VHL	10.485	DLA	-77.63	RAL	354.18	RAD	6570.1	VEL	15.208	PTH	2.73	VHP	13.534	DPA	63.16	RAP 291.29

ECC	2.8094																	

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
14.08	11 37 15	2198.13	16.74	79.70	260.38	167.07	12 13 53	1598.1	24.53	78.16
165.92	22 41 13	5695.61	16.74	258.66	260.40	167.07	24 16 8	5095.6	24.53	257.12
14.08	11 37 15	2198.13	16.74	79.70	260.38	167.07	12 13 53	1598.1	24.53	78.16
165.92	22 41 13	5695.61	16.74	258.66	260.40	167.07	24 16 8	5095.6	24.53	257.12
14.08	11 37 15	2198.13	16.74	79.70	260.38	167.07	12 13 53	1598.1	24.53	78.16
165.92	22 41 13	5695.61	16.74	258.66	260.40	167.07	24 16 8	5095.6	24.53	257.12

DIFFERENTIAL CORRECTIONS

TDE	-3.5446	TRA	-1.5483	TC3	-.1431	BAU	.2105
RDE	-.9181	RRA	-.9385	RC3	.0062	FAU	-.00206
FDE	1.3032	FRA	.6470	FC3	.0162	BSP	15702
BDE	3.6615	BRA	1.8105	BC3	.1432	FSP	-492

MID-COURSE EXECUTION ACCURACY

SGT	4409.1	SGR	2446.1	SG3	155.3		
RRT	.9664	RRF	-.9796	RTF	-.9976		
SGB	5042.2	R23	-.0003	R13	-.9994		
SG1	5011.8	SG2	552.8	THA	28.58		

ORBIT DETERMINATION ACCURACY

ST	2270.6	SR	876.1	SS	1014.2		
CRT	.9163	CRS	.9381	CST	.9983		
LSA	2615.8	MSA	330.6	SSA	2.0		
EL1	2411.2	EL2	330.5	ALF	19.86		

LAUNCH DATE SEP 18 1965 FLIGHT TIME 168.00 ARRIVAL DATE MAR 5 1966

DISTANCE 447.149

HELIOCENTRIC CONIC

RL	150.31	LAL	.00	LOL	354.87	VL	27.312	GAL	4.49	AZL	104.74	HCA	192.58	SMA	130.12	ECC	.17333	INC14.7359
RP	107.80	LAP	3.18	LOP	187.05	VP	37.979	GAP	-1.44	AZP	75.60	TAL	157.66	TAP	350.24	RCA	107.57	APO 152.68
RC	65.219	GL	-58.68	GP	79.87	ZAL	71.21	ZAP	83.64	ETS	313.83	ZAE	107.59	ETE	69.02	ZAC	69.52	ETC 209.27

V1	29.644																	
V2	35.155																	
CLP	-50.92																	

PLANETOCENTRIC CONIC

C3	65.724	VHL	8.107	DLA	-73.11	RAL	348.22	RAD	6569.2	VEL	13.678	PTH	2.50	VHP	10.368	DPA	57.08	RAP 289.68

ECC	2.0816																	

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
19.27	11 23 58	2072.95	23.86	73.67	250.50	161.48	11 58 31	1472.9	31.42	71.11
160.73	22 7 0	5589.90	23.87	257.80	250.52	161.48	23 40 10	4989.9	31.42	255.25
19.27	11 23 58	2072.95	23.86	73.67	250.50	161.48	11 58 31	1472.9	31.42	71.11
160.73	22 7 0	5589.90	23.87	257.80	250.52	161.48	23 40 10	4989.9	31.42	255.25
19.27	11 23 58	2072.95	23.86	73.67	250.50	161.48	11 58 31	1472.9	31.42	71.11
160.73	22 7 0	5589.90	23.87	257.80	250.52	161.48	23 40 10	4989.9	31.42	255.25

DIFFERENTIAL CORRECTIONS

TDE	-1.7767	TRA	-.9833	TC3	-.0680	BAU	.1398
RDE	-1.4895	RRA	-1.7130	RC3	.1438	FAU	.00788
FDE	1.1518	FRA	.9769	FC3	-.1038	BSP	15956
BDE	2.3185	BRA	1.9751	BC3	.1591	FSP	-695

MID-COURSE EXECUTION ACCURACY

SGT	2704.2	SGR	4305.0	SG3	217.6		
RRT	.9679	RRF	-.9965	RTF	-.9825		
SGB	5083.9	R23	.0008	R13	-.9991		
SG1	5050.7	SG2	579.7	THA	58.23		

ORBIT DETERMINATION ACCURACY

ST	1446.3	SR	1634.5	SS	969.5		
CRT	.9388	CRS	.9885	CST	.9800		
LSA	2357.9	MSA	379.0	SSA	2.8		
EL1	2149.4	EL2	379.0	ALF	48.72		

LAUNCH DATE SEP 18 1965 FLIGHT TIME 170.00 ARRIVAL DATE MAR 7 1966

DISTANCE 453.504

HELIOCENTRIC CONIC

RL	150.31	LAL	.00	LOL	354.87	VL	27.324	GAL	4.49	AZL	101.53	HCA	195.71	SMA	130.21	ECC	.17269	INC11.5318
RP	107.83	LAP	3.10	LOP	190.28	VP	37.977	GAP	-.99	AZP	78.89	TAL	157.53	TAP	353.24	RCA	107.72	APO 152.69
RC	67.327	GL	-54.11	GP	75.56	ZAL	67.11	ZAP	84.16	ETS	328.85	ZAE	111.94	ETE	82.27	ZAC	64.78	ETC 219.94

V1	29.644																	
V2	35.143																	
CLP	-65.92																	

PLANETOCENTRIC CONIC

C3	45.189	VHL	6.722	DLA	-68.58	RAL	342.39	RAD	6568.7	VEL	12.906	PTH	2.35	VHP	8.478	DPA	52.14	RAP 288.63

ECC	1.7437																	

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
24.51	11 11 51	1967.19	28.91	66.52	239.86	155.34	11 44 38	1367.2	36.12	62.81
155.49	21 32 36	5511.06	28.92	256.12	239.88	155.33	23 4 27	4911.1	36.13	252.41
24.51	11 11 51	1967.19	28.91	66.52	239.86	155.34	11 44 38	1367.2	36.12	62.81
155.49	21 32 36	5511.06	28.92	256.12	239.88	155.33	23 4 27	4911.1	36.13	252.41
24.51	11 11 51	1967.19	28.91	66.52	239.86	155.34	11 44 38	1367.2	36.12	62.81
155.49	21 32 36	5511.06	28.92	256.12	239.88	155.33	23 4 27	4911.1	36.13	252.41

DIFFERENTIAL CORRECTIONS

TDE	-.9906	TRA	-.5637	TC3	-.0881	BAU	.2313
RDE	-1.1193	RRA	-2.0263	RC3	.3725	FAU	.01696
FDE	1.0144	FRA	1.3885	FC3	-.3249	BSP	16034
BDE	1.4947	BRA	2.1032	BC3	.3828	FSP	-939

MID-COURSE EXECUTION ACCURACY

SGT	1567.5	SGR	4849.2	SG3	292.2		
RRT	.9163	RRF	-.9978	RTF	-.9319		
SGB	5096.3	R23	.0084	R13	-.9987		
SG1	5060.7	SG2	601.4	THA	73.26		

ORBIT DETERMINATION ACCURACY

ST	932.0	SR	1709.4	SS	952.9		
CRT	.8569	CRS	.9909	CST	.9184		
LSA	2124.0	MSA	433.1	SSA	3.7		
EL1	1898.3	EL2	432.7	ALF	63.48		

LAUNCH DATE SEP 18 1965 FLIGHT TIME 172.00 ARRIVAL DATE MAR 9 1966

DISTANCE 459.872

HELIOCENTRIC CONIC

RL	150.31	LAL	.00	LOL	354.87	VL	27.334	GAL	4.50	AZL	99.38	HCA	198.88	SMA	130.27	ECC	.17226	INC 9.3766
RP	107.87	LAP	3.02	LOP	193.51	VP	37.973	GAP	-.55	AZP	81.12	TAL	157.39	TAP	356.26	RCA	107.83	APO 152.72
RC	69.470	GL	-49.42	GP	71.60	ZAL	63.36	ZAP	85.45	ETS	339.01	ZAE	115.50	ETE	91.18	ZAC	60.60	ETC 225.99

V1	29.644																	
V2	35.132																	
CLP	-75.45																	

PLANETOCENTRIC CONIC

C3	34.166	VHL	5.845	DLA	-64.09	RAL	337.79	RAD	6568.3	VEL	12.471	PTH	2.26	VHP	7.243	DPA	47.86	RAP 287.57

ECC	1.5623																	

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
29.76	11 5 20	1879.10	32.00	58.76	230.11	148.99	11 36 39	1279.1	38.75	53.91
150.24	21 2 23	5458.01	32.01	254.15	230.12	148.99	22 33 21	4858.0	38.76	249.29
29.76	11 5 20	1879.10	32.00	58.76	230.11	148.99	11 36 39	1279.1	38.75	53.91
150.24	21 2 23	5458.01	32.01	254.15	230.12	148.99	22 33 21	4858.0	38.76	249.29
29.76	11 5 20	1879.10	32.00	58.76	230.11	148.99	11 36 39	1279.1	38.75	53.91
150.24	21 2 23	5458.01	32.01	254.15	230.12	148.99	22 33 21	4858.0	38.76	249.29

DIFFERENTIAL CORRECTIONS

TDE	-.6255	TRA	-.2197	TC3	-.1802	BAU	.2933
RDE	-.8150	RRA	-2.1873	RC3	.6163	FAU	.02583
FDE	.9368	FRA	1.8612	FC3	-.6546	BSP	16025
BDE	1.0274	BRA	2.1983	BC3	.6421	FSP	-1211

MID-COURSE EXECUTION ACCURACY

SGT	814.4	SGR	5023.6	SG3	375.2		
RRT	.6738	RRF	-.9980	RTF	-.6955		
SGB	5089.2	R23	.0180	R13	-.9983		
SG1	5053.9	SG2	598.1	THA	83.68		

ORBIT DETERMINATION ACCURACY

ST	630.7	SR	1675.1	SS	972.1		
CRT	.6695	CRS	.9909	CST	.7636		
LSA	1985.0	MSA	456.4	SSA	4.5		
EL1	1731.6	EL2	453.2	ALF	74.78		

LAUNCH DATE SEP 18 1965 FLIGHT TIME 174.00 ARRIVAL DATE MAR 11 1966

HELIOCENTRIC CONIC DISTANCE 466.237

RL 150.31 LAL .00 LOL 354.87 VL 27.341 GAL 4.53 AZL 97.82 HCA 202.05 SMA 130.32 ECC .17204 INC 7.8232 V1 29.644
RP 107.90 LAP 2.93 LOP 196.74 VP 37.967 GAP -.11 AZP 82.74 TAL 157.23 TAP 359.28 RCA 107.90 APO 152.75 V2 35.120
RC 71.643 GL -44.87 GP 67.93 ZAL 59.96 ZAP 87.43 ETS 347.05 ZAE 118.45 ETE 98.56 ZAC 56.71 ETC 230.24 CLP -83.15

PLANETOCENTRIC CONIC

C3 27.651 VHL 5.258 DLA -59.75 RAL 334.27 RAD 6568.1 VEL 12.208 PTH 2.19 VHP 6.389 OPA 43.97 RAP 286.39 ECC 1.4551

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
34.90	11 3 47	1804.34	33.49	50.91	221.55	142.84	11 33 51	1204.3	39.72	45.05
145.10	20 35 51	5426.58	33.51	252.39	221.57	142.83	22 6 17	4826.6	39.73	246.53
34.90	11 3 47	1804.34	33.49	50.91	221.55	142.84	11 33 51	1204.3	39.72	45.05
145.10	20 35 51	5426.58	33.51	252.39	221.57	142.83	22 6 17	4826.6	39.73	246.53
34.90	11 3 47	1804.34	33.49	50.91	221.55	142.84	11 33 51	1204.3	39.72	45.05
145.10	20 35 51	5426.58	33.51	252.39	221.57	142.83	22 6 17	4826.6	39.73	246.53

DIFFERENTIAL CORRECTIONS
TDE -.4237 TRA .0994 TC3 -.3329 BAU .3347
RDE -.6278 RRA-2.2694 RC3 .8420 FAU .03450
FDE .9200 FRA 2.3746 FC3-1.0801 BSP 15984
BDE .7574 BRA 2.2716 BC3 .9054 FSP -1502

MID-COURSE EXECUTION ACCURACY
SGT 618.0 SGR 5034.7 SG3 462.7
RRT -.3372 RRF -.9979 RTF .3139
SGB 5072.4 R23 .0288 R13 -.9978
SG1 5039.0 SG2 581.3 THA 92.40

ORBIT DETERMINATION ACCURACY
ST 466.2 SR 1624.0 SS 1015.0
CRT .2913 CRS .9900 CST .4235
LSA 1917.7 MSA 455.4 SSA 5.4
EL1 1630.1 EL2 444.3 ALF 84.83

LAUNCH DATE SEP 18 1965 FLIGHT TIME 176.00 ARRIVAL DATE MAR 13 1966

HELIOCENTRIC CONIC DISTANCE 472.592

RL 150.31 LAL .00 LOL 354.87 VL 27.346 GAL 4.56 AZL 96.65 HCA 205.24 SMA 130.36 ECC .17205 INC 6.6455 V1 29.644
RP 107.94 LAP 2.83 LOP 199.96 VP 37.959 GAP .33 AZP 83.98 TAL 157.04 TAP 2.28 RCA 107.93 APO 152.79 V2 35.108
RC 73.845 GL -40.55 GP 64.44 ZAL 56.91 ZAP 90.00 ETS 353.87 ZAE 120.89 ETE 105.33 ZAC 52.98 ETC 233.62 CLP -90.00

PLANETOCENTRIC CONIC

C3 23.543 VHL 4.852 DLA -55.62 RAL 331.57 RAD 6568.0 VEL 12.038 PTH 2.15 VHP 5.778 OPA 40.31 RAP 285.09 ECC 1.3875

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
39.90	11 6 16	1738.52	33.82	43.27	214.27	137.18	11 35 15	1138.5	39.49	36.65
140.10	20 11 48	5413.00	33.83	251.18	214.28	137.17	21 42 1	4813.0	39.50	244.55
39.90	11 6 16	1738.52	33.82	43.27	214.27	137.18	11 35 15	1138.5	39.49	36.65
140.10	20 11 48	5413.00	33.83	251.18	214.28	137.17	21 42 1	4813.0	39.50	244.55
39.90	11 6 16	1738.52	33.82	43.27	214.27	137.18	11 35 15	1138.5	39.49	36.65
140.10	20 11 48	5413.00	33.83	251.18	214.28	137.17	21 42 1	4813.0	39.50	244.55

DIFFERENTIAL CORRECTIONS
TDE -.2902 TRA .4096 TC3 -.5366 BAU .3637
RDE -.5216 RRA-2.2995 RC3 1.0235 FAU .04256
FDE .9592 FRA 2.9107 FC3-1.5649 BSP 15838
BDE .5969 BRA 2.3357 BC3 1.1556 FSP -1786

MID-COURSE EXECUTION ACCURACY
SGT 1059.3 SGR 4948.1 SG3 550.7
RRT -.8440 RRF -.9977 RTF .8316
SGB 5060.2 R23 .0399 R13 -.9971
SG1 5029.2 SG2 558.9 THA 100.37

ORBIT DETERMINATION ACCURACY
ST 428.6 SR 1568.7 SS 1072.8
CRT -.2380 CRS .9885 CST -.0887
LSA 1897.6 MSA 441.1 SSA 6.2
EL1 1572.3 EL2 415.4 ALF 94.00

LAUNCH DATE SEP 18 1965 FLIGHT TIME 178.00 ARRIVAL DATE MAR 15 1966

HELIOCENTRIC CONIC DISTANCE 478.931

RL 150.31 LAL .00 LOL 354.87 VL 27.348 GAL 4.61 AZL 95.72 HCA 208.43 SMA 130.38 ECC .17228 INC 5.7175 V1 29.644
RP 107.98 LAP 2.72 LOP 203.18 VP 37.950 GAP .77 AZP 84.97 TAL 156.82 TAP 5.25 RCA 107.91 APO 152.84 V2 35.095
RC 76.070 GL -36.50 GP 61.07 ZAL 54.18 ZAP 93.05 ETS 359.82 ZAE 122.87 ETE 111.82 ZAC 49.33 ETC 236.46 CLP -96.32

PLANETOCENTRIC CONIC

C3 20.842 VHL 4.565 DLA -51.71 RAL 329.47 RAD 6567.8 VEL 11.926 PTH 2.12 VHP 5.332 OPA 36.81 RAP 283.72 ECC 1.3430

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
44.74	11 12 1	1678.19	33.32	36.01	208.19	132.14	11 39 59	1078.2	38.46	28.85
135.26	19 49 19	5414.31	33.33	250.73	208.20	132.13	21 19 33	4814.3	38.47	243.57
44.74	11 12 1	1678.19	33.32	36.01	208.19	132.14	11 39 59	1078.2	38.46	28.85
135.26	19 49 19	5414.31	33.33	250.73	208.20	132.13	21 19 33	4814.3	38.47	243.57
44.74	11 12 1	1678.19	33.32	36.01	208.19	132.14	11 39 59	1078.2	38.46	28.85
135.26	19 49 19	5414.31	33.33	250.73	208.20	132.13	21 19 33	4814.3	38.47	243.57

DIFFERENTIAL CORRECTIONS
TDE -.1850 TRA .7143 TC3 -.7756 BAU .3886
RDE -.4575 RRA-2.2822 RC3 1.1591 FAU .05010
FDE 1.0359 FRA 3.4364 FC3-2.0810 BSP 15788
BDE .4935 BRA 2.3914 BC3 1.3947 FSP -2068

MID-COURSE EXECUTION ACCURACY
SGT 1627.5 SGR 4776.9 SG3 633.4
RRT -.9395 RRF -.9975 RTF .9315
SGB 5046.5 R23 .0508 R13 -.9963
SG1 5018.6 SG2 530.5 THA 107.96

ORBIT DETERMINATION ACCURACY
ST 432.7 SR 1501.3 SS 1133.5
CRT -.6344 CRS .9865 CST -.4996
LSA 1898.5 MSA 420.8 SSA 7.0
EL1 1535.6 EL2 372.4 ALF 102.51

LAUNCH DATE SEP 18 1965 FLIGHT TIME 180.00 ARRIVAL DATE MAR 17 1966

HELIOCENTRIC CONIC DISTANCE 485.251

RL 150.31 LAL .00 LOL 354.87 VL 27.349 GAL 4.67 AZL 94.96 HCA 211.63 SMA 130.38 ECC .17273 INC 4.9634 V1 29.644
RP 108.02 LAP 2.60 LOP 206.40 VP 37.938 GAP 1.20 AZP 85.77 TAL 156.56 TAP 8.18 RCA 107.86 APO 152.90 V2 35.082
RC 78.316 GL -32.73 GP 57.75 ZAL 51.74 ZAP 96.50 ETS 5.02 ZAE 124.42 ETE 118.11 ZAC 45.76 ETC 238.89 CLP-102.25

PLANETOCENTRIC CONIC

C3 19.026 VHL 4.362 DLA -48.05 RAL 327.82 RAD 6567.8 VEL 11.849 PTH 2.10 VHP 5.008 OPA 33.41 RAP 282.33 ECC 1.3131

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
49.41	11 20 35	1620.61	32.27	29.13	203.22	127.75	11 47 36	1020.6	36.93	21.63
130.59	19 27 38	5428.52	32.29	251.13	203.23	127.74	20 58 6	4828.5	36.94	243.64
49.41	11 20 35	1620.61	32.27	29.13	203.22	127.75	11 47 36	1020.6	36.93	21.63
130.59	19 27 38	5428.52	32.29	251.13	203.23	127.74	20 58 6	4828.5	36.94	243.64
49.41	11 20 35	1620.61	32.27	29.13	203.22	127.75	11 47 36	1020.6	36.93	21.63
130.59	19 27 38	5428.52	32.29	251.13	203.23	127.74	20 58 6	4828.5	36.94	243.64

DIFFERENTIAL CORRECTIONS
TDE -.0911 TRA 1.0117 TC3-1.0362 BAU .4109
RDE -.4175 RRA-2.2296 RC3 1.2395 FAU .05666
FDE 1.1411 FRA 3.9298 FC3-2.5785 BSP 15781
BDE .4273 BRA 2.4484 BC3 1.6156 FSP -2328

MID-COURSE EXECUTION ACCURACY
SGT 2187.1 SGR 4545.7 SG3 706.9
RRT -.9677 RRF -.9972 RTF .9615
SGB 5044.5 R23 .0604 R13 -.9954
SG1 5019.8 SG2 499.0 THA 115.23

ORBIT DETERMINATION ACCURACY
ST 608.9 SR 1424.5 SS 1194.2
CRT -.8291 CRS .9840 CST -.7165
LSA 1914.9 MSA 399.0 SSA 7.7
EL1 1515.8 EL2 319.9 ALF 110.47

LAUNCH DATE SEP 18 1965 FLIGHT TIME 182.00 ARRIVAL DATE MAR 19 1966

HELIOCENTRIC CONIC DISTANCE 491,552

RL 150.31 LAL .00 LOL 354.87 VL 27.348 GAL 4.74 AZL 94.34 HCA 214.82 SMA 130.37 ECC .17341 INC 4.3351 V1 29.644
RP 108.06 LAP 2.47 LOP 209.62 VP 37.925 GAP 1.63 AZP 86.44 TAL 156.27 TAP 11.09 RCA 107.76 APO 152.98 V2 35.069
RC 80.581 GL -29.23 GP 54.49 ZAL 49.57 ZAP 100.22 ETS 9.55 ZAE 125.54 ETE 124.17 ZAC 42.24 ETC 240.92 CLP-107.79

PLANETOCENTRIC CONIC

C3 17.801 VHL 4.219 DLA -44.62 RAL 326.53 RAD 6567.7 VEL 11.798 PTH 2.09 VHP 4.776 DPA 30.08 RAP 280.99 ECC 1.2930

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
53.95	11 31 52	1563.17	30.89	22.53	199.21	123.97	11 57 56	963.2	35.10	14.84
126.05	19 6 1	5454.78	30.90	252.43	199.22	123.96	20 36 56	4854.8	35.11	244.74
53.95	11 31 52	1563.17	30.89	22.53	199.21	123.97	11 57 56	963.2	35.10	14.84
126.05	19 6 1	5454.78	30.90	252.43	199.22	123.96	20 36 56	4854.8	35.11	244.74
53.95	11 31 52	1563.17	30.89	22.53	199.21	123.97	11 57 56	963.2	35.10	14.84
126.05	19 6 1	5454.78	30.90	252.43	199.22	123.96	20 36 56	4854.8	35.11	244.74

DIFFERENTIAL CORRECTIONS

TDE .0002 TRA 1.3001 TC3-1.3020 BAU .4319
RDE -.3908 RRA-2.1513 RC3 1.2645 FAU .06191
FDE 1.2664 FRA 4.3715 FC3-3.0110 BSP 15806
BDE .3908 BRA 2.5136 BC3 1.8150 FSP -2549

MID-COURSE EXECUTION ACCURACY

SGT 2712.9 SGR 4274.1 SG3 767.9
RRT -.9792 RRF -.9967 RTF .9739
SGB 5062.4 R23 .0680 R13 -.9944
SG1 5040.8 SG2 466.9 THA 122.17

ORBIT DETERMINATION ACCURACY

ST 744.9 SR 1341.3 SS 1253.3
CRT -.9184 CRS .9810 CST -.8244
LSA 1944.5 MSA 378.4 SSA 8.5
EL1 1511.8 EL2 261.5 ALF 117.93

LAUNCH DATE SEP 18 1965 FLIGHT TIME 184.00 ARRIVAL DATE MAR 21 1966

HELIOCENTRIC CONIC DISTANCE 497,830

RL 150.31 LAL .00 LOL 354.87 VL 27.344 GAL 4.83 AZL 93.80 HCA 218.02 SMA 130.35 ECC .17430 INC 3.8006 V1 29.644
RP 108.10 LAP 2.34 LOP 212.83 VP 37.911 GAP 2.06 AZP 87.00 TAL 155.94 TAP 13.96 RCA 107.63 APO 153.07 V2 35.056
RC 82.862 GL -25.98 GP 51.27 ZAL 47.63 ZAP 104.13 ETS 13.47 ZAE 126.27 ETE 129.95 ZAC 38.82 ETC 242.54 CLP-112.97

PLANETOCENTRIC CONIC

C3 16.993 VHL 4.122 DLA -41.43 RAL 325.51 RAD 6567.7 VEL 11.763 PTH 2.08 VHP 4.617 DPA 26.83 RAP 279.74 ECC 1.2797

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
58.40	11 45 55	1503.66	29.29	16.07	196.02	120.72	12 10 58	903.7	33.13	8.28
121.60	18 43 51	5492.79	29.30	254.64	196.03	120.70	20 15 23	4892.8	33.14	246.85
58.40	11 45 55	1503.66	29.29	16.07	196.02	120.72	12 10 58	903.7	33.13	8.28
121.60	18 43 51	5492.79	29.30	254.64	196.03	120.70	20 15 23	4892.8	33.14	246.85
58.40	11 45 55	1503.66	29.29	16.07	196.02	120.72	12 10 58	903.7	33.13	8.28
121.60	18 43 51	5492.79	29.30	254.64	196.03	120.70	20 15 23	4892.8	33.14	246.85

DIFFERENTIAL CORRECTIONS

TDE .0926 TRA 1.5774 TC3-1.5591 BAU .4530
RDE -.3684 RRA-2.0538 RC3 1.2434 FAU .06574
FDE 1.3978 FRA 4.7423 FC3-3.3493 BSP 15912
BDE .3799 BRA 2.5897 BC3 1.9542 FSP -2725

MID-COURSE EXECUTION ACCURACY

SGT 3196.6 SGR 3975.9 SG3 813.6
RRT -.9848 RRF -.9961 RTF .9801
SGB 5101.6 R23 .0726 R13 -.9934
SG1 5083.0 SG2 434.9 THA 128.71

ORBIT DETERMINATION ACCURACY

ST 887.4 SR 1252.1 SS 1307.0
CRT -.9621 CRS .9773 CST -.8827
LSA 1983.5 MSA 359.6 SSA 9.3
EL1 1521.7 EL2 199.1 ALF 124.98

LAUNCH DATE SEP 18 1965 FLIGHT TIME 186.00 ARRIVAL DATE MAR 23 1966

HELIOCENTRIC CONIC DISTANCE 504,086

RL 150.31 LAL .00 LOL 354.87 VL 27.339 GAL 4.93 AZL 93.34 HCA 221.21 SMA 130.31 ECC .17542 INC 3.3377 V1 29.644
RP 108.14 LAP 2.20 LOP 216.04 VP 37.895 GAP 2.48 AZP 87.49 TAL 155.58 TAP 16.79 RCA 107.45 APO 153.17 V2 35.043
RC 85.157 GL -22.98 GP 48.13 ZAL 45.90 ZAP 108.13 ETS 16.82 ZAE 126.64 ETE 135.35 ZAC 35.53 ETC 243.70 CLP-117.79

PLANETOCENTRIC CONIC

C3 16.495 VHL 4.061 DLA -38.45 RAL 324.71 RAD 6567.7 VEL 11.742 PTH 2.07 VHP 4.518 DPA 23.68 RAP 278.64 ECC 1.2715

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
62.83	12 3 6	1439.26	27.59	9.54	193.53	117.91	12 27 6	839.3	31.09	1.70
117.17	18 20 16	5543.54	27.60	257.85	193.54	117.90	19 52 40	4943.5	31.10	250.01
62.83	12 3 6	1439.26	27.59	9.54	193.53	117.91	12 27 6	839.3	31.09	1.70
117.17	18 20 16	5543.54	27.60	257.85	193.54	117.90	19 52 40	4943.5	31.10	250.01
62.83	12 3 6	1439.26	27.59	9.54	193.53	117.91	12 27 6	839.3	31.09	1.70
117.17	18 20 16	5543.54	27.60	257.85	193.54	117.90	19 52 40	4943.5	31.10	250.01

DIFFERENTIAL CORRECTIONS

TDE .1877 TRA 1.8434 TC3-1.7955 BAU .4745
RDE -.3465 RRA-1.9450 RC3 1.1857 FAU .06806
FDE 1.5254 FRA 5.0322 FC3-3.5724 BSP 16087
BDE .3941 BRA 2.6798 BC3 2.1516 FSP -2850

MID-COURSE EXECUTION ACCURACY

SGT 3636.4 SGR 3666.2 SG3 843.1
RRT -.9877 RRF -.9952 RTF .9836
SGB 5163.8 R23 .0736 R13 -.9925
SG1 5147.9 SG2 405.0 THA 134.76

ORBIT DETERMINATION ACCURACY

ST 1031.7 SR 1159.5 SS 1354.1
CRT -.9845 CRS .9727 CST -.9172
LSA 2030.9 MSA 343.2 SSA 10.0
EL1 1546.1 EL2 135.7 ALF 131.61

LAUNCH DATE SEP 18 1965 FLIGHT TIME 188.00 ARRIVAL DATE MAR 25 1966

HELIOCENTRIC CONIC DISTANCE 510,318

RL 150.31 LAL .00 LOL 354.87 VL 27.333 GAL 5.05 AZL 92.93 HCA 224.41 SMA 130.27 ECC .17675 INC 2.9306 V1 29.644
RP 108.18 LAP 2.05 LOP 219.24 VP 37.878 GAP 2.91 AZP 87.91 TAL 155.17 TAP 19.58 RCA 107.24 APO 153.29 V2 35.030
RC 87.465 GL -20.21 GP 45.10 ZAL 44.34 ZAP 112.13 ETS 19.68 ZAE 126.69 ETE 140.32 ZAC 32.38 ETC 244.36 CLP-122.25

PLANETOCENTRIC CONIC

C3 16.238 VHL 4.030 DLA -35.67 RAL 324.09 RAD 6567.7 VEL 11.731 PTH 2.07 VHP 4.469 DPA 20.64 RAP 277.72 ECC 1.2672

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
67.34	12 24 11	1366.44	25.85	2.65	191.63	115.49	12 46 57	766.4	29.05	354.81
112.66	17 54 15	5609.17	25.86	262.19	191.63	115.47	19 27 45	5009.2	29.07	254.34
67.34	12 24 11	1366.44	25.85	2.65	191.63	115.49	12 46 57	766.4	29.05	354.81
112.66	17 54 15	5609.17	25.86	262.19	191.63	115.47	19 27 45	5009.2	29.07	254.34
67.34	12 24 11	1366.44	25.85	2.65	191.63	115.49	12 46 57	766.4	29.05	354.81
112.66	17 54 15	5609.17	25.86	262.19	191.63	115.47	19 27 45	5009.2	29.07	254.34

DIFFERENTIAL CORRECTIONS

TDE .2873 TRA 2.0998 TC3-2.0003 BAU .4953
RDE -.3252 RRA-1.8326 RC3 1.0973 FAU .06864
FDE 1.6474 FRA 5.2432 FC3-3.6596 BSP 16289
BDE .4339 BRA 2.7870 BC3 2.2815 FSP -2911

MID-COURSE EXECUTION ACCURACY

SGT 4034.0 SGR 3359.2 SG3 857.1
RRT -.9891 RRF -.9941 RTF .9856
SGB 5249.5 R23 .0713 R13 -.9917
SG1 5235.6 SG2 381.5 THA 140.27

ORBIT DETERMINATION ACCURACY

ST 1176.8 SR 1067.9 SS 1396.1
CRT -.9955 CRS .9672 CST -.9393
LSA 2089.4 MSA 329.9 SSA 10.7
EL1 1587.4 EL2 74.7 ALF 137.79

LAUNCH DATE SEP 18 1965 FLIGHT TIME 190.00 ARRIVAL DATE MAR 27 1966

HELIOCENTRIC CONIC DISTANCE 516.525

RL 150.31 LAL .00 LOL 354.87 VL 27.325 GAL 5.18 AZL 92.57 HCA 227.60 SMA 130.21 ECC .17831 INC 2.5676 V1 29.644
RP 108.22 LAP 1.90 LOP 222.45 VP 37.860 GAP 3.33 AZP 88.27 TAL 154.74 TAP 22.34 RCA 106.99 APO 153.43 V2 35.016
RC 89.783 GL -17.65 GP 42.19 ZAL 42.94 ZAP 116.07 ETS 22.09 ZAE 126.47 ETE 144.81 ZAC 29.43 ETC 244.45 CLP-126.38

PLANETOCENTRIC CONIC

C3 16.176 VHL 4.022 DLA -33.09 RAL 323.62 RAD 6567.6 VEL 11.729 PTH 2.07 VHP 4.462 DPA 17.74 RAP 276.99 ECC 1.2662

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
72.13	12 50 49	1278.90	24.11	354.93	190.22	113.37	13 12 8	678.9	27.06	347.10
107.87	17 23 53	5694.97	24.12	268.04	190.22	113.36	18 58 48	5095.0	27.07	260.20
72.13	12 50 49	1278.90	24.11	354.93	190.22	113.37	13 12 8	678.9	27.06	347.10
107.87	17 23 53	5694.97	24.12	268.04	190.22	113.36	18 58 48	5095.0	27.07	260.20
110.00	16 31 30	5856.00	18.69	277.62	187.35	119.16	18 9 6	5256.0	22.43	270.48
110.00	18 42 22	5453.91	29.79	251.74	192.59	107.60	20 13 16	4853.9	31.90	243.17

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE .3891 TRA 2.3448 TC3-2.1732 BAU .5172 SGT 4388.4 SGR 3060.0 SG3 855.9 ST 1319.3 SR 975.5 SS 1427.2
RDE -.3000 RRA-1.7184 RC3 .9983 FAU .06810 RRT -.9896 RRF -.9927 RTF .9869 CRT -.9997 CRS .9600 CST -.9541
FDE 1.7472 FRA 5.3691 FC3-3.6447 BSP 16613 SGB 5349.9 R23 .0651 R13 -.9910 LSA 2151.1 MSA 318.7 SSA 11.3
BDE .4913 BRA 2.9071 BC3 2.3915 FSP -2933 SG1 5337.7 SG2 361.9 THA 145.21 EL1 1640.6 EL2 19.5 ALF 143.52

LAUNCH DATE SEP 18 1965 FLIGHT TIME 192.00 ARRIVAL DATE MAR 29 1966

HELIOCENTRIC CONIC DISTANCE 522.707

RL 150.31 LAL .00 LOL 354.87 VL 27.316 GAL 5.33 AZL 92.24 HCA 230.79 SMA 130.15 ECC .18009 INC 2.2401 V1 29.644
RP 108.26 LAP 1.74 LOP 225.65 VP 37.841 GAP 3.75 AZP 88.58 TAL 154.26 TAP 25.06 RCA 106.71 APO 153.59 V2 35.003
RC 92.112 GL -15.28 GP 39.44 ZAL 41.67 ZAP 119.90 ETS 24.14 ZAE 126.05 ETE 148.81 ZAC 26.70 ETC 243.90 CLP-130.20

PLANETOCENTRIC CONIC

C3 16.281 VHL 4.035 DLA -30.68 RAL 323.28 RAD 6567.7 VEL 11.733 PTH 2.07 VHP 4.492 DPA 14.99 RAP 276.47 ECC 1.2679

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
77.68	13 27 20	1161.84	22.41	345.28	189.23	111.52	13 46 42	561.8	25.13	337.48
102.32	16 44 39	5814.97	22.42	276.38	189.23	111.50	18 21 34	5215.0	25.14	268.57
77.68	13 27 20	1161.84	22.41	345.28	189.23	111.52	13 46 42	561.8	25.13	337.48
102.32	16 44 39	5814.97	22.42	276.38	189.23	111.50	18 21 34	5215.0	25.14	268.57
110.00	15 39 19	732.16	13.00	309.03	184.27	121.90	15 51 31	132.2	17.12	302.35
110.00	19 31 51	5292.65	32.52	239.98	192.56	101.15	21 0 4	4692.7	33.72	230.95

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE .4938 TRA 2.5811 TC3-2.3108 BAU .5392 SGT 4704.2 SGR 2777.8 SG3 842.2 ST 1459.2 SR 885.9 SS 1449.5
RDE -.2729 RRA-1.6078 RC3 .8933 FAU .06644 RRT -.9893 RRF -.9907 RTF .9877 CRT -.9987 CRS .9508 CST -.9647
FDE 1.8267 FRA 5.4227 FC3-3.5330 BSP 17000 SGB 5463.1 R23 .0563 R13 -.9905 LSA 2217.9 MSA 310.0 SSA 11.8
BDE .5642 BRA 3.0409 BC3 2.4774 FSP -2914 SG1 5451.9 SG2 348.9 THA 149.57 EL1 1706.6 EL2 38.4 ALF 148.75

LAUNCH DATE SEP 18 1965 FLIGHT TIME 194.00 ARRIVAL DATE MAR 31 1966

HELIOCENTRIC CONIC DISTANCE 528.862

RL 150.31 LAL .00 LOL 354.87 VL 27.305 GAL 5.50 AZL 91.94 HCA 233.99 SMA 130.07 ECC .18210 INC 1.9413 V1 29.644
RP 108.31 LAP 1.57 LOP 228.84 VP 37.821 GAP 4.17 AZP 88.86 TAL 153.75 TAP 27.74 RCA 106.39 APO 153.76 V2 34.990
RC 94.449 GL -13.09 GP 36.85 ZAL 40.51 ZAP 123.57 ETS 25.88 ZAE 125.47 ETE 152.33 ZAC 24.22 ETC 242.62 CLP-133.72

PLANETOCENTRIC CONIC

C3 16.532 VHL 4.066 DLA -28.43 RAL 323.05 RAD 6567.7 VEL 11.744 PTH 2.07 VHP 4.553 DPA 12.41 RAP 276.17 ECC 1.2721

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
87.37	14 42 56	919.62	20.75	326.71	188.60	109.87	14 58 16	319.6	23.28	318.94
92.63	15 27 12	776.17	20.77	316.22	188.60	109.86	15 40 8	176.2	23.29	308.44
100.00	15 7 59	838.28	14.84	318.13	185.95	116.25	15 21 58	238.3	18.24	310.99
100.00	17 44 50	5620.78	26.93	263.49	190.62	103.49	19 18 30	5020.8	28.52	255.05
110.00	15 6 28	843.08	8.93	315.05	182.52	123.13	15 20 31	243.1	13.23	308.59
110.00	20 2 51	5188.75	33.62	232.07	191.99	96.59	21 29 19	4588.7	34.16	222.87

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE .6019 TRA 2.8113 TC3-2.4112 BAU .5607 SGT 4985.6 SGR 2517.4 SG3 818.9 ST 1536.6 SR 801.3 SS 1464.6
RDE -.2447 RRA-1.5040 RC3 .7879 FAU .06383 RRT -.9884 RRF -.9883 RTF .9881 CRT -.9933 CRS .9391 CST -.9723
FDE 1.8874 FRA 5.4176 FC3-3.3426 BSP 17414 SGB 5585.2 R23 .0462 R13 -.9900 LSA 2290.0 MSA 303.2 SSA 12.3
BDE .6498 BRA 3.1883 BC3 2.5367 FSP -2855 SG1 5574.7 SG2 342.2 THA 153.37 EL1 1784.5 EL2 83.0 ALF 153.44

LAUNCH DATE SEP 18 1965 FLIGHT TIME 196.00 ARRIVAL DATE APR 2 1966

HELIOCENTRIC CONIC DISTANCE 534.990

RL 150.31 LAL .00 LOL 354.87 VL 27.294 GAL 5.68 AZL 91.67 HCA 237.17 SMA 129.99 ECC .18435 INC 1.6660 V1 29.644
RP 108.35 LAP 1.40 LOP 232.04 VP 37.801 GAP 4.60 AZP 89.10 TAL 153.21 TAP 30.39 RCA 106.03 APO 153.96 V2 34.977
RC 96.794 GL -11.07 GP 34.45 ZAL 39.45 ZAP 127.07 ETS 27.37 ZAE 124.78 ETE 155.39 ZAC 22.01 ETC 240.53 CLP-136.98

PLANETOCENTRIC CONIC

C3 16.920 VHL 4.113 DLA -26.33 RAL 322.91 RAD 6567.7 VEL 11.760 PTH 2.08 VHP 4.641 DPA 10.01 RAP 276.08 ECC 1.2785

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	13 31 40	1157.89	12.44	340.44	185.46	115.64	13 50 58	557.9	15.80	333.37
90.00	16 37 22	5836.59	26.19	279.17	190.29	101.17	18 14 39	5236.6	27.47	270.74
100.00	14 23 56	989.10	10.12	326.84	184.26	118.28	14 40 25	389.1	13.82	320.01
100.00	18 27 47	5480.61	28.76	253.48	190.79	98.53	19 59 8	4880.6	29.64	244.79
110.00	14 41 43	933.28	5.55	319.84	181.48	123.78	14 57 16	333.3	9.95	313.51
110.00	20 26 29	5109.19	34.07	225.90	191.42	92.97	21 51 39	4509.2	34.11	216.66

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE .7156 TRA 3.0399 TC3-2.4707 BAU .5799 SGT 5238.9 SGR 2282.1 SG3 788.9 ST 1733.8 SR 723.8 SS 1475.6
RDE -.2172 RRA-1.4098 RC3 .6833 FAU .06022 RRT -.9866 RRF -.9853 RTF .9883 CRT -.9835 CRS .9247 CST -.9781
FDE 1.9346 FRA 5.3713 FC3-3.0811 BSP 17787 SGB 5714.4 R23 .0367 R13 -.9896 LSA 2370.3 MSA 298.0 SSA 12.7
BDE .7478 BRA 3.3509 BC3 2.5634 FSP -2756 SG1 5704.2 SG2 341.9 THA 156.65 EL1 1874.9 EL2 121.0 ALF 157.58

LAUNCH DATE SEP 18 1965 FLIGHT TIME 198.00 ARRIVAL DATE APR 4 1966

HELIOCENTRIC CONIC DISTANCE 541.089

RL 150.31 LAL .00 LOL 354.87 VL 27.281 GAL 5.88 AZL 91.41 HCA 240.36 SMA 129.90 ECC .18684 INC 1.4100 V1 29.644
RP 108.39 LAP 1.23 LOP 235.23 VP 37.780 GAP 5.03 AZP 89.30 TAL 152.64 TAP 33.00 RCA 105.63 APO 154.17 V2 34.964
RC 99.145 GL -9.20 GP 32.23 ZAL 38.47 ZAP 130.38 ETS 28.68 ZAE 124.04 ETE 158.03 ZAC 20.11 ETC 237.54 CLP-139.99

PLANETOCENTRIC CONIC

C3 17.437 VHL 4.176 DLA -24.38 RAL 322.86 RAD 6567.7 VEL 11.782 PTH 2.08 VHP 4.754 DPA 7.79 RAP 276.20 ECC 1.2870

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 53 41	1293.67	8.33	348.29	184.35	117.16	13 15 15	693.7	11.90	341.44
90.00	17 14 54	5714.70	27.50	270.50	190.51	97.01	18 50 8	5114.7	28.19	261.90
100.00	13 54 12	1098.32	6.54	332.97	183.39	119.23	14 12 30	498.3	10.39	326.30
100.00	18 57 4	5385.29	29.52	246.50	190.75	94.93	20 26 49	4785.3	29.89	237.72
110.00	14 21 51	1011.61	2.57	323.95	180.93	124.10	14 38 42	411.6	7.03	317.70
110.00	20 45 55	5044.76	34.18	220.88	190.99	90.00	22 9 59	4444.8	33.80	211.65

DIFFERENTIAL CORRECTIONS
TDE .8293 TRA 3.2625 TC3-2.5042 BAU .5998
RDE -.1874 RRA-1.3224 RC3 .5914 FAU .05651
FDE 1.9569 FRA 5.2822 FC3-2.8057 BSP 18254
BDE .8502 BRA 3.5203 BC3 2.5731 FSP -2652

MID-COURSE EXECUTION ACCURACY
SGT 5461.1 SGR 2068.5 SG3 753.3
RRT -.9841 RRF -.9814 RTF .9884
SGB 5839.7 R23 .0272 R13 -.9893
SG1 5829.5 SG2 344.3 THA 159.48

ORBIT DETERMINATION ACCURACY
ST 1863.5 SR 650.8 SS 1476.0
CRT -.9686 CRS .9058 CST -.9825
LSA 2447.1 MSA 294.0 SSA 12.9
EL1 1967.9 EL2 153.1 ALF 161.19

LAUNCH DATE SEP 18 1965 FLIGHT TIME 200.00 ARRIVAL DATE APR 6 1966

HELIOCENTRIC CONIC DISTANCE 547.158

RL 150.31 LAL .00 LOL 354.87 VL 27.267 GAL 6.10 AZL 91.17 HCA 243.55 SMA 129.81 ECC .18958 INC 1.1699 V1 29.644
RP 108.43 LAP 1.05 LOP 238.41 VP 37.758 GAP 5.46 AZP 89.48 TAL 152.03 TAP 35.58 RCA 105.20 APO 154.42 V2 34.951
RC 101.502 GL -7.48 GP 30.19 ZAL 37.56 ZAP 133.50 ETS 29.84 ZAE 123.26 ETE 160.29 ZAC 18.52 ETC 233.62 CLP-142.78

PLANETOCENTRIC CONIC

C3 18.081 VHL 4.252 DLA -22.56 RAL 322.87 RAD 6567.7 VEL 11.809 PTH 2.09 VHP 4.889 DPA 5.74 RAP 276.51 ECC 1.2976

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 26 33	1397.77	5.05	354.18	183.88	117.90	12 49 50	797.8	8.74	347.45
90.00	17 42 9	5627.48	28.07	264.18	190.66	93.90	19 15 56	5027.5	28.31	255.52
100.00	13 31 16	1188.87	3.51	337.98	183.03	119.71	13 51 5	588.9	7.43	331.40
100.00	19 20 7	5311.60	29.83	241.05	190.77	92.08	20 48 38	4711.6	29.80	232.24
110.00	14 5 20	1082.04	-.12	327.62	180.76	124.18	14 23 23	482.0	4.36	321.41
110.00	21 2 31	4991.21	34.10	216.70	190.75	87.52	22 25 42	4391.2	33.39	207.53

DIFFERENTIAL CORRECTIONS
TDE .9462 TRA 3.4847 TC3-2.5078 BAU .6186
RDE -.1579 RRA-1.2443 RC3 .5084 FAU .05250
FDE 1.9648 FRA 5.1695 FC3-2.5137 BSP 18715
BDE .9592 BRA 3.7002 BC3 2.5589 FSP -2534

MID-COURSE EXECUTION ACCURACY
SGT 5659.1 SGR 1878.3 SG3 714.9
RRT -.9807 RRF -.9767 RTF .9884
SGB 5962.7 R23 .0191 R13 -.9890
SG1 5952.5 SG2 349.6 THA 161.91

ORBIT DETERMINATION ACCURACY
ST 1989.0 SR 584.9 SS 1471.3
CRT -.9480 CRS .8818 CST -.9859
LSA 2525.5 MSA 290.9 SSA 13.1
EL1 2065.4 EL2 179.2 ALF 164.30

LAUNCH DATE SEP 18 1965 FLIGHT TIME 202.00 ARRIVAL DATE APR 8 1966

HELIOCENTRIC CONIC DISTANCE 553.196

RL 150.31 LAL .00 LOL 354.87 VL 27.252 GAL 6.33 AZL 90.94 HCA 246.73 SMA 129.71 ECC .19259 INC .9428 V1 29.644
RP 108.46 LAP .87 LOP 241.60 VP 37.736 GAP 5.90 AZP 89.63 TAL 151.40 TAP 38.13 RCA 104.73 APO 154.69 V2 34.939
RC 103.862 GL -5.89 GP 28.32 ZAL 36.72 ZAP 136.42 ETS 30.91 ZAE 122.48 ETE 162.24 ZAC 17.29 ETC 228.77 CLP-145.39

PLANETOCENTRIC CONIC

C3 18.854 VHL 4.342 DLA -20.86 RAL 322.95 RAD 6567.8 VEL 11.842 PTH 2.10 VHP 5.043 DPA 3.87 RAP 277.01 ECC 1.3103

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 5 10	1485.84	2.22	359.11	183.82	118.24	12 29 55	885.8	5.98	352.45
90.00	18 4 8	5559.02	28.29	259.18	190.89	91.40	19 36 47	4959.0	28.18	250.52
100.00	13 12 35	1268.22	.82	342.34	183.04	119.88	13 33 44	668.2	4.79	335.80
100.00	19 39 23	5251.87	29.89	236.61	190.91	89.74	21 6 55	4651.9	29.54	227.82
110.00	13 51 21	1146.72	-2.60	331.00	180.90	124.10	14 10 28	546.7	1.90	324.79
110.00	21 17 6	4946.13	33.92	213.19	190.71	85.46	22 39 33	4346.1	32.92	204.09

DIFFERENTIAL CORRECTIONS
TDE 1.0667 TRA 3.7084 TC3-2.4842 BAU .6357
RDE -.1291 RRA-1.1749 RC3 .4344 FAU .04831
FDE 1.9618 FRA 5.0417 FC3-2.2184 BSP 19153
BDE 1.0745 BRA 3.8901 BC3 2.5219 FSP -2405

MID-COURSE EXECUTION ACCURACY
SGT 5835.9 SGR 1709.9 SG3 675.3
RRT -.9762 RRF -.9711 RTF .9883
SGB 6081.2 R23 .0125 R13 -.9886
SG1 6070.7 SG2 356.4 THA 163.98

ORBIT DETERMINATION ACCURACY
ST 2110.3 SR 526.2 SS 1462.5
CRT -.9208 CRS .8520 CST -.9886
LSA 2604.9 MSA 288.3 SSA 13.2
EL1 2165.7 EL2 200.0 ALF 166.96

LAUNCH DATE SEP 18 1965 FLIGHT TIME 204.00 ARRIVAL DATE APR 10 1966

HELIOCENTRIC CONIC DISTANCE 559.201

RL 150.31 LAL .00 LOL 354.87 VL 27.237 GAL 6.59 AZL 90.73 HCA 249.91 SMA 129.60 ECC .19587 INC .7266 V1 29.644
RP 108.50 LAP .68 LOP 244.78 VP 37.713 GAP 6.34 AZP 89.75 TAL 150.73 TAP 40.65 RCA 104.21 APO 154.98 V2 34.926
RC 106.225 GL -4.43 GP 26.62 ZAL 35.92 ZAP 139.16 ETS 31.93 ZAE 121.72 ETE 163.89 ZAC 16.44 ETC 223.15 CLP-147.81

PLANETOCENTRIC CONIC

C3 19.759 VHL 4.445 DLA -19.27 RAL 323.07 RAD 6567.8 VEL 11.880 PTH 2.11 VHP 5.216 DPA 2.17 RAP 277.67 ECC 1.3252

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 47 33	1563.81	-.29	3.46	184.08	118.32	12 13 37	963.8	3.50	356.83
90.00	18 22 46	5503.22	28.31	255.10	191.25	89.35	19 54 30	4903.2	27.92	246.46
100.00	12 56 56	1339.90	-1.61	346.27	183.34	119.85	13 19 16	739.9	2.37	339.75
100.00	19 56 4	5202.37	29.82	232.93	191.21	87.81	21 22 47	4602.4	29.20	224.18
110.00	13 39 20	1207.02	-4.89	334.15	181.30	123.87	13 59 27	607.0	-.41	327.94
110.00	21 30 9	4908.01	33.67	210.24	190.87	83.73	22 51 57	4308.0	32.44	201.22

DIFFERENTIAL CORRECTIONS
TDE 1.1906 TRA 3.9345 TC3-2.4381 BAU .6514
RDE -.1011 RRA-1.1136 RC3 .3700 FAU .04413
FDE 1.9495 FRA 4.9051 FC3-1.9335 BSP 19583
BDE 1.1949 BRA 4.0891 BC3 2.4660 FSP -2274

MID-COURSE EXECUTION ACCURACY
SGT 5993.1 SGR 1561.2 SG3 635.7
RRT -.9707 RRF -.9644 RTF .9881
SGB 6193.1 R23 .0073 R13 -.9883
SG1 6182.4 SG2 363.7 THA 165.76

ORBIT DETERMINATION ACCURACY
ST 2226.5 SR 474.5 SS 1450.1
CRT -.8858 CRS .8150 CST -.9908
LSA 2683.8 MSA 286.1 SSA 13.3
EL1 2266.2 EL2 216.4 ALF 169.21

LAUNCH DATE SEP 18 1965 FLIGHT TIME 206.00 ARRIVAL DATE APR 12 1966

HELIOCENTRIC CONIC DISTANCE 565.171

RL 150.31 LAL .00 LOL 354.87 VL 27.220 GAL 6.86 AZL 90.52 HCA 253.09 SMA 129.49 ECC .19945 INC .5190 VI 29.644
RP 108.54 LAP .50 LOP 247.96 VP 37.690 GAP 6.79 AZP 89.85 TAL 150.05 TAP 43.14 RCA 103.66 APO 155.31 V2 34.914
RC 108.588 GL -3.08 GP 25.07 ZAL 35.17 ZAP 141.73 ETS 32.92 ZAE 120.97 ETE 165.31 ZAC 15.97 ETC 217.00 CLP-150.08

PLANETOCENTRIC CONIC

C3 20.804 VHL 4.561 DLA -17.79 RAL 323.25 RAD 6567.8 VEL 11.924 PTH 2.12 VHP 5.405 DPA .62 RAP 278.50 ECC 1.3424

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 32 40	1634.71	-2.58	7.42	184.60	118.21	11 59 55	1034.7	1.21	.79
90.00	18 39 4	5456.92	28.23	251.72	191.76	87.66	20 10 1	4856.9	27.60	243.11
100.00	12 43 34	1405.94	-3.84	349.90	183.90	119.67	13 7 0	805.9	.13	343.37
100.00	20 10 51	5160.93	29.67	229.86	191.67	86.20	21 36 52	4560.9	28.83	221.15
110.00	13 28 55	1263.84	-7.04	337.15	181.92	123.54	13 49 59	663.8	-2.58	330.90
110.00	21 41 59	4875.79	33.40	207.76	191.23	82.28	23 3 15	4275.8	31.98	198.82

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE 1.3211 TRA 4.1684 TC3-2.3662 BAU .6638 SGT 6136.3 SGR 1431.1 SG3 597.2 ST 2340.9 SR 430.2 SS 1437.2
RDE -.0747 RRA-1.0607 RC3 .3123 FAU .03978 RRT -.9640 RRF -.9567 RTF .9877 CRT -.8427 CRS .7710 CST -.9925
FDE 1.9342 FRA 4.7699 FC3-1.6556 BSP 19910 SGB 6301.0 R23 .0036 R13 -.9879 LSA 2765.8 MSA 283.9 SSA 13.4
BDE 1.3232 BRA 4.3012 BC3 2.3867 FSP -2133 SG1 6290.0 SG2 371.1 THA 167.28 EL1 2369.1 EL2 228.8 ALF 171.11

LAUNCH DATE SEP 18 1965 FLIGHT TIME 208.00 ARRIVAL DATE APR 14 1966

HELIOCENTRIC CONIC DISTANCE 571.103

RL 150.31 LAL .00 LOL 354.87 VL 27.203 GAL 7.16 AZL 90.32 HCA 256.27 SMA 129.37 ECC .20334 INC .3184 VI 29.644
RP 108.58 LAP .31 LOP 251.14 VP 37.667 GAP 7.25 AZP 89.92 TAL 149.34 TAP 45.61 RCA 103.06 APO 155.67 V2 34.903
RC 110.951 GL -1.83 GP 23.66 ZAL 34.46 ZAP 144.13 ETS 33.91 ZAE 120.27 ETE 166.52 ZAC 15.87 ETC 210.67 CLP-152.22

PLANETOCENTRIC CONIC

C3 21.998 VHL 4.690 DLA -16.41 RAL 323.47 RAD 6567.9 VEL 11.974 PTH 2.13 VHP 5.612 DPA -.78 RAP 279.47 ECC 1.3620

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 19 53	1700.29	-4.68	11.09	185.34	117.96	11 48 13	1100.3	-.90	4.45
90.00	18 53 34	5418.22	28.09	248.90	192.41	86.25	20 23 53	4818.2	27.27	240.33
100.00	12 32 0	1467.61	-5.91	353.31	184.66	119.36	12 56 27	867.6	-1.96	346.76
100.00	20 24 9	5126.14	29.49	227.29	192.29	84.86	21 49 35	4526.1	28.46	218.63
110.00	13 19 49	1317.81	-9.06	340.03	182.74	123.10	13 41 46	717.8	-4.64	333.73
110.00	21 52 49	4848.70	33.14	205.69	191.76	81.09	23 13 38	4248.7	31.55	196.82

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE 1.4523 TRA 4.4042 TC3-2.2845 BAU .6764 SGT 6260.7 SGR 1315.6 SG3 559.7 ST 2445.9 SR 391.7 SS 1419.3
RDE -.0481 RRA-1.0134 RC3 .2649 FAU .03584 RRT -.9561 RRF -.9477 RTF .9874 CRT -.7894 CRS .7172 CST -.9939
FDE 1.9089 FRA 4.6304 FC3-1.4104 BSP 20302 SGB 6397.5 R23 .0004 R13 -.9875 LSA 2840.9 MSA 281.9 SSA 13.4
BDE 1.4531 BRA 4.5193 BC3 2.2998 FSP -2006 SG1 6386.3 SG2 377.8 THA 168.60 EL1 2465.6 EL2 238.5 ALF 172.73

LAUNCH DATE SEP 18 1965 FLIGHT TIME 210.00 ARRIVAL DATE APR 16 1966

HELIOCENTRIC CONIC DISTANCE 576.995

RL 150.31 LAL .00 LOL 354.87 VL 27.185 GAL 7.49 AZL 90.12 HCA 259.45 SMA 129.25 ECC .20756 INC .1229 VI 29.644
RP 108.61 LAP .12 LOP 254.32 VP 37.644 GAP 7.72 AZP 89.98 TAL 148.61 TAP 48.05 RCA 102.42 APO 156.07 V2 34.892
RC 113.313 GL -.69 GP 22.39 ZAL 33.78 ZAP 146.38 ETS 34.94 ZAE 119.59 ETE 167.56 ZAC 16.14 ETC 204.52 CLP-154.23

PLANETOCENTRIC CONIC

C3 23.354 VHL 4.833 DLA -15.12 RAL 323.72 RAD 6567.9 VEL 12.030 PTH 2.15 VHP 5.834 DPA -2.04 RAP 280.56 ECC 1.3844

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 8 46	1761.73	-6.63	14.56	186.27	117.59	11 38 8	1161.7	-2.88	7.88
90.00	19 6 41	5385.86	27.92	246.54	193.21	85.08	20 36 27	4785.9	26.95	238.01
100.00	12 21 54	1525.79	-7.84	356.55	185.62	118.94	12 47 20	925.8	-3.92	349.96
100.00	20 36 15	5097.03	29.29	225.15	193.06	83.75	22 1 12	4497.0	28.12	216.54
110.00	13 11 49	1369.42	-10.96	342.81	183.74	122.58	13 34 39	769.4	-6.59	336.45
110.00	22 2 49	4826.16	32.89	203.98	192.46	80.10	23 23 15	4226.2	31.17	195.18

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE 1.5876 TRA 4.6474 TC3-2.1889 BAU .6870 SGT 6371.4 SGR 1213.6 SG3 523.8 ST 2545.3 SR 359.2 SS 1400.0
RDE -.0225 RRA -.9721 RC3 .2242 FAU .03204 RRT -.9470 RRF -.9375 RTF .9871 CRT -.7262 CRS .6545 CST -.9950
FDE 1.8802 FRA 4.4949 FC3-1.1877 BSP 20665 SGB 6486.0 R23 -.0020 R13 -.9871 LSA 2913.6 MSA 279.8 SSA 13.4
BDE 1.5877 BRA 4.7480 BC3 2.2004 FSP -1883 SG1 6474.6 SG2 383.7 THA 169.74 EL1 2558.8 EL2 245.7 ALF 174.09

LAUNCH DATE SEP 18 1965 FLIGHT TIME 212.00 ARRIVAL DATE APR 18 1966

HELIOCENTRIC CONIC DISTANCE 582.843

RL 150.31 LAL .00 LOL 354.87 VL 27.167 GAL 7.83 AZL 89.93 HCA 262.62 SMA 129.12 ECC .21214 INC .0656 VI 29.644
RP 108.64 LAP -.07 LOP 257.49 VP 37.620 GAP 8.20 AZP 90.01 TAL 147.86 TAP 50.48 RCA 101.73 APO 156.51 V2 34.881
RC 115.673 GL .36 GP 21.22 ZAL 33.13 ZAP 148.48 ETS 36.03 ZAE 118.96 ETE 168.46 ZAC 16.72 ETC 198.85 CLP-156.14

PLANETOCENTRIC CONIC

C3 24.888 VHL 4.989 DLA -13.92 RAL 324.00 RAD 6568.0 VEL 12.094 PTH 2.16 VHP 6.073 DPA -3.17 RAP 281.77 ECC 1.4096

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 59 3	1819.83	-8.45	17.86	187.38	117.13	11 29 23	1219.8	-4.75	11.13
90.00	19 18 39	5358.93	27.75	244.59	194.15	84.12	20 47 58	4758.9	26.64	236.10
100.00	12 13 2	1581.12	-9.65	359.67	186.74	118.43	12 39 23	981.1	-5.78	353.02
100.00	20 47 21	5072.88	29.10	223.38	193.97	82.83	22 11 54	4472.9	27.80	214.81
110.00	13 4 47	1419.05	-12.77	345.52	184.89	121.98	13 28 26	819.1	-8.45	339.08
110.00	22 12 6	4807.71	32.66	202.59	193.32	79.31	23 32 13	4207.7	30.84	193.84

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE 1.7274 TRA 4.8991 TC3-2.0823 BAU .6957 SGT 6469.6 SGR 1123.5 SG3 490.0 ST 2638.9 SR 332.3 SS 1379.6
RDE .0022 RRA -.9359 RC3 .1894 FAU .02842 RRT -.9366 RRF -.9262 RTF .9868 CRT -.6534 CRS .5831 CST -.9959
FDE 1.8493 FRA 4.3650 FC3 -.9887 BSP 21007 SGB 6566.4 R23 -.0038 R13 -.9868 LSA 2983.4 MSA 277.5 SSA 13.4
BDE 1.7274 BRA 4.9877 BC3 2.0909 FSP -1766 SG1 6554.9 SG2 388.7 THA 170.73 EL1 2647.9 EL2 250.7 ALF 175.25

LAUNCH DATE SEP 18 1965 FLIGHT TIME 214.00 ARRIVAL DATE APR 20 1966

HELIOCENTRIC CONIC DISTANCE 588.644

RL 150.31 LAL .00 LOL 354.87 VL 27.148 GAL 8.21 AZL 89.74 HCA 265.79 SMA 128.99 ECC .21711 INC .2550 VI 29.644
RP 108.68 LAP -.25 LOP 260.66 VP 37.597 GAP 8.70 AZP 90.02 TAL 147.09 TAP 52.89 RCA 100.99 APO 157.00 V2 34.870
RC 118.029 GL 1.33 GP 20.17 ZAL 32.51 ZAP 150.46 ETS 37.20 ZAE 118.36 ETE 169.22 ZAC 17.57 ETC 193.81 CLP-157.95

PLANETOCENTRIC CONIC

C3 26.617 VHL 5.159 DLA -12.79 RAL 324.31 RAD 6568.1 VEL 12.165 PTH 2.18 VHP 6.329 DPA -4.18 RAP 283.09 ECC 1.4380

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 50 29	1875.18	-10.15	21.03	188.64	116.58	11 21 44	1275.2	-6.50	14.25
90.00	19 29 39	5336.79	27.58	242.99	195.21	83.33	20 58 36	4736.8	26.37	234.54
100.00	12 5 13	1634.07	-11.35	2.68	188.01	117.84	12 32 27	1034.1	-7.54	355.96
100.00	20 57 37	5053.13	28.92	221.94	195.02	82.10	22 21 50	4453.1	27.53	213.41
110.00	12 58 34	1466.99	-14.48	348.18	186.19	121.31	13 23 1	867.0	-10.23	341.66
110.00	22 20 45	4792.97	32.47	201.48	194.32	78.68	23 40 38	4193.0	30.57	192.78

DIFFERENTIAL CORRECTIONS
TDE 1.8727 TRA 5.1611 TC3-1.9668 BAU .7022
RDE .0261 RRA -.9044 RC3 .1595 FAU .02498
FDE 1.8180 FRA 4.2425 FC3 -.8125 BSP 21313
BDE 1.8728 BRA 5.2397 BC3 1.9732 FSP -1653

MID-COURSE EXECUTION ACCURACY
SGT 6556.7 SGR 1043.4 SG3 458.2
RRT -.9249 RRF -.9137 RTF .9864
SGB 6639.2 R23 -.0050 R13 -.9864
SG1 6627.6 SG2 392.5 THA 171.60

ORBIT DETERMINATION ACCURACY
ST 2727.3 SR 310.4 SS 1359.1
CRT -.5727 CRS .5048 CST -.9967
LSA 3050.5 MSA 275.0 SSA 13.3
EL1 2733.1 EL2 253.9 ALF 176.24

LAUNCH DATE SEP 18 1965 FLIGHT TIME 216.00 ARRIVAL DATE APR 22 1966

HELIOCENTRIC CONIC DISTANCE 594.394

RL 150.31 LAL .00 LOL 354.87 VL 27.129 GAL 8.61 AZL 89.56 HCA 268.96 SMA 128.86 ECC .22249 INC .4413 VI 29.644
RP 108.71 LAP -.44 LOP 263.84 VP 37.574 GAP 9.22 AZP 90.01 TAL 146.32 TAP 55.28 RCA 100.19 APO 157.53 V2 34.860
RC 120.382 GL 2.22 GP 19.21 ZAL 31.91 ZAP 152.31 ETS 38.47 ZAE 117.80 ETE 169.89 ZAC 18.65 ETC 189.49 CLP-159.68

PLANETOCENTRIC CONIC

C3 28.565 VHL 5.345 DLA -11.75 RAL 324.63 RAD 6568.1 VEL 12.245 PTH 2.20 VHP 6.601 DPA -5.08 RAP 284.50 ECC 1.4701

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 42 55	1928.21	-11.75	24.11	190.04	115.95	11 15 3	1328.2	-8.17	17.26
90.00	19 39 50	5318.93	27.44	241.71	196.40	82.70	21 8 29	4718.9	26.14	233.28
100.00	11 58 18	1685.01	-12.95	5.61	189.42	117.18	12 26 23	1085.0	-9.21	358.82
100.00	21 7 8	5037.37	28.77	220.79	196.19	81.51	22 31 5	4437.4	27.30	212.30
110.00	12 53 4	1513.48	-16.11	350.80	187.63	120.56	13 18 17	913.5	-11.93	344.18
110.00	22 28 51	4781.65	32.32	200.63	195.46	78.20	23 48 33	4181.7	30.35	191.97

DIFFERENTIAL CORRECTIONS
TDE 2.0267 TRA 5.4377 TC3-1.8401 BAU .7046
RDE .0487 RRA -.8771 RC3 .1332 FAU .02158
FDE 1.7897 FRA 4.1307 FC3 -.6540 BSP 21515
BDE 2.0273 BRA 5.5080 BC3 1.8449 FSP -1540

MID-COURSE EXECUTION ACCURACY
SGT 6636.3 SGR 972.2 SG3 428.8
RRT -.9120 RRF -.9001 RTF .9861
SGB 6707.1 R23 -.0058 R13 -.9860
SG1 6695.5 SG2 395.2 THA 172.36

ORBIT DETERMINATION ACCURACY
ST 2813.3 SR 292.8 SS 1340.3
CRT -.4873 CRS .4226 CST -.9973
LSA 3118.1 MSA 272.0 SSA 13.2
EL1 2816.9 EL2 255.4 ALF 177.07

LAUNCH DATE SEP 18 1965 FLIGHT TIME 218.00 ARRIVAL DATE APR 24 1966

HELIOCENTRIC CONIC DISTANCE 600.086

RL 150.31 LAL .00 LOL 354.87 VL 27.109 GAL 9.05 AZL 89.37 HCA 272.13 SMA 128.73 ECC .22833 INC .6273 VI 29.644
RP 108.74 LAP -.63 LOP 267.00 VP 37.551 GAP 9.75 AZP 89.98 TAL 145.53 TAP 57.66 RCA 99.34 APO 158.12 V2 34.851
RC 122.731 GL 3.03 GP 18.34 ZAL 31.34 ZAP 154.06 ETS 39.88 ZAE 117.28 ETE 170.46 ZAC 19.90 ETC 185.84 CLP-161.33

PLANETOCENTRIC CONIC

C3 30.759 VHL 5.546 DLA -10.77 RAL 324.97 RAD 6568.2 VEL 12.334 PTH 2.22 VHP 6.891 DPA -5.87 RAP 285.99 ECC 1.5062

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 36 11	1979.28	-13.25	27.10	191.57	115.25	11 9 11	1379.3	-9.74	20.19
90.00	19 49 17	5304.93	27.31	240.70	197.71	82.22	21 17 42	4704.9	25.95	232.30
100.00	11 52 9	1734.21	-14.46	8.48	190.96	116.45	12 21 3	1134.2	-10.80	1.61
100.00	21 16 1	5025.23	28.64	219.91	197.49	81.06	22 39 46	4425.2	27.11	211.44
110.00	12 48 12	1558.71	-17.66	353.39	189.19	119.76	13 14 10	958.7	-13.56	346.67
110.00	22 36 27	4773.49	32.20	200.03	196.72	77.86	23 56 1	4173.5	30.19	191.39

DIFFERENTIAL CORRECTIONS
TDE 2.1826 TRA 5.7230 TC3-1.7148 BAU .7067
RDE .0715 RRA -.8522 RC3 .1116 FAU .01856
FDE 1.7580 FRA 4.0234 FC3 -.5224 BSP 21787
BDE 2.1837 BRA 5.7861 BC3 1.7185 FSP -1442

MID-COURSE EXECUTION ACCURACY
SGT 6702.5 SGR 907.7 SG3 401.0
RRT -.8979 RRF -.8854 RTF .9858
SGB 6763.7 R23 -.0065 R13 -.9857
SG1 6752.0 SG2 396.7 THA 173.04

ORBIT DETERMINATION ACCURACY
ST 2883.1 SR 278.8 SS 1319.3
CRT -.3962 CRS .3355 CST -.9978
LSA 3177.0 MSA 268.8 SSA 13.1
EL1 2891.3 EL2 255.8 ALF 177.79

LAUNCH DATE SEP 18 1965 FLIGHT TIME 220.00 ARRIVAL DATE APR 26 1966

HELIOCENTRIC CONIC DISTANCE 605.715

RL 150.31 LAL .00 LOL 354.87 VL 27.089 GAL 9.51 AZL 89.19 HCA 275.30 SMA 128.59 ECC .23466 INC .8140 VI 29.644
RP 108.76 LAP -.81 LOP 270.17 VP 37.528 GAP 10.31 AZP 89.92 TAL 144.74 TAP 60.04 RCA 98.42 APO 158.77 V2 34.842
RC 125.075 GL 3.78 GP 17.55 ZAL 30.79 ZAP 155.70 ETS 41.44 ZAE 116.78 ETE 170.97 ZAC 21.29 ETC 182.82 CLP-162.92

PLANETOCENTRIC CONIC

C3 33.231 VHL 5.765 DLA -9.86 RAL 325.33 RAD 6568.3 VEL 12.434 PTH 2.25 VHP 7.201 DPA -6.56 RAP 287.55 ECC 1.5469

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 30 13	2028.65	-14.67	30.04	193.21	114.50	11 4 2	1428.7	-11.24	23.04
90.00	19 58 5	5294.47	27.21	239.95	199.12	81.85	21 26 20	4694.5	25.80	231.57
100.00	11 46 42	1781.92	-15.89	11.31	192.62	115.66	12 16 24	1181.9	-12.31	4.35
100.00	21 24 18	5016.43	28.55	219.27	198.89	80.74	22 47 54	4416.4	26.97	210.82
110.00	12 43 53	1602.84	-19.13	355.97	190.87	118.89	13 10 36	1002.8	-15.13	349.13
110.00	22 43 36	4768.27	32.13	199.64	198.10	77.64	24 3 4	4168.3	30.09	191.01

DIFFERENTIAL CORRECTIONS
TDE 2.3453 TRA 6.0234 TC3-1.5857 BAU .7057
RDE .0936 RRA -.8301 RC3 .0929 FAU .01569
FDE 1.7277 FRA 3.9253 FC3 -.4087 BSP 22033
BDE 2.3471 BRA 6.0804 BC3 1.5884 FSP -1350

MID-COURSE EXECUTION ACCURACY
SGT 6760.2 SGR 849.3 SG3 375.1
RRT -.8826 RRF -.8696 RTF .9855
SGB 6813.4 R23 -.0069 R13 -.9855
SG1 6801.8 SG2 396.9 THA 173.65

ORBIT DETERMINATION ACCURACY
ST 2959.7 SR 267.9 SS 1299.1
CRT -.3041 CRS .2478 CST -.9982
LSA 3232.5 MSA 265.2 SSA 13.0
EL1 2960.8 EL2 255.1 ALF 178.41

LAUNCH DATE SEP 19 1965 FLIGHT TIME 70.00 ARRIVAL DATE NOV 28 1965

HELIOCENTRIC CONIC DISTANCE 127.667

RL	150.27	LAL	.00	LOL	355.85	VL	15.192	GAL	28.31	AZL	94.33	HCA	34.49	SMA	86.43	ECC	.80489	INC	4.3258	V1	29.652
RP	108.35	LAP	-2.45	LOP	30.26	VP	30.237	GAP	-52.16	AZP	93.57	TAL	172.21	TAP	206.70	RCA	16.86	APO	155.99	V2	34.977
RC	86.263	GL	-3.20	GP	-3.79	ZAL	64.82	ZAP	35.13	ETS	171.26	ZAE	132.92	ETE	178.71	ZAC	26.97	ETC	38.99	CLP	34.95

PLANETOCENTRIC CONIC

C3 326.083 VHL 18.058 DLA -24.96 RAL 293.32 RAD 6571.8 VEL 21.152 PTH 3.20 VHP 28.910 DPA -24.20 RAP 242.39 ECC 6.3665

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 1 48	1875.79	-10.17	21.07	192.50	116.57	11 33 4	1275.8	-6.52	14.29
90.00	15 3 16	1076.99	14.78	335.65	204.27	114.43	15 21 13	477.0	17.95	328.41
100.00	12 0 29	1686.32	-12.99	5.69	191.04	117.16	12 28 36	1086.3	-9.25	358.90
100.00	16 47 16	741.69	17.66	312.34	205.64	114.52	16 59 38	141.7	20.82	304.97
110.00	12 25 39	1607.39	-19.28	356.24	187.57	118.79	12 52 26	1007.4	-15.29	349.39
110.00	18 38 36	5681.41	24.12	266.98	208.83	114.99	20 13 17	5081.4	27.28	259.24

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TDE	-.4032	TRA	-1.9981	TC3	-.1120	BAU	.4885	SGT	817.9	SGR	461.3	SG3	24.1	ST	246.0	SR	447.0	SS	217.4
RDE	-1.4044	RRA	.3394	RC3	.0035	FAU	.01120	RRT	-.0825	RRF	.0779	RTF	-.6115	CRT	.4504	CRS	.4128	CST	.9954
FDE	.1328	FRA	.7249	FC3	-.0297	BSP	1920	SGB	939.0	R23	-.0042	R13	.6121	LSA	482.0	MSA	274.0	SSA	14.1
BDE	1.4612	BRA	2.0267	BC3	.1120	FSP	-48	SG1	819.2	SG2	459.0	THA	176.11	EL1	464.4	EL2	211.4	ALF	72.29

LAUNCH DATE SEP 19 1965 FLIGHT TIME 72.00 ARRIVAL DATE NOV 30 1965

HELIOCENTRIC CONIC DISTANCE 133.078

RL	150.27	LAL	.00	LOL	355.85	VL	15.987	GAL	27.00	AZL	93.79	HCA	37.67	SMA	87.85	ECC	.77909	INC	3.7865	V1	29.652
RP	108.31	LAP	-2.31	LOP	33.46	VP	30.659	GAP	-49.86	AZP	93.00	TAL	171.36	TAP	209.03	RCA	19.41	APO	156.29	V2	34.990
RC	84.036	GL	-3.12	GP	-3.89	ZAL	63.42	ZAP	33.63	ETS	170.78	ZAE	132.79	ETE	179.01	ZAC	25.82	ETC	41.54	CLP	33.43

PLANETOCENTRIC CONIC

C3 298.931 VHL 17.290 DLA -24.65 RAL 294.82 RAD 6571.7 VEL 20.500 PTH 3.17 VHP 27.866 DPA -24.69 RAP 244.15 ECC 5.9196

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 2 24	1884.33	-10.43	21.56	193.18	116.48	11 33 48	1284.3	-6.79	14.77
90.00	15 14 41	1048.22	15.58	333.92	205.28	113.95	15 32 9	448.2	18.69	326.62
100.00	12 2 6	1691.56	-13.16	5.99	191.77	117.09	12 30 18	1091.6	-9.42	359.19
100.00	16 57 39	716.23	18.37	310.79	206.58	114.00	17 9 35	116.2	21.46	303.35
110.00	12 28 38	1608.34	-19.31	356.29	188.38	118.77	12 55 26	1008.3	-15.32	349.44
110.00	18 47 37	5660.25	24.72	265.63	209.65	114.40	20 21 57	5060.2	27.80	257.81

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TDE	-.4248	TRA	-2.0160	TC3	-.1198	BAU	.4791	SGT	855.5	SGR	467.7	SG3	26.0	ST	261.9	SR	451.2	SS	230.9
RDE	-1.3567	RRA	.3518	RC3	.0033	FAU	.01121	RRT	-.0891	RRF	.0845	RTF	-.6305	CRT	.4638	CRS	.4365	CST	.9961
FDE	.1481	FRA	.7528	FC3	-.0325	BSP	2050	SGB	975.0	R23	-.0048	R13	.6311	LSA	494.8	MSA	283.8	SSA	14.3
BDE	1.4217	BRA	2.0464	BC3	.1199	FSP	-53	SG1	856.9	SG2	465.0	THA	176.05	EL1	472.3	EL2	221.7	ALF	70.46

LAUNCH DATE SEP 19 1965 FLIGHT TIME 74.00 ARRIVAL DATE DEC 2 1965

HELIOCENTRIC CONIC DISTANCE 138.612

RL	150.27	LAL	.00	LOL	355.85	VL	16.735	GAL	25.78	AZL	93.32	HCA	40.85	SMA	89.29	ECC	.75319	INC	3.3193	V1	29.652
RP	108.27	LAP	-2.17	LOP	36.66	VP	31.070	GAP	-47.69	AZP	92.51	TAL	170.51	TAP	211.36	RCA	22.04	APO	156.55	V2	35.003
RC	81.818	GL	-3.02	GP	-3.99	ZAL	62.07	ZAP	32.15	ETS	170.27	ZAE	132.72	ETE	179.34	ZAC	24.72	ETC	44.39	CLP	31.93

PLANETOCENTRIC CONIC

C3 274.181 VHL 16.558 DLA -24.32 RAL 296.27 RAD 6571.6 VEL 19.887 PTH 3.13 VHP 26.858 DPA -25.17 RAP 245.95 ECC 5.5123

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 2 39	1892.72	-10.68	22.04	193.76	116.38	11 34 12	1292.7	-7.05	15.24
90.00	15 25 56	1018.50	16.39	332.11	206.18	113.42	15 42 55	418.5	19.42	324.75
100.00	12 3 21	1696.78	-13.32	6.29	192.41	117.01	12 31 37	1096.8	-9.59	359.49
100.00	17 7 56	689.67	19.10	309.15	207.41	113.44	17 19 25	89.7	22.11	301.65
110.00	12 31 15	1609.41	-19.34	356.35	189.09	118.75	12 58 4	1009.4	-15.35	349.50
110.00	18 56 31	5637.98	25.34	264.20	210.35	113.75	20 30 29	5038.0	28.32	256.29

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TDE	-.4453	TRA	-2.0345	TC3	-.1279	BAU	.4690	SGT	894.4	SGR	473.4	SG3	28.0	ST	278.6	SR	454.7	SS	245.0
RDE	-1.3088	RRA	.3628	RC3	.0029	FAU	.01124	RRT	-.0962	RRF	.0916	RTF	-.6489	CRT	.4752	CRS	.4580	CST	.9967
FDE	.1638	FRA	.7813	FC3	-.0355	BSP	2194	SGB	1012.0	R23	-.0054	R13	.6495	LSA	508.2	MSA	293.1	SSA	14.6
BDE	1.3825	BRA	2.0665	BC3	.1280	FSP	-58	SG1	896.0	SG2	470.4	THA	175.97	EL1	480.1	EL2	232.2	ALF	68.51

LAUNCH DATE SEP 19 1965 FLIGHT TIME 76.00 ARRIVAL DATE DEC 4 1965

HELIOCENTRIC CONIC DISTANCE 144.262

RL	150.27	LAL	.00	LOL	355.85	VL	17.437	GAL	24.64	AZL	92.91	HCA	44.04	SMA	90.76	ECC	.72734	INC	2.9082	V1	29.652
RP	108.22	LAP	-2.02	LOP	39.86	VP	31.469	GAP	-45.62	AZP	92.09	TAL	169.67	TAP	213.71	RCA	24.75	APO	156.77	V2	35.016
RC	79.613	GL	-2.91	GP	-4.10	ZAL	60.77	ZAP	30.70	ETS	169.69	ZAE	132.72	ETE	179.70	ZAC	23.69	ETC	47.56	CLP	30.45

PLANETOCENTRIC CONIC

C3 251.591 VHL 15.862 DLA -23.97 RAL 297.65 RAD 6571.5 VEL 19.311 PTH 3.10 VHP 25.884 DPA -25.64 RAP 247.79 ECC 5.1405

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 2 35	1900.88	-10.93	22.52	194.25	116.29	11 34 16	1300.9	-7.31	15.71
90.00	15 37 1	987.84	17.21	330.24	206.95	112.84	15 53 29	387.8	20.16	322.80
100.00	12 4 14	1701.91	-13.48	6.59	192.95	116.94	12 32 36	1101.9	-9.76	359.78
100.00	17 18 4	662.05	19.84	307.43	208.12	112.83	17 29 6	62.1	22.76	299.85
110.00	12 33 30	1610.14	-19.37	356.40	189.71	118.73	13 0 20	1010.1	-15.38	349.54
110.00	19 5 17	5614.64	25.97	262.68	210.93	113.05	20 38 52	5014.6	28.86	254.69

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TDE	-.4672	TRA	-2.0559	TC3	-.1366	BAU	.4595	SGT	936.3	SGR	478.6	SG3	30.2	ST	296.8	SR	457.5	SS	259.8
RDE	-1.2606	RRA	.3725	RC3	.0025	FAU	.01127	RRT	-.1031	RRF	.0991	RTF	-.6667	CRT	.4866	CRS	.4781	CST	.9971
FDE	.1803	FRA	.8107	FC3	-.0388	BSP	2288	SGB	1051.6	R23	-.0065	R13	.6674	LSA	523.0	MSA	301.9	SSA	14.8
BDE	1.3444	BRA	2.0894	BC3	.1366	FSP	-63	SG1	938.1	SG2	475.2	THA	175.94	EL1	488.2	EL2	243.0	ALF	66.26

LAUNCH DATE SEP 19 1965 FLIGHT TIME 78.00 ARRIVAL DATE DEC 6 1965

HELIOCENTRIC CONIC DISTANCE 150.023

RL	150.27	LAL	.00	LOL	355.85	VL	18.098	GAL	23.56	AZL	92.54	HCA	47.24	SMA	92.24	ECC	.70166	INC	2.5417	V1	29.652
RP	108.18	LAP	-1.87	LOP	43.06	VP	31.855	GAP	-43.66	AZP	91.73	TAL	168.83	TAP	216.07	RCA	27.52	APO	156.96	V2	35.030
RC	77.423	GL	-2.77	GP	-4.21	ZAL	59.51	ZAP	29.27	ETS	169.05	ZAE	132.79	ETE	180.10	ZAC	22.72	ETC	51.08	CLP	29.00

PLANETOCENTRIC CONIC

C3	230.947	VHL	15.197	DLA	-23.60	RAL	298.97	RAD	6571.3	VEL	18.769	PTH	3.06	VHP	24.941	DPA	-26.11	RAP	249.66	ECC	4.8008

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 2 14	1908.78	-11.17	22.98	194.65	116.19	11 34 2	1308.8	-7.56	16.16
90.00	15 47 56	956.29	18.04	328.28	207.60	112.21	16 3 52	356.3	20.89	320.78
100.00	12 4 46	1706.90	-13.63	6.88	193.40	116.86	12 33 13	1106.9	-9.92	.06
100.00	17 28 4	633.40	20.58	305.63	208.71	112.17	17 38 38	33.4	23.41	297.97
110.00	12 35 23	1610.89	-19.39	356.44	190.23	118.72	13 2 14	1010.9	-15.41	349.59
110.00	19 13 56	5590.22	26.61	261.07	211.39	112.29	20 47 7	4990.2	29.39	252.99

DIFFERENTIAL CORRECTIONS

TDE	-.4934	TRA	-2.0831	TC3	-.1464	BAU	.4522
RDE	-1.2123	RRA	.3812	RC3	.0019	FAU	.01129
FDE	.1979	FRA	.8414	FC3	-.0423	BSP	2265
BDE	1.3089	BRA	2.1177	BC3	.1465	FSP	-67

MID-COURSE EXECUTION ACCURACY

SGT	983.5	SGR	483.3	SG3	32.6		
RRT	-.1093	RRF	.1069	RTF	-.6837		
SGB	1095.8	R23	-.0089	R13	.6844		
SG1	985.4	SG2	479.5	THA	175.97		

ORBIT DETERMINATION ACCURACY

ST	317.6	SR	459.5	SS	275.7		
CRT	.4997	CRS	.4970	CST	.9974		
LSA	540.2	MSA	309.9	SSA	15.0		
EL1	497.4	EL2	254.2	ALF	63.54		

LAUNCH DATE SEP 19 1965 FLIGHT TIME 80.00 ARRIVAL DATE DEC 8 1965

HELIOCENTRIC CONIC DISTANCE 155.883

RL	150.27	LAL	.00	LOL	355.85	VL	18.720	GAL	22.54	AZL	92.21	HCA	50.44	SMA	93.73	ECC	.67625	INC	2.2110	V1	29.652
RP	108.14	LAP	-1.70	LOP	46.26	VP	32.227	GAP	-41.79	AZP	91.41	TAL	168.01	TAP	218.45	RCA	30.35	APO	157.12	V2	35.043
RC	75.249	GL	-2.63	GP	-4.34	ZAL	58.29	ZAP	27.87	ETS	168.34	ZAE	132.93	ETE	180.54	ZAC	21.86	ETC	54.97	CLP	27.56

PLANETOCENTRIC CONIC

C3	212.034	VHL	14.561	DLA	-23.22	RAL	300.23	RAD	6571.2	VEL	18.258	PTH	3.03	VHP	24.029	DPA	-26.58	RAP	251.56	ECC	4.4895

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 1 35	1916.31	-11.39	23.41	194.96	116.10	11 33 31	1316.3	-7.79	16.58
90.00	15 58 37	923.87	18.86	326.26	208.12	111.52	16 14 1	323.9	21.62	318.67
100.00	12 4 59	1711.66	-13.78	7.16	193.75	116.79	12 33 30	1111.7	-10.07	.33
100.00	17 37 54	603.75	21.33	303.75	209.16	111.45	17 47 58	3.8	24.06	296.01
110.00	12 36 56	1611.47	-19.41	356.48	190.66	118.71	13 3 47	1011.5	-15.43	349.62
110.00	19 22 26	5564.75	27.26	259.37	211.72	111.47	20 55 11	4964.7	29.92	251.19

DIFFERENTIAL CORRECTIONS

TDE	-.4699	TRA	-2.0617	TC3	-.1475	BAU	.4182
RDE	-1.1648	RRA	.3877	RC3	.0009	FAU	.01160
FDE	.2099	FRA	.8670	FC3	-.0473	BSP	3415
BDE	1.2561	BRA	2.0979	BC3	.1475	FSP	-85

MID-COURSE EXECUTION ACCURACY

SGT	999.0	SGR	487.5	SG3	34.9		
RRT	-.1293	RRF	.1185	RTF	-.7021		
SGB	1111.6	R23	-.0002	R13	.7026		
SG1	1001.6	SG2	482.1	THA	175.30		

ORBIT DETERMINATION ACCURACY

ST	323.2	SR	461.0	SS	288.0		
CRT	.4802	CRS	.5053	CST	.9972		
LSA	546.6	MSA	317.8	SSA	15.0		
EL1	498.2	EL2	262.4	ALF	63.53		

LAUNCH DATE SEP 19 1965 FLIGHT TIME 82.00 ARRIVAL DATE DEC 10 1965

HELIOCENTRIC CONIC DISTANCE 161.846

RL	150.27	LAL	.00	LOL	355.85	VL	19.305	GAL	21.57	AZL	91.91	HCA	53.64	SMA	95.23	ECC	.65125	INC	1.9092	V1	29.652
RP	108.10	LAP	-1.54	LOP	49.47	VP	32.584	GAP	-40.01	AZP	91.13	TAL	167.20	TAP	220.84	RCA	33.21	APO	157.24	V2	35.056
RC	73.094	GL	-2.46	GP	-4.49	ZAL	57.12	ZAP	26.49	ETS	167.54	ZAE	133.15	ETE	181.04	ZAC	21.10	ETC	59.23	CLP	26.14

PLANETOCENTRIC CONIC

C3	194.748	VHL	13.955	DLA	-22.82	RAL	301.43	RAD	6571.1	VEL	17.778	PTH	2.99	VHP	23.146	DPA	-27.03	RAP	253.50	ECC	4.2051

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 0 38	1923.59	-11.61	23.84	195.18	116.01	11 32 42	1323.6	-8.02	17.00
90.00	16 9 9	890.52	19.68	324.16	208.52	110.78	16 23 59	290.5	22.33	316.49
100.00	12 4 52	1716.28	-13.92	7.43	194.01	116.72	12 33 28	1116.3	-10.22	.59
100.00	17 47 36	5861.11	22.08	279.68	209.50	110.67	19 25 17	5261.1	24.70	271.86
110.00	12 38 8	1611.96	-19.43	356.51	190.99	118.70	13 5 0	1012.0	-15.45	349.65
110.00	19 30 49	5538.19	27.91	257.58	211.91	110.59	21 3 7	4938.2	30.45	249.30

DIFFERENTIAL CORRECTIONS

TDE	-.5099	TRA	-2.1051	TC3	-.1606	BAU	.4182
RDE	-1.1163	RRA	.3944	RC3	.0000	FAU	.01156
FDE	.2305	FRA	.9012	FC3	-.0514	BSP	3034
BDE	1.2272	BRA	2.1418	BC3	.1606	FSP	-86

MID-COURSE EXECUTION ACCURACY

SGT	1060.2	SGR	490.8	SG3	37.7		
RRT	-.1323	RRF	.1266	RTF	-.7171		
SGB	1168.3	R23	-.0067	R13	.7178		
SG1	1062.7	SG2	485.4	THA	175.57		

ORBIT DETERMINATION ACCURACY

ST	350.9	SR	461.3	SS	306.4		
CRT	.5011	CRS	.5237	CST	.9975		
LSA	569.7	MSA	324.0	SSA	15.3		
EL1	510.6	EL2	274.4	ALF	59.47		

LAUNCH DATE SEP 19 1965 FLIGHT TIME 84.00 ARRIVAL DATE DEC 12 1965

HELIOCENTRIC CONIC DISTANCE 167.898

RL	150.27	LAL	.00	LOL	355.85	VL	19.854	GAL	20.65	AZL	91.63	HCA	56.84	SMA	96.72	ECC	.62672	INC	1.6311	V1	29.652
RP	108.06	LAP	-1.37	LOP	52.68	VP	32.927	GAP	-38.31	AZP	90.89	TAL	166.41	TAP	223.25	RCA	36.10	APO	157.34	V2	35.069
RC	70.962	GL	-2.27	GP	-4.64	ZAL	56.00	ZAP	25.14	ETS	166.64	ZAE	133.45	ETE	181.58	ZAC	20.47	ETC	63.84	CLP	24.73

PLANETOCENTRIC CONIC

C3	178.898	VHL	13.375	DLA	-22.39	RAL	302.57	RAD	6570.9	VEL	17.327	PTH	2.95	VHP	22.290	DPA	-27.48	RAP	255.47	ECC	3.9442

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 59 25	1930.53	-11.82	24.24	195.30	115.92	11 31 35	1330.5	-8.24	17.39
90.00	16 19 28	856.27	20.49	321.97	208.78	109.98	16 33 44	256.3	23.03	314.22
100.00	12 4 26	1720.66	-14.05	7.69	194.17	116.66	12 33 6	1120.7	-10.36	.84
100.00	17 57 8	5829.41	22.83	277.63	209.69	109.84	19 34 17	5229.4	25.33	269.72
110.00	12 39 0	1612.27	-19.44	356.52	191.23	118.69	13 5 53	1012.3	-15.46	349.67
110.00	19 39 3	5510.57	28.55	255.69	211.97	109.64	21 10 53	4910.6	30.96	247.31

DIFFERENTIAL CORRECTIONS

TDE	-.5261	TRA	-2.1256	TC3	-.1695	BAU	.4054
RDE	-1.0683	RRA	.3997	RC3	-.0012	FAU	.01166
FDE	.2488	FRA	.9337	FC3	-.0564	BSP	3204
BDE	1.1908	BRA	2.1628	BC3	.1695	FSP	-94

MID-COURSE EXECUTION ACCURACY

SGT	1107.4	SGR	493.7	SG3	40.6		
RRT	-.1423	RRF	.1370	RTF	-.7325		
SGB	1212.4	R23	-.0078	R13	.7332		
SG1	1110.1	SG2	487.4	THA	175.50		

ORBIT DETERMINATION ACCURACY

ST	371.8	SR	461.0	SS	323.5		
CRT	.5059	CRS	.5366	CST	.9973		
LSA	588.6	MSA	329.7	SSA	15.5		
EL1	519.3	EL2	284.7	ALF	56.59		

LAUNCH DATE SEP 19 1965 FLIGHT TIME 86.00 ARRIVAL DATE DEC 14 1965

HELIOCENTRIC CONIC DISTANCE 174.036

RL 150.27 LAL .00 LOL 355.85 VL 20.371 GAL 19.77 AZL 91.37 HCA 60.05 SMA 98.21 ECC .60271 INC 1.3724 V1 29.652
RP 108.02 LAP -1.19 LOP 55.89 VP 33.255 GAP -36.68 AZP 90.69 TAL 165.63 TAP 225.68 RCA 39.02 APO 157.40 V2 35.082
RC 68.856 GL -2.05 GP -4.81 ZAL 54.92 ZAP 23.80 ETS 165.61 ZAE 133.83 ETE 182.18 ZAC 20.00 ETC 68.77 CLP 23.34

PLANETOCENTRIC CONIC

C3 164.368 VHL 12.821 DLA -21.95 RAL 303.65 RAD 6570.8 VEL 16.902 PTH 2.91 VHP 21.461 DPA -27.93 RAP 257.47 ECC 3.7051

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 57 53	1937.16	-12.02	24.63	195.34	115.83	11 30 10	1337.2	-8.44	17.77
90.00	16 29 36	821.10	21.29	319.71	208.91	109.12	16 43 17	221.1	23.71	311.87
100.00	12 3 40	1724.85	-14.18	7.93	194.25	116.59	12 32 25	1124.9	-10.50	1.08
100.00	18 6 31	5796.68	23.57	275.48	209.76	108.94	19 43 7	5196.7	25.94	267.48
110.00	12 39 32	1612.43	-19.44	356.53	191.37	118.69	13 6 25	1012.4	-15.46	349.67
110.00	19 47 8	5481.87	29.19	253.70	211.89	108.63	21 18 30	4881.9	31.45	245.22

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.5425 TRA-2.1471 TC3 -.1788 BAU .3929 SGT 1157.3 SGR 495.9 SG3 43.8 ST 394.1 SR 459.8 SS 341.4
RDE-1.0205 RRA .4040 RC3 -.0027 FAU .01178 RRT -.1528 RRF .1482 RTF -.7472 CRT .5102 CRS .5482 CST .9972
FDE .2678 FRA .9674 FC3 -.0621 BSP 3352 SGB 1259.0 R23 -.0093 R13 .7480 LSA 609.3 MSA 334.4 SSA 15.6
BDE 1.1558 BRA 2.1848 BC3 .1788 FSP -102 SG1 1160.3 SG2 488.8 THA 175.44 EL1 529.1 EL2 294.5 ALF 53.44

LAUNCH DATE SEP 19 1965 FLIGHT TIME 88.00 ARRIVAL DATE DEC 16 1965

HELIOCENTRIC CONIC DISTANCE 180.254

RL 150.27 LAL .00 LOL 355.85 VL 20.857 GAL 18.93 AZL 91.13 HCA 63.26 SMA 99.69 ECC .57930 INC 1.1298 V1 29.652
RP 107.98 LAP -1.01 LOP 59.10 VP 33.568 GAP -35.12 AZP 90.51 TAL 164.88 TAP 228.13 RCA 41.94 APO 157.44 V2 35.095
RC 66.778 GL -1.81 GP -4.99 ZAL 53.89 ZAP 22.49 ETS 164.44 ZAE 134.28 ETE 182.85 ZAC 19.69 ETC 73.96 CLP 21.96

PLANETOCENTRIC CONIC

C3 151.043 VHL 12.290 DLA -21.49 RAL 304.67 RAD 6570.6 VEL 16.504 PTH 2.88 VHP 20.657 DPA -28.36 RAP 259.50 ECC 3.4858

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 56 4	1943.54	-12.20	25.00	195.28	115.75	11 28 28	1343.5	-8.64	18.14
90.00	16 39 34	784.96	22.08	317.35	208.90	108.20	16 52 39	185.0	24.36	309.42
100.00	12 2 35	1728.86	-14.30	8.17	194.23	116.53	12 31 24	1128.9	-10.63	1.31
100.00	18 15 44	5762.91	24.30	273.23	209.68	107.97	19 51 47	5162.9	26.53	265.14
110.00	12 39 43	1612.47	-19.44	356.54	191.42	118.68	13 6 36	1012.5	-15.46	349.68
110.00	19 55 5	5452.08	29.82	251.61	211.67	107.54	21 25 57	4852.1	31.93	243.03

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.5583 TRA-2.1686 TC3 -.1882 BAU .3802 SGT 1209.3 SGR 497.6 SG3 47.2 ST 417.4 SR 457.7 SS 360.0
RDE -.9730 RRA .4076 RC3 -.0044 FAU .01192 RRT -.1641 RRF .1604 RTF -.7613 CRT .5135 CRS .5585 CST .9969
FDE .2875 FRA 1.0023 FC3 -.0683 BSP 3500 SGB 1307.6 R23 -.0111 R13 .7621 LSA 631.5 MSA 338.0 SSA 15.8
BDE 1.1218 BRA 2.2066 BC3 .1683 FSP -111 SG1 1212.6 SG2 489.5 THA 175.38 EL1 539.9 EL2 303.6 ALF 50.11

LAUNCH DATE SEP 19 1965 FLIGHT TIME 90.00 ARRIVAL DATE DEC 18 1965

HELIOCENTRIC CONIC DISTANCE 186.545

RL 150.27 LAL .00 LOL 355.85 VL 21.315 GAL 18.12 AZL 90.90 HCA 66.47 SMA 101.15 ECC .55652 INC .9002 V1 29.652
RP 107.94 LAP -.83 LOP 62.31 VP 33.867 GAP -33.62 AZP 90.36 TAL 164.15 TAP 230.61 RCA 44.86 APO 157.44 V2 35.108
RC 64.732 GL -1.55 GP -5.19 ZAL 52.91 ZAP 21.21 ETS 163.09 ZAE 134.83 ETE 183.60 ZAC 19.57 ETC 79.32 CLP 20.59

PLANETOCENTRIC CONIC

C3 138.820 VHL 11.782 DLA -21.01 RAL 305.63 RAD 6570.5 VEL 16.129 PTH 2.84 VHP 19.877 DPA -28.79 RAP 261.55 ECC 3.2846

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 53 56	1949.70	-12.39	25.36	195.14	115.67	11 26 26	1349.7	-8.83	18.49
90.00	16 49 21	747.84	22.85	314.90	208.74	107.20	17 1 49	147.8	24.99	306.88
100.00	12 1 10	1732.74	-14.42	8.40	194.11	116.47	12 30 3	1132.7	-10.75	1.53
100.00	18 24 48	5728.07	25.01	270.89	209.47	106.93	20 0 16	5128.1	27.09	262.70
110.00	12 39 34	1612.41	-19.44	356.53	191.37	118.69	13 6 26	1012.4	-15.46	349.67
110.00	20 2 54	5421.17	30.44	249.41	211.30	106.37	21 33 15	4821.2	32.38	240.73

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.5706 TRA-2.1872 TC3 -.1969 BAU .3657 SGT 1261.1 SGR 498.7 SG3 50.9 ST 440.5 SR 454.8 SS 379.0
RDE -.9259 RRA .4103 RC3 -.0066 FAU .01209 RRT -.1771 RRF .1738 RTF -.7749 CRT .5143 CRS .5671 CST .9965
FDE .3075 FRA 1.0381 FC3 -.0754 BSP 3714 SGB 1356.1 R23 -.0124 R13 .7757 LSA 654.3 MSA 340.8 SSA 15.9
BDE 1.0876 BRA 2.2254 BC3 .1970 FSP -122 SG1 1264.8 SG2 489.4 THA 175.29 EL1 551.1 EL2 311.8 ALF 46.78

LAUNCH DATE SEP 19 1965 FLIGHT TIME 92.00 ARRIVAL DATE DEC 20 1965

HELIOCENTRIC CONIC DISTANCE 192.905

RL 150.27 LAL .00 LOL 355.85 VL 21.744 GAL 17.35 AZL 90.68 HCA 69.68 SMA 102.60 ECC .53441 INC .6815 V1 29.652
RP 107.90 LAP -.64 LOP 65.53 VP 34.152 GAP -32.18 AZP 90.24 TAL 163.44 TAP 233.12 RCA 47.77 APO 157.43 V2 35.120
RC 62.721 GL -1.25 GP -5.40 ZAL 51.96 ZAP 19.95 ETS 161.52 ZAE 135.46 ETE 184.43 ZAC 19.64 ETC 84.75 CLP 19.23

PLANETOCENTRIC CONIC

C3 127.608 VHL 11.296 DLA -20.50 RAL 306.53 RAD 6570.4 VEL 15.778 PTH 2.80 VHP 19.121 DPA -29.21 RAP 263.63 ECC 3.1001

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 51 30	1955.71	-12.56	25.72	194.90	115.59	11 24 5	1355.7	-9.02	18.83
90.00	16 58 58	709.71	23.59	312.35	208.45	106.13	17 10 48	109.7	25.58	304.24
100.00	11 59 24	1736.55	-14.53	8.62	193.91	116.41	12 28 21	1136.5	-10.87	1.74
100.00	18 33 44	5692.15	25.70	268.44	209.11	105.82	20 8 37	5092.1	27.62	260.17
110.00	12 39 3	1612.32	-19.44	356.53	191.24	118.69	13 5 55	1012.3	-15.46	349.67
110.00	20 10 35	5389.15	31.03	247.10	210.79	105.12	21 40 25	4789.1	32.79	238.32

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.5817 TRA-2.2051 TC3 -.2054 BAU .3508 SGT 1314.6 SGR 499.2 SG3 54.8 ST 464.3 SR 451.0 SS 398.8
RDE -.8793 RRA .4124 RC3 -.0091 FAU .01229 RRT -.1912 RRF .1885 RTF -.7879 CRT .5138 CRS .5746 CST .9960
FDE .3283 FRA 1.0755 FC3 -.0834 BSP 3941 SGB 1406.2 R23 -.0139 R13 .7887 LSA 678.5 MSA 342.7 SSA 16.1
BDE 1.0543 BRA 2.2433 BC3 .2056 FSP -133 SG1 1318.6 SG2 488.5 THA 175.18 EL1 563.2 EL2 318.9 ALF 43.38

LAUNCH DATE SEP 19 1965 FLIGHT TIME 94.00 ARRIVAL DATE DEC 22 1965

HELIOCENTRIC CONIC DISTANCE 199.329

RL 150.27 LAL .00 LOL 355.85 VL 22.148 GAL 16.60 AZL 90.47 HCA 72.90 SMA 104.02 ECC .51300 INC .4715 V1 29.652
RP 107.87 LAP -.45 LOP 68.75 VP 34.422 GAP -30.80 AZP 90.14 TAL 162.75 TAP 235.65 RCA 50.66 APO 157.39 V2 35.132
RC 60.751 GL -.92 GP -5.64 ZAL 51.07 ZAP 18.72 ETS 159.70 ZAE 136.18 ETE 185.36 ZAC 19.90 ETC 90.12 CLP 17.88

PLANETOCENTRIC CONIC

C3 117.324 VHL 10.832 DLA -19.97 RAL 307.37 RAD 6570.2 VEL 15.449 PTH 2.76 VHP 18.387 DPA -29.62 RAP 265.73 ECC 2.9309

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 48 42	1961.67	-12.74	26.07	194.58	115.50	11 21 24	1361.7	-9.20	19.17
90.00	17 8 27	670.51	24.31	309.70	208.01	104.99	17 19 37	70.5	26.13	301.51
100.00	11 57 17	1740.35	-14.65	8.84	193.62	116.35	12 26 18	1140.4	-10.99	1.96
100.00	18 42 33	5655.10	26.36	265.89	208.61	104.63	20 16 48	5055.1	28.11	257.52
110.00	12 38 10	1612.25	-19.44	356.52	191.01	118.69	13 5 2	1012.3	-15.46	349.66
110.00	20 18 10	5355.97	31.59	244.68	210.13	103.79	21 47 26	4756.0	33.16	235.81

DIFFERENTIAL CORRECTIONS
TDE -.5950 TRA-2.2254 TC3 -.2147 BAU .3373
RDE -.8330 RRA .4141 RC3 -.0121 FAU .01250
FDE .3505 FRA 1.1148 FC3 -.0922 BSP 4095
BDE 1.0236 BRA 2.2636 BC3 .2151 FSP -145

MID-COURSE EXECUTION ACCURACY
SGT 1372.6 SGR 499.1 SG3 59.1
RRT -.2058 RRF .2044 RTF -.8000
SGB 1460.6 R23 -.0164 R13 .8009
SG1 1377.0 SG2 486.9 THA 175.11

ORBIT DETERMINATION ACCURACY
ST 490.3 SR 446.1 SS 419.8
CRT .5139 CRS .5812 CST .9955
LSA 705.3 MSA 343.4 SSA 16.2
EL1 578.0 EL2 324.7 ALF 39.78

LAUNCH DATE SEP 19 1965 FLIGHT TIME 96.00 ARRIVAL DATE DEC 24 1965

HELIOCENTRIC CONIC DISTANCE 205.811

RL 150.27 LAL .00 LOL 355.85 VL 22.527 GAL 15.89 AZL 90.27 HCA 76.12 SMA 105.42 ECC .49232 INC .2683 V1 29.652
RP 107.83 LAP -.26 LOP 71.97 VP 34.679 GAP -29.47 AZP 90.06 TAL 162.10 TAP 238.22 RCA 53.52 APO 157.33 V2 35.144
RC 58.824 GL -.56 GP -5.90 ZAL 50.22 ZAP 17.53 ETS 157.57 ZAE 136.99 ETE 186.41 ZAC 20.36 ETC 95.33 CLP 16.54

PLANETOCENTRIC CONIC

C3 107.894 VHL 10.387 DLA -19.41 RAL 308.15 RAD 6570.1 VEL 15.140 PTH 2.72 VHP 17.676 DPA -30.03 RAP 267.86 ECC 2.7757

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 45 34	1967.67	-12.91	26.42	194.17	115.42	11 18 21	1367.7	-9.39	19.52
90.00	17 17 47	630.22	24.99	306.95	207.43	103.77	17 28 18	30.2	26.64	298.67
100.00	11 54 48	1744.25	-14.77	9.07	193.24	116.29	12 23 52	1144.3	-11.12	2.18
100.00	18 51 14	5616.91	26.99	263.22	207.97	103.36	20 24 51	5016.9	28.56	254.77
110.00	12 36 55	1612.29	-19.44	356.53	190.70	118.69	13 3 47	1012.3	-15.46	349.67
110.00	20 25 37	5321.64	32.12	242.14	209.32	102.37	21 54 19	4721.6	33.49	233.18

DIFFERENTIAL CORRECTIONS
TDE -.6049 TRA-2.2424 TC3 -.2229 BAU .3223
RDE -.7872 RRA .4154 RC3 -.0156 FAU .01275
FDE .3732 FRA 1.1556 FC3 -.1023 BSP 4317
BDE .9928 BRA 2.2806 BC3 .2235 FSP -158

MID-COURSE EXECUTION ACCURACY
SGT 1430.3 SGR 498.6 SG3 63.7
RRT -.2225 RRF .2221 RTF -.8118
SGB 1514.7 R23 -.0186 R13 .8127
SG1 1435.1 SG2 484.5 THA 174.99

ORBIT DETERMINATION ACCURACY
ST 516.1 SR 440.3 SS 441.4
CRT .5115 CRS .5863 CST .9948
LSA 732.7 MSA 343.3 SSA 16.3
EL1 593.2 EL2 329.2 ALF 36.34

LAUNCH DATE SEP 19 1965 FLIGHT TIME 98.00 ARRIVAL DATE DEC 26 1965

HELIOCENTRIC CONIC DISTANCE 212.345

RL 150.27 LAL .00 LOL 355.85 VL 22.883 GAL 15.21 AZL 90.07 HCA 79.34 SMA 106.80 ECC .47238 INC .0696 V1 29.652
RP 107.80 LAP -.07 LOP 75.19 VP 34.923 GAP -28.18 AZP 90.01 TAL 161.47 TAP 240.81 RCA 56.35 APO 157.24 V2 35.155
RC 56.947 GL -.16 GP -6.18 ZAL 49.42 ZAP 16.38 ETS 155.05 ZAE 137.90 ETE 187.60 ZAC 21.00 ETC 100.28 CLP 15.19

PLANETOCENTRIC CONIC

C3 99.248 VHL 9.962 DLA -18.82 RAL 308.86 RAD 6569.9 VEL 14.852 PTH 2.68 VHP 16.987 DPA -30.44 RAP 270.00 ECC 2.6334

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 42 3	1973.84	-13.09	26.78	193.67	115.33	11 14 57	1373.8	-9.58	19.87
90.00	17 27 1	5876.82	25.63	281.99	206.70	102.47	19 4 58	5276.8	27.09	273.63
100.00	11 51 55	1748.36	-14.89	9.31	192.78	116.22	12 21 4	1148.4	-11.25	2.42
100.00	18 59 50	5577.54	27.58	260.44	207.18	102.01	20 32 47	4977.5	28.96	251.91
110.00	12 35 16	1612.55	-19.45	356.54	190.30	118.68	13 2 8	1012.5	-15.47	349.68
110.00	20 32 58	5286.12	32.61	239.49	208.35	100.87	22 1 4	4686.1	33.76	230.44

DIFFERENTIAL CORRECTIONS
TDE -.6133 TRA-2.2582 TC3 -.2304 BAU .3069
RDE -.7420 RRA .4163 RC3 -.0198 FAU .01303
FDE .3969 FRA 1.1983 FC3 -.1137 BSP 4554
BDE .9627 BRA 2.2963 BC3 .2313 FSP -172

MID-COURSE EXECUTION ACCURACY
SGT 1489.3 SGR 497.7 SG3 68.8
RRT -.2409 RRF .2416 RTF -.8230
SGB 1570.2 R23 -.0209 R13 .8239
SG1 1494.6 SG2 481.3 THA 174.86

ORBIT DETERMINATION ACCURACY
ST 542.3 SR 433.5 SS 463.8
CRT .5076 CRS .5901 CST .9940
LSA 761.3 MSA 342.3 SSA 16.4
EL1 609.5 EL2 332.2 ALF 33.01

LAUNCH DATE SEP 19 1965 FLIGHT TIME 100.00 ARRIVAL DATE DEC 28 1965

HELIOCENTRIC CONIC DISTANCE 218.928

RL 150.27 LAL .00 LOL 355.85 VL 23.218 GAL 14.55 AZL 89.88 HCA 82.57 SMA 108.14 ECC .45318 INC .1209 V1 29.652
RP 107.76 LAP .12 LOP 78.41 VP 35.154 GAP -26.95 AZP 89.98 TAL 160.88 TAP 243.44 RCA 59.13 APO 157.14 V2 35.166
RC 55.125 GL .29 GP -6.49 ZAL 48.66 ZAP 15.27 ETS 152.07 ZAE 138.90 ETE 188.95 ZAC 21.81 ETC 104.91 CLP 13.85

PLANETOCENTRIC CONIC

C3 91.327 VHL 9.557 DLA -18.20 RAL 309.51 RAD 6569.8 VEL 14.583 PTH 2.64 VHP 16.318 DPA -30.84 RAP 272.16 ECC 2.5030

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 38 7	1980.31	-13.28	27.17	193.10	115.24	11 11 8	1380.3	-9.77	20.24
90.00	17 36 9	5834.21	26.22	279.01	205.84	101.09	19 13 23	5234.2	27.49	270.57
100.00	11 48 38	1752.80	-15.02	9.58	192.24	116.15	12 17 51	1152.8	-11.39	2.67
100.00	19 8 20	5536.95	28.12	257.55	206.24	100.58	20 40 37	4936.9	29.29	248.94
110.00	12 33 12	1613.13	-19.46	356.58	189.83	118.67	13 0 6	1013.1	-15.49	349.71
110.00	20 40 14	5249.38	33.05	236.71	207.25	99.28	22 7 44	4649.4	33.98	227.60

DIFFERENTIAL CORRECTIONS
TDE -.6215 TRA-2.2735 TC3 -.2375 BAU .2916
RDE -.6974 RRA .4172 RC3 -.0245 FAU .01334
FDE .4220 FRA 1.2434 FC3 -.1265 BSP 4784
BDE .9341 BRA 2.3115 BC3 .2388 FSP -188

MID-COURSE EXECUTION ACCURACY
SGT 1550.4 SGR 496.3 SG3 74.2
RRT -.2609 RRF .2631 RTF -.8336
SGB 1627.9 R23 -.0236 R13 .8346
SG1 1556.4 SG2 477.3 THA 174.73

ORBIT DETERMINATION ACCURACY
ST 569.5 SR 425.5 SS 487.3
CRT .5026 CRS .5927 CST .9932
LSA 791.6 MSA 340.4 SSA 16.5
EL1 627.7 EL2 333.7 ALF 29.77

LAUNCH DATE SEP 19 1965 FLIGHT TIME 102.00 ARRIVAL DATE DEC 30 1965

HELIOCENTRIC CONIC DISTANCE 225.554

RL 150.27 LAL .00 LOL 355.85 VL 23.532 GAL 13.93 AZL 89.69 HCA 85.79 SMA 109.45 ECC .43474 INC .3124 V1 29.652
RP 107.73 LAP .31 LOP 81.64 VP 35.373 GAP -25.75 AZP 89.98 TAL 160.31 TAP 246.11 RCA 61.86 APO 157.03 V2 35.176
RC 53.365 GL .78 GP -6.84 ZAL 47.95 ZAP 14.24 ETS 148.53 ZAE 140.00 ETE 190.48 ZAC 22.79 ETC 109.16 CLP 12.52

PLANETOCENTRIC CONIC

C3 84.075 VHL 9.169 DLA -17.54 RAL 310.10 RAD 6569.6 VEL 14.333 PTH 2.61 VHP 15.671 DPA -31.25 RAP 274.34 ECC 2.3837

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 33 47	1987.24	-13.48	27.58	192.45	115.14	11 6 54	1387.2	-9.99	20.64
90.00	17 45 12	5790.36	26.76	275.91	204.82	99.63	19 21 42	5190.4	27.82	267.40
100.00	11 44 54	1757.73	-15.17	9.87	191.61	116.07	12 14 12	1157.7	-11.55	2.96
100.00	19 16 46	5495.10	28.61	254.53	205.17	99.06	20 48 21	4895.1	29.56	245.86
110.00	12 30 43	1614.19	-19.50	356.64	189.27	118.65	12 57 37	1014.2	-15.52	349.77
110.00	20 47 26	5211.41	33.43	233.81	205.99	97.61	22 14 17	4611.4	34.12	224.64

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.6312 TRA-2.2903 TC3 -.2451 BAU .2775 SGT 1615.7 SGR 494.7 SG3 80.2 ST 598.8 SR 416.3 SS 512.3
RDE -.6532 RRA .4183 RC3 -.0300 FAU .01367 RRT -.2824 RRF .2868 RTF -.8434 CRT .4973 CRS .5941 CST .9924
FDE .4489 FRA 1.2912 FC3 -.1408 BSP 4958 SGB 1689.7 R23 -.0275 R13 .8445 LSA 824.8 MSA 337.4 SSA 16.7
BDE .9083 BRA 2.3282 BC3 .2469 FSP -205 SG1 1622.3 SG2 472.7 THA 174.60 EL1 648.6 EL2 333.5 ALF 26.62

LAUNCH DATE SEP 19 1965 FLIGHT TIME 104.00 ARRIVAL DATE JAN 1 1966

HELIOCENTRIC CONIC DISTANCE 232.218

RL 150.27 LAL .00 LOL 355.85 VL 23.826 GAL 13.32 AZL 89.50 HCA 89.02 SMA 110.72 ECC .41706 INC .5019 V1 29.652
RP 107.70 LAP .50 LOP 84.87 VP 35.579 GAP -24.60 AZP 89.99 TAL 159.78 TAP 248.80 RCA 64.54 APO 156.89 V2 35.186
RC 51.675 GL 1.32 GP -7.22 ZAL 47.30 ZAP 13.28 ETS 144.32 ZAE 141.20 ETE 192.23 ZAC 23.91 ETC 113.03 CLP 11.17

PLANETOCENTRIC CONIC

C3 77.438 VHL 8.800 DLA -16.85 RAL 310.63 RAD 6569.5 VEL 14.099 PTH 2.57 VHP 15.043 DPA -31.66 RAP 276.54 ECC 2.2744

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 28 58	1994.82	-13.70	28.02	191.73	115.03	11 2 13	1394.8	-10.22	21.08
90.00	17 54 12	5745.22	27.23	272.69	203.67	98.08	19 29 57	5145.2	28.07	264.12
100.00	11 40 43	1763.32	-15.34	10.20	190.92	115.97	12 10 6	1163.3	-11.72	3.28
100.00	19 25 9	5451.96	29.03	251.40	203.95	97.46	20 56 1	4852.0	29.76	242.67
110.00	12 27 47	1615.87	-19.55	356.74	188.64	118.61	12 54 43	1015.9	-15.58	349.87
110.00	20 54 34	5172.17	33.74	230.79	204.60	95.85	22 20 46	4572.2	34.18	221.58

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.6377 TRA-2.3036 TC3 -.2505 BAU .2621 SGT 1680.1 SGR 493.0 SG3 86.6 ST 627.4 SR 406.0 SS 538.2
RDE -.6096 RRA .4195 RC3 -.0364 FAU .01405 RRT -.3069 RRF .3132 RTF -.8530 CRT .4890 CRS .5936 CST .9914
FDE .4770 FRA 1.3414 FC3 -.1571 BSP 5197 SGB 1750.9 R23 -.0310 R13 .8542 LSA 858.2 MSA 333.7 SSA 16.8
BDE .8821 BRA 2.3415 BC3 .2532 FSP -223 SG1 1687.4 SG2 467.2 THA 174.43 EL1 669.6 EL2 331.8 ALF 23.72

LAUNCH DATE SEP 19 1965 FLIGHT TIME 106.00 ARRIVAL DATE JAN 3 1966

HELIOCENTRIC CONIC DISTANCE 238.916

RL 150.27 LAL .00 LOL 355.85 VL 24.102 GAL 12.74 AZL 89.31 HCA 92.25 SMA 111.95 ECC .40014 INC .6910 V1 29.652
RP 107.67 LAP .69 LOP 88.10 VP 35.773 GAP -23.49 AZP 90.03 TAL 159.29 TAP 251.54 RCA 67.16 APO 156.75 V2 35.196
RC 50.062 GL 1.92 GP -7.63 ZAL 46.70 ZAP 12.42 ETS 139.33 ZAE 142.47 ETE 194.26 ZAC 25.16 ETC 116.51 CLP 9.83

PLANETOCENTRIC CONIC

C3 71.372 VHL 8.448 DLA -16.11 RAL 311.09 RAD 6569.4 VEL 13.883 PTH 2.53 VHP 14.435 DPA -32.09 RAP 278.74 ECC 2.1746

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 23 40	2003.26	-13.94	28.53	190.93	114.90	10 57 3	1403.3	-10.47	21.57
90.00	18 3 11	5698.75	27.63	269.35	202.39	96.45	19 38 9	5098.7	28.24	260.74
100.00	11 36 2	1769.77	-15.53	10.58	190.15	115.87	12 5 31	1169.8	-11.93	3.65
100.00	19 33 30	5407.47	29.38	248.14	202.60	95.78	21 3 38	4807.5	29.87	239.37
110.00	12 24 21	1618.37	-19.64	356.89	187.94	118.56	12 51 20	1018.4	-15.67	350.01
110.00	21 1 40	5131.63	33.98	227.65	203.06	94.00	22 27 11	4531.6	34.16	218.41

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.6436 TRA-2.3159 TC3 -.2551 BAU .2469 SGT 1746.1 SGR 491.3 SG3 93.7 ST 656.7 SR 394.4 SS 565.4
RDE -.5665 RRA .4211 RC3 -.0437 FAU .01447 RRT -.3338 RRF .3426 RTF -.8620 CRT .4787 CRS .5913 CST .9903
FDE .5069 FRA 1.3947 FC3 -.1755 BSP 5434 SGB 1813.9 R23 -.0352 R13 .8632 LSA 893.2 MSA 329.2 SSA 16.9
BDE .8574 BRA 2.3539 BC3 .2588 FSP -244 SG1 1754.4 SG2 461.0 THA 174.23 EL1 692.0 EL2 328.6 ALF 20.99

LAUNCH DATE SEP 19 1965 FLIGHT TIME 108.00 ARRIVAL DATE JAN 5 1966

HELIOCENTRIC CONIC DISTANCE 245.644

RL 150.27 LAL .00 LOL 355.85 VL 24.360 GAL 12.19 AZL 89.12 HCA 95.48 SMA 113.15 ECC .38396 INC .8810 V1 29.652
RP 107.64 LAP .88 LOP 91.33 VP 35.957 GAP -22.42 AZP 90.08 TAL 158.83 TAP 254.31 RCA 69.70 APO 156.59 V2 35.204
RC 48.537 GL 2.59 GP -8.10 ZAL 46.15 ZAP 11.70 ETS 133.47 ZAE 143.83 ETE 196.60 ZAC 26.52 ETC 119.61 CLP 8.48

PLANETOCENTRIC CONIC

C3 65.834 VHL 8.114 DLA -15.32 RAL 311.48 RAD 6569.3 VEL 13.682 PTH 2.50 VHP 13.847 DPA -32.52 RAP 280.96 ECC 2.0835

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 17 50	2012.78	-14.22	29.09	190.08	114.75	10 51 23	1412.8	-10.76	22.12
90.00	18 12 9	5650.87	27.95	265.88	200.97	94.74	19 46 20	5050.9	28.31	257.23
100.00	11 30 49	1777.31	-15.75	11.03	189.33	115.74	12 0 26	1177.3	-12.16	4.08
100.00	19 41 52	5361.57	29.65	244.75	201.12	94.02	21 11 13	4761.6	29.89	235.95
110.00	12 20 26	1621.90	-19.75	357.10	187.18	118.48	12 47 27	1021.9	-15.79	350.21
110.00	21 8 44	5089.74	34.13	224.39	201.40	92.08	22 33 34	4489.7	34.04	215.14

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.6487 TRA-2.3269 TC3 -.2580 BAU .2317 SGT 1813.2 SGR 490.0 SG3 101.3 ST 686.5 SR 381.4 SS 594.1
RDE -.5238 RRA .4234 RC3 -.0521 FAU .01493 RRT -.3639 RRF .3751 RTF -.8706 CRT .4657 CRS .5867 CST .9891
FDE .5390 FRA 1.4512 FC3 -.1963 BSP 5681 SGB 1878.2 R23 -.0398 R13 .8719 LSA 929.8 MSA 323.9 SSA 16.9
BDE .8338 BRA 2.3652 BC3 .2632 FSP -266 SG1 1822.5 SG2 454.0 THA 174.01 EL1 715.4 EL2 323.9 ALF 18.41

LAUNCH DATE SEP 19 1965 FLIGHT TIME 110.00 ARRIVAL DATE JAN 7 1966

DISTANCE 252.397

HELIOCENTRIC CONIC

RL 150.27 LAL .00 LOL 355.85 VL 24.602 GAL 11.66 AZL 88.93 HCA 98.72 SMA 114.30 ECC .36853 INC 1.0732 V1 29.652
RP 107.62 LAP 1.06 LOP 94.57 VP 36.129 GAP -21.38 AZP 90.16 TAL 158.40 TAP 257.12 RCA 72.18 APO 156.43 V2 35.213
RC 47.108 GL 3.32 GP -8.61 ZAL 45.66 ZAP 11.16 ETS 126.73 ZAE 145.24 ETE 199.31 ZAC 27.99 ETC 122.36 CLP 7.12

PLANETOCENTRIC CONIC

C3 60.784 VHL 7.796 DLA -14.47 RAL 311.81 RAD 6569.1 VEL 13.496 PTH 2.47 VHP 13.278 DPA -32.98 RAP 283.19 ECC 2.0004

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 11 26	2023.64	-14.52	29.74	189.16	114.58	10 45 9	1423.6	-11.09	22.75
90.00	18 21 10	5601.50	28.18	262.29	199.43	92.95	19 54 31	5001.5	28.29	253.62
100.00	11 25 1	1786.17	-16.02	11.56	188.44	115.58	11 54 48	1186.2	-12.44	4.59
100.00	19 50 15	5314.20	29.82	241.24	199.51	92.18	21 18 49	4714.2	29.80	232.44
110.00	12 15 57	1626.67	-19.91	357.38	186.36	118.38	12 43 3	1026.7	-15.96	350.48
110.00	21 15 49	5046.47	34.18	221.01	199.62	90.08	22 39 56	4446.5	33.82	211.78

DIFFERENTIAL CORRECTIONS

TDE -.6535 TRA-2.3369 TC3 -.2595 BAU .2167
RDE -.4815 RRA .4266 RC3 -.0617 FAU .01543
FDE .5736 FRA 1.5114 FC3 -.2198 BSP 5927
BDE .8117 BRA 2.3755 BC3 .2667 FSP -291

MID-COURSE EXECUTION ACCURACY

SGT 1881.5 SGR 489.2 SG3 109.7
RRT -.3970 RRF .4111 RTF -.8787
SGB 1944.1 R23 -.0452 R13 .8801
SG1 1892.1 SG2 446.5 THA 173.76

ORBIT DETERMINATION ACCURACY

ST 716.9 SR 366.9 SS 624.4
CRT .4497 CRS .5793 CST .9879
LSA 968.1 MSA 317.8 SSA 17.0
EL1 740.1 EL2 317.5 ALF 15.98

LAUNCH DATE SEP 19 1965 FLIGHT TIME 112.00 ARRIVAL DATE JAN 9 1966

DISTANCE 259.171

HELIOCENTRIC CONIC

RL 150.27 LAL .00 LOL 355.85 VL 24.828 GAL 11.15 AZL 88.73 HCA 101.95 SMA 115.41 ECC .35384 INC 1.2687 V1 29.652
RP 107.60 LAP 1.24 LOP 97.80 VP 36.291 GAP -20.37 AZP 90.26 TAL 158.02 TAP 259.97 RCA 74.58 APO 156.25 V2 35.220
RC 45.785 GL 4.13 GP -9.18 ZAL 45.23 ZAP 10.82 ETS 119.19 ZAE 146.68 ETE 202.48 ZAC 29.56 ETC 124.77 CLP 5.75

PLANETOCENTRIC CONIC

C3 56.189 VHL 7.496 DLA -13.56 RAL 312.07 RAD 6569.0 VEL 13.325 PTH 2.44 VHP 12.729 DPA -33.47 RAP 285.43 ECC 1.9247

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 4 24	2036.13	-14.88	30.49	188.20	114.37	10 38 20	1436.1	-11.46	23.47
90.00	18 30 14	5550.58	28.30	258.57	197.77	91.09	20 2 45	4950.6	28.15	249.91
100.00	11 18 37	1796.64	-16.32	12.19	187.51	115.39	11 48 34	1196.6	-12.77	5.20
100.00	19 58 42	5265.30	29.89	237.61	197.79	90.27	21 26 27	4665.3	29.61	228.81
110.00	12 10 53	1632.96	-20.11	357.75	185.49	118.24	12 38 6	1033.0	-16.18	350.84
110.00	21 22 56	5001.74	34.13	217.52	197.72	88.01	22 46 18	4401.7	33.48	208.34

DIFFERENTIAL CORRECTIONS

TDE -.6579 TRA-2.3457 TC3 -.2592 BAU .2022
RDE -.4394 RRA .4311 RC3 -.0727 FAU .01598
FDE .6109 FRA 1.5757 FC3 -.2462 BSP 6178
BDE .7912 BRA 2.3849 BC3 .2692 FSP -318

MID-COURSE EXECUTION ACCURACY

SGT 1950.8 SGR 489.4 SG3 118.8
RRT -.4335 RRF .4509 RTF -.8863
SGB 2011.3 R23 -.0513 R13 .8879
SG1 1962.9 SG2 438.3 THA 173.47

ORBIT DETERMINATION ACCURACY

ST 747.8 SR 350.9 SS 656.5
CRT .4294 CRS .5681 CST .9865
LSA 1008.2 MSA 310.9 SSA 17.1
EL1 765.9 EL2 309.4 ALF 13.67

LAUNCH DATE SEP 19 1965 FLIGHT TIME 114.00 ARRIVAL DATE JAN 11 1966

DISTANCE 265.963

HELIOCENTRIC CONIC

RL 150.27 LAL .00 LOL 355.85 VL 25.040 GAL 10.67 AZL 88.53 HCA 105.19 SMA 116.48 ECC .33987 INC 1.4691 V1 29.652
RP 107.57 LAP 1.42 LOP 101.04 VP 36.443 GAP -19.40 AZP 90.38 TAL 157.67 TAP 262.86 RCA 76.89 APO 156.07 V2 35.227
RC 44.580 GL 5.02 GP -9.82 ZAL 44.86 ZAP 10.74 ETS 111.11 ZAE 148.12 ETE 206.17 ZAC 31.20 ETC 126.88 CLP 4.37

PLANETOCENTRIC CONIC

C3 52.016 VHL 7.212 DLA -12.59 RAL 312.25 RAD 6568.9 VEL 13.167 PTH 2.40 VHP 12.198 DPA -33.99 RAP 287.68 ECC 1.8560

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 56 42	2050.56	-15.28	31.36	187.20	114.13	10 30 52	1450.6	-11.89	24.32
90.00	18 39 25	5498.01	28.31	254.72	196.01	89.16	20 11 3	4898.0	27.89	246.08
100.00	11 11 33	1809.03	-16.68	12.93	186.53	115.17	11 41 42	1209.0	-13.15	5.91
100.00	20 7 15	5214.77	29.85	233.85	195.97	88.29	21 34 10	4614.8	29.29	225.09
110.00	12 5 12	1641.05	-20.37	358.24	184.58	118.06	12 32 33	1041.1	-16.46	351.30
110.00	21 30 6	4955.51	33.96	213.92	195.72	85.89	22 52 42	4355.5	33.02	204.80

DIFFERENTIAL CORRECTIONS

TDE -.6626 TRA-2.3539 TC3 -.2570 BAU .1883
RDE -.3973 RRA .4371 RC3 -.0851 FAU .01657
FDE .6518 FRA 1.6447 FC3 -.2758 BSP 6421
BDE .7726 BRA 2.3941 BC3 .2708 FSP -347

MID-COURSE EXECUTION ACCURACY

SGT 2021.3 SGR 491.2 SG3 128.7
RRT -.4734 RRF .4944 RTF -.8935
SGB 2080.2 R23 -.0583 R13 .8953
SG1 2035.3 SG2 429.7 THA 173.13

ORBIT DETERMINATION ACCURACY

ST 779.5 SR 333.2 SS 690.8
CRT .4036 CRS .5519 CST .9851
LSA 1050.5 MSA 303.3 SSA 17.1
EL1 793.0 EL2 299.7 ALF 11.45

LAUNCH DATE SEP 19 1965 FLIGHT TIME 116.00 ARRIVAL DATE JAN 13 1966

DISTANCE 272.769

HELIOCENTRIC CONIC

RL 150.27 LAL .00 LOL 355.85 VL 25.237 GAL 10.20 AZL 88.32 HCA 108.42 SMA 117.51 ECC .32661 INC 1.6759 V1 29.652
RP 107.55 LAP 1.59 LOP 104.28 VP 36.585 GAP -18.46 AZP 90.53 TAL 157.36 TAP 265.79 RCA 79.13 APO 155.89 V2 35.234
RC 43.503 GL 6.00 GP -10.53 ZAL 44.57 ZAP 10.94 ETS 102.88 ZAE 149.49 ETE 210.48 ZAC 32.93 ETC 128.70 CLP 2.97

PLANETOCENTRIC CONIC

C3 48.236 VHL 6.945 DLA -11.53 RAL 312.36 RAD 6568.8 VEL 13.023 PTH 2.38 VHP 11.687 DPA -34.56 RAP 289.94 ECC 1.7938

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 48 15	2067.30	-15.74	32.37	186.16	113.84	10 22 43	1467.3	-12.39	25.30
90.00	18 48 45	5443.66	28.19	250.75	194.15	87.18	20 19 29	4843.7	27.50	242.15
100.00	11 3 46	1823.68	-17.10	13.81	185.52	114.89	11 34 10	1223.7	-13.61	6.77
100.00	20 15 56	5162.52	29.68	229.98	194.05	86.26	21 41 58	4562.5	28.84	221.27
110.00	11 58 49	1651.27	-20.69	358.85	183.64	117.83	12 26 21	1051.3	-16.81	351.88
110.00	21 37 22	4907.69	33.67	210.21	193.64	83.71	22 59 10	4307.7	32.43	201.20

DIFFERENTIAL CORRECTIONS

TDE -.6670 TRA-2.3606 TC3 -.2524 BAU .1749
RDE -.3551 RRA .4451 RC3 -.0992 FAU .01722
FDE .6964 FRA 1.7184 FC3 -.3090 BSP 6683
BDE .7556 BRA 2.4022 BC3 .2712 FSP -379

MID-COURSE EXECUTION ACCURACY

SGT 2091.9 SGR 495.2 SG3 139.5
RRT -.5167 RRF .5415 RTF -.9003
SGB 2149.7 R23 -.0662 R13 .9023
SG1 2108.1 SG2 420.7 THA 172.73

ORBIT DETERMINATION ACCURACY

ST 811.4 SR 313.8 SS 727.2
CRT .3700 CRS .5286 CST .9836
LSA 1094.6 MSA 295.2 SSA 17.2
EL1 820.9 EL2 288.2 ALF 9.30

LAUNCH DATE SEP 19 1965 FLIGHT TIME 118.00 ARRIVAL DATE JAN 15 1966

HELIOCENTRIC CONIC DISTANCE 279.585

RL	150.27	LAL	.00	LOL	355.85	VL	25.422	GAL	9.76	AZL	88.11	HCA	111.66	SMA	118.49	ECC	.31404	INC	1.8907	V1	29.652
RP	107.54	LAP	1.76	LOP	107.52	VP	36.718	GAP	-17.54	AZP	90.70	TAL	157.09	TAP	268.75	RCA	81.28	APO	155.70	V2	35.239
RC	42.563	GL	7.09	GP	-11.33	ZAL	44.36	ZAP	11.44	ETS	94.95	ZAE	150.75	ETE	215.46	ZAC	34.73	ETC	130.27	CLP	1.56

PLANETOCENTRIC CONIC

C3	44.824	VHL	6.695	DLA	-10.39	RAL	312.40	RAD	6568.7	VEL	12.891	PTH	2.35	VHP	11.195	DPA	-35.18	RAP	292.21	ECC	1.7377

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 39 1	2086.75	-16.28	33.55	185.11	113.50	10 13 48	1486.7	-12.96	26.44
90.00	18 58 17	5387.42	27.93	246.66	192.21	85.14	20 28 5	4787.4	26.96	238.12
100.00	10 55 12	1840.98	-17.60	14.86	184.49	114.56	11 25 53	1241.0	-14.14	7.78
100.00	20 24 48	5108.42	29.37	225.98	192.06	84.18	21 49 56	4508.4	28.26	217.36
110.00	11 51 43	1663.98	-21.10	359.62	182.68	117.54	12 19 27	1064.0	-17.24	352.61
110.00	21 44 46	4858.19	33.24	206.42	191.49	81.50	23 5 44	4258.2	31.71	197.52

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-.6718	TRA	-2.3660	TC3	-.2450	BAU	.1622	SGT	2162.4	SGR	502.4	SG3	151.3	ST	843.8	SR	292.7	SS	766.1
RDE	-.3125	RRA	.4555	RC3	-.1152	FAU	.01791	RRT	-.5630	RRF	.5918	RTF	-.9068	CRT	.3254	CRS	.4950	CST	.9821
FDE	.7454	FRA	1.7974	FC3	-.3460	BSP	6919	SGB	2219.9	R23	-.0751	R13	.9090	LSA	1141.1	MSA	286.5	SSA	17.2
BDE	.7409	BRA	2.4094	BC3	.2707	FSP	-414	SG1	2181.5	SG2	411.6	THA	172.27	EL1	849.8	EL2	274.8	ALF	7.20

LAUNCH DATE SEP 19 1965 FLIGHT TIME 120.00 ARRIVAL DATE JAN 17 1966

HELIOCENTRIC CONIC DISTANCE 286.408

RL	150.27	LAL	.00	LOL	355.85	VL	25.594	GAL	9.34	AZL	87.88	HCA	114.90	SMA	119.42	ECC	.30215	INC	2.1153	V1	29.652
RP	107.52	LAP	1.92	LOP	110.76	VP	36.842	GAP	-16.66	AZP	90.89	TAL	156.86	TAP	271.76	RCA	83.34	APO	155.50	V2	35.244
RC	41.769	GL	8.29	GP	-12.24	ZAL	44.23	ZAP	12.24	ETS	87.69	ZAE	151.80	ETE	221.16	ZAC	36.61	ETC	131.59	CLP	.12

PLANETOCENTRIC CONIC

C3	41.758	VHL	6.462	DLA	-9.16	RAL	312.36	RAD	6568.6	VEL	12.772	PTH	2.32	VHP	10.723	DPA	-35.88	RAP	294.50	ECC	1.6872

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 28 54	2109.34	-16.88	34.93	184.05	113.08	10 4 3	1509.3	-13.62	27.77
90.00	19 8 5	5329.13	27.52	242.44	190.21	83.06	20 36 54	4729.1	26.28	234.00
100.00	10 45 46	1861.36	-18.17	16.10	183.46	114.15	11 16 47	1261.4	-14.76	8.98
100.00	20 33 54	5052.35	28.91	221.88	190.00	82.07	21 58 6	4452.3	27.52	213.35
110.00	11 43 49	1679.58	-21.58	.57	181.71	117.17	12 11 49	1079.6	-17.77	353.51
110.00	21 52 20	4806.90	32.65	202.53	189.29	79.27	23 12 27	4206.9	30.83	193.78

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-.6768	TRA	-2.3707	TC3	-.2349	BAU	.1507	SGT	2232.8	SGR	513.6	SG3	164.2	ST	876.5	SR	269.9	SS	807.9
RDE	-.2689	RRA	.4689	RC3	-.1331	FAU	.01866	RRT	-.6115	RRF	.6443	RTF	-.9129	CRT	.2640	CRS	.4460	CST	.9805
FDE	.8000	FRA	1.8822	FC3	-.3868	BSP	7204	SGB	2291.2	R23	-.0850	R13	.9154	LSA	1190.2	MSA	277.5	SSA	17.1
BDE	.7283	BRA	2.4167	BC3	.2700	FSP	-453	SG1	2255.6	SG2	402.3	THA	171.73	EL1	879.7	EL2	259.4	ALF	5.09

LAUNCH DATE SEP 19 1965 FLIGHT TIME 122.00 ARRIVAL DATE JAN 19 1966

HELIOCENTRIC CONIC DISTANCE 293.235

RL	150.27	LAL	.00	LOL	355.85	VL	25.754	GAL	8.94	AZL	87.65	HCA	118.14	SMA	120.31	ECC	.29093	INC	2.3522	V1	29.652
RP	107.51	LAP	2.07	LOP	114.01	VP	36.957	GAP	-15.80	AZP	91.11	TAL	156.67	TAP	274.80	RCA	85.31	APO	155.31	V2	35.249
RC	41.131	GL	9.62	GP	-13.26	ZAL	44.20	ZAP	13.32	ETS	81.34	ZAE	152.56	ETE	227.54	ZAC	38.56	ETC	132.70	CLP	-1.34

PLANETOCENTRIC CONIC

C3	39.018	VHL	6.246	DLA	-7.81	RAL	312.24	RAD	6568.5	VEL	12.664	PTH	2.30	VHP	10.271	DPA	-36.67	RAP	296.80	ECC	1.6421

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 17 48	2135.60	-17.58	36.54	182.99	112.56	9 53 24	1535.6	-14.37	29.34
90.00	19 18 12	5268.61	26.95	238.10	188.15	80.96	20 46 1	4668.6	25.42	229.77
100.00	10 35 23	1885.32	-18.83	17.58	182.43	113.65	11 6 49	1285.3	-15.47	10.39
100.00	20 43 18	4994.12	28.29	217.66	187.90	79.93	22 6 32	4394.1	26.61	209.26
110.00	11 35 3	1698.53	-22.17	1.73	180.75	116.71	12 3 21	1098.5	-18.40	354.62
110.00	22 0 8	4753.68	31.91	198.55	187.05	77.03	23 19 22	4153.7	29.80	189.98

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-.6811	TRA	-2.3722	TC3	-.2196	BAU	.1397	SGT	2299.8	SGR	530.4	SG3	178.1	ST	908.0	SR	246.0	SS	852.2
RDE	-.2242	RRA	.4858	RC3	-.1534	FAU	.01949	RRT	-.6614	RRF	.6976	RTF	-.9187	CRT	.1774	CRS	.3731	CST	.9788
FDE	.8597	FRA	1.9722	FC3	-.4324	BSP	7504	SGB	2360.2	R23	-.0956	R13	.9216	LSA	1240.5	MSA	268.4	SSA	17.0
BDE	.7171	BRA	2.4214	BC3	.2679	FSP	-496	SG1	2327.2	SG2	393.1	THA	171.07	EL1	909.1	EL2	241.8	ALF	2.96

LAUNCH DATE SEP 19 1965 FLIGHT TIME 124.00 ARRIVAL DATE JAN 21 1966

HELIOCENTRIC CONIC DISTANCE 300.063

RL	150.27	LAL	.00	LOL	355.85	VL	25.902	GAL	8.55	AZL	87.40	HCA	121.38	SMA	121.16	ECC	.28036	INC	2.6039	V1	29.652
RP	107.50	LAP	2.22	LOP	117.25	VP	37.064	GAP	-14.97	AZP	91.36	TAL	156.51	TAP	277.89	RCA	87.19	APO	155.12	V2	35.252
RC	40.657	GL	11.09	GP	-14.41	ZAL	44.28	ZAP	14.68	ETS	75.99	ZAE	152.92	ETE	234.48	ZAC	40.60	ETC	133.60	CLP	-2.83

PLANETOCENTRIC CONIC

C3	36.591	VHL	6.049	DLA	-6.34	RAL	312.03	RAD	6568.4	VEL	12.568	PTH	2.28	VHP	9.840	DPA	-37.57	RAP	299.13	ECC	1.6022

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 5 38	2166.10	-18.36	38.43	181.96	111.94	9 41 44	1566.1	-15.23	31.16
90.00	19 28 43	5205.65	26.20	233.65	186.07	78.85	20 55 29	4605.6	24.40	225.44
100.00	10 23 58	1913.41	-19.59	19.32	181.42	113.04	10 55 51	1313.4	-16.30	12.07
100.00	20 53 5	4933.56	27.50	213.34	185.77	77.79	22 15 18	4333.6	25.54	205.09
110.00	11 25 19	1721.34	-22.86	3.14	179.82	116.14	11 54 0	1121.3	-19.16	355.95
110.00	22 8 13	4698.40	30.99	194.51	184.80	74.80	23 26 32	4098.4	28.60	186.13

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-.6895	TRA	-2.3757	TC3	-.2038	BAU	.1317	SGT	2369.3	SGR	554.3	SG3	193.2	ST	942.3	SR	222.0	SS	900.7
RDE	-.1773	RRA	.5073	RC3	-.1759	FAU	.02031	RRT	-.7100	RRF	.7501	RTF	-.9241	CRT	.0538	CRS	.2622	CST	.9772
FDE	.9276	FRA	2.0693	FC3	-.4806	BSP	7753	SGB	2433.3	R23	-.1081	R13	.9274	LSA	1296.6	MSA	259.0	SSA	16.9
BDE	.7120	BRA	2.4293	BC3	.2693	FSP	-542	SG1	2402.6	SG2	384.9	THA	170.32	EL1	942.4	EL2	221.7	ALF	.77

LAUNCH DATE SEP 19 1965 FLIGHT TIME 126.00 ARRIVAL DATE JAN 23 1966

DISTANCE 306.890

HELIOCENTRIC CONIC

RL 150.27 LAL .00 LOL 355.85 VL 26.041 GAL 8.19 AZL 87.13 HCA 124.62 SMA 121.95 ECC .27041 INC 2.8736 V1 29.652
RP 107.49 LAP 2.36 LOP 120.50 VP 37.164 GAP -14.17 AZP 91.63 TAL 156.39 TAP 281.01 RCA 88.98 APO 154.93 V2 35.255
RC 40.351 GL 12.72 GP -15.73 ZAL 44.48 ZAP 16.31 ETS 71.61 ZAE 152.80 ETE 241.72 ZAC 42.71 ETC 134.30 CLP -4.35

PLANETOCENTRIC CONIC

C3 34.464 VHL 5.871 DLA -4.74 RAL 311.74 RAD 6568.4 VEL 12.483 PTH 2.26 VHP 9.431 DPA -38.59 RAP 301.50 ECC 1.5672

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 52 16	2201.51	-19.25	40.66	180.98	111.18	9 28 58	1601.5	-16.20	33.31
90.00	19 39 45	5139.99	25.25	229.07	183.99	76.74	21 5 25	4540.0	23.18	221.02
100.00	10 11 23	1946.29	-20.45	21.38	180.47	112.29	10 43 49	1346.3	-17.25	14.05
100.00	21 3 19	4870.44	26.51	208.91	183.64	75.66	22 24 29	4270.4	24.28	200.82
110.00	11 14 32	1748.61	-23.67	4.84	178.93	115.42	11 43 40	1148.6	-20.05	357.57
110.00	22 16 40	4640.88	29.89	190.39	182.55	72.59	23 34 1	4040.9	27.22	182.22

DIFFERENTIAL CORRECTIONS

TOE -.7001 TRA-2.3787 TC3 -.1853 BAU .1259
ROE -.1276 RRA .5342 RC3 -.2009 FAU .02116
FOE 1.0040 FRA 2.1728 FC3 -.5315 BSP 7998
BOE .7116 BRA 2.4379 BC3 .2733 FSP -591

MID-COURSE EXECUTION ACCURACY

SGT 2437.4 SGR 587.2 SG3 209.5
RRT -.7561 RRF .7996 RTF -.9292
SGB 2507.1 R23 -.1218 R13 .9330
SG1 2478.5 SG2 377.9 THA 169.43

ORBIT DETERMINATION ACCURACY

ST 977.4 SR 200.5 SS 953.1
CRT -.1252 CRS .0927 CST .9758
LSA 1356.9 MSA 249.9 SSA 16.6
ELI 977.7 EL2 198.8 ALF 178.47

LAUNCH DATE SEP 19 1965 FLIGHT TIME 128.00 ARRIVAL DATE JAN 25 1966

DISTANCE 313.712

HELIOCENTRIC CONIC

RL 150.27 LAL .00 LOL 355.85 VL 26.169 GAL 7.85 AZL 86.83 HCA 127.85 SMA 122.71 ECC .26107 INC 3.1653 V1 29.652
RP 107.48 LAP 2.50 LOP 123.75 VP 37.256 GAP -13.38 AZP 91.94 TAL 156.30 TAP 284.16 RCA 90.67 APO 154.75 V2 35.257
RC 40.219 GL 14.51 GP -17.24 ZAL 44.82 ZAP 18.19 ETS 68.09 ZAE 152.14 ETE 248.94 ZAC 44.93 ETC 134.82 CLP -5.90

PLANETOCENTRIC CONIC

C3 32.631 VHL 5.712 DLA -2.98 RAL 311.35 RAD 6568.3 VEL 12.410 PTH 2.24 VHP 9.046 DPA -39.78 RAP 303.91 ECC 1.5370

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 37 33	2242.60	-20.24	43.26	180.07	110.24	9 14 55	1642.6	-17.30	35.82
90.00	19 51 23	5071.33	24.10	224.38	181.92	74.66	21 15 54	4471.3	21.76	216.48
100.00	9 57 30	1984.69	-21.42	23.82	179.59	111.36	10 30 35	1384.7	-18.33	16.39
100.00	21 14 7	4804.48	25.32	204.37	181.54	73.55	22 34 11	4204.5	22.82	196.46
110.00	11 2 33	1781.03	-24.60	6.90	178.13	114.52	11 32 14	1181.0	-21.08	359.52
110.00	22 25 33	4580.91	28.60	186.20	180.34	70.42	23 41 54	3980.9	25.66	178.25

DIFFERENTIAL CORRECTIONS

TOE -.7132 TRA-2.3810 TC3 -.1637 BAU .1226
ROE -.0739 RRA .5676 RC3 -.2284 FAU .02202
FOE 1.0900 FRA 2.2819 FC3 -.5842 BSP 8252
BOE .7170 BRA 2.4478 BC3 .2610 FSP -644

MID-COURSE EXECUTION ACCURACY

SGT 2503.1 SGR 631.4 SG3 226.8
RRT -.7983 RRF .8444 RTF -.9340
SGB 2581.5 R23 -.1360 R13 .9385
SG1 2554.5 SG2 372.6 THA 168.36

ORBIT DETERMINATION ACCURACY

ST 1013.1 SR 186.6 SS 1009.6
CRT -.3684 CRS -.1523 CST .9745
LSA 1421.9 MSA 241.3 SSA 16.3
ELI 1015.5 EL2 173.0 ALF 176.00

LAUNCH DATE SEP 19 1965 FLIGHT TIME 130.00 ARRIVAL DATE JAN 27 1966

DISTANCE 320.527

HELIOCENTRIC CONIC

RL 150.27 LAL .00 LOL 355.85 VL 26.288 GAL 7.53 AZL 86.52 HCA 131.09 SMA 123.42 ECC .25233 INC 3.4839 V1 29.652
RP 107.48 LAP 2.62 LOP 126.99 VP 37.341 GAP -12.63 AZP 92.29 TAL 156.25 TAP 287.35 RCA 92.28 APO 154.56 V2 35.259
RC 40.263 GL 16.50 GP -18.97 ZAL 45.32 ZAP 20.34 ETS 65.35 ZAE 150.90 ETE 255.80 ZAC 47.27 ETC 135.17 CLP -7.48

PLANETOCENTRIC CONIC

C3 31.093 VHL 5.576 DLA -1.05 RAL 310.87 RAD 6568.2 VEL 12.348 PTH 2.23 VHP 8.687 DPA -41.16 RAP 306.40 ECC 1.5117

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 21 17	2290.31	-21.33	46.34	179.26	109.08	8 59 27	1690.3	-18.53	38.78
90.00	20 3 46	4999.32	22.72	219.55	179.90	72.62	21 27 6	4399.3	20.12	211.84
100.00	9 42 8	2029.49	-22.51	26.70	178.81	110.21	10 15 57	1429.5	-19.55	19.16
100.00	21 25 36	4735.37	23.90	199.72	179.48	71.49	22 44 31	4135.4	21.15	192.00
110.00	10 49 16	1819.37	-25.66	9.37	177.43	113.40	11 19 35	1219.4	-22.27	1.86
110.00	22 34 58	4518.26	27.09	181.95	178.19	68.31	23 50 16	3918.3	23.90	174.23

DIFFERENTIAL CORRECTIONS

TOE -.7303 TRA-2.3838 TC3 -.1407 BAU .1222
ROE -.0147 RRA .6091 RC3 -.2583 FAU .02284
FOE 1.1873 FRA 2.3959 FC3 -.6358 BSP 8488
BOE .7305 BRA 2.4604 BC3 .2941 FSP -699

MID-COURSE EXECUTION ACCURACY

SGT 2567.0 SGR 689.2 SG3 245.2
RRT -.8348 RRF .8830 RTF -.9384
SGB 2657.9 R23 -.1506 R13 .9438
SG1 2632.0 SG2 370.0 THA 167.11

ORBIT DETERMINATION ACCURACY

ST 1050.4 SR 188.6 SS 1070.5
CRT -.6393 CRS -.4479 CST .9734
LSA 1493.4 MSA 233.6 SSA 15.8
ELI 1057.4 EL2 144.1 ALF 173.33

LAUNCH DATE SEP 19 1965 FLIGHT TIME 132.00 ARRIVAL DATE JAN 29 1966

DISTANCE 327.333

HELIOCENTRIC CONIC

RL 150.27 LAL .00 LOL 355.85 VL 26.398 GAL 7.22 AZL 86.16 HCA 134.33 SMA 124.09 ECC .24415 INC 3.8356 V1 29.652
RP 107.48 LAP 2.74 LOP 130.24 VP 37.419 GAP -11.89 AZP 92.68 TAL 156.23 TAP 290.56 RCA 93.79 APO 154.39 V2 35.259
RC 40.482 GL 18.70 GP -20.96 ZAL 45.99 ZAP 22.77 ETS 63.25 ZAE 149.10 ETE 262.00 ZAC 49.74 ETC 135.36 CLP -9.10

PLANETOCENTRIC CONIC

C3 29.855 VHL 5.464 DLA 1.07 RAL 310.27 RAD 6568.2 VEL 12.298 PTH 2.21 VHP 8.357 DPA -42.77 RAP 308.99 ECC 1.4913

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 3 14	2345.74	-22.52	49.97	178.60	107.63	8 42 19	1745.7	-19.90	42.27
90.00	20 17 6	4923.50	21.09	214.59	177.96	70.65	21 39 10	4323.5	18.26	207.06
100.00	9 25 4	2081.76	-23.69	30.13	178.18	108.78	9 59 46	1481.8	-20.91	22.44
100.00	21 37 57	4662.72	22.25	194.96	177.51	69.51	22 55 40	4062.7	19.26	187.44
110.00	10 34 27	1864.58	-26.85	12.35	176.88	112.00	11 5 32	1264.6	-23.62	4.67
110.00	22 45 3	4452.66	25.37	177.63	176.12	66.28	23 59 16	3852.7	21.94	170.15

DIFFERENTIAL CORRECTIONS

TOE -.7491 TRA-2.3834 TC3 -.1114 BAU .1243
ROE .0517 RRA .6599 RC3 -.2907 FAU .02367
FOE 1.2953 FRA 2.5109 FC3 -.6863 BSP 8808
BOE .7509 BRA 2.4731 BC3 .3113 FSP -761

MID-COURSE EXECUTION ACCURACY

SGT 2623.0 SGR 763.5 SG3 264.1
RRT -.8659 RRF .9147 RTF -.9428
SGB 2731.9 R23 -.1635 R13 .9491
SG1 2706.7 SG2 370.1 THA 165.58

ORBIT DETERMINATION ACCURACY

ST 1086.0 SR 214.8 SS 1134.7
CRT -.8500 CRS -.7049 CST .9723
LSA 1568.8 MSA 227.6 SSA 15.0
ELI 1101.4 EL2 111.6 ALF 170.36

LAUNCH DATE SEP 19 1965 FLIGHT TIME 134.00 ARRIVAL DATE JAN 31 1966

HELIOCENTRIC CONIC DISTANCE 334.128

RL 150.27 LAL .00 LOL 355.85 VL 26.499 GAL 6.94 AZL 85.77 HCA 137.57 SMA 124.72 ECC .23654 INC 4.2284 VI 29.652
RP 107.48 LAP 2.85 LOP 133.49 VP 37.490 GAP -11.17 AZP 93.12 TAL 156.24 TAP 293.81 RCA 95.22 APO 154.22 V2 35.259
RC 40.875 GL 21.13 GP -23.26 ZAL 46.88 ZAP 25.50 ETS 61.71 ZAE 146.75 ETE 267.37 ZAC 52.37 ETC 135.40 CLP -10.76

PLANETOCENTRIC CONIC

C3 28.938 VHL 5.379 DLA 3.40 RAL 309.57 RAD 6568.2 VEL 12.260 PTH 2.21 VHP 8.061 DPA -44.66 RAP 311.74 ECC 1.4763

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 43 5	2410.29	-23.79	54.27	178.12	105.83	8 23 15	1810.3	-21.39	46.42
90.00	20 31 37	4843.34	19.20	209.47	176.15	68.77	21 52 20	4243.3	16.14	202.13
100.00	9 6 1	2142.80	-24.97	34.22	177.74	106.99	9 41 43	1542.8	-22.41	26.36
100.00	21 51 22	4586.07	20.34	190.06	175.66	67.61	23 7 48	3986.1	17.13	182.74
110.00	10 17 54	1917.80	-28.15	15.94	176.54	110.24	10 49 52	1317.8	-25.14	8.06
110.00	22 55 58	4383.83	23.41	173.24	174.18	64.35	24 9 2	3783.8	19.76	166.00

DIFFERENTIAL CORRECTIONS
TDE -.7775 TRA-2.3873 TC3 -.0857 BAU .1297
RDE .1289 RRA .7228 RC3 -.3241 FAU .02428
FOE 1.4190 FRA 2.6271 FC3 -.7263 BSP 9053
BDE .7881 BRA 2.4944 BC3 .3352 FSP -820

MID-COURSE EXECUTION ACCURACY
SGT 2680.0 SGR 857.5 SG3 283.3
RRT -.8904 RRF .9396 RTF -.9467
SGB 2813.8 R23 -.1752 R13 .9543
SG1 2788.7 SG2 375.2 THA 163.80

ORBIT DETERMINATION ACCURACY
ST 1126.8 SR 269.2 SS 1204.7
CRT -.9574 CRS -.8639 CST .9718
LSA 1656.4 MSA 222.9 SSA 14.1
EL1 1156.0 EL2 75.8 ALF 167.06

LAUNCH DATE SEP 19 1965 FLIGHT TIME 136.00 ARRIVAL DATE FEB 2 1966

HELIOCENTRIC CONIC DISTANCE 340.909

RL 150.27 LAL .00 LOL 355.85 VL 26.593 GAL 6.67 AZL 85.33 HCA 140.80 SMA 125.30 ECC .22945 INC 4.6730 VI 29.652
RP 107.48 LAP 2.95 LOP 136.74 VP 37.556 GAP -10.48 AZP 93.62 TAL 156.27 TAP 297.08 RCA 96.55 APO 154.05 V2 35.258
RC 41.437 GL 23.83 GP -25.93 ZAL 47.99 ZAP 28.57 ETS 60.63 ZAE 143.88 ETE 271.85 ZAC 55.21 ETC 135.31 CLP -12.45

PLANETOCENTRIC CONIC

C3 28.375 VHL 5.327 DLA 5.96 RAL 308.73 RAD 6568.1 VEL 12.237 PTH 2.20 VHP 7.806 DPA -46.85 RAP 314.70 ECC 1.4670

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 20 25	2485.69	-25.09	59.41	177.90	103.58	8 1 51	1885.7	-22.98	51.38
90.00	20 47 37	4758.12	17.01	204.17	174.50	67.02	22 6 55	4158.1	13.75	197.01
100.00	8 44 35	2214.21	-26.30	39.11	177.56	104.74	9 21 30	1614.2	-24.02	31.05
100.00	22 6 8	4504.83	18.15	185.02	173.98	65.84	23 21 13	3904.8	14.74	177.90
110.00	9 59 18	1980.39	-29.55	20.27	176.48	108.02	10 32 19	1380.4	-26.80	12.16
110.00	23 7 54	4311.42	21.20	168.78	172.41	62.54	24 19 46	3711.4	17.36	161.76

DIFFERENTIAL CORRECTIONS
TDE -.8111 TRA-2.3898 TC3 -.0570 BAU .1376
RDE .2198 RRA .7993 RC3 -.3582 FAU .02473
FOE 1.5549 FRA 2.7352 FC3 -.7544 BSP 9373
BDE .8404 BRA 2.5199 BC3 .3627 FSP -881

MID-COURSE EXECUTION ACCURACY
SGT 2728.4 SGR 974.0 SG3 301.7
RRT -.9096 RRF .9582 RTF -.9505
SGB 2897.0 R23 -.1832 R13 .9595
SG1 2871.4 SG2 384.6 THA 161.67

ORBIT DETERMINATION ACCURACY
ST 1167.2 SR 351.1 SS 1277.0
CRT -.9939 CRS -.9413 CST .9715
LSA 1751.4 MSA 220.4 SSA 13.0
EL1 1218.3 EL2 37.1 ALF 163.34

LAUNCH DATE SEP 19 1965 FLIGHT TIME 138.00 ARRIVAL DATE FEB 4 1966

HELIOCENTRIC CONIC DISTANCE 347.675

RL 150.27 LAL .00 LOL 355.85 VL 26.679 GAL 6.42 AZL 84.82 HCA 144.04 SMA 125.85 ECC .22289 INC 5.1838 VI 29.652
RP 107.49 LAP 3.04 LOP 140.00 VP 37.615 GAP -9.81 AZP 94.20 TAL 156.33 TAP 300.36 RCA 97.80 APO 153.90 V2 35.256
RC 42.162 GL 26.80 GP -29.02 ZAL 49.38 ZAP 32.02 ETS 59.93 ZAE 140.51 ETE 275.46 ZAC 58.29 ETC 135.11 CLP -14.16

PLANETOCENTRIC CONIC

C3 28.224 VHL 5.313 DLA 8.78 RAL 307.75 RAD 6568.1 VEL 12.231 PTH 2.20 VHP 7.599 DPA -49.42 RAP 318.00 ECC 1.4645

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 54 40	2574.25	-26.36	65.58	177.98	100.73	7 37 34	1974.2	-24.61	57.35
90.00	21 5 34	4666.89	14.50	198.65	173.10	65.41	22 23 21	4066.9	11.07	191.66
100.00	8 20 17	2298.12	-27.62	44.99	177.70	101.91	8 58 35	1698.1	-25.70	36.72
100.00	22 22 38	4418.25	15.66	179.80	172.53	64.21	23 36 17	3818.3	12.07	172.86
110.00	9 38 16	2054.08	-30.99	25.53	176.77	105.21	10 12 30	1454.1	-28.59	17.15
110.00	23 21 9	4235.05	18.74	164.23	170.86	60.87	24 31 44	3635.0	14.71	157.42

DIFFERENTIAL CORRECTIONS
TDE -.8548 TRA-2.3941 TC3 -.0292 BAU .1478
RDE .3299 RRA .8923 RC3 -.3906 FAU .02484
FOE 1.7037 FRA 2.8281 FC3 -.7619 BSP 9726
BDE .9163 BRA 2.5550 BC3 .3917 FSP -939

MID-COURSE EXECUTION ACCURACY
SGT 2770.7 SGR 1116.7 SG3 318.1
RRT -.9241 RRF .9716 RTF -.9540
SGB 2987.2 R23 -.1865 R13 .9648
SG1 2960.4 SG2 399.4 THA 159.17

ORBIT DETERMINATION ACCURACY
ST 1210.1 SR 460.5 SS 1351.0
CRT -.9995 CRS -.9756 CST .9718
LSA 1858.2 MSA 220.1 SSA 11.7
EL1 1294.7 EL2 14.1 ALF 159.17

LAUNCH DATE SEP 19 1965 FLIGHT TIME 140.00 ARRIVAL DATE FEB 6 1966

HELIOCENTRIC CONIC DISTANCE 354.423

RL 150.27 LAL .00 LOL 355.85 VL 26.758 GAL 6.18 AZL 84.22 HCA 147.27 SMA 126.35 ECC .21682 INC 5.7806 VI 29.652
RP 107.49 LAP 3.12 LOP 143.25 VP 37.669 GAP -9.15 AZP 94.87 TAL 156.40 TAP 303.67 RCA 98.96 APO 153.75 V2 35.254
RC 43.042 GL 30.08 GP -32.60 ZAL 51.07 ZAP 35.87 ETS 59.56 ZAE 136.63 ETE 278.30 ZAC 61.68 ETC 134.86 CLP -15.88

PLANETOCENTRIC CONIC

C3 28.576 VHL 5.346 DLA 11.87 RAL 306.61 RAD 6568.1 VEL 12.245 PTH 2.20 VHP 7.455 DPA -52.39 RAP 321.80 ECC 1.4703

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 24 57	2679.13	-27.47	73.06	178.45	97.15	7 9 36	2079.1	-26.20	64.62
90.00	21 26 10	4568.21	11.63	192.83	172.02	64.00	22 42 18	3968.2	8.04	185.99
100.00	7 52 20	2397.33	-28.81	52.12	178.24	98.34	8 32 17	1797.3	-27.36	43.62
100.00	22 41 28	4325.24	12.83	174.34	171.41	62.77	23 53 33	3725.2	9.08	167.56
110.00	9 14 13	2141.10	-32.36	31.94	177.51	101.65	9 49 54	1541.1	-30.42	23.26
110.00	23 36 4	4154.23	16.00	159.57	169.60	59.38	24 45 19	3554.2	11.81	152.96

DIFFERENTIAL CORRECTIONS
TDE -.9051 TRA-2.3947 TC3 .0053 BAU .1605
RDE .4650 RRA 1.0028 RC3 -.4200 FAU .02468
FOE 1.8571 FRA 2.8885 FC3 -.7476 BSP 10293
BDE 1.0176 BRA 2.5962 BC3 .4201 FSP -998

MID-COURSE EXECUTION ACCURACY
SGT 2796.4 SGR 1287.0 SG3 330.2
RRT -.9354 RRF .9810 RTF -.9574
SGB 3078.3 R23 -.1837 R13 .9702
SG1 3049.9 SG2 417.1 THA 156.23

ORBIT DETERMINATION ACCURACY
ST 1249.1 SR 597.7 SS 1420.4
CRT -.9950 CRS -.9903 CST .9721
LSA 1971.2 MSA 222.4 SSA 10.2
EL1 1383.7 EL2 53.8 ALF 154.50

LAUNCH DATE SEP 19 1965 FLIGHT TIME 142.00 ARRIVAL DATE FEB 8 1966

HELIOCENTRIC CONIC DISTANCE 361.149

RL	150.27	LAL	.00	LOL	355.85	VL	26.831	GAL	5.96	AZL	83.51	HCA	150.49	SMA	126.82	ECC	.21123	INC	6.4921	V1	29.652
RP	107.50	LAP	3.19	LOP	146.50	VP	37.717	GAP	-8.51	AZP	95.66	TAL	156.49	TAP	306.98	RCA	100.03	APO	153.61	V2	35.250
RC	44.068	GL	33.69	GP	-36.75	ZAL	53.10	ZAP	40.19	ETS	59.44	ZAE	132.22	ETE	280.50	ZAC	65.43	ETC	134.60	CLP	-17.57

PLANETOCENTRIC CONIC

C3	29.588	VHL	5.440	DLA	15.25	RAL	305.27	RAD	6568.2	VEL	12.287	PTH	2.21	VHP	7.393	DPA	-55.79	RAP	326.40	ECC	1.4869

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 49 57	2805.04	-28.20	82.19	179.33	92.63	6 36 42	2205.0	-27.54	73.59
90.00	21 50 29	4459.71	8.32	186.57	171.42	62.84	23 4 49	3859.7	4.61	179.85
100.00	7 19 36	2515.90	-29.67	60.83	179.24	93.84	8 1 32	1915.9	-28.82	52.13
100.00	23 3 30	4224.07	9.62	168.56	170.72	61.56	24 13 55	3624.1	5.74	161.91
110.00	8 46 22	2244.40	-33.52	39.78	178.80	97.15	9 23 47	1644.4	-32.16	30.81
110.00	23 53 14	4068.34	12.96	154.76	168.74	58.09	25 1 2	3468.3	8.65	148.32

DIFFERENTIAL CORRECTIONS

TDE	-.9631	TRA	-2.3894	TC3	.0502	BAU	.1769
RDE	.6333	RRA	1.1309	RC3	-.4445	FAU	.02425
FDE	2.0042	FRA	2.8962	FC3	-.7094	BSP	11224
BDE	1.1526	BRA	2.6435	BC3	.4473	FSP	-1063

MID-COURSE EXECUTION ACCURACY

SGT	2799.5	SGR	1484.3	SG3	335.2		
RRT	-.9443	RRF	.9873	RTF	-.9606		
SGB	3168.6	R23	-.1750	R13	.9755		
SG1	3138.6	SG2	435.6	THA	152.84		

ORBIT DETERMINATION ACCURACY

ST	1281.2	SR	763.1	SS	1478.4		
CRT	-.9886	CRS	-.9964	CST	.9725		
LSA	2087.6	MSA	227.2	SSA	8.6		
EL1	1488.0	EL2	99.0	ALF	149.36		

LAUNCH DATE SEP 19 1965 FLIGHT TIME 144.00 ARRIVAL DATE FEB 10 1966

HELIOCENTRIC CONIC DISTANCE 367.861

RL	150.27	LAL	.00	LOL	355.85	VL	26.897	GAL	5.77	AZL	82.64	HCA	153.71	SMA	127.25	ECC	.20612	INC	7.3607	V1	29.652
RP	107.51	LAP	3.25	LOP	149.75	VP	37.761	GAP	-7.90	AZP	96.61	TAL	156.59	TAP	310.30	RCA	101.02	APO	153.48	V2	35.247
RC	45.230	GL	37.63	GP	-41.51	ZAL	55.50	ZAP	44.98	ETS	59.56	ZAE	127.27	ETE	282.24	ZAC	69.61	ETC	134.46	CLP	-19.16

PLANETOCENTRIC CONIC

C3	31.529	VHL	5.615	DLA	18.92	RAL	303.70	RAD	6568.3	VEL	12.365	PTH	2.23	VHP	7.442	DPA	-59.58	RAP	332.30	ECC	1.5189

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 7 21	2959.76	-28.17	93.50	180.61	86.96	5 56 41	2359.8	-28.29	84.84
90.00	22 20 34	4336.87	4.44	179.63	171.50	62.01	23 32 51	3736.9	.66	172.99
100.00	6 40 16	2660.14	-29.84	71.54	180.69	88.21	7 24 36	2060.1	-29.77	62.74
100.00	23 30 20	4111.73	5.92	162.27	170.69	60.65	24 38 52	3511.7	1.96	155.72
110.00	8 13 37	2368.08	-34.15	49.37	180.70	91.51	8 53 5	1768.1	-33.57	40.18
110.00	0 17 24	3976.55	9.60	149.77	168.44	57.04	1 23 41	3376.5	5.20	143.45

DIFFERENTIAL CORRECTIONS

TDE	-1.1323	TRA	-2.4778	TC3	-.0218	BAU	.1792
RDE	.8749	RRA	1.3051	RC3	-.4247	FAU	.01998
FDE	2.2068	FRA	2.9084	FC3	-.5485	BSP	10211
BDE	1.4310	BRA	2.8005	BC3	.4252	FSP	-974

MID-COURSE EXECUTION ACCURACY

SGT	2911.9	SGR	1733.9	SG3	337.9		
RRT	-.9472	RRF	.9912	RTF	-.9635		
SGB	3389.0	R23	-.1640	R13	.9805		
SG1	3354.5	SG2	482.4	THA	149.89		

ORBIT DETERMINATION ACCURACY

ST	1406.4	SR	987.8	SS	1569.4		
CRT	-.9863	CRS	-.9989	CST	.9778		
LSA	2316.5	MSA	224.6	SSA	7.6		
EL1	1713.4	EL2	133.6	ALF	145.04		

LAUNCH DATE SEP 19 1965 FLIGHT TIME 146.00 ARRIVAL DATE FEB 12 1966

HELIOCENTRIC CONIC DISTANCE 374.540

RL	150.27	LAL	.00	LOL	355.85	VL	26.957	GAL	5.59	AZL	81.55	HCA	156.93	SMA	127.65	ECC	.20144	INC	8.4521	V1	29.652
RP	107.53	LAP	3.30	LOP	153.00	VP	37.799	GAP	-7.30	AZP	97.78	TAL	156.69	TAP	313.61	RCA	101.94	APO	153.37	V2	35.242
RC	46.516	GL	41.92	GP	-46.93	ZAL	58.30	ZAP	50.25	ETS	59.91	ZAE	121.72	ETE	283.74	ZAC	74.26	ETC	134.59	CLP	-20.55

PLANETOCENTRIC CONIC

C3	34.845	VHL	5.903	DLA	22.87	RAL	301.83	RAD	6568.4	VEL	12.499	PTH	2.26	VHP	7.648	DPA	-63.65	RAP	340.38	ECC	1.5735

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 11 55	3159.79	-26.60	107.91	181.96	79.92	5 4 35	2559.8	-27.72	99.42
90.00	23 1 4	4187.25	-.37	171.27	172.67	61.69	24 10 51	3587.3	-4.16	164.63
100.00	5 50 29	2841.98	-28.70	84.92	182.35	81.27	6 37 51	2242.0	-29.61	76.24
100.00	0 9 7	3980.30	1.49	155.03	171.63	60.14	1 15 27	3380.3	-2.50	148.50
110.00	7 33 53	2518.51	-33.80	61.09	183.09	84.59	8 15 51	1918.5	-34.18	51.87
110.00	0 42 12	3876.54	5.86	144.45	168.92	56.26	1 46 49	3276.5	1.39	138.22

DIFFERENTIAL CORRECTIONS

TDE	-1.2793	TRA	-2.5180	TC3	-.0110	BAU	.1882
RDE	1.1708	RRA	1.4823	RC3	-.4038	FAU	.01695
FDE	2.3325	FRA	2.7880	FC3	-.4212	BSP	10933
BDE	1.7341	BRA	2.9219	BC3	.4039	FSP	-958

MID-COURSE EXECUTION ACCURACY

SGT	2928.9	SGR	1989.2	SG3	323.3		
RRT	-.9521	RRF	.9937	RTF	-.9669		
SGB	3540.6	R23	-.1450	R13	.9854		
SG1	3503.8	SG2	508.6	THA	146.31		

ORBIT DETERMINATION ACCURACY

ST	1474.8	SR	1229.2	SS	1605.3		
CRT	-.9840	CRS	-.9998	CST	.9803		
LSA	2492.1	MSA	228.7	SSA	6.2		
EL1	1912.5	EL2	169.1	ALF	140.27		

LAUNCH DATE SEP 19 1965 FLIGHT TIME 148.00 ARRIVAL DATE FEB 14 1966

HELIOCENTRIC CONIC DISTANCE 381.190

RL	150.27	LAL	.00	LOL	355.85	VL	27.012	GAL	5.42	AZL	80.13	HCA	160.13	SMA	128.01	ECC	.19721	INC	9.8736	V1	29.652
RP	107.55	LAP	3.34	LOP	156.25	VP	37.833	GAP	-6.72	AZP	99.30	TAL	156.79	TAP	316.91	RCA	102.77	APO	153.26	V2	35.236
RC	47.916	GL	46.51	GP	-53.01	ZAL	61.52	ZAP	55.95	ETS	60.64	ZAE	115.57	ETE	285.35	ZAC	79.45	ETC	135.32	CLP	-21.46

PLANETOCENTRIC CONIC

C3	40.402	VHL	6.356	DLA	27.06	RAL	299.58	RAD	6568.6	VEL	12.719	PTH	2.31	VHP	8.082	DPA	-67.62	RAP	352.17	ECC	1.6649

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	2 43 35	3468.75	-21.21	128.89	182.09	70.79	3 41 24	2868.8	-23.64	121.06
90.00	0 15 21	3953.07	-7.85	158.12	176.18	62.71	1 21 14	3353.1	-11.45	151.29
100.00	4 39 47	3094.18	-24.81	102.62	183.38	72.76	5 31 21	2494.2	-26.93	94.46
100.00	1 1 50	3802.88	-4.52	145.28	174.36	60.42	2 5 13	3202.9	-8.42	138.67
110.00	6 43 33	2706.90	-31.67	75.36	185.52	76.42	7 28 39	2106.9	-33.22	66.47
110.00	1 14 34	3762.92	1.53	138.50	170.60	55.85	2 17 17	3162.9	-2.96	132.29

DIFFERENTIAL CORRECTIONS

TDE	-1.5116	TRA	-2.6033	TC3	-.0187	BAU	.1894
RDE	1.5682	RRA	1.6751	RC3	-.3501	FAU	.01249
FDE	2.4184	FRA	2.5838	FC3	-.2675	BSP	11578
BDE	2.1781	BRA	3.0956	BC3	.3506	FSP	-892

MID-COURSE EXECUTION ACCURACY

SGT	2966.5	SGR	2251.8	SG3	295.6		
RRT	-.9555	RRF	.9951	RTF	-.9707		
SGB	3724.4	R23	-.1226	R13	.9898		
SG1	3685.8	SG2	534.6	THA	143.14		

ORBIT DETERMINATION ACCURACY

ST	1575.3	SR	1502.3	SS	1617.8		
CRT	-.9838	CRS	-1.0000	CST	.9838		
LSA	2702.3	MSA	230.9	SSA	4.9		
EL1	2168.0	EL2	196.0	ALF	136.38		

LAUNCH DATE SEP 19 1965 FLIGHT TIME 150.00 ARRIVAL DATE FEB 16 1966

HELIOCENTRIC CONIC DISTANCE 387.802

RL 150.27 LAL .00 LOL 355.85 VL 27.061 GAL 5.28 AZL 78.19 HCA 163.31 SMA 128.34 ECC .19340 INC11.8136 V1 29.652
RP 107.56 LAP 3.37 LOP 159.50 VP 37.863 GAP -6.15 AZP 101.33 TAL 156.87 TAP 320.19 RCA 103.52 APO 153.17 V2 35.230
RC 49.420 GL 51.32 GP -59.68 ZAL 65.17 ZAP 61.95 ETS 62.19 ZAE 108.82 ETE 287.74 ZAC 85.20 ETC 137.30 CLP -21.31

PLANETOCENTRIC CONIC

C3 49.946 VHL 7.067 DLA 31.36 RAL 296.82 RAD 6568.8 VEL 13.088 PTH 2.39 VHP 8.870 DPA -70.69 RAP 9.72 ECC 1.8220

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
75.94	23 23 33	4120.46	-14.90	174.19	180.95	62.09	24 32 14	3520.5	-18.51	167.16
104.06	3 9 24	3407.90	-14.88	121.53	180.94	62.08	4 6 12	2807.9	-18.50	114.50
75.94	23 23 33	4120.46	-14.90	174.19	180.95	62.09	24 32 14	3520.5	-18.51	167.16
104.06	3 9 24	3407.90	-14.88	121.53	180.94	62.08	4 6 12	2807.9	-18.50	114.50
110.00	5 32 36	2962.69	-26.18	93.20	186.65	67.19	6 21 58	2362.7	-29.03	85.18
110.00	2 3 28	3613.68	-4.17	130.70	174.45	56.04	3 3 42	3013.7	-8.60	124.42

DIFFERENTIAL CORRECTIONS
TDE-1.8987 TRA-2.7689 TC3 -.0381 BAU .1769
RDE 2.0994 RRA 1.8571 RC3 -.2622 FAU .00685
FDE 2.4433 FRA 2.2984 FC3 -.1188 BSP 12258
BDE 2.8307 BRA 3.3340 BC3 .2650 FSP -783

MID-COURSE EXECUTION ACCURACY
SGT 3046.7 SGR 2478.5 SG3 255.0
RRT -.9581 RRF .9952 RTF -.9758
SGB 3927.5 R23 -.0971 R13 .9935
SG1 3887.9 SG2 556.4 THA 141.12

ORBIT DETERMINATION ACCURACY
ST 1729.6 SR 1782.4 SS 1598.9
CRT -.9852 CRS -.9998 CST .9881
LSA 2944.7 MSA 231.0 SSA 3.9
EL1 2474.4 EL2 213.6 ALF 134.13

LAUNCH DATE SEP 19 1965 FLIGHT TIME 152.00 ARRIVAL DATE FEB 18 1966

HELIOCENTRIC CONIC DISTANCE 394.364

RL 150.27 LAL .00 LOL 355.85 VL 27.105 GAL 5.16 AZL 75.37 HCA 166.47 SMA 128.64 ECC .19002 INC14.6324 V1 29.652
RP 107.58 LAP 3.39 LOP 162.74 VP 37.888 GAP -5.61 AZP 104.24 TAL 156.93 TAP 323.41 RCA 104.20 APO 153.09 V2 35.224
RC 51.018 GL 56.14 GP -66.77 ZAL 69.22 ZAP 68.05 ETS 66.16 ZAE 101.47 ETE 292.64 ZAC 91.57 ETC 142.27 CLP -18.60

PLANETOCENTRIC CONIC

C3 67.437 VHL 8.212 DLA 35.54 RAL 293.36 RAD 6569.3 VEL 13.740 PTH 2.51 VHP 10.245 DPA -71.47 RAP 33.09 ECC 2.1098

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
67.57	22 17 10	4355.88	-14.01	191.85	182.94	57.00	23 29 46	3755.9	-18.25	185.20
112.43	3 48 16	3319.26	-13.99	114.15	182.93	56.99	4 43 35	2719.3	-18.24	107.51
67.57	22 17 10	4355.88	-14.01	191.85	182.94	57.00	23 29 46	3755.9	-18.25	185.20
112.43	3 48 16	3319.26	-13.99	114.15	182.93	56.99	4 43 35	2719.3	-18.24	107.51
67.57	22 17 10	4355.88	-14.01	191.85	182.94	57.00	23 29 46	3755.9	-18.25	185.20
112.43	3 48 16	3319.26	-13.99	114.15	182.93	56.99	4 43 35	2719.3	-18.24	107.51

DIFFERENTIAL CORRECTIONS
TDE-2.6550 TRA-3.1222 TC3 -.0712 BAU .1471
RDE 2.7604 RRA 1.9362 RC3 -.1468 FAU .00025
FDE 2.4075 FRA 1.9649 FC3 -.0032 BSP 12879
BDE 3.8300 BRA 3.6739 BC3 .1632 FSP -640

MID-COURSE EXECUTION ACCURACY
SGT 3257.6 SGR 2554.1 SG3 205.5
RRT -.9596 RRF .9929 RTF -.9834
SGB 4139.5 R23 -.0684 R13 .9965
SG1 4099.9 SG2 571.3 THA 142.18

ORBIT DETERMINATION ACCURACY
ST 2019.0 SR 1989.3 SS 1552.8
CRT -.9878 CRS -.9992 CST .9932
LSA 3223.9 MSA 227.6 SSA 2.9
EL1 2825.8 EL2 221.0 ALF 135.43

LAUNCH DATE SEP 19 1965 FLIGHT TIME 154.00 ARRIVAL DATE FEB 20 1966

HELIOCENTRIC CONIC DISTANCE 400.845

RL 150.27 LAL .00 LOL 355.85 VL 27.145 GAL 5.06 AZL 70.89 HCA 169.58 SMA 128.91 ECC .18709 INC19.1085 V1 29.652
RP 107.61 LAP 3.39 LOP 165.99 VP 37.910 GAP -5.10 AZP 108.82 TAL 156.95 TAP 326.53 RCA 104.79 APO 153.03 V2 35.216
RC 52.701 GL 60.52 GP -73.79 ZAL 73.60 ZAP 73.97 ETS 78.86 ZAE 93.41 ETE 306.45 ZAC 98.80 ETC 156.67 CLP -8.45

PLANETOCENTRIC CONIC

C3 103.386 VHL 10.168 DLA 39.10 RAL 288.38 RAD 6570.0 VEL 14.991 PTH 2.70 VHP 12.698 DPA -68.67 RAP 56.22 ECC 2.7015

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
61.83	21 29 59	4539.34	-11.26	204.77	184.81	52.31	22 45 39	3939.3	-16.07	198.61
118.17	4 0 27	3328.70	-11.25	112.92	184.80	52.31	4 55 56	2728.7	-16.06	106.76
61.83	21 29 59	4539.34	-11.26	204.77	184.81	52.31	22 45 39	3939.3	-16.07	198.61
118.17	4 0 27	3328.70	-11.25	112.92	184.80	52.31	4 55 56	2728.7	-16.06	106.76
61.83	21 29 59	4539.34	-11.26	204.77	184.81	52.31	22 45 39	3939.3	-16.07	198.61
118.17	4 0 27	3328.70	-11.25	112.92	184.80	52.31	4 55 56	2728.7	-16.06	106.76

DIFFERENTIAL CORRECTIONS
TDE-4.5588 TRA-3.9574 TC3 -.1249 BAU .1818
RDE 2.9918 RRA 1.3920 RC3 -.0412 FAU-.00715
FDE 2.3456 FRA 1.6434 FC3 .0598 BSP 13421
BDE 5.4529 BRA 4.1951 BC3 .1316 FSP -486

MID-COURSE EXECUTION ACCURACY
SGT 3862.7 SGR 1967.4 SG3 154.2
RRT -.9492 RRF .9751 RTF -.9943
SGB 4334.8 R23 -.0358 R13 .9986
SG1 4299.0 SG2 556.0 THA 153.72

ORBIT DETERMINATION ACCURACY
ST 2709.7 SR 1712.9 SS 1502.3
CRT -.9894 CRS -.9962 CST .9982
LSA 3533.9 MSA 212.3 SSA 2.2
EL1 3198.7 EL2 210.9 ALF 147.82

LAUNCH DATE SEP 19 1965 FLIGHT TIME 156.00 ARRIVAL DATE FEB 22 1966

HELIOCENTRIC CONIC DISTANCE 407.172

RL 150.27 LAL .00 LOL 355.85 VL 27.181 GAL 5.00 AZL 62.78 HCA 172.57 SMA 129.15 ECC .18471 INC27.2233 V1 29.652
RP 107.63 LAP 3.39 LOP 169.24 VP 37.928 GAP -4.63 AZP 117.03 TAL 156.86 TAP 329.43 RCA 105.30 APO 153.01 V2 35.208
RC 54.462 GL 63.21 GP -78.30 ZAL 78.17 ZAP 79.39 ETS 125.54 ZAE 84.11 ETE 354.19 ZAC 107.66 ETC 205.71 CLP 24.78

PLANETOCENTRIC CONIC

C3 192.554 VHL 13.876 DLA 40.83 RAL 283.41 RAD 6571.0 VEL 17.717 PTH 2.98 VHP 17.442 DPA -61.83 RAP 72.74 ECC 4.1689

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
59.26	20 55 59	4687.87	-6.64	213.54	185.68	49.62	22 14 7	4087.9	-11.78	207.74
120.74	3 50 1	3410.71	-6.63	116.06	185.66	49.62	4 46 51	2810.7	-11.76	110.26
59.26	20 55 59	4687.87	-6.64	213.54	185.68	49.62	22 14 7	4087.9	-11.78	207.74
120.74	3 50 1	3410.71	-6.63	116.06	185.66	49.62	4 46 51	2810.7	-11.76	110.26
59.26	20 55 59	4687.87	-6.64	213.54	185.68	49.62	22 14 7	4087.9	-11.78	207.74
120.74	3 50 1	3410.71	-6.63	116.06	185.66	49.62	4 46 51	2810.7	-11.76	110.26

DIFFERENTIAL CORRECTIONS
TDE-7.7125 TRA-4.3238 TC3 -.1920 BAU .5682
RDE-3.1178 RRA-2.7554 RC3 -.1088 FAU-.01686
FDE 2.3744 FRA 1.4349 FC3 .0758 BSP 13813
BDE 8.3189 BRA 5.1271 BC3 .2207 FSP -351

MID-COURSE EXECUTION ACCURACY
SGT 3999.0 SGR 2002.3 SG3 109.9
RRT .9751 RRF -.9826 RTF -.9988
SGB 4472.2 R23 .0054 R13 -.9996
SG1 4454.5 SG2 398.4 THA 26.25

ORBIT DETERMINATION ACCURACY
ST 3262.3 SR 1364.1 SS 1519.3
CRT .9930 CRS .9948 CST .9999
LSA 3845.7 MSA 148.7 SSA 1.6
EL1 3532.9 EL2 148.7 ALF 22.59

LAUNCH DATE SEP 19 1965 FLIGHT TIME 158.00 ARRIVAL DATE FEB 24 1966

HELIOCENTRIC CONIC DISTANCE 413.086

RL 150.27 LAL .00 LOL 355.85 VL 27.212 GAL 5.02 AZL 44.89 HCA 175.23 SMA 129.37 ECC .18321 INC45.1049 VI 29.652
RP 107.66 LAP 3.38 LOP 172.48 VP 37.942 GAP -4.28 AZP 135.01 TAL 156.48 TAP 331.71 RCA 105.67 APO 153.07 V2 35.200
RC 56.291 GL 60.43 GP -71.68 ZAL 82.56 ZAP 83.88 ETS 171.94 ZAE 71.58 ETE 40.47 ZAC 120.94 ETC 254.91 CLP 70.17

PLANETOCENTRIC CONIC

C3 487.502 VHL 22.079 DLA 37.25 RAL 276.83 RAD 6572.3 VEL 24.674 PTH 3.33 VHP 28.008 DPA -49.22 RAP 82.11 ECC 9.0230

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
64.72	20 55 54	4723.43	-1.62	212.46	184.72	52.78	22 14 37	4123.4	-6.44	206.47
115.28	2 57 39	3595.95	-1.60	127.46	184.71	52.78	3 57 35	2995.9	-6.42	121.47
64.72	20 55 54	4723.43	-1.62	212.46	184.72	52.78	22 14 37	4123.4	-6.44	206.47
115.28	2 57 39	3595.95	-1.60	127.46	184.71	52.78	3 57 35	2995.9	-6.42	121.47
64.72	20 55 54	4723.43	-1.62	212.46	184.72	52.78	22 14 37	4123.4	-6.44	206.47
115.28	2 57 39	3595.95	-1.60	127.46	184.71	52.78	3 57 35	2995.9	-6.42	121.47

DIFFERENTIAL CORRECTIONS
TDE-5.9886 TRA-1.3612 TC3 -.1278 BAU 1.9868
RD-12.1710 RRA-7.0621 RC3 -.2768 FAU-.03896
FDE 2.7877 FRA 1.5551 FC3 .0692 BSP 13269
BDE13.5645 BRA 7.1921 BC3 .3048 FSP -251

MID-COURSE EXECUTION ACCURACY
SGT 1711.9 SGR 4094.9 SG3 80.8
RRT .9443 RRF -.9994 RTF -.9510
SGB 4438.4 R23 -.0256 R13 -.9993
SG1 4407.4 SG2 523.5 THA 68.13

ORBIT DETERMINATION ACCURACY
ST 1559.8 SR 3233.2 SS 1788.9
CRT .9916 CRS 1.0000 CST .9926
LSA 4006.6 MSA 184.0 SSA 1.8
EL1 3585.2 EL2 182.1 ALF 64.36

LAUNCH DATE SEP 19 1965 FLIGHT TIME 160.00 ARRIVAL DATE FEB 26 1966

HELIOCENTRIC CONIC DISTANCE 417.509

RL 150.27 LAL .00 LOL 355.85 VL 27.239 GAL 5.32 AZL 2.15 HCA 176.65 SMA 129.56 ECC .18423 INC87.8348 VI 29.652
RP 107.69 LAP 3.35 LOP 175.72 VP 37.954 GAP -4.29 AZP 177.84 TAL 155.10 TAP 331.74 RCA 105.69 APO 153.43 V2 35.191
RC 58.184 GL 43.28 GP -48.43 ZAL 85.64 ZAP 86.59 ETS 181.22 ZAE 51.76 ETE 42.16 ZAC 145.56 ETC 266.76 CLP 84.85

PLANETOCENTRIC CONIC

C31562.862 VHL 39.533 DLA 19.85 RAL 271.42 RAD 6573.2 VEL 41.038 PTH 3.57 VHP 50.532 DPA -24.71 RAP 85.84 ECC26.7208

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	2 48 25	3570.94	-18.78	135.41	190.24	68.41	3 47 56	2970.9	-21.55	127.83
90.00	20 21 58	4872.36	19.90	211.31	175.69	69.43	21 43 10	4272.4	16.92	203.90
100.00	4 22 22	3267.97	-20.82	113.99	191.10	68.06	5 16 50	2668.0	-23.62	106.30
100.00	21 30 42	4650.56	21.96	194.17	174.85	69.19	22 48 12	4050.6	18.93	186.69
110.00	5 57 42	2969.71	-25.99	93.66	193.43	66.98	6 47 12	2369.7	-28.88	85.67
110.00	22 11 51	4521.59	27.18	182.17	172.63	68.42	23 27 13	3921.6	24.00	174.44

DIFFERENTIAL CORRECTIONS
TDE-7.1351 TRA -.1870 TC3 -.1165 BAU 6.0219
RD-15.1460 RR-10.3208 RC3 -.2636 FAU-.11363
FDE 3.4964 FRA 2.4341 FC3 .0629 BSP 10623
BDE16.7425 BRA10.3225 BC3 .2682 FSP -209

MID-COURSE EXECUTION ACCURACY
SGT 1384.9 SGR 3419.4 SG3 69.4
RRT .8943 RRF -.9999 RTF -.8928
SGB 3689.3 R23 -.0627 R13 -.9979
SG1 3643.1 SG2 581.6 THA 69.54

ORBIT DETERMINATION ACCURACY
ST 1034.5 SR 2247.2 SS 2267.2
CRT .9789 CRS 1.0000 CST .9780
LSA 3349.5 MSA 203.6 SSA 1.5
EL1 2466.4 EL2 192.4 ALF 65.58

LAUNCH DATE SEP 19 1965 FLIGHT TIME 162.00 ARRIVAL DATE FEB 28 1966

HELIOCENTRIC CONIC DISTANCE 429.544

RL 150.27 LAL .00 LOL 355.85 VL 27.263 GAL 4.28 AZL 136.83 HCA 184.54 SMA 129.72 ECC .17471 INC46.8267 VI 29.652
RP 107.72 LAP 3.31 LOP 178.96 VP 37.962 GAP -2.43 AZP 43.26 TAL 158.99 TAP 343.53 RCA 107.06 APO 152.39 V2 35.181
RC 60.133 GL -60.26 GP 70.84 ZAL 83.68 ZAP 86.54 ETS 200.32 ZAE 84.07 ETE 322.36 ZAC 94.79 ETC 107.15 CLP 79.41

PLANETOCENTRIC CONIC

C3 521.454 VHL 22.835 DLA -82.62 RAL 305.57 RAD 6572.4 VEL 25.353 PTH 3.35 VHP 29.591 DPA 81.25 RAP 322.48 ECC 9.5818

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
8.39	8 8 18	2423.43	2.27	85.03	215.26	172.61	8 48 42	1823.4	10.20	84.41
171.61	19 34 31	618.85	2.27	280.58	215.29	172.61	19 44 50	18.8	10.21	279.96
8.39	8 8 18	2423.43	2.27	85.03	215.26	172.61	8 48 42	1823.4	10.20	84.41
171.61	19 34 31	618.85	2.27	280.58	215.29	172.61	19 44 50	18.8	10.21	279.96
8.39	8 8 18	2423.43	2.27	85.03	215.26	172.61	8 48 42	1823.4	10.20	84.41
171.61	19 34 31	618.85	2.27	280.58	215.29	172.61	19 44 50	18.8	10.21	279.96

DIFFERENTIAL CORRECTIONS
TDE 6.6291 TRA-1.0530 TC3 -.1904 BAU 2.2712
RDE-4.6937 RRA 1.6853 RC3 .2643 FAU-.03938
FDE-1.6367 FRA .4260 FC3 .0654 BSP 14064
BDE 8.1225 BRA 1.9873 BC3 .3258 FSP -259

MID-COURSE EXECUTION ACCURACY
SGT 2784.3 SGR 3698.4 SG3 84.2
RRT -.9495 RRF .9938 RTF -.9779
SGB 4629.3 R23 -.0047 R13 .9998
SG1 4575.2 SG2 705.9 THA 126.57

ORBIT DETERMINATION ACCURACY
ST 1774.2 SR 1537.3 SS 1228.8
CRT -.9419 CRS -.9885 CST .9818
LSA 2619.5 MSA 399.0 SSA 1.4
EL1 2313.9 EL2 396.0 ALF 139.34

LAUNCH DATE SEP 19 1965 FLIGHT TIME 164.00 ARRIVAL DATE MAR 2 1966

HELIOCENTRIC CONIC DISTANCE 435.323

RL 150.27 LAL .00 LOL 355.85 VL 27.284 GAL 4.36 AZL 117.29 HCA 187.14 SMA 129.86 ECC .17417 INC27.2874 VI 29.652
RP 107.75 LAP 3.27 LOP 182.20 VP 37.967 GAP -2.12 AZP 62.89 TAL 158.47 TAP 345.61 RCA 107.25 APO 152.48 V2 35.171
RC 62.133 GL -64.17 GP 82.61 ZAL 79.38 ZAP 84.93 ETS 241.81 ZAE 95.85 ETE .61 ZAC 81.74 ETC 144.40 CLP 46.57

PLANETOCENTRIC CONIC

C3 191.996 VHL 13.856 DLA -81.03 RAL 354.34 RAD 6571.0 VEL 17.701 PTH 2.98 VHP 17.980 DPA 69.71 RAP 294.14 ECC 4.1598

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
10.20	11 26 20	2305.27	10.08	83.34	262.72	170.89	12 4 45	1705.3	17.98	82.43
169.80	22 45 32	5792.39	10.09	258.53	262.74	170.89	24 22 4	5192.4	17.98	257.62
10.20	11 26 20	2305.27	10.08	83.34	262.72	170.89	12 4 45	1705.3	17.98	82.43
169.80	22 45 32	5792.39	10.09	258.53	262.74	170.89	24 22 4	5192.4	17.98	257.62
10.20	11 26 20	2305.27	10.08	83.34	262.72	170.89	12 4 45	1705.3	17.98	82.43
169.80	22 45 32	5792.39	10.09	258.53	262.74	170.89	24 22 4	5192.4	17.98	257.62

DIFFERENTIAL CORRECTIONS
TDE-3.7492 TRA-1.6705 TC3 -.2259 BAU .6257
RDE 2.4241 RRA .3555 RC3 .0915 FAU-.01209
FDE 1.2103 FRA .4662 FC3 .0545 BSP 15325
BDE 4.4646 BRA 1.7079 BC3 .2438 FSP -366

MID-COURSE EXECUTION ACCURACY
SGT 4735.0 SGR 1399.2 SG3 116.0
RRT -.8889 RRF .9080 RTF -.9987
SGB 4937.4 R23 -.0107 R13 .9996
SG1 4898.3 SG2 619.7 THA 165.04

ORBIT DETERMINATION ACCURACY
ST 2042.1 SR 1041.5 SS 967.7
CRT -.9074 CRS -.9349 CST .9975
LSA 2456.5 MSA 396.0 SSA 1.5
EL1 2257.9 EL2 395.8 ALF 154.32

LAUNCH DATE SEP 19 1965 FLIGHT TIME 166.00 ARRIVAL DATE MAR 4 1966

HELIOCENTRIC CONIC DISTANCE 441.516

RL 150.27 LAL .00 LOL 355.85 VL 27.301 GAL 4.38 AZL 108.60 HCA 190.10 SMA 129.98 ECC .17334 INC18.6042 V1 29.652
RP 107.78 LAP 3.21 LOP 185.43 VP 37.970 GAP -1.71 AZP 71.66 TAL 158.24 TAP 348.35 RCA 107.45 APO 152.51 V2 35.160
RC 64.180 GL -61.97 GP 83.36 ZAL 74.91 ZAP 84.00 ETS 293.33 ZAE 103.10 ETE 49.65 ZAC 74.12 ETC 191.44 CLP -25.32

PLANETOCENTRIC CONIC

C3 96.798 VHL 9.839 DLA -76.55 RAL 354.06 RAD 6569.9 VEL 14.770 PTH 2.67 VHP 12.718 DPA 61.92 RAP 290.60 ECC 2.5930

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
15.32	11 35 18	2169.18	18.44	78.41	259.47	165.80	12 11 27	1569.2	26.18	76.65
164.68	22 34 20	5670.72	18.45	258.59	259.49	165.80	24 8 51	5070.7	26.19	256.83
15.32	11 35 18	2169.18	18.44	78.41	259.47	165.80	12 11 27	1569.2	26.18	76.65
164.68	22 34 20	5670.72	18.45	258.59	259.49	165.80	24 8 51	5070.7	26.19	256.83
15.32	11 35 18	2169.18	18.44	78.41	259.47	165.80	12 11 27	1569.2	26.18	76.65
164.68	22 34 20	5670.72	18.45	258.59	259.49	165.80	24 8 51	5070.7	26.19	256.83

DIFFERENTIAL CORRECTIONS

TDE-3.0608 TRA-1.4203 TC3 -.1127 BAU .1485
RDE-1.3118 RRA-1.1967 RC3 .0212 FAU .00044
FDE 1.2703 FRA .7089 FC3 -.0039 BSP 15688
BDE 3.3300 BRA 1.8572 BC3 .1147 FSP -526

MID-COURSE EXECUTION ACCURACY

SGT 3982.9 SGR 3091.6 SG3 166.1
RRT .9746 RRF -.9894 RTF -.9958
SGB 5041.9 R23 -.0002 R13 -.9994
SG1 5011.8 SG2 550.1 THA 37.64

ORBIT DETERMINATION ACCURACY

ST 2077.1 SR 1179.5 SS 1001.5
CRT .9470 CRS .9707 CST .9964
LSA 2568.6 MSA 332.8 SSA 2.2
EL1 2365.4 EL2 332.8 ALF 28.89

LAUNCH DATE SEP 19 1965 FLIGHT TIME 168.00 ARRIVAL DATE MAR 6 1966

HELIOCENTRIC CONIC DISTANCE 447.832

RL 150.27 LAL .00 LOL 355.85 VL 27.315 GAL 4.38 AZL 103.89 HCA 193.19 SMA 130.08 ECC .17259 INC13.8920 V1 29.652
RP 107.81 LAP 3.14 LOP 188.67 VP 37.970 GAP -1.28 AZP 76.46 TAL 158.09 TAP 351.29 RCA 107.63 APO 152.53 V2 35.149
RC 66.268 GL -57.86 GP 79.11 ZAL 70.60 ZAP 83.92 ETS 318.49 ZAE 108.37 ETE 72.72 ZAC 68.57 ETC 212.14 CLP -55.89

PLANETOCENTRIC CONIC

C3 59.640 VHL 7.723 DLA -72.04 RAL 347.74 RAD 6569.1 VEL 13.454 PTH 2.46 VHP 9.891 DPA 56.11 RAP 289.33 ECC 1.9815

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
20.50	11 20 42	2046.64	25.22	72.07	248.96	160.08	11 54 49	1446.6	32.70	69.26
159.50	21 58 35	5569.26	25.22	257.46	248.97	160.07	23 31 24	4969.3	32.71	254.65
20.50	11 20 42	2046.64	25.22	72.07	248.96	160.08	11 54 49	1446.6	32.70	69.26
159.50	21 58 35	5569.26	25.22	257.46	248.97	160.07	23 31 24	4969.3	32.71	254.65
20.50	11 20 42	2046.64	25.22	72.07	248.96	160.08	11 54 49	1446.6	32.70	69.26
159.50	21 58 35	5569.26	25.22	257.46	248.97	160.07	23 31 24	4969.3	32.71	254.65

DIFFERENTIAL CORRECTIONS

TDE-1.5175 TRA -.8541 TC3 -.0623 BAU .1646
RDE-1.4312 RRA-1.8145 RC3 .1968 FAU .01009
FDE 1.1073 FRA 1.0533 FC3 -.1465 BSP 15878
BDE 2.0859 BRA 2.0054 BC3 .2065 FSP -736

MID-COURSE EXECUTION ACCURACY

SGT 2345.4 SGR 4503.9 SG3 231.0
RRT .9599 RRF -.9971 RTF -.9746
SGB 5078.0 R23 .0034 R13 -.9990
SG1 5044.0 SG2 586.8 THA 63.05

ORBIT DETERMINATION ACCURACY

ST 1283.6 SR 1686.3 SS 956.7
CRT .9254 CRS .9898 CST .9699
LSA 2291.6 MSA 393.9 SSA 3.0
EL1 2082.3 EL2 393.9 ALF 53.31

LAUNCH DATE SEP 19 1965 FLIGHT TIME 170.00 ARRIVAL DATE MAR 8 1966

HELIOCENTRIC CONIC DISTANCE 454.187

RL 150.27 LAL .00 LOL 355.85 VL 27.326 GAL 4.39 AZL 100.96 HCA 196.33 SMA 130.16 ECC .17202 INC10.9560 V1 29.652
RP 107.85 LAP 3.06 LOP 191.90 VP 37.967 GAP -.84 AZP 79.48 TAL 157.96 TAP 354.29 RCA 107.77 APO 152.55 V2 35.138
RC 68.394 GL -53.20 GP 74.82 ZAL 66.58 ZAP 84.64 ETS 332.10 ZAE 112.55 ETE 84.70 ZAC 63.96 ETC 221.44 CLP -69.12

PLANETOCENTRIC CONIC

C3 41.821 VHL 6.467 DLA -67.50 RAL 342.05 RAD 6568.6 VEL 12.774 PTH 2.32 VHP 8.169 DPA 51.32 RAP 288.36 ECC 1.6883

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
25.76	11 9 18	1943.91	29.87	64.68	238.28	153.82	11 41 42	1343.9	36.98	60.69
154.24	21 24 34	5495.33	29.88	255.63	238.30	153.82	22 56 10	4895.3	36.98	251.64
25.76	11 9 18	1943.91	29.87	64.68	238.28	153.82	11 41 42	1343.9	36.98	60.69
154.24	21 24 34	5495.33	29.88	255.63	238.30	153.82	22 56 10	4895.3	36.98	251.64
25.76	11 9 18	1943.91	29.87	64.68	238.28	153.82	11 41 42	1343.9	36.98	60.69
154.24	21 24 34	5495.33	29.88	255.63	238.30	153.82	22 56 10	4895.3	36.98	251.64

DIFFERENTIAL CORRECTIONS

TDE -.8658 TRA -.4507 TC3 -.1037 BAU .2533
RDE-1.0372 RRA-2.0701 RC3 .4410 FAU .01920
FDE .9766 FRA 1.4736 FC3 -.3974 BSP 15960
BDE 1.3511 BRA 2.1186 BC3 .4530 FSP -987

MID-COURSE EXECUTION ACCURACY

SGT 1302.1 SGR 4914.2 SG3 307.4
RRT .8800 RRF -.9979 RTF -.8971
SGB 5083.8 R23 .0118 R13 -.9986
SG1 5048.0 SG2 602.0 THA 76.68

ORBIT DETERMINATION ACCURACY

ST 828.5 SR 1706.7 SS 946.1
CRT .8169 CRS .9912 CST .8861
LSA 2073.2 MSA 442.9 SSA 3.8
EL1 1845.0 EL2 442.1 ALF 66.97

LAUNCH DATE SEP 19 1965 FLIGHT TIME 172.00 ARRIVAL DATE MAR 10 1966

HELIOCENTRIC CONIC DISTANCE 460.551

RL 150.27 LAL .00 LOL 355.85 VL 27.335 GAL 4.41 AZL 98.95 HCA 199.50 SMA 130.22 ECC .17166 INC 8.9503 V1 29.652
RP 107.89 LAP 2.98 LOP 195.13 VP 37.963 GAP -.40 AZP 81.56 TAL 157.81 TAP 357.30 RCA 107.87 APO 152.58 V2 35.126
RC 70.553 GL -48.50 GP 70.90 ZAL 62.90 ZAP 86.12 ETS 341.66 ZAE 115.99 ETE 93.17 ZAC 59.84 ETC 226.96 CLP -78.08

PLANETOCENTRIC CONIC

C3 32.057 VHL 5.662 DLA -63.02 RAL 337.62 RAD 6568.3 VEL 12.387 PTH 2.24 VHP 7.029 DPA 47.11 RAP 287.32 ECC 1.5276

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
31.02	11 3 41	1858.18	32.59	56.78	228.62	147.42	11 34 39	1258.2	39.21	51.65
148.98	20 54 48	5446.81	32.60	253.62	228.63	147.42	22 25 35	4846.8	39.22	248.49
31.02	11 3 41	1858.18	32.59	56.78	228.62	147.42	11 34 39	1258.2	39.21	51.65
148.98	20 54 48	5446.81	32.60	253.62	228.63	147.42	22 25 35	4846.8	39.22	248.49
31.02	11 3 41	1858.18	32.59	56.78	228.62	147.42	11 34 39	1258.2	39.21	51.65
148.98	20 54 48	5446.81	32.60	253.62	228.63	147.42	22 25 35	4846.8	39.22	248.49

DIFFERENTIAL CORRECTIONS

TDE -.5561 TRA -.1138 TC3 -.2161 BAU .3104
RDE -.7535 RRA-2.2011 RC3 .6912 FAU .02813
FDE .9082 FRA 1.9506 FC3 -.7596 BSP 15956
BDE .9365 BRA 2.2040 BC3 .7242 FSP -1264

MID-COURSE EXECUTION ACCURACY

SGT 664.1 SGR 5030.4 SG3 391.4
RRT .4441 RRF -.9980 RTF -.4691
SGB 5074.0 R23 .0218 R13 -.9982
SG1 5039.1 SG2 593.9 THA 86.60

ORBIT DETERMINATION ACCURACY

ST 567.9 SR 1658.9 SS 969.7
CRT .5743 CRS .9908 CST .6797
LSA 1950.1 MSA 460.2 SSA 4.7
EL1 1693.2 EL2 455.5 ALF 77.99

LAUNCH DATE SEP 19 1965 FLIGHT TIME 174.00 ARRIVAL DATE MAR 12 1966

HELIOCENTRIC CONIC DISTANCE 466.910

RL 150.27 LAL .00 LOL 355.85 VL 27.342 GAL 4.44 AZL 97.49 HCA 202.68 SMA 130.27 ECC .17152 INC 7.4885 V1 29.652
RP 107.92 LAP 2.88 LOP 198.35 VP 37.956 GAP .05 AZP 83.08 TAL 157.63 TAP .31 RCA 107.92 APO 152.61 V2 35.114
RC 72.741 GL -43.94 GP 67.24 ZAL 59.58 ZAP 88.26 ETS 349.36 ZAE 118.85 ETE 100.37 ZAC 55.97 ETC 230.94 CLP -85.51

PLANETOCENTRIC CONIC

C3 26.209 VHL 5.119 DLA -58.69 RAL 334.23 RAD 6568.1 VEL 12.148 PTH 2.18 VHP 6.235 DPA 43.24 RAP 286.15 ECC 1.4313

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
36.18	11 2 58	1784.87	33.79	48.85	220.20	141.30	11 32 43	1184.9	39.87	42.76
143.82	20 28 29	5419.45	33.80	251.92	220.22	141.29	21 58 48	4819.4	39.88	245.82
36.18	11 2 58	1784.87	33.79	48.85	220.20	141.30	11 32 43	1184.9	39.87	42.76
143.82	20 28 29	5419.45	33.80	251.92	220.22	141.29	21 58 48	4819.4	39.88	245.82
36.18	11 2 58	1784.87	33.79	48.85	220.20	141.30	11 32 43	1184.9	39.87	42.76
143.82	20 28 29	5419.45	33.80	251.92	220.22	141.29	21 58 48	4819.4	39.88	245.82

DIFFERENTIAL CORRECTIONS
TDE -.3796 TRA .2009 TC3 -.3893 BAU .3485
RDE -.5851 RRA-2.2616 RC3 .9151 FAU .03675
FDE .9012 FRA 2.4625 FC3-1.2139 BSP 15891
BDE .6974 BRA 2.2705 BC3 .9945 FSP -1552

MID-COURSE EXECUTION ACCURACY
SGT 725.6 SGR 5003.0 SG3 478.6
RRT -.6067 RRF -.9979 RTF .5875
SGB 5055.3 R23 .0328 R13 -.9976
SG1 5022.6 SG2 574.5 THA 95.10

ORBIT DETERMINATION ACCURACY
ST 444.3 SR 1601.4 SS 1014.9
CRT .1239 CRS .9897 CST .2646
LSA 1893.5 MSA 454.9 SSA 5.5
EL1 1602.5 EL2 440.6 ALF 87.87

LAUNCH DATE SEP 19 1965 FLIGHT TIME 176.00 ARRIVAL DATE MAR 14 1966

HELIOCENTRIC CONIC DISTANCE 473.258

RL 150.27 LAL .00 LOL 355.85 VL 27.346 GAL 4.48 AZL 96.37 HCA 205.86 SMA 130.30 ECC .17161 INC 6.3709 V1 29.652
RP 107.96 LAP 2.77 LOP 201.57 VP 37.947 GAP .48 AZP 84.26 TAL 157.43 TAP 3.29 RCA 107.94 APO 152.65 V2 35.101
RC 74.954 GL -39.63 GP 63.74 ZAL 56.59 ZAP 90.97 ETS 355.93 ZAE 121.21 ETE 107.06 ZAC 52.24 ETC 234.13 CLP -92.19

PLANETOCENTRIC CONIC

C3 22.493 VHL 4.743 DLA -54.56 RAL 331.63 RAD 6567.9 VEL 11.995 PTH 2.14 VHP 5.664 DPA 39.59 RAP 284.86 ECC 1.3702

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
41.20	11 6 13	1719.75	33.87	41.19	213.07	135.71	11 34 52	1119.8	39.39	34.38
138.80	20 4 29	5409.53	33.89	250.85	213.09	135.70	21 34 38	4809.5	39.40	244.04
41.20	11 6 13	1719.75	33.87	41.19	213.07	135.71	11 34 52	1119.8	39.39	34.38
138.80	20 4 29	5409.53	33.89	250.85	213.09	135.70	21 34 38	4809.5	39.40	244.04
41.20	11 6 13	1719.75	33.87	41.19	213.07	135.71	11 34 52	1119.8	39.39	34.38
138.80	20 4 29	5409.53	33.89	250.85	213.09	135.70	21 34 38	4809.5	39.40	244.04

DIFFERENTIAL CORRECTIONS
TDE -.2581 TRA .5061 TC3 -.6111 BAU .3764
RDE -.4900 RRA-2.2758 RC3 1.0923 FAU .04480
FDE .9472 FRA 2.9924 FC3-1.7243 BSP 15785
BDE .5538 BRA 2.3314 BC3 1.2717 FSP -1837

MID-COURSE EXECUTION ACCURACY
SGT 1243.1 SGR 4889.6 SG3 565.6
RRT -.8911 RRF -.9977 RTF .8805
SGB 5045.1 R23 .0438 R13 -.9969
SG1 5015.0 SG2 550.0 THA 102.92

ORBIT DETERMINATION ACCURACY
ST 444.6 SR 1541.1 SS 1073.3
CRT -.3881 CRS .9881 CST -.2417
LSA 1879.5 MSA 438.0 SSA 6.3
EL1 1551.4 EL2 407.0 ALF 96.86

LAUNCH DATE SEP 19 1965 FLIGHT TIME 178.00 ARRIVAL DATE MAR 16 1966

HELIOCENTRIC CONIC DISTANCE 479.589

RL 150.27 LAL .00 LOL 355.85 VL 27.347 GAL 4.53 AZL 95.48 HCA 209.06 SMA 130.31 ECC .17191 INC 5.4844 V1 29.652
RP 108.00 LAP 2.66 LOP 204.79 VP 37.937 GAP .92 AZP 85.20 TAL 157.20 TAP 6.25 RCA 107.91 APO 152.71 V2 35.089
RC 77.191 GL -35.59 GP 60.35 ZAL 53.92 ZAP 94.13 ETS 1.66 ZAE 123.12 ETE 113.49 ZAC 48.59 ETC 236.82 CLP -98.38

PLANETOCENTRIC CONIC

C3 20.041 VHL 4.477 DLA -50.67 RAL 329.61 RAD 6567.8 VEL 11.892 PTH 2.11 VHP 5.248 DPA 36.07 RAP 283.52 ECC 1.3298

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
46.05	11 12 44	1659.38	33.19	33.91	207.17	130.76	11 40 23	1059.4	38.18	26.62
133.95	19 41 50	5414.39	33.20	250.61	207.19	130.75	21 12 4	4814.4	38.19	243.31
46.05	11 12 44	1659.38	33.19	33.91	207.17	130.76	11 40 23	1059.4	38.18	26.62
133.95	19 41 50	5414.39	33.20	250.61	207.19	130.75	21 12 4	4814.4	38.19	243.31
46.05	11 12 44	1659.38	33.19	33.91	207.17	130.76	11 40 23	1059.4	38.18	26.62
133.95	19 41 50	5414.39	33.20	250.61	207.19	130.75	21 12 4	4814.4	38.19	243.31

DIFFERENTIAL CORRECTIONS
TDE -.1588 TRA .8048 TC3 -.8657 BAU .4005
RDE -.4341 RRA-2.2461 RC3 1.2185 FAU .05220
FDE 1.0309 FRA 3.5057 FC3-2.2550 BSP 15746
BDE .4622 BRA 2.3859 BC3 1.4947 FSP -2114

MID-COURSE EXECUTION ACCURACY
SGT 1811.9 SGR 4697.6 SG3 646.1
RRT -.9520 RRF -.9974 RTF .9447
SGB 5035.0 R23 .0543 R13 -.9961
SG1 5008.0 SG2 520.4 THA 110.39

ORBIT DETERMINATION ACCURACY
ST 528.7 SR 1470.0 SS 1134.0
CRT -.7091 CRS .9859 CST -.5812
LSA 1884.9 MSA 416.4 SSA 7.1
EL1 1520.0 EL2 360.5 ALF 105.18

LAUNCH DATE SEP 19 1965 FLIGHT TIME 180.00 ARRIVAL DATE MAR 18 1966

HELIOCENTRIC CONIC DISTANCE 485.901

RL 150.27 LAL .00 LOL 355.85 VL 27.347 GAL 4.59 AZL 94.76 HCA 212.25 SMA 130.31 ECC .17243 INC 4.7602 V1 29.652
RP 108.04 LAP 2.54 LOP 208.01 VP 37.925 GAP 1.35 AZP 85.97 TAL 156.92 TAP 9.17 RCA 107.84 APO 152.78 V2 35.076
RC 79.446 GL -31.83 GP 57.01 ZAL 51.54 ZAP 97.66 ETS 6.66 ZAE 124.59 ETE 119.72 ZAC 45.01 ETC 239.08 CLP-104.17

PLANETOCENTRIC CONIC

C3 18.394 VHL 4.289 DLA -47.01 RAL 328.02 RAD 6567.7 VEL 11.823 PTH 2.09 VHP 4.947 DPA 32.65 RAP 282.18 ECC 1.3027

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
50.76	11 22 9	1600.97	32.00	26.99	202.37	126.48	11 48 50	1001.0	36.51	19.40
129.24	19 19 47	5432.28	32.02	251.26	202.39	126.47	20 50 20	4832.3	36.53	243.67
50.76	11 22 9	1600.97	32.00	26.99	202.37	126.48	11 48 50	1001.0	36.51	19.40
129.24	19 19 47	5432.28	32.02	251.26	202.39	126.47	20 50 20	4832.3	36.53	243.67
50.76	11 22 9	1600.97	32.00	26.99	202.37	126.48	11 48 50	1001.0	36.51	19.40
129.24	19 19 47	5432.28	32.02	251.26	202.39	126.47	20 50 20	4832.3	36.53	243.67

DIFFERENTIAL CORRECTIONS
TDE -.0673 TRA 1.0952 TC3-1.1376 BAU .4223
RDE -.3997 RRA-2.1845 RC3 1.2864 FAU .05852
FDE 1.1424 FRA 3.9820 FC3-2.7543 BSP 15747
BDE .4054 BRA 2.4436 BC3 1.7172 FSP -2364

MID-COURSE EXECUTION ACCURACY
SGT 2358.9 SGR 4452.1 SG3 716.6
RRT -.9724 RRF -.9970 RTF .9665
SGB 5038.5 R23 .0634 R13 -.9951
SG1 5014.7 SG2 488.5 THA 117.54

ORBIT DETERMINATION ACCURACY
ST 650.6 SR 1391.0 SS 1194.6
CRT -.8613 CRS .9832 CST -.7541
LSA 1905.3 MSA 394.1 SSA 7.9
EL1 1505.0 EL2 305.6 ALF 112.94

LAUNCH DATE SEP 19 1965 FLIGHT TIME 182.00 ARRIVAL DATE MAR 20 1966

HELIOCENTRIC CONIC DISTANCE 492.192

RL	150.27	LAL	.00	LOL	355.85	VL	27.345	GAL	4.67	AZL	94.15	HCA	215.45	SMA	130.29	ECC	.17318	INC	4.1541	VI	29.652
RP	108.08	LAP	2.41	LOP	211.22	VP	37.911	GAP	1.77	AZP	86.61	TAL	156.62	TAP	12.06	RCA	107.73	APO	152.86	V2	35.063
RC	81.719	GL	-28.35	GP	53.72	ZAL	49.42	ZAP	101.44	ETS	10.99	ZAE	125.65	ETE	125.69	ZAC	41.50	ETC	240.92	CLP	-109.59

PLANETOCENTRIC CONIC

C3	17.290	VHL	4.158	DLA	-43.60	RAL	326.78	RAD	6567.7	VEL	11.776	PTH	2.08	VHP	4.733	DPA	29.31	RAP	280.89	ECC	1.2845

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
55.35	11 34 24	1541.98	30.51	20.32	198.53	122.80	12 0 6	942.0	34.59	12.57
124.65	18 57 37	5462.47	30.52	252.84	198.54	122.79	20 28 39	4862.5	34.60	245.09
55.35	11 34 24	1541.98	30.51	20.32	198.53	122.80	12 0 6	942.0	34.59	12.57
124.65	18 57 37	5462.47	30.52	252.84	198.54	122.79	20 28 39	4862.5	34.60	245.09
55.35	11 34 24	1541.98	30.51	20.32	198.53	122.80	12 0 6	942.0	34.59	12.57
124.65	18 57 37	5462.47	30.52	252.84	198.54	122.79	20 28 39	4862.5	34.60	245.09

DIFFERENTIAL CORRECTIONS

TDE	.0234	TRA	1.3758	TC3	-1.4102	BAU	.4432
RDE	-.3758	RRA	-2.0999	RC3	1.2993	FAU	.06348
FDE	1.2704	FRA	4.4022	FC3	-3.1787	BSP	15800
BDE	.3765	BRA	2.5105	BC3	1.9175	FSP	-2574

MID-COURSE EXECUTION ACCURACY

SGT	2868.6	SGR	4171.2	SG3	773.8		
RRT	-.9814	RRF	-.9965	RTF	.9763		
SGB	5062.4	R23	.0702	R13	-.9941		
SG1	5041.9	SG2	455.8	THA	124.34		

ORBIT DETERMINATION ACCURACY

ST	786.8	SR	1306.1	SS	1252.8		
CRT	-.9334	CRS	.9799	CST	-.8433		
LSA	1937.8	MSA	373.1	SSA	8.7		
EL1	1504.9	EL2	245.1	ALF	120.23		

LAUNCH DATE SEP 19 1965 FLIGHT TIME 184.00 ARRIVAL DATE MAR 22 1966

HELIOCENTRIC CONIC DISTANCE 498.462

RL	150.27	LAL	.00	LOL	355.85	VL	27.341	GAL	4.76	AZL	93.64	HCA	218.64	SMA	130.26	ECC	.17413	INC	3.6366	VI	29.652
RP	108.12	LAP	2.27	LOP	214.43	VP	37.896	GAP	2.20	AZP	87.16	TAL	156.27	TAP	14.91	RCA	107.58	APO	152.95	V2	35.050
RC	84.008	GL	-25.12	GP	50.50	ZAL	47.53	ZAP	105.37	ETS	14.73	ZAE	126.32	ETE	131.36	ZAC	38.10	ETC	242.32	CLP	-114.63

PLANETOCENTRIC CONIC

C3	16.573	VHL	4.071	DLA	-40.41	RAL	325.80	RAD	6567.7	VEL	11.746	PTH	2.07	VHP	4.589	DPA	26.06	RAP	279.72	ECC	1.2728

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
59.87	11 49 39	1479.83	28.84	13.72	195.50	119.64	12 14 19	879.8	32.54	5.89
120.13	18 34 34	5505.14	28.85	255.40	195.50	119.63	20 6 20	4905.1	32.55	247.57
59.87	11 49 39	1479.83	28.84	13.72	195.50	119.64	12 14 19	879.8	32.54	5.89
120.13	18 34 34	5505.14	28.85	255.40	195.50	119.63	20 6 20	4905.1	32.55	247.57
59.87	11 49 39	1479.83	28.84	13.72	195.50	119.64	12 14 19	879.8	32.54	5.89
120.13	18 34 34	5505.14	28.85	255.40	195.50	119.63	20 6 20	4905.1	32.55	247.57

DIFFERENTIAL CORRECTIONS

TDE	.1158	TRA	1.6450	TC3	-1.6701	BAU	.4645
RDE	-.3548	RRA	-1.9986	RC3	1.2674	FAU	.06701
FDE	1.4021	FRA	4.7482	FC3	-3.5004	BSP	15927
BDE	.3732	BRA	2.5885	BC3	2.0565	FSP	-2738

MID-COURSE EXECUTION ACCURACY

SGT	3334.8	SGR	3868.1	SG3	815.3		
RRT	-.9859	RRF	-.9959	RTF	.9814		
SGB	5107.2	R23	.0737	R13	-.9931		
SG1	5089.6	SG2	424.0	THA	130.71		

ORBIT DETERMINATION ACCURACY

ST	927.5	SR	1216.0	SS	1305.2		
CRT	-.9696	CRS	.9760	CST	-.8932		
LSA	1979.1	MSA	354.3	SSA	9.4		
EL1	1518.5	EL2	181.6	ALF	127.11		

LAUNCH DATE SEP 19 1965 FLIGHT TIME 186.00 ARRIVAL DATE MAR 24 1966

HELIOCENTRIC CONIC DISTANCE 504.709

RL	150.27	LAL	.00	LOL	355.85	VL	27.336	GAL	4.87	AZL	93.19	HCA	221.84	SMA	130.23	ECC	.17531	INC	3.1870	VI	29.652
RP	108.16	LAP	2.13	LOP	217.64	VP	37.880	GAP	2.62	AZP	87.62	TAL	155.89	TAP	17.73	RCA	107.40	APO	153.06	V2	35.036
RC	86.309	GL	-22.14	GP	47.36	ZAL	45.84	ZAP	109.37	ETS	17.91	ZAE	126.63	ETE	136.64	ZAC	34.83	ETC	243.25	CLP	-119.32

PLANETOCENTRIC CONIC

C3	16.147	VHL	4.018	DLA	-37.45	RAL	325.04	RAD	6567.6	VEL	11.727	PTH	2.07	VHP	4.503	DPA	22.91	RAP	278.70	ECC	1.2657

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
64.40	12 8 21	1411.54	27.08	6.96	193.14	116.92	12 31 53	811.5	30.46	359.10
115.60	18 9 47	5561.51	27.09	259.03	193.15	116.90	19 42 29	4961.5	30.47	251.17
64.40	12 8 21	1411.54	27.08	6.96	193.14	116.92	12 31 53	811.5	30.46	359.10
115.60	18 9 47	5561.51	27.09	259.03	193.15	116.90	19 42 29	4961.5	30.47	251.17
64.40	12 8 21	1411.54	27.08	6.96	193.14	116.92	12 31 53	811.5	30.46	359.10
115.60	18 9 47	5561.51	27.09	259.03	193.15	116.90	19 42 29	4961.5	30.47	251.17

DIFFERENTIAL CORRECTIONS

TDE	.2134	TRA	1.9050	TC3	-1.9018	BAU	.4846
RDE	-.3367	RRA	-1.8908	RC3	1.1927	FAU	.06862
FDE	1.5366	FRA	5.0203	FC3	-3.6794	BSP	16058
BDE	.3986	BRA	2.6841	BC3	2.2448	FSP	-2835

MID-COURSE EXECUTION ACCURACY

SGT	3759.6	SGR	3561.1	SG3	841.4		
RRT	-.9882	RRF	-.9950	RTF	.9842		
SGB	5178.4	R23	.0740	R13	-.9922		
SG1	5163.1	SG2	397.8	THA	136.57		

ORBIT DETERMINATION ACCURACY

ST	1071.5	SR	1126.6	SS	1354.8		
CRT	-.9883	CRS	.9713	CST	-.9238		
LSA	2034.3	MSA	338.5	SSA	10.2		
EL1	1550.2	EL2	118.8	ALF	133.55		

LAUNCH DATE SEP 19 1965 FLIGHT TIME 188.00 ARRIVAL DATE MAR 26 1966

HELIOCENTRIC CONIC DISTANCE 510.931

RL	150.27	LAL	.00	LOL	355.85	VL	27.329	GAL	5.00	AZL	92.79	HCA	225.03	SMA	130.18	ECC	.17671	INC	2.7904	VI	29.652
RP	108.20	LAP	1.97	LOP	220.84	VP	37.863	GAP	3.04	AZP	88.03	TAL	155.47	TAP	20.50	RCA	107.17	APO	153.18	V2	35.023
RC	88.623	GL	-19.38	GP	44.34	ZAL	44.32	ZAP	113.36	ETS	20.62	ZAE	126.63	ETE	141.47	ZAC	31.73	ETC	243.64	CLP	-123.66

PLANETOCENTRIC CONIC

C3	15.948	VHL	3.993	DLA	-34.68	RAL	324.46	RAD	6567.6	VEL	11.719	PTH	2.06	VHP	4.465	DPA	19.88	RAP	277.86	ECC	1.2625

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
69.08	12 31 38	1332.46	25.30	359.68	191.36	114.56	12 53 50	732.5	28.39	351.83
110.92	17 41 51	5634.95	25.31	263.94	191.37	114.55	19 15 46	5034.9	28.40	256.09
69.08	12 31 38	1332.46	25.30	359.68	191.36	114.56	12 53 50	732.5	28.39	351.83
110.92	17 41 51	5634.95	25.31	263.94	191.37	114.55	19 15 46	5034.9	28.40	256.09
69.08	12 31 38	1332.46	25.30	359.68	191.36	114.56	12 53 50	732.5	28.39	351.83
110.92	17 41 51	5634.95	25.31	263.94	191.37	114.55	19 15 46	5034.9	28.40	256.09

DIFFERENTIAL CORRECTIONS

TDE	.3128	TRA	2.1525	TC3	-2.1046	BAU	.5065
RDE	-.3139	RRA	-1.7770	RC3	1.1020	FAU	.06912
FDE	1.6507	FRA	5.2030	FC3	-3.7524	BSP	16339
BDE	.4432	BRA	2.7913	BC3	2.3757	FSP	-2896

MID-COURSE EXECUTION ACCURACY

SGT	4139.1	SGR	3254.3	SG3	851.0		
RRT	-.9893	RRF	-.9937	RTF	.9860		
SGB	5265.3	R23	.0702	R13	-.9915		
SG1	5252.0	SG2	373.8	THA	141.90		

ORBIT DETERMINATION ACCURACY

ST	1213.9	SR	1033.8	SS	1392.9		
CRT	-.9973	CRS	.9651	CST	-.9438		
LSA	2092.0	MSA	325.0	SSA	10.9		
EL1	1593.4	EL2	57.8	ALF	139.59		

187A

LAUNCH DATE SEP 19 1965 FLIGHT TIME 190.00 ARRIVAL DATE MAR 28 1966

HELIOCENTRIC CONIC DISTANCE 517.129

RL 150.27 LAL .00 LOL 355.85 VL 27.320 GAL 5.13 AZL 92.44 HCA 228.22 SMA 130.12 ECC .17832 INC 2.4361 V1 29.652
RP 108.24 LAP 1.82 LOP 224.05 VP 37.844 GAP 3.46 AZP 88.38 TAL 155.02 TAP 23.24 RCA 106.91 APO 153.32 V2 35.010
RC 90.946 GL -16.84 GP 41.45 ZAL 42.95 ZAP 117.26 ETS 22.90 ZAE 126.38 ETE 145.82 ZAC 28.83 ETC 243.43 CLP-127.68

PLANETOCENTRIC CONIC

C3 15.935 VHL 3.992 DLA -32.11 RAL 324.02 RAD 6567.6 VEL 11.718 PTH 2.06 VHP 4.468 DPA 17.00 RAP 277.22 ECC 1.2623

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
74.18	13 1 51	1233.96	23.53	351.22	190.07	112.51	13 22 25	634.0	26.37	343.39
105.82	17 8 9	5733.09	23.54	270.69	190.07	112.50	18 43 42	5133.1	26.38	262.85
74.18	13 1 51	1233.96	23.53	351.22	190.07	112.51	13 22 25	634.0	26.37	343.39
105.82	17 8 9	5733.09	23.54	270.69	190.07	112.50	18 43 42	5133.1	26.38	262.85
110.00	16 4 58	640.90	16.22	303.92	186.19	120.51	16 15 39	40.9	20.15	297.00
110.00	19 4 12	5374.15	31.29	246.01	192.99	104.52	20 33 46	4774.1	32.97	237.19

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE .4156 TRA 2.3908 TC3-2.2719 BAU .5287 SGT 4478.8 SGR 2960.6 SG3 846.6 ST 1355.0 SR 942.8 SS 1422.7
RDE -.2890 RRA-1.6647 RC3 .9984 FAU .06833 RRT -.9896 RRF -.9921 RTF .9871 CRT -.9999 CRS .9574 CST -.9574
FDE 1.7473 FRA 5.3088 FC3-3.7123 BSP 16688 SGB 5368.9 R23 .0630 R13 -.9908 LSA 2156.4 MSA 314.3 SSA 11.5
BDE .5062 BRA 2.9132 BC3 2.4816 FSP -2909 SG1 5357.0 SG2 356.1 THA 146.64 EL1 1650.7 EL2 11.5 ALF 145.17

LAUNCH DATE SEP 19 1965 FLIGHT TIME 192.00 ARRIVAL DATE MAR 30 1966

HELIOCENTRIC CONIC DISTANCE 523.302

RL 150.27 LAL .00 LOL 355.85 VL 27.310 GAL 5.29 AZL 92.12 HCA 231.41 SMA 130.05 ECC .18017 INC 2.1155 V1 29.652
RP 108.29 LAP 1.65 LOP 227.24 VP 37.825 GAP 3.88 AZP 88.68 TAL 154.53 TAP 25.94 RCA 106.62 APO 153.48 V2 34.996
RC 93.279 GL -14.50 GP 38.73 ZAL 41.71 ZAP 121.04 ETS 24.83 ZAE 125.94 ETE 149.69 ZAC 26.18 ETC 242.55 CLP-131.38

PLANETOCENTRIC CONIC

C3 16.083 VHL 4.010 DLA -29.72 RAL 323.71 RAD 6567.6 VEL 11.725 PTH 2.07 VHP 4.506 DPA 14.29 RAP 276.79 ECC 1.2647

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
80.58	13 46 45	1090.12	21.81	339.68	189.18	110.71	14 4 55	490.1	24.43	331.88
99.42	16 20 46	5881.12	21.82	281.06	189.19	110.69	17 58 47	5281.1	24.44	273.26
100.00	15 58 8	665.39	19.75	307.64	188.30	112.91	16 9 14	65.4	22.68	300.07
100.00	16 52 4	5781.08	23.91	274.44	190.00	108.49	18 28 25	5181.1	26.21	266.40
110.00	15 22 29	777.88	11.34	311.53	183.73	122.47	15 35 27	177.9	15.54	304.95
110.00	19 44 12	5241.35	33.13	236.10	192.56	98.93	21 11 34	4641.4	34.01	226.97

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE .5220 TRA 2.6215 TC3-2.4008 BAU .5505 SGT 4781.6 SGR 2685.8 SG3 830.6 ST 1494.5 SR 855.6 SS 1444.8
RDE -.2627 RRA-1.5574 RC3 .8892 FAU .06638 RRT -.9891 RRF -.9901 RTF .9878 CRT -.9976 CRS .9476 CST -.9672
FDE 1.8253 FRA 5.3477 FC3-3.5732 BSP 17076 SGB 5484.3 R23 .0537 R13 -.9903 LSA 2227.0 MSA 305.9 SSA 12.0
BDE .5844 BRA 3.0492 BC3 2.5602 FSP -2878 SG1 5473.4 SG2 345.3 THA 150.82 EL1 1721.3 EL2 51.9 ALF 150.24

LAUNCH DATE SEP 19 1965 FLIGHT TIME 194.00 ARRIVAL DATE APR 1 1966

HELIOCENTRIC CONIC DISTANCE 529.447

RL 150.27 LAL .00 LOL 355.85 VL 27.299 GAL 5.46 AZL 91.82 HCA 234.60 SMA 129.97 ECC .18224 INC 1.8226 V1 29.652
RP 108.33 LAP 1.49 LOP 230.44 VP 37.805 GAP 4.30 AZP 88.94 TAL 154.00 TAP 28.61 RCA 106.29 APO 153.66 V2 34.983
RC 95.621 GL -12.33 GP 36.19 ZAL 40.57 ZAP 124.66 ETS 26.48 ZAE 125.35 ETE 153.07 ZAC 23.78 ETC 240.91 CLP-134.81

PLANETOCENTRIC CONIC

C3 16.373 VHL 4.046 DLA -27.49 RAL 323.50 RAD 6567.7 VEL 11.737 PTH 2.07 VHP 4.574 DPA 11.74 RAP 276.58 ECC 1.2695

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	14 2 58	1041.10	15.78	333.48	186.85	113.82	14 20 19	441.1	18.86	326.17
90.00	16 2 55	650.26	24.66	308.32	190.12	104.38	16 13 45	50.3	26.39	300.08
100.00	14 43 59	908.54	12.68	322.23	185.32	117.30	14 59 8	308.5	16.24	315.24
100.00	18 4 35	5546.09	28.00	258.20	190.96	100.91	19 37 1	4946.1	29.22	249.61
110.00	14 53 1	880.16	7.55	317.03	182.27	123.44	15 7 42	280.2	11.89	310.63
110.00	20 12 2	5147.24	33.90	228.86	191.90	94.71	21 37 49	4547.2	34.18	219.63

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE .6316 TRA 2.8467 TC3-2.4930 BAU .5719 SGT 5051.6 SGR 2433.3 SG3 805.5 ST 1631.5 SR 773.3 SS 1459.0
RDE -.2350 RRA-1.4571 RC3 .7822 FAU .06360 RRT -.9879 RRF -.9874 RTF .9882 CRT -.9908 CRS .9352 CST -.9744
FDE 1.8829 FRA 5.3310 FC3-3.3627 BSP 17501 SGB 5607.1 R23 .0434 R13 -.9899 LSA 2301.9 MSA 299.4 SSA 12.4
BDE .6739 BRA 3.1980 BC3 2.6128 FSP -2813 SG1 5596.7 SG2 340.5 THA 154.45 EL1 1803.0 EL2 94.9 ALF 154.77

LAUNCH DATE SEP 19 1965 FLIGHT TIME 196.00 ARRIVAL DATE APR 3 1966

HELIOCENTRIC CONIC DISTANCE 535.566

RL 150.27 LAL .00 LOL 355.85 VL 27.287 GAL 5.64 AZL 91.55 HCA 237.79 SMA 129.89 ECC .18454 INC 1.5520 V1 29.652
RP 108.37 LAP 1.31 LOP 233.63 VP 37.784 GAP 4.73 AZP 89.17 TAL 153.44 TAP 31.24 RCA 105.92 APO 153.86 V2 34.970
RC 97.969 GL -10.34 GP 33.83 ZAL 39.53 ZAP 128.10 ETS 27.90 ZAE 124.66 ETE 156.01 ZAC 21.68 ETC 238.43 CLP-137.97

PLANETOCENTRIC CONIC

C3 16.796 VHL 4.098 DLA -25.42 RAL 323.39 RAD 6567.7 VEL 11.755 PTH 2.07 VHP 4.668 DPA 9.38 RAP 276.58 ECC 1.2764

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	13 10 17	1221.75	10.54	344.16	185.07	116.44	13 30 39	621.7	14.00	337.20
90.00	16 54 43	5769.34	26.99	274.41	190.58	98.91	18 30 52	5169.3	27.94	265.88
100.00	14 7 13	1037.90	8.54	329.60	184.01	118.76	14 24 31	437.9	12.31	322.84
100.00	18 40 27	5428.43	29.23	249.68	190.93	96.58	20 10 56	4828.4	29.83	240.92
110.00	14 30 11	965.89	4.31	321.55	181.42	123.94	14 46 17	365.9	8.74	315.26
110.00	20 33 59	5073.20	34.16	223.10	191.33	91.31	21 58 33	4473.2	33.97	213.86

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE .7469 TRA 3.0712 TC3-2.5427 BAU .5908 SGT 5294.6 SGR 2206.0 SG3 774.6 ST 1768.6 SR 698.2 SS 1469.4
RDE -.2080 RRA-1.3666 RC3 .6766 FAU .05983 RRT -.9859 RRF -.9841 RTF .9883 CRT -.9796 CRS .9198 CST -.9798
FDE 1.9277 FRA 5.2771 FC3-3.0838 BSP 17871 SGB 5735.7 R23 .0340 R13 -.9895 LSA 2384.9 MSA 294.4 SSA 12.8
BDE .7753 BRA 3.3615 BC3 2.6312 FSP -2709 SG1 5725.6 SG2 341.5 THA 157.58 EL1 1896.9 EL2 131.0 ALF 158.75

LAUNCH DATE SEP 19 1965 FLIGHT TIME 198.00 ARRIVAL DATE APR 5 1966

HELIOCENTRIC CONIC DISTANCE 541.655

RL 150.27 LAL .00 LOL 355.85 VL 27.274 GAL 5.85 AZL 91.30 HCA 240.98 SMA 129.80 ECC .18709 INC 1.3001 V1 29.652
RP 108.41 LAP 1.14 LOP 236.82 VP 37.762 GAP 5.15 AZP 89.37 TAL 152.85 TAP 33.83 RCA 105.51 APO 154.08 V2 34.957
RC 100.323 GL -8.50 GP 31.65 ZAL 38.57 ZAP 131.35 ETS 29.14 ZAE 123.93 ETE 158.55 ZAC 19.90 ETC 235.06 CLP-140.90

PLANETOCENTRIC CONIC

C3 17.347 VHL 4.165 DLA -23.48 RAL 323.36 RAD 6567.7 VEL 11.778 PTH 2.08 VHP 4.786 DPA 7.21 RAP 276.77 ECC 1.2855

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 37 43	1341.57	6.83	351.01	184.26	117.55	13 0 4	741.6	10.47	344.22
90.00	17 27 2	5664.39	27.87	266.86	190.70	95.23	19 1 26	5064.4	28.30	258.22
100.00	13 40 32	1138.79	5.19	335.22	183.36	119.48	13 59 31	538.8	9.08	328.59
100.00	19 6 54	5342.40	29.73	243.33	190.85	93.28	20 35 56	4742.4	29.87	234.53
110.00	14 11 35	1041.44	1.43	325.50	181.03	124.16	14 28 56	441.4	5.90	319.27
110.00	20 52 20	5012.53	34.15	218.36	190.94	88.51	22 15 53	4412.5	33.57	209.16

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE .8621 TRA 3.2906 TC3-2.5670 BAU .6105 SGT 5508.1 SGR 2000.4 SG3 738.6 ST 1898.2 SR 627.8 SS 1469.6
RDE -.1788 RRA-1.2832 RC3 .5846 FAU .05602 RRT -.9831 RRF -.9800 RTF .9884 CRT -.9631 CRS .8997 CST -.9839
FDE 1.9483 FRA 5.1844 FC3-2.7957 BSP 18334 SGB 5860.1 R23 .0249 R13 -.9891 LSA 2164.2 MSA 290.6 SSA 13.0
BDE .8805 BRA 3.5320 BC3 2.6327 FSP -2602 SG1 5849.9 SG2 345.0 THA 160.28 EL1 1992.8 EL2 161.0 ALF 162.21

LAUNCH DATE SEP 19 1965 FLIGHT TIME 200.00 ARRIVAL DATE APR 7 1966

HELIOCENTRIC CONIC DISTANCE 547.715

RL 150.27 LAL .00 LOL 355.85 VL 27.260 GAL 6.07 AZL 91.06 HCA 244.16 SMA 129.70 ECC .18989 INC 1.0634 V1 29.652
RP 108.44 LAP .96 LOP 240.01 VP 37.740 GAP 5.58 AZP 89.54 TAL 152.23 TAP 36.39 RCA 105.07 APO 154.33 V2 34.945
RC 102.682 GL -6.81 GP 29.66 ZAL 37.68 ZAP 134.40 ETS 30.27 ZAE 123.16 ETE 160.73 ZAC 18.45 ETC 230.77 CLP-143.63

PLANETOCENTRIC CONIC

C3 18.023 VHL 4.245 DLA -21.68 RAL 323.40 RAD 6567.7 VEL 11.807 PTH 2.09 VHP 4.925 DPA 5.21 RAP 277.16 ECC 1.2966

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 13 11	1438.45	3.75	356.46	183.96	118.09	12 37 9	838.5	7.48	349.77
90.00	17 51 52	5585.30	28.23	261.10	190.83	92.36	19 24 57	4985.3	28.26	252.44
100.00	13 19 24	1224.73	2.29	339.95	183.16	119.81	13 39 49	624.7	6.24	333.39
100.00	19 28 20	5274.25	29.89	238.27	190.88	90.62	20 56 14	4674.3	29.65	229.47
110.00	13 56 1	1109.94	-1.19	329.08	180.98	124.16	14 14 31	509.9	3.30	322.87
110.00	21 8 12	4961.81	33.99	214.41	190.75	86.17	22 30 54	4361.8	33.09	205.28

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE .9809 TRA 3.5104 TC3-2.5609 BAU .6288 SGT 5698.5 SGR 1817.7 SG3 700.2 ST 2023.9 SR 564.3 SS 1464.9
RDE -.1500 RRA-1.2087 RC3 .5017 FAU .05192 RRT -.9793 RRF -.9751 RTF .9883 CRT -.9406 CRS .8743 CST -.9871
FDE 1.9554 FRA 5.0706 FC3-2.4940 BSP 18780 SGB 5981.4 R23 .0173 R13 -.9888 LSA 2545.1 MSA 287.6 SSA 13.2
BDE .9923 BRA 3.7127 BC3 2.6095 FSP -2481 SG1 5971.1 SG2 351.0 THA 162.59 EL1 2092.9 EL2 185.3 ALF 165.19

LAUNCH DATE SEP 19 1965 FLIGHT TIME 202.00 ARRIVAL DATE APR 9 1966

HELIOCENTRIC CONIC DISTANCE 553.742

RL 150.27 LAL .00 LOL 355.85 VL 27.245 GAL 6.31 AZL 90.84 HCA 247.35 SMA 129.59 ECC .19296 INC .8392 V1 29.652
RP 108.48 LAP .77 LOP 243.19 VP 37.718 GAP 6.02 AZP 89.68 TAL 151.58 TAP 38.93 RCA 104.59 APO 154.60 V2 34.932
RC 105.043 GL -5.25 GP 27.83 ZAL 36.84 ZAP 137.27 ETS 31.30 ZAE 122.40 ETE 162.59 ZAC 17.37 ETC 225.65 CLP-146.16

PLANETOCENTRIC CONIC

C3 18.828 VHL 4.339 DLA -20.00 RAL 323.50 RAD 6567.8 VEL 11.841 PTH 2.10 VHP 5.084 DPA 3.38 RAP 277.73 ECC 1.3099

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 53 25	1522.26	1.05	1.15	184.04	118.30	12 18 48	922.3	4.83	354.50
90.00	18 12 24	5521.96	28.32	256.47	191.09	90.04	19 44 26	4922.0	28.02	247.82
100.00	13 1 58	1301.07	-.29	344.14	183.30	119.89	13 23 39	701.1	3.69	337.61
100.00	19 46 33	5218.38	29.86	234.12	191.06	88.43	21 13 31	4618.4	29.32	225.36
110.00	13 42 46	1173.20	-3.61	332.38	181.23	124.02	14 2 19	573.2	.88	326.17
110.00	21 22 14	4919.01	33.75	211.09	190.77	84.22	22 44 13	4319.0	32.58	202.05

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE 1.1028 TRA 3.7318 TC3-2.5294 BAU .6458 SGT 5868.3 SGR 1656.1 SG3 661.0 ST 2144.7 SR 507.9 SS 1455.6
RDE -.1216 RRA-1.1427 RC3 .4287 FAU .04775 RRT -.9745 RRF -.9691 RTF .9882 CRT -.9111 CRS .8426 CST -.9896
FDE 1.9510 FRA 4.9435 FC3-2.1954 BSP 19221 SGB 6097.5 R23 .0110 R13 -.9885 LSA 2625.9 MSA 285.2 SSA 13.3
BDE 1.1095 BRA 3.9028 BC3 2.5654 FSP -2354 SG1 6087.0 SG2 358.1 THA 164.57 EL1 2194.5 EL2 204.6 ALF 167.72

LAUNCH DATE SEP 19 1965 FLIGHT TIME 204.00 ARRIVAL DATE APR 11 1966

HELIOCENTRIC CONIC DISTANCE 559.737

RL 150.27 LAL .00 LOL 355.85 VL 27.229 GAL 6.57 AZL 90.63 HCA 250.53 SMA 129.48 ECC .19631 INC .6254 V1 29.652
RP 108.52 LAP .59 LOP 246.37 VP 37.695 GAP 6.46 AZP 89.79 TAL 150.90 TAP 41.43 RCA 104.06 APO 154.90 V2 34.920
RC 107.406 GL -3.81 GP 26.17 ZAL 36.05 ZAP 139.95 ETS 32.30 ZAE 121.65 ETE 164.19 ZAC 16.67 ETC 219.87 CLP-148.53

PLANETOCENTRIC CONIC

C3 19.766 VHL 4.446 DLA -18.44 RAL 323.65 RAD 6567.8 VEL 11.881 PTH 2.11 VHP 5.260 DPA 1.72 RAP 278.46 ECC 1.3253

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 36 58	1597.37	-1.37	5.34	184.42	118.29	12 3 35	997.4	2.42	358.71
90.00	18 30 4	5469.83	28.26	252.66	191.48	88.13	20 1 13	4869.8	27.70	244.04
100.00	12 47 14	1370.62	-2.65	347.96	183.71	119.79	13 10 5	770.6	1.33	341.44
100.00	20 2 29	5171.82	29.72	230.66	191.41	86.62	21 28 40	4571.8	28.93	221.95
110.00	13 31 21	1232.39	-5.85	335.49	181.72	123.74	13 51 53	632.4	-1.38	329.26
110.00	21 34 51	4882.81	33.47	208.30	190.99	82.60	22 56 14	4282.8	32.08	199.34

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE 1.2285 TRA 3.9565 TC3-2.4748 BAU .6610 SGT 6019.6 SGR 1513.5 SG3 621.8 ST 2260.7 SR 458.4 SS 1443.1
RDE -.0941 RRA-1.0846 RC3 .3650 FAU .04355 RRT -.9686 RRF -.9620 RTF .9879 CRT -.8735 CRS .8035 CST -.9916
FDE 1.9382 FRA 4.8093 FC3-1.9073 BSP 19638 SGB 6207.0 R23 .0062 R13 -.9881 LSA 2706.1 MSA 283.1 SSA 13.4
BDE 1.2320 BRA 4.1024 BC3 2.5015 FSP -2224 SG1 6196.2 SG2 365.5 THA 166.26 EL1 2296.2 EL2 219.7 ALF 169.86

LAUNCH DATE SEP 19 1965 FLIGHT TIME 206.00 ARRIVAL DATE APR 13 1966

HELIOCENTRIC CONIC DISTANCE 565.696

RL 150.27 LAL .00 LOL 355.85 VL 27.212 GAL 6.86 AZL 90.42 HCA 253.71 SMA 129.37 ECC .19995 INC .4199 VI 29.652
RP 108.56 LAP .40 LOP 249.55 VP 37.672 GAP 6.91 AZP 89.88 TAL 150.20 TAP 43.91 RCA 103.50 APO 155.24 V2 34.909
RC 109.770 GL -2.49 GP 24.66 ZAL 35.31 ZAP 142.46 ETS 33.27 ZAE 120.93 ETE 165.55 ZAC 16.36 ETC 213.74 CLP-150.75

PLANETOCENTRIC CONIC

C3 20.845 VHL 4.566 DLA -16.98 RAL 323.84 RAD 6567.8 VEL 11.926 PTH 2.12 VHP 5.453 DPA .22 RAP 279.34 ECC 1.3430

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 22 58	1666.18	-3.59	9.18	185.04	118.11	11 50 44	1066.2	.20	2.55
90.00	18 45 38	5426.38	28.12	249.49	192.04	86.55	20 16 4	4826.4	27.35	240.91
100.00	12 34 36	1435.04	-4.82	351.51	184.36	119.54	12 58 31	835.0	-.85	344.97
100.00	20 16 41	5132.76	29.53	227.78	191.92	85.11	21 42 14	4532.8	28.54	219.11
110.00	13 21 26	1288.31	-7.96	338.45	182.43	123.35	13 42 54	688.3	-3.51	332.18
110.00	21 46 20	4852.25	33.18	205.96	191.41	81.24	23 7 13	4252.3	31.61	197.09

DIFFERENTIAL CORRECTIONS
TDE 1.3605 TRA 4.1889 TC3-2.3958 BAU .6732
RDE -.0681 RRA-1.0343 RC3 .3082 FAU .03923
FDE 1.9227 FRA 4.6772 FC3-1.6294 BSP 19969
BDE 1.3622 BRA 4.3147 BC3 2.4156 FSP -2086

MID-COURSE EXECUTION ACCURACY
SGT 6157.3 SGR 1388.7 SG3 584.1
RRT -.9615 RRF -.9538 RTF .9876
SGB 6311.9 R23 .0028 R13 -.9877
SG1 6300.9 SG2 372.9 THA 167.72

ORBIT DETERMINATION ACCURACY
ST 2374.5 SR 416.1 SS 1430.2
CRT -.8277 CRS .7571 CST -.9932
LSA 2788.8 MSA 281.0 SSA 13.4
EL1 2399.6 EL2 231.1 ALF 171.67

LAUNCH DATE SEP 19 1965 FLIGHT TIME 208.00 ARRIVAL DATE APR 15 1966

HELIOCENTRIC CONIC DISTANCE 571.617

RL 150.27 LAL .00 LOL 355.85 VL 27.194 GAL 7.16 AZL 90.22 HCA 256.88 SMA 129.25 ECC .20391 INC .2210 VI 29.652
RP 108.59 LAP .22 LOP 252.73 VP 37.649 GAP 7.37 AZP 89.95 TAL 149.48 TAP 46.36 RCA 102.89 APO 155.60 V2 34.897
RC 112.133 GL -1.27 GP 23.29 ZAL 34.60 ZAP 144.81 ETS 34.27 ZAE 120.24 ETE 166.71 ZAC 16.42 ETC 207.58 CLP-152.84

PLANETOCENTRIC CONIC

C3 22.074 VHL 4.698 DLA -15.62 RAL 324.08 RAD 6567.9 VEL 11.977 PTH 2.13 VHP 5.663 DPA -1.14 RAP 280.36 ECC 1.3633

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 10 53	1730.16	-5.63	12.77	185.87	117.80	11 39 43	1130.2	-1.87	6.12
90.00	18 59 36	5390.01	27.95	246.85	192.74	85.23	20 29 26	4790.0	26.99	238.31
100.00	12 23 38	1495.43	-6.84	354.86	185.22	119.17	12 48 33	895.4	-2.90	348.29
100.00	20 29 32	5099.97	29.31	225.36	192.59	83.86	21 54 32	4500.0	28.15	216.75
110.00	13 12 45	1341.53	-9.94	341.30	183.33	122.88	13 35 7	741.5	-5.54	334.98
110.00	21 56 54	4826.64	32.89	204.02	192.00	80.12	23 17 20	4226.6	31.18	195.21

DIFFERENTIAL CORRECTIONS
TDE 1.4932 TRA 4.4243 TC3-2.3077 BAU .6854
RDE -.0419 RRA -.9895 RC3 .2615 FAU .03532
FDE 1.8972 FRA 4.5419 FC3-1.3851 BSP 20349
BDE 1.4938 BRA 4.5336 BC3 2.3225 FSP -1962

MID-COURSE EXECUTION ACCURACY
SGT 6277.3 SGR 1277.9 SG3 547.3
RRT -.9531 RRF -.9444 RTF .9873
SGB 6406.0 R23 -.0002 R13 -.9873
SG1 6394.8 SG2 379.5 THA 168.98

ORBIT DETERMINATION ACCURACY
ST 2478.9 SR 379.4 SS 1412.2
CRT -.7712 CRS .7005 CST -.9945
LSA 2864.5 MSA 279.0 SSA 13.4
EL1 2496.3 EL2 239.9 ALF 173.20

LAUNCH DATE SEP 19 1965 FLIGHT TIME 210.00 ARRIVAL DATE APR 17 1966

HELIOCENTRIC CONIC DISTANCE 577.498

RL 150.27 LAL .00 LOL 355.85 VL 27.176 GAL 7.49 AZL 90.03 HCA 260.06 SMA 129.13 ECC .20821 INC .0242 VI 29.652
RP 108.63 LAP .03 LOP 255.91 VP 37.626 GAP 7.84 AZP 90.00 TAL 148.73 TAP 48.79 RCA 102.24 APO 156.01 V2 34.886
RC 114.493 GL -.16 GP 22.04 ZAL 33.92 ZAP 147.01 ETS 35.30 ZAE 119.59 ETE 167.72 ZAC 16.82 ETC 201.74 CLP-154.81

PLANETOCENTRIC CONIC

C3 23.467 VHL 4.844 DLA -14.35 RAL 324.35 RAD 6568.0 VEL 12.035 PTH 2.15 VHP 5.888 DPA -2.36 RAP 281.50 ECC 1.3862

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 0 21	1790.32	-7.53	16.18	186.89	117.38	11 30 12	1190.3	-3.80	9.48
90.00	19 12 17	5359.62	27.75	244.64	193.59	84.14	20 41 36	4759.6	26.65	236.15
100.00	12 14 2	1552.58	-8.72	358.06	186.25	118.71	12 39 55	952.6	-4.82	351.44
100.00	20 41 17	5072.59	29.10	223.36	193.41	82.82	22 5 49	4472.6	27.80	214.79
110.00	13 5 9	1392.51	-11.81	344.07	184.40	122.31	13 28 21	792.5	-7.46	337.67
110.00	22 6 40	4805.43	32.63	202.42	192.76	79.21	23 26 45	4205.4	30.80	193.68

DIFFERENTIAL CORRECTIONS
TDE 1.6307 TRA 4.6674 TC3-2.2059 BAU .6955
RDE -.0168 RRA -.9504 RC3 .2214 FAU .03154
FDE 1.8694 FRA 4.4110 FC3-1.1634 BSP 20698
BDE 1.6308 BRA 4.7631 BC3 2.2169 FSP -1841

MID-COURSE EXECUTION ACCURACY
SGT 6384.0 SGR 1180.1 SG3 512.3
RRT -.9435 RRF -.9338 RTF .9869
SGB 6492.1 R23 -.0024 R13 -.9869
SG1 6480.7 SG2 385.3 THA 170.07

ORBIT DETERMINATION ACCURACY
ST 2578.0 SR 348.7 SS 1393.3
CRT -.7049 CRS .6351 CST -.9955
LSA 2938.0 MSA 276.9 SSA 13.4
EL1 2589.8 EL2 246.2 ALF 174.50

LAUNCH DATE SEP 19 1965 FLIGHT TIME 212.00 ARRIVAL DATE APR 19 1966

HELIOCENTRIC CONIC DISTANCE 583.335

RL 150.27 LAL .00 LOL 355.85 VL 27.158 GAL 7.84 AZL 89.84 HCA 263.23 SMA 129.00 ECC .21286 INC .1612 VI 29.652
RP 108.66 LAP -.16 LOP 259.08 VP 37.603 GAP 8.33 AZP 90.02 TAL 147.97 TAP 51.20 RCA 101.54 APO 156.46 V2 34.875
RC 116.852 GL .87 GP 20.91 ZAL 33.27 ZAP 149.07 ETS 36.39 ZAE 118.97 ETE 168.58 ZAC 17.52 ETC 196.43 CLP-156.68

PLANETOCENTRIC CONIC

C3 25.040 VHL 5.004 DLA -13.17 RAL 324.65 RAD 6568.0 VEL 12.100 PTH 2.17 VHP 6.130 DPA -3.45 RAP 282.76 ECC 1.4121

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 51 8	1847.37	-9.30	19.43	188.07	116.87	11 21 55	1247.4	-5.62	12.68
90.00	19 23 53	5334.41	27.57	242.82	194.57	83.25	20 52 48	4734.4	26.34	234.37
100.00	12 5 37	1607.02	-10.49	1.13	187.44	118.15	12 32 24	1007.0	-6.64	354.46
100.00	20 52 5	5049.98	28.89	221.71	194.38	81.98	22 16 15	4450.0	27.48	213.19
110.00	12 58 26	1441.58	-13.58	346.76	185.62	121.68	13 22 28	841.6	-9.29	340.29
110.00	22 15 45	4788.19	32.41	201.12	193.67	78.48	23 35 33	4188.2	30.48	192.44

DIFFERENTIAL CORRECTIONS
TDE 1.7725 TRA 4.9191 TC3-2.0941 BAU .7038
RDE .0076 RRA -.9161 RC3 .1871 FAU .02795
FDE 1.8393 FRA 4.2858 FC3 -.9665 BSP 21034
BDE 1.7725 BRA 5.0037 BC3 2.1024 FSP -1726

MID-COURSE EXECUTION ACCURACY
SGT 6478.5 SGR 1093.5 SG3 479.3
RRT -.9325 RRF -.9219 RTF .9866
SGB 6570.1 R23 -.0040 R13 -.9866
SG1 6558.5 SG2 390.0 THA 171.02

ORBIT DETERMINATION ACCURACY
ST 2671.0 SR 323.4 SS 1373.2
CRT -.6292 CRS .5611 CST -.9963
LSA 3008.1 MSA 274.6 SSA 13.4
EL1 2678.8 EL2 250.6 ALF 175.61

LAUNCH DATE SEP 19 1965 FLIGHT TIME 214.00 ARRIVAL DATE APR 21 1966

HELIOCENTRIC CONIC DISTANCE 589.124

RL 150.27 LAL .00 LOL 355.85 VL 27.138 GAL 8.22 AZL 89.65 HCA 266.40 SMA 128.87 ECC .21791 INC .3486 V1 29.652
RP 108.69 LAP -.35 LOP 262.25 VP 37.579 GAP 8.83 AZP 90.02 TAL 147.19 TAP 53.59 RCA 100.79 APO 156.95 V2 34.865
RC 119.206 GL 1.81 GP 19.89 ZAL 32.65 ZAP 151.01 ETS 37.58 ZAE 118.39 ETE 169.32 ZAC 18.47 ETC 191.78 CLP-158.46

PLANETOCENTRIC CONIC

C3 26.813 VHL 5.178 DLA -12.06 RAL 324.97 RAD 6568.1 VEL 12.173 PTH 2.18 VHP 6.388 DPA -4.42 RAP 284.12 ECC 1.4413

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 42 59	1901.82	-10.96	22.57	189.40	116.27	11 14 41	1301.8	-7.34	15.76
90.00	19 34 36	5313.80	27.39	241.34	195.69	82.53	21 3 10	4713.8	26.07	232.92
100.00	11 58 11	1659.23	-12.15	4.12	188.78	117.52	12 25 50	1059.2	-8.37	357.37
100.00	21 2 6	5031.61	28.71	220.37	195.48	81.30	22 25 57	4431.6	27.21	211.89
110.00	12 52 32	1489.03	-15.26	349.42	186.99	120.97	13 17 21	889.0	-11.04	342.84
110.00	22 24 14	4774.58	32.22	200.11	194.73	77.90	23 43 49	4174.6	30.22	191.46

DIFFERENTIAL CORRECTIONS
TDE 1.9197 TRA 5.1821 TC3-1.9735 BAU .7097
RDE .0312 RRA -.8862 RC3 .1577 FAU .02454
FDE 1.8088 FRA 4.1684 FC3 -.7923 BSP 21324
BDE 1.9200 BRA 5.2573 BC3 1.9798 FSP -1616

MID-COURSE EXECUTION ACCURACY
SGT 6562.7 SGR 1016.5 SG3 448.3
RRT -.9203 RRF -.9089 RTF .9862
SGB 6640.9 R23 -.0051 R13 -.9862
SG1 6629.3 SG2 393.6 THA 171.86

ORBIT DETERMINATION ACCURACY
ST 2758.6 SR 302.8 SS 1353.0
CRT -.5459 CRS .4804 CST -.9970
LSA 3075.4 MSA 272.1 SSA 13.3
EL1 2763.6 EL2 253.3 ALF 176.54

LAUNCH DATE SEP 19 1965 FLIGHT TIME 216.00 ARRIVAL DATE APR 23 1966

HELIOCENTRIC CONIC DISTANCE 594.860

RL 150.27 LAL .00 LOL 355.85 VL 27.119 GAL 8.64 AZL 89.47 HCA 269.57 SMA 128.73 ECC .22338 INC .5343 V1 29.652
RP 108.72 LAP -.53 LOP 265.42 VP 37.556 GAP 9.34 AZP 90.00 TAL 146.40 TAP 55.97 RCA 99.98 APO 157.49 V2 34.856
RC 121.557 GL 2.67 GP 18.95 ZAL 32.05 ZAP 152.83 ETS 38.88 ZAE 117.85 ETE 169.96 ZAC 19.62 ETC 187.82 CLP-160.16

PLANETOCENTRIC CONIC

C3 28.809 VHL 5.367 DLA -11.04 RAL 325.31 RAD 6568.2 VEL 12.255 PTH 2.20 VHP 6.664 DPA -5.28 RAP 285.56 ECC 1.4741

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 35 48	1954.09	-12.52	25.62	190.86	115.61	11 8 22	1354.1	-8.97	18.74
90.00	19 44 32	5297.30	27.24	240.15	196.92	81.95	21 12 49	4697.3	25.84	231.76
100.00	11 51 36	1709.52	-13.71	7.04	190.26	116.82	12 20 6	1109.5	-10.00	.21
100.00	21 11 25	5017.11	28.56	219.32	196.70	80.77	22 35 2	4417.1	26.98	210.87
110.00	12 47 18	1535.08	-16.85	352.03	188.49	120.19	13 12 53	935.1	-12.72	345.37
110.00	22 32 12	4764.31	32.07	199.34	195.92	77.47	23 51 36	4164.3	30.01	190.73

DIFFERENTIAL CORRECTIONS
TDE 2.0755 TRA 5.4593 TC3-1.8435 BAU .7118
RDE .0537 RRA -.8602 RC3 .1318 FAU .02119
FDE 1.7810 FRA 4.0610 FC3 -.6368 BSP 21529
BDE 2.0762 BRA 5.5267 BC3 1.8482 FSP -1507

MID-COURSE EXECUTION ACCURACY
SGT 6639.1 SGR 947.9 SG3 419.6
RRT -.9069 RRF -.8948 RTF .9858
SGB 6706.5 R23 -.0058 R13 -.9858
SG1 6694.8 SG2 396.0 THA 172.60

ORBIT DETERMINATION ACCURACY
ST 2843.4 SR 286.5 SS 1334.3
CRT -.4581 CRS .3961 CST -.9976
LSA 3142.4 MSA 269.1 SSA 13.2
EL1 2846.4 EL2 254.4 ALF 177.34

LAUNCH DATE SEP 19 1965 FLIGHT TIME 218.00 ARRIVAL DATE APR 25 1966

HELIOCENTRIC CONIC DISTANCE 600.538

RL 150.27 LAL .00 LOL 355.85 VL 27.099 GAL 9.08 AZL 89.28 HCA 272.74 SMA 128.60 ECC .22930 INC .7198 V1 29.652
RP 108.75 LAP -.72 LOP 268.59 VP 37.533 GAP 9.88 AZP 89.97 TAL 145.60 TAP 58.34 RCA 99.11 APO 158.09 V2 34.846
RC 123.903 GL 3.46 GP 18.10 ZAL 31.48 ZAP 154.54 ETS 40.32 ZAE 117.33 ETE 170.52 ZAC 20.93 ETC 184.48 CLP-161.79

PLANETOCENTRIC CONIC

C3 31.056 VHL 5.573 DLA -10.08 RAL 325.67 RAD 6568.2 VEL 12.346 PTH 2.23 VHP 6.957 DPA -6.04 RAP 287.08 ECC 1.5111

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 29 25	2004.48	-13.98	28.60	192.45	114.88	11 2 49	1404.5	-10.51	21.64
90.00	19 53 46	5284.56	27.12	239.24	198.27	81.51	21 21 51	4684.6	25.66	230.88
100.00	11 45 46	1758.14	-15.18	9.89	191.86	116.06	12 15 4	1158.1	-11.56	2.98
100.00	21 20 6	5006.13	28.43	218.53	198.04	80.37	22 43 32	4406.1	26.81	210.10
110.00	12 42 41	1579.91	-18.37	354.62	190.11	119.35	13 9 1	979.9	-14.32	347.85
110.00	22 39 40	4757.12	31.96	198.81	197.23	77.17	23 58 57	4157.1	29.87	190.22

DIFFERENTIAL CORRECTIONS
TDE 2.2336 TRA 5.7459 TC3-1.7144 BAU .7133
RDE .0763 RRA -.8365 RC3 .1104 FAU .01820
FDE 1.7504 FRA 3.9583 FC3 -.5073 BSP 21790
BDE 2.2349 BRA 5.8065 BC3 1.7179 FSP -1411

MID-COURSE EXECUTION ACCURACY
SGT 6702.8 SGR 885.6 SG3 392.6
RRT -.8922 RRF -.8795 RTF .9856
SGB 6761.0 R23 -.0064 R13 -.9855
SG1 6749.3 SG2 397.2 THA 173.25

ORBIT DETERMINATION ACCURACY
ST 2918.4 SR 273.6 SS 1313.8
CRT -.3656 CRS .3076 CST -.9980
LSA 3201.1 MSA 266.0 SSA 13.1
EL1 2920.1 EL2 254.5 ALF 178.02

LAUNCH DATE SEP 19 1965 FLIGHT TIME 220.00 ARRIVAL DATE APR 27 1966

HELIOCENTRIC CONIC DISTANCE 606.151

RL 150.27 LAL .00 LOL 355.85 VL 27.078 GAL 9.55 AZL 89.09 HCA 275.91 SMA 128.46 ECC .23574 INC .9061 V1 29.652
RP 108.78 LAP -.90 LOP 271.75 VP 37.510 GAP 10.44 AZP 89.91 TAL 144.80 TAP 60.71 RCA 98.18 APO 158.74 V2 34.838
RC 126.245 GL 4.18 GP 17.33 ZAL 30.92 ZAP 156.15 ETS 41.92 ZAE 116.85 ETE 171.01 ZAC 22.36 ETC 181.72 CLP-163.36

PLANETOCENTRIC CONIC

C3 33.588 VHL 5.795 DLA -9.19 RAL 326.04 RAD 6568.3 VEL 12.448 PTH 2.25 VHP 7.270 DPA -6.69 RAP 288.67 ECC 1.5528

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 23 44	2053.25	-15.36	31.52	194.15	114.09	10 57 57	1453.3	-11.97	24.47
90.00	20 2 23	5275.25	27.02	238.58	199.73	81.19	21 30 18	4675.2	25.52	230.23
100.00	11 40 35	1805.33	-16.58	12.71	193.57	115.24	12 10 40	1205.3	-13.04	5.70
100.00	21 28 13	4998.40	28.34	217.97	199.48	80.09	22 51 31	4398.4	26.68	209.56
110.00	12 38 36	1623.68	-19.81	357.20	191.85	118.45	13 5 40	1023.7	-15.85	350.31
110.00	22 46 42	4752.82	31.89	198.49	198.65	77.00	24 5 54	4152.8	29.78	189.92

DIFFERENTIAL CORRECTIONS
TDE 2.3987 TRA 6.0475 TC3-1.5827 BAU .7119
RDE .0983 RRA -.8152 RC3 .0920 FAU .01537
FDE 1.7211 FRA 3.8643 FC3 -.3963 BSP 22023
BDE 2.4007 BRA 6.1022 BC3 1.5854 FSP -1321

MID-COURSE EXECUTION ACCURACY
SGT 6758.0 SGR 829.1 SG3 367.4
RRT -.8763 RRF -.8632 RTF .9853
SGB 6808.6 R23 -.0068 R13 -.9853
SG1 6797.1 SG2 397.2 THA 173.84

ORBIT DETERMINATION ACCURACY
ST 2988.0 SR 263.5 SS 1293.9
CRT -.2726 CRS .2192 CST -.9984
LSA 3256.2 MSA 262.4 SSA 13.0
EL1 2988.9 EL2 253.5 ALF 178.61

LAUNCH DATE SEP 20 1965 FLIGHT TIME 70.00 ARRIVAL DATE NOV 29 1965

HELIOCENTRIC CONIC DISTANCE 128.189

RL 150.23 LAL -.00 LOL 356.83 VL 15.341 GAL 27.62 AZL 94.14 HCA 35.10 SMA 86.66 ECC .79839 INC 4.1434 V1 29.660
RP 108.33 LAP -2.38 LOP 31.86 VP 30.312 GAP -51.55 AZP 93.39 TAL 172.12 TAP 207.22 RCA 17.47 APO 155.85 V2 34.983
RC 85.148 GL -3.16 GP -3.82 ZAL 64.79 ZAP 34.81 ETS 171.14 ZAE 133.28 ETE 178.88 ZAC 26.07 ETC 40.85 CLP 34.62

PLANETOCENTRIC CONIC

C3 317.767 VHL 17.826 DLA -24.75 RAL 294.41 RAD 6571.8 VEL 20.954 PTH 3.19 VHP 28.625 DPA -24.53 RAP 243.74 ECC 6.2296

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 58 35	1885.33	-10.46	21.62	193.27	116.46	11 30 0	1285.3	-6.82	14.83
90.00	15 7 18	1061.57	15.21	334.72	205.28	114.18	15 24 59	461.6	18.35	327.45
100.00	11 57 58	1693.63	-13.22	6.11	191.85	117.06	12 26 11	1093.6	-9.49	359.31
100.00	16 50 36	728.50	18.03	311.54	206.60	114.25	17 2 45	128.5	21.15	304.14
110.00	12 24 3	1611.84	-19.42	356.50	188.43	118.70	12 50 54	1011.8	-15.44	349.64
110.00	18 41 1	5671.11	24.41	266.33	209.72	114.70	20 15 32	5071.1	27.53	258.55

DIFFERENTIAL CORRECTIONS

TDE -.4135 TRA-1.9798 TC3 -.1126 BAU .4785
RDE-1.3821 RRA .3466 RC3 .0032 FAU .01127
FDE .1391 FRA .7222 FC3 -.0307 BSP 1924
BDE 1.4426 BRA 2.0099 BC3 .1126 FSP -49

MID-COURSE EXECUTION ACCURACY

SGT 818.4 SGR 461.0 SG3 24.3
RRT -.0836 RRF .0789 RTF -.6122
SGB 939.3 R23 -.0043 R13 .6128
SG1 819.7 SG2 458.6 THA 176.07

ORBIT DETERMINATION ACCURACY

ST 249.0 SR 445.7 SS 219.7
CRT .4622 CRS .4303 CST .9957
LSA 483.9 MSA 273.1 SSA 14.1
EL1 464.5 EL2 211.9 ALF 71.56

LAUNCH DATE SEP 20 1965 FLIGHT TIME 72.00 ARRIVAL DATE DEC 1 1965

HELIOCENTRIC CONIC DISTANCE 133.631

RL 150.23 LAL -.00 LOL 356.83 VL 16.131 GAL 26.35 AZL 93.62 HCA 38.29 SMA 88.09 ECC .77243 INC 3.6210 V1 29.660
RP 108.29 LAP -2.24 LOP 35.06 VP 30.734 GAP -49.27 AZP 92.84 TAL 171.28 TAP 209.56 RCA 20.05 APO 156.13 V2 34.996
RC 82.926 GL -3.07 GP -3.92 ZAL 63.40 ZAP 33.31 ETS 170.65 ZAE 133.17 ETE 179.19 ZAC 24.96 ETC 43.59 CLP 33.10

PLANETOCENTRIC CONIC

C3 291.161 VHL 17.063 DLA -24.43 RAL 295.90 RAD 6571.7 VEL 20.309 PTH 3.16 VHP 27.586 DPA -25.01 RAP 245.51 ECC 5.7918

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 59 0	1894.07	-10.72	22.12	193.92	116.36	11 30 34	1294.1	-7.10	15.32
90.00	15 18 46	1032.11	16.02	332.94	206.25	113.66	15 35 58	432.1	19.09	325.61
100.00	11 59 23	1699.13	-13.39	6.43	192.55	116.98	12 27 42	1099.1	-9.67	359.62
100.00	17 1 4	702.28	18.75	309.93	207.51	113.71	17 12 46	102.3	21.80	302.46
110.00	12 26 51	1612.99	-19.46	356.57	189.21	118.67	12 53 44	1013.0	-15.48	349.71
110.00	18 50 5	5649.23	25.03	264.92	210.50	114.08	20 24 14	5049.2	28.06	257.06

DIFFERENTIAL CORRECTIONS

TDE -.4344 TRA-1.9972 TC3 -.1205 BAU .4690
RDE-1.3345 RRA .3583 RC3 .0029 FAU .01129
FDE .1545 FRA .7501 FC3 -.0336 BSP 2057
BDE 1.4034 BRA 2.0291 BC3 .1205 FSP -53

MID-COURSE EXECUTION ACCURACY

SGT 856.0 SGR 467.3 SG3 26.3
RRT -.0902 RRF .0856 RTF -.6313
SGB 975.2 R23 -.0049 R13 .6319
SG1 857.5 SG2 464.6 THA 176.01

ORBIT DETERMINATION ACCURACY

ST 265.1 SR 449.8 SS 233.4
CRT .4747 CRS .4530 CST .9964
LSA 497.0 MSA 282.7 SSA 14.3
EL1 472.5 EL2 222.1 ALF 69.70

LAUNCH DATE SEP 20 1965 FLIGHT TIME 74.00 ARRIVAL DATE DEC 3 1965

HELIOCENTRIC CONIC DISTANCE 139.195

RL 150.23 LAL -.00 LOL 356.83 VL 16.873 GAL 25.17 AZL 93.17 HCA 41.47 SMA 89.54 ECC .74640 INC 3.1669 V1 29.660
RP 108.24 LAP -2.10 LOP 38.26 VP 31.145 GAP -47.12 AZP 92.37 TAL 170.43 TAP 211.91 RCA 22.71 APO 156.38 V2 35.010
RC 80.714 GL -2.96 GP -4.02 ZAL 62.05 ZAP 31.83 ETS 170.12 ZAE 133.13 ETE 179.54 ZAC 23.91 ETC 46.64 CLP 31.61

PLANETOCENTRIC CONIC

C3 266.923 VHL 16.338 DLA -24.08 RAL 297.32 RAD 6571.6 VEL 19.704 PTH 3.12 VHP 26.583 DPA -25.48 RAP 247.32 ECC 5.3929

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 59 6	1902.60	-10.98	22.62	194.47	116.26	11 30 49	1302.6	-7.36	15.81
90.00	15 30 3	1001.73	16.84	331.09	207.10	113.10	15 46 45	401.7	19.83	323.68
100.00	12 0 27	1704.56	-13.56	6.75	193.15	116.90	12 28 52	1104.6	-9.84	359.93
100.00	17 11 23	675.00	19.49	308.24	208.29	113.12	17 22 38	75.0	22.45	300.70
110.00	12 29 18	1614.10	-19.50	356.63	189.89	118.65	12 56 12	1014.1	-15.52	349.77
110.00	18 59 2	5626.27	25.66	263.44	211.16	113.40	20 32 48	5026.3	28.60	255.49

DIFFERENTIAL CORRECTIONS

TDE -.4570 TRA-2.0180 TC3 -.1289 BAU .4602
RDE-1.2866 RRA .3686 RC3 .0026 FAU .01131
FDE .1707 FRA .7789 FC3 -.0367 BSP 2134
BDE 1.3654 BRA 2.0514 BC3 .1290 FSP -58

MID-COURSE EXECUTION ACCURACY

SGT 896.7 SGR 473.0 SG3 28.3
RRT -.0966 RRF .0926 RTF -.6497
SGB 1013.8 R23 -.0061 R13 .6504
SG1 898.3 SG2 469.9 THA 175.98

ORBIT DETERMINATION ACCURACY

ST 282.7 SR 453.2 SS 247.9
CRT .4873 CRS .4741 CST .9968
LSA 511.3 MSA 291.8 SSA 14.6
EL1 480.8 EL2 232.7 ALF 67.57

LAUNCH DATE SEP 20 1965 FLIGHT TIME 76.00 ARRIVAL DATE DEC 5 1965

HELIOCENTRIC CONIC DISTANCE 144.874

RL 150.23 LAL -.00 LOL 356.83 VL 17.571 GAL 24.06 AZL 92.77 HCA 44.66 SMA 91.02 ECC .72046 INC 2.7665 V1 29.660
RP 108.20 LAP -1.94 LOP 41.46 VP 31.543 GAP -45.07 AZP 91.97 TAL 169.60 TAP 214.26 RCA 25.44 APO 156.60 V2 35.023
RC 78.516 GL -2.84 GP -4.13 ZAL 60.76 ZAP 30.38 ETS 169.53 ZAE 133.15 ETE 179.92 ZAC 22.93 ETC 50.03 CLP 30.13

PLANETOCENTRIC CONIC

C3 244.807 VHL 15.646 DLA -23.72 RAL 298.69 RAD 6571.4 VEL 19.134 PTH 3.09 VHP 25.613 DPA -25.94 RAP 249.17 ECC 5.0289

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 58 54	1910.86	-11.23	23.10	194.93	116.17	11 30 45	1310.9	-7.62	16.27
90.00	15 41 9	970.45	17.67	329.16	207.83	112.49	15 57 20	370.5	20.57	321.69
100.00	12 1 10	1709.85	-13.72	7.05	193.66	116.82	12 29 40	1109.8	-10.01	.23
100.00	17 21 34	646.69	20.24	306.47	208.95	112.48	17 32 21	46.7	23.11	298.85
110.00	12 31 23	1615.12	-19.53	356.69	190.48	118.63	12 58 18	1015.1	-15.56	349.83
110.00	19 7 51	5602.23	26.30	261.86	211.69	112.67	20 41 13	5002.2	29.13	253.82

DIFFERENTIAL CORRECTIONS

TDE -.4791 TRA-2.0400 TC3 -.1378 BAU .4511
RDE-1.2386 RRA .3777 RC3 .0020 FAU .01135
FDE .1873 FRA .8083 FC3 -.0401 BSP 2208
BDE 1.3281 BRA 2.0747 BC3 .1378 FSP -63

MID-COURSE EXECUTION ACCURACY

SGT 939.4 SGR 478.1 SG3 30.5
RRT -.1034 RRF .1001 RTF -.6675
SGB 1054.1 R23 -.0075 R13 .6681
SG1 941.2 SG2 474.7 THA 175.96

ORBIT DETERMINATION ACCURACY

ST 301.4 SR 455.8 SS 263.0
CRT .4984 CRS .4932 CST .9972
LSA 526.7 MSA 300.4 SSA 14.8
EL1 489.3 EL2 243.5 ALF 65.24

LAUNCH DATE SEP 20 1965 FLIGHT TIME 78.00 ARRIVAL DATE DEC 7 1965

HELIOCENTRIC CONIC DISTANCE 150.673

RL 150.23 LAL -.00 LOL 356.83 VL 18.226 GAL 23.02 AZL 92.41 HCA 47.86 SMA 92.51 ECC .69478 INC 2.4086 V1 29.660
RP 108.16 LAP -1.79 LOP 44.66 VP 31.928 GAP -43.14 AZP 91.62 TAL 168.77 TAP 216.63 RCA 28.24 APO 156.78 V2 35.036
RC 76.333 GL -2.70 GP -4.25 ZAL 59.50 ZAP 28.96 ETS 168.88 ZAE 133.25 ETE 180.34 ZAC 22.04 ETC 53.79 CLP 28.67

PLANETOCENTRIC CONIC

C3 224.674 VHL 14.989 DLA -23.33 RAL 300.00 RAD 6571.3 VEL 18.601 PTH 3.05 VHP 24.678 DPA -26.40 RAP 251.05 ECC 4.6976

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 58 24	1318.94	-11.47	23.57	195.31	116.07	11 30 23	1318.9	-7.88	16.73
90.00	15 52 7	938.24	18.50	327.16	208.44	111.83	16 7 45	338.2	21.30	319.61
100.00	12 1 33	1715.09	-13.88	7.36	194.09	116.74	12 30 8	1115.1	-10.18	.52
100.00	17 31 39	617.33	20.99	304.61	209.50	111.78	17 41 56	17.3	23.76	296.91
110.00	12 33 7	1616.11	-19.56	356.75	190.98	118.61	13 0 3	1016.1	-15.59	349.88
110.00	19 16 34	5577.11	26.95	260.20	212.11	111.87	20 49 31	4977.1	29.67	252.07

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.6269 TRA-2.1894 TC3 -.1695 BAU .5090 SGT 1070.6 SGR 482.2 SG3 33.3 ST 363.9 SR 456.8 SS 289.7
RDE-1.1884 RRA .3882 RC3 .0018 FAU .01068 RRT -.0797 RRF .0998 RTF -.6819 CRT .5750 CRS .5324 CST .9963
FDE .2201 FRA .8538 FC3 -.0412 BSP 755 SGB 1174.2 R23 -.0318 R13 .6827 LSA 575.4 MSA 306.1 SSA 15.8
BDE 1.3436 BRA 2.2235 BC3 .1695 FSP -36 SG1 1071.5 SG2 480.3 THA 177.43 EL1 523.0 EL2 260.1 ALF 55.88

LAUNCH DATE SEP 20 1965 FLIGHT TIME 80.00 ARRIVAL DATE DEC 9 1965

HELIOCENTRIC CONIC DISTANCE 156.547

RL 150.23 LAL -.00 LOL 356.83 VL 18.843 GAL 22.02 AZL 92.08 HCA 51.06 SMA 94.01 ECC .66932 INC 2.0849 V1 29.660
RP 108.12 LAP -1.62 LOP 47.87 VP 32.298 GAP -41.28 AZP 91.31 TAL 167.95 TAP 219.01 RCA 31.09 APO 156.92 V2 35.049
RC 74.169 GL -2.54 GP -4.38 ZAL 58.30 ZAP 27.56 ETS 168.15 ZAE 133.42 ETE 180.81 ZAC 21.25 ETC 57.91 CLP 27.23

PLANETOCENTRIC CONIC

C3 206.117 VHL 14.357 DLA -22.94 RAL 301.24 RAD 6571.2 VEL 18.095 PTH 3.01 VHP 23.769 DPA -26.85 RAP 252.96 ECC 4.3922

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 57 37	1926.37	-11.69	24.00	195.58	115.97	11 29 43	1326.4	-8.11	17.16
90.00	16 2 45	905.27	19.32	325.09	208.90	111.12	16 17 50	305.3	22.02	317.46
100.00	12 1 36	1719.82	-14.03	7.64	194.40	116.67	12 30 16	1119.8	-10.33	.79
100.00	17 41 27	5875.09	21.74	280.58	209.90	111.03	19 19 22	5275.1	24.41	272.80
110.00	12 34 30	1616.71	-19.58	356.79	191.36	118.59	13 1 27	1016.7	-15.61	349.92
110.00	19 25 3	5550.97	27.60	258.44	212.37	111.02	20 57 34	4951.0	30.20	250.21

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.4967 TRA-2.0612 TC3 -.1518 BAU .4183 SGT 1013.4 SGR 486.7 SG3 35.4 ST 333.6 SR 459.0 SS 293.0
RDE-1.1430 RRA .3919 RC3 .0004 FAU .01159 RRT -.1253 RRF .1187 RTF -.7021 CRT .5014 CRS .5217 CST .9974
FDE .2192 FRA .8665 FC3 -.0487 BSP 2949 SGB 1124.3 R23 -.0051 R13 .7028 LSA 555.0 MSA 315.6 SSA 15.1
BDE 1.2463 BRA 2.0981 BC3 .1518 FSP -81 SG1 1015.8 SG2 481.8 THA 175.56 EL1 502.4 EL2 263.7 ALF 61.46

LAUNCH DATE SEP 20 1965 FLIGHT TIME 82.00 ARRIVAL DATE DEC 11 1965

HELIOCENTRIC CONIC DISTANCE 162.531

RL 150.23 LAL -.00 LOL 356.83 VL 19.422 GAL 21.07 AZL 91.79 HCA 54.26 SMA 95.51 ECC .64432 INC 1.7889 V1 29.660
RP 108.08 LAP -1.45 LOP 51.07 VP 32.653 GAP -39.51 AZP 91.05 TAL 167.15 TAP 221.42 RCA 33.97 APO 157.04 V2 35.063
RC 72.025 GL -2.36 GP -4.53 ZAL 57.14 ZAP 26.18 ETS 167.33 ZAE 133.67 ETE 181.33 ZAC 20.58 ETC 62.39 CLP 25.81

PLANETOCENTRIC CONIC

C3 189.210 VHL 13.755 DLA -22.52 RAL 302.42 RAD 6571.0 VEL 17.622 PTH 2.98 VHP 22.890 DPA -27.29 RAP 254.91 ECC 4.1139

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 56 33	1933.62	-11.91	24.42	195.77	115.88	11 28 47	1333.6	-8.33	17.57
90.00	16 13 15	871.35	20.14	322.94	209.24	110.34	16 27 47	271.3	22.72	315.22
100.00	12 1 21	1724.49	-14.17	7.91	194.62	116.60	12 30 5	1124.5	-10.48	1.06
100.00	17 51 9	5843.76	22.50	278.56	210.17	110.22	19 28 32	5243.8	25.05	270.69
110.00	12 35 33	1617.26	-19.60	356.82	191.66	118.58	13 2 30	1017.3	-15.63	349.95
110.00	19 33 26	5523.75	28.25	256.59	212.51	110.10	21 5 30	4923.7	30.72	248.26

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.5174 TRA-2.0853 TC3 -.1614 BAU .4082 SGT 1061.9 SGR 490.1 SG3 38.2 ST 355.2 SR 459.3 SS 310.1
RDE-1.0951 RRA .3976 RC3 -.0007 FAU .01166 RRT -.1335 RRF .1281 RTF -.7180 CRT .5095 CRS .5360 CST .9974
FDE .2375 FRA .8984 FC3 -.0534 BSP 3014 SGB 1169.6 R23 -.0071 R13 .7187 LSA 574.0 MSA 321.8 SSA 15.3
BDE 1.2112 BRA 2.1228 BC3 .1614 FSP -87 SG1 1064.4 SG2 484.6 THA 175.55 EL1 511.7 EL2 274.3 ALF 58.51

LAUNCH DATE SEP 20 1965 FLIGHT TIME 84.00 ARRIVAL DATE DEC 13 1965

HELIOCENTRIC CONIC DISTANCE 168.605

RL 150.23 LAL -.00 LOL 356.83 VL 19.967 GAL 20.17 AZL 91.52 HCA 57.47 SMA 97.00 ECC .61982 INC 1.5157 V1 29.660
RP 108.04 LAP -1.28 LOP 54.28 VP 32.994 GAP -37.83 AZP 90.82 TAL 166.37 TAP 223.84 RCA 36.88 APO 157.13 V2 35.076
RC 69.906 GL -2.16 GP -4.68 ZAL 56.03 ZAP 24.82 ETS 166.39 ZAE 134.00 ETE 181.90 ZAC 20.06 ETC 67.21 CLP 24.41

PLANETOCENTRIC CONIC

C3 173.725 VHL 13.180 DLA -22.08 RAL 303.54 RAD 6570.9 VEL 17.177 PTH 2.94 VHP 22.039 DPA -27.73 RAP 256.88 ECC 3.8591

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 55 12	1940.54	-12.12	24.83	195.86	115.79	11 27 32	1340.5	-8.55	17.96
90.00	16 23 34	836.52	20.94	320.70	209.44	109.51	16 37 30	236.5	23.41	312.90
100.00	12 0 46	1728.91	-14.30	8.17	194.76	116.53	12 29 35	1128.9	-10.63	1.31
100.00	18 0 41	5811.42	23.24	276.45	210.31	109.35	19 37 32	5211.4	25.67	268.49
110.00	12 36 16	1617.64	-19.61	356.84	191.86	118.58	13 3 13	1017.6	-15.64	349.97
110.00	19 41 40	5495.46	28.89	254.64	212.51	109.11	21 13 16	4895.5	31.22	246.22

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.5339 TRA-2.1063 TC3 -.1705 BAU .3960 SGT 1110.0 SGR 492.9 SG3 41.2 ST 376.7 SR 458.8 SS 327.5
RDE-1.0474 RRA .4023 RC3 -.0020 FAU .01177 RRT -.1434 RRF .1386 RTF -.7334 CRT .5143 CRS .5482 CST .9972
FDE .2560 FRA .9310 FC3 -.0587 BSP 3160 SGB 1214.5 R23 -.0085 R13 .7341 LSA 593.6 MSA 327.3 SSA 15.5
BDE 1.1757 BRA 2.1444 BC3 .1703 FSP -95 SG1 1112.8 SG2 486.6 THA 175.49 EL1 521.1 EL2 284.5 ALF 55.55

LAUNCH DATE SEP 20 1965 FLIGHT TIME 86.00 ARRIVAL DATE DEC 15 1965

HELIOCENTRIC CONIC DISTANCE 174.763

RL 150.23 LAL -.00 LOL 356.83 VL 20.479 GAL 19.31 AZL 91.26 HCA 60.67 SMA 98.49 ECC .59588 INC 1.2611 V1 29.660
RP 108.00 LAP -1.10 LOP 57.49 VP 33.320 GAP -36.21 AZP 90.62 TAL 165.61 TAP 226.28 RCA 39.80 APO 157.18 V2 35.089
RC 67.813 GL -1.93 GP -4.86 ZAL 54.96 ZAP 23.49 ETS 165.33 ZAE 134.41 ETE 182.54 ZAC 19.70 ETC 72.32 CLP 23.01

PLANETOCENTRIC CONIC

C3 159.536 VHL 12.631 DLA -21.62 RAL 304.60 RAD 6570.7 VEL 16,759 PTH 2.90 VHP 21.215 DPA -28.15 RAP 258.89 ECC 3.6256

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 53 33	1947.14	-12.31	25.21	195.86	115.70	11 26 0	1347.1	-8.75	18.34
90.00	16 33 40	800.77	21.74	318.38	209.50	108.61	16 47 1	200.8	24.08	310.49
100.00	11 59 51	1733.13	-14.43	8.42	194.80	116.46	12 28 45	1133.1	-10.76	1.55
100.00	18 10 3	5778.05	23.98	274.24	210.32	108.41	19 46 21	5178.0	26.27	266.19
110.00	12 36 38	1617.86	-19.62	356.86	191.97	118.57	13 3 36	1017.9	-15.65	349.98
110.00	19 49 46	5466.08	29.53	252.59	212.37	108.05	21 20 52	4866.1	31.71	244.06

DIFFERENTIAL CORRECTIONS
TDE -.5492 TRA-2.1268 TC3 -.1796 BAU .3831
RDE-1.0000 RRA .4060 RC3 -.0036 FAU .01190
FDE .2751 FRA .9646 FC3 -.0646 BSP 3319
BDE 1.1409 BRA 2.1652 BC3 .1796 FSP -103

MID-COURSE EXECUTION ACCURACY
SGT 1159.7 SGR 495.1 SG3 44.4
RRT -.1541 RRF .1500 RTF -.7481
SGB 1260.9 R23 -.0100 R13 .7488
SG1 1162.7 SG2 487.9 THA 175.43

ORBIT DETERMINATION ACCURACY
ST 399.0 SR 457.5 SS 345.5
CRT .5178 CRS .5591 CST .9970
LSA 614.5 MSA 331.8 SSA 15.6
EL1 531.1 EL2 294.0 ALF 52.42

LAUNCH DATE SEP 20 1965 FLIGHT TIME 88.00 ARRIVAL DATE DEC 17 1965

HELIOCENTRIC CONIC DISTANCE 180.999

RL 150.23 LAL -.00 LOL 356.83 VL 20,960 GAL 18.48 AZL 91.02 HCA 63.88 SMA 99.97 ECC .57254 INC 1.0218 V1 29.660
RP 107.96 LAP -.92 LOP 60.71 VP 33.631 GAP -34.66 AZP 90.45 TAL 164.86 TAP 228.75 RCA 42.73 APO 157.21 V2 35.101
RC 65.751 GL -1.68 GP -5.04 ZAL 53.94 ZAP 22.18 ETS 164.12 ZAE 134.90 ETE 183.25 ZAC 19.51 ETC 77.62 CLP 21.63

PLANETOCENTRIC CONIC

C3 146.532 VHL 12.105 DLA -21.15 RAL 305.60 RAD 6570.6 VEL 16,366 PTH 2.86 VHP 20.415 DPA -28.58 RAP 260.93 ECC 3.4115

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 51 36	1953.47	-12.50	25.58	195.77	115.62	11 24 10	1353.5	-8.95	18.70
90.00	16 43 35	764.05	22.52	315.97	209.43	107.64	16 56 20	164.1	24.72	307.99
100.00	11 58 38	1737.16	-14.55	8.65	194.74	116.40	12 27 35	1137.2	-10.89	1.78
100.00	18 19 15	5743.64	24.70	271.94	210.18	107.40	19 54 59	5143.6	26.84	263.80
110.00	12 36 40	1617.94	-19.62	356.86	191.98	118.57	13 3 38	1017.9	-15.66	349.99
110.00	19 57 42	5435.62	30.16	250.44	212.08	106.92	21 28 18	4835.6	32.17	241.81

DIFFERENTIAL CORRECTIONS
TDE -.5619 TRA-2.1452 TC3 -.1883 BAU .3690
RDE -.9529 RRA .4090 RC3 -.0055 FAU .01207
FDE .2946 FRA .9992 FC3 -.0713 BSP 3528
BDE 1.1062 BRA 2.1838 BC3 .1883 FSP -113

MID-COURSE EXECUTION ACCURACY
SGT 1209.8 SGR 496.7 SG3 47.8
RRT -.1662 RRF .1624 RTF -.7623
SGB 1307.8 R23 -.0112 R13 .7631
SG1 1213.2 SG2 488.4 THA 175.34

ORBIT DETERMINATION ACCURACY
ST 421.4 SR 455.3 SS 364.1
CRT .5192 CRS .5684 CST .9966
LSA 636.2 MSA 335.4 SSA 15.8
EL1 541.4 EL2 302.9 ALF 49.24

LAUNCH DATE SEP 20 1965 FLIGHT TIME 90.00 ARRIVAL DATE DEC 19 1965

HELIOCENTRIC CONIC DISTANCE 187.308

RL 150.23 LAL -.00 LOL 356.83 VL 21.413 GAL 17.69 AZL 90.80 HCA 67.10 SMA 101.44 ECC .54986 INC .7953 V1 29.660
RP 107.92 LAP -.73 LOP 63.92 VP 33.928 GAP -33.18 AZP 90.31 TAL 164.14 TAP 231.24 RCA 45.66 APO 157.22 V2 35.114
RC 63.722 GL -1.40 GP -5.24 ZAL 52.97 ZAP 20.90 ETS 162.72 ZAE 135.48 ETE 184.03 ZAC 19.51 ETC 83.03 CLP 20.26

PLANETOCENTRIC CONIC

C3 134.610 VHL 11.602 DLA -20.65 RAL 306.54 RAD 6570.4 VEL 15.998 PTH 2.82 VHP 19.640 DPA -28.99 RAP 262.99 ECC 3.2153

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 49 21	1959.59	-12.68	25.94	195.59	115.53	11 22 0	1359.6	-9.14	19.05
90.00	16 53 20	726.35	23.27	313.47	209.21	106.60	17 5 27	126.3	25.33	305.40
100.00	11 57 4	1741.05	-14.67	8.88	194.59	116.34	12 26 5	1141.0	-11.01	2.00
100.00	18 28 18	5708.16	25.40	269.53	209.90	106.32	20 3 27	5108.2	27.39	261.30
110.00	12 36 21	1617.93	-19.62	356.86	191.90	118.57	13 3 19	1017.9	-15.66	349.99
110.00	20 5 31	5404.04	30.76	248.18	211.64	105.70	21 35 35	4804.0	32.60	239.45

DIFFERENTIAL CORRECTIONS
TDE -.5733 TRA-2.1630 TC3 -.1968 BAU .3544
RDE -.9062 RRA .4112 RC3 -.0078 FAU .01225
FDE .3148 FRA 1.0350 FC3 -.0788 BSP 3747
BDE 1.0724 BRA 2.2017 BC3 .1969 FSP -124

MID-COURSE EXECUTION ACCURACY
SGT 1261.6 SGR 497.7 SG3 51.5
RRT -.1794 RRF .1761 RTF -.7759
SGB 1356.2 R23 -.0125 R13 .7767
SG1 1265.3 SG2 488.2 THA 175.24

ORBIT DETERMINATION ACCURACY
ST 444.5 SR 452.2 SS 383.4
CRT .5194 CRS .5764 CST .9962
LSA 659.2 MSA 338.1 SSA 15.9
EL1 552.8 EL2 310.8 ALF 45.95

LAUNCH DATE SEP 20 1965 FLIGHT TIME 92.00 ARRIVAL DATE DEC 21 1965

HELIOCENTRIC CONIC DISTANCE 193.685

RL 150.23 LAL -.00 LOL 356.83 VL 21.838 GAL 16.93 AZL 90.58 HCA 70.31 SMA 102.89 ECC .52786 INC .5790 V1 29.660
RP 107.89 LAP -.55 LOP 67.14 VP 34.211 GAP -31.75 AZP 90.20 TAL 163.44 TAP 233.76 RCA 48.58 APO 157.19 V2 35.126
RC 61.731 GL -1.09 GP -5.47 ZAL 52.04 ZAP 19.65 ETS 161.09 ZAE 136.15 ETE 184.92 ZAC 19.70 ETC 88.44 CLP 18.90

PLANETOCENTRIC CONIC

C3 123.682 VHL 11.121 DLA -20.13 RAL 307.42 RAD 6570.3 VEL 15.653 PTH 2.78 VHP 18.889 DPA -29.39 RAP 265.07 ECC 3.0355

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 46 46	1965.58	-12.85	26.30	195.32	115.45	11 19 31	1365.6	-9.32	19.40
90.00	17 2 55	687.62	24.00	310.86	208.85	105.50	17 14 23	87.6	25.30	302.71
100.00	11 55 9	1744.88	-14.79	9.11	194.36	116.28	12 24 14	1144.9	-11.14	2.22
100.00	18 37 13	5671.59	26.07	267.03	209.47	105.16	20 11 45	5071.6	27.90	258.70
110.00	12 35 40	1617.89	-19.62	356.86	191.73	118.57	13 2 38	1017.9	-15.65	349.98
110.00	20 13 11	5371.34	31.34	245.81	211.06	104.41	21 42 43	4771.3	33.00	236.98

DIFFERENTIAL CORRECTIONS
TDE -.5868 TRA-2.1831 TC3 -.2060 BAU .3411
RDE -.8599 RRA .4129 RC3 -.0106 FAU .01244
FDE .3362 FRA 1.0728 FC3 -.0871 BSP 3899
BDE 1.0410 BRA 2.2218 BC3 .2063 FSP -134

MID-COURSE EXECUTION ACCURACY
SGT 1317.7 SGR 498.1 SG3 55.6
RRT -.1930 RRF .1909 RTF -.7887
SGB 1408.7 R23 -.0148 R13 .7895
SG1 1321.7 SG2 487.3 THA 175.17

ORBIT DETERMINATION ACCURACY
ST 469.8 SR 448.2 SS 403.8
CRT .5201 CRS .5837 CST .9957
LSA 684.9 MSA 339.6 SSA 16.1
EL1 566.4 EL2 317.5 ALF 42.41

LAUNCH DATE SEP 20 1965 FLIGHT TIME 94.00 ARRIVAL DATE DEC 23 1965

HELIOCENTRIC CONIC DISTANCE 200.123

RL 150.23 LAL -.00 LOL 356.83 VL 22.237 GAL 16.21 AZL 90.37 HCA 73.53 SMA 104.31 ECC .50658 INC .3712 VI 29.660
RP 107.85 LAP -.36 LOP 70.36 VP 34.479 GAP -30.38 AZP 90.11 TAL 162.77 TAP 236.31 RCA 51.47 APO 157.15 V2 35.138
RC 59.781 GL -.74 GP -5.71 ZAL 51.16 ZAP 18.42 ETS 159.19 ZAE 136.91 ETE 185.91 ZAC 20.09 ETC 93.71 CLP 17.55

PLANETOCENTRIC CONIC

C3 113.665 VHL 10.661 DLA -19.58 RAL 308.23 RAD 6570.2 VEL 15.330 PTH 2.74 VHP 18.160 DPA -29.79 RAP 267.18 ECC 2.8706

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 43 50	1971.52	-13.03	26.65	194.96	115.37	11 16 42	1371.5	-9.50	19.74
90.00	17 12 22	647.83	24.70	308.15	208.34	104.31	17 23 9	47.8	26.42	299.91
100.00	11 52 53	1748.71	-14.90	9.34	194.03	116.22	12 22 2	1148.7	-11.26	2.44
100.00	18 46 0	5633.91	26.72	264.41	208.90	103.93	20 19 54	5033.9	28.37	256.00
110.00	12 34 38	1617.89	-19.62	356.86	191.47	118.57	13 1 36	1017.9	-15.65	349.98
110.00	20 20 44	5337.50	31.88	243.32	210.32	103.03	21 49 42	4737.5	33.35	234.40

DIFFERENTIAL CORRECTIONS

TDE -.5970 TRA-2.2003 TC3 -.2143 BAU .3263
RDE -.8141 RRA .4140 RC3 -.0138 FAU .01268
FDE .3582 FRA 1.1118 FC3 -.0966 BSP 4117
BDE 1.0095 BRA 2.2390 BC3 .2147 FSP -147

MID-COURSE EXECUTION ACCURACY

SGT 1373.6 SGR 498.0 SG3 60.0
RRT -.2085 RRF .2072 RTF -.8010
SGB 1461.1 R23 -.0167 R13 .8019
SG1 1378.1 SG2 485.5 THA 175.06

ORBIT DETERMINATION ACCURACY

ST 494.9 SR 443.2 SS 424.8
CRT .5184 CRS .5895 CST .9951
LSA 711.1 MSA 340.3 SSA 16.2
EL1 580.4 EL2 323.1 ALF 38.99

LAUNCH DATE SEP 20 1965 FLIGHT TIME 96.00 ARRIVAL DATE DEC 25 1965

HELIOCENTRIC CONIC DISTANCE 206.618

RL 150.23 LAL -.00 LOL 356.83 VL 22.612 GAL 15.51 AZL 90.17 HCA 76.75 SMA 105.71 ECC .48603 INC .1696 VI 29.660
RP 107.81 LAP -.17 LOP 73.58 VP 34.734 GAP -29.06 AZP 90.04 TAL 162.13 TAP 238.89 RCA 54.33 APO 157.08 V2 35.149
RC 57.879 GL -.36 GP -5.97 ZAL 50.32 ZAP 17.23 ETS 156.96 ZAE 137.77 ETE 187.02 ZAC 20.66 ETC 98.77 CLP 16.20

PLANETOCENTRIC CONIC

C3 104.484 VHL 10.222 DLA -19.00 RAL 308.99 RAD 6570.0 VEL 15.027 PTH 2.71 VHP 17.454 DPA -30.19 RAP 269.31 ECC 2.7195

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 40 33	1977.53	-13.20	27.00	194.52	115.28	11 13 31	1377.5	-9.69	20.08
90.00	17 21 40	606.93	25.36	305.34	207.68	103.05	17 31 47	6.9	26.90	297.01
100.00	11 50 14	1752.66	-15.02	9.57	193.62	116.15	12 19 27	1152.7	-11.38	2.67
100.00	18 54 40	5595.07	27.32	261.69	208.18	102.62	20 27 55	4995.1	28.79	253.19
110.00	12 33 13	1618.01	-19.62	356.86	191.12	118.57	13 0 11	1018.0	-15.66	349.99
110.00	20 28 11	5302.49	32.39	240.72	209.44	101.57	21 56 33	4702.5	33.65	231.71

DIFFERENTIAL CORRECTIONS

TDE -.6062 TRA-2.2165 TC3 -.2221 BAU .3112
RDE -.7688 RRA .4148 RC3 -.0176 FAU .01294
FDE .3811 FRA 1.1527 FC3 -.1073 BSP 4342
BDE .9790 BRA 2.2550 BC3 .2228 FSP -161

MID-COURSE EXECUTION ACCURACY

SGT 1431.2 SGR 497.5 SG3 64.7
RRT -.2254 RRF .2252 RTF -.8128
SGB 1515.1 R23 -.0189 R13 .8137
SG1 1436.1 SG2 483.0 THA 174.95

ORBIT DETERMINATION ACCURACY

ST 520.6 SR 437.2 SS 446.6
CRT .5156 CRS .5941 CST .9944
LSA 738.7 MSA 340.2 SSA 16.3
EL1 595.9 EL2 327.3 ALF 35.60

LAUNCH DATE SEP 20 1965 FLIGHT TIME 98.00 ARRIVAL DATE DEC 27 1965

HELIOCENTRIC CONIC DISTANCE 213.164

RL 150.23 LAL -.00 LOL 356.83 VL 22.964 GAL 14.84 AZL 89.97 HCA 79.98 SMA 107.07 ECC .46624 INC .0242 VI 29.660
RP 107.78 LAP .03 LOP 76.80 VP 34.975 GAP -27.79 AZP 90.00 TAL 161.52 TAP 241.50 RCA 57.15 APO 157.00 V2 35.160
RC 56.028 GL .06 GP -6.26 ZAL 49.53 ZAP 16.09 ETS 154.33 ZAE 138.72 ETE 188.29 ZAC 21.41 ETC 103.52 CLP 14.85

PLANETOCENTRIC CONIC

C3 96.075 VHL 9.802 DLA -18.40 RAL 309.68 RAD 6569.9 VEL 14.745 PTH 2.67 VHP 16.769 DPA -30.58 RAP 271.46 ECC 2.5811

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 36 53	1983.73	-13.38	27.37	193.99	115.19	11 9 57	1383.7	-9.88	20.44
90.00	17 30 51	5852.93	25.97	280.32	206.88	101.70	19 8 24	5252.9	27.32	271.91
100.00	11 47 12	1756.84	-15.15	9.82	193.12	116.08	12 16 28	1156.8	-11.52	2.90
100.00	19 3 13	5555.05	27.89	258.84	207.32	101.22	20 35 48	4955.0	29.15	250.27
110.00	12 31 23	1618.36	-19.64	356.89	190.69	118.56	12 58 22	1018.4	-15.67	350.01
110.00	20 35 31	5266.29	32.85	237.99	208.40	100.02	22 3 17	4666.3	33.89	228.91

DIFFERENTIAL CORRECTIONS

TDE -.6143 TRA-2.2317 TC3 -.2293 BAU .2959
RDE -.7240 RRA .4154 RC3 -.0219 FAU .01324
FDE .4051 FRA 1.1955 FC3 -.1193 BSP 4574
BDE .9495 BRA 2.2701 BC3 .2304 FSP -175

MID-COURSE EXECUTION ACCURACY

SGT 1490.3 SGR 496.5 SG3 69.8
RRT -.2440 RRF .2450 RTF -.8239
SGB 1570.8 R23 -.0214 R13 .8249
SG1 1495.8 SG2 479.7 THA 174.82

ORBIT DETERMINATION ACCURACY

ST 547.0 SR 430.1 SS 469.4
CRT .5114 CRS .5975 CST .9936
LSA 767.7 MSA 339.1 SSA 16.4
EL1 612.6 EL2 330.1 ALF 32.31

LAUNCH DATE SEP 20 1965 FLIGHT TIME 100.00 ARRIVAL DATE DEC 29 1965

HELIOCENTRIC CONIC DISTANCE 219.758

RL 150.23 LAL -.00 LOL 356.83 VL 23.295 GAL 14.20 AZL 89.78 HCA 83.20 SMA 108.41 ECC .44720 INC .2178 VI 29.660
RP 107.75 LAP .22 LOP 80.03 VP 35.204 GAP -26.56 AZP 89.97 TAL 160.94 TAP 244.14 RCA 59.93 APO 156.89 V2 35.171
RC 54.237 GL .52 GP -6.58 ZAL 48.80 ZAP 15.00 ETS 151.21 ZAE 139.77 ETE 189.72 ZAC 22.32 ETC 107.92 CLP 13.51

PLANETOCENTRIC CONIC

C3 88.376 VHL 9.401 DLA -17.76 RAL 310.31 RAD 6569.7 VEL 14.482 PTH 2.63 VHP 16.106 DPA -30.98 RAP 273.63 ECC 2.4544

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 32 48	1990.28	-13.57	27.76	193.38	115.09	11 5 59	1390.3	-10.08	20.82
90.00	17 39 56	5809.69	26.53	277.28	205.94	100.28	19 16 46	5209.7	27.68	268.80
100.00	11 43 44	1761.40	-15.28	10.09	192.54	116.01	12 13 5	1161.4	-11.66	3.17
100.00	19 11 42	5513.81	28.40	255.89	206.31	99.75	20 43 35	4913.8	29.45	247.24
110.00	12 29 9	1619.08	-19.66	356.93	190.17	118.54	12 56 9	1019.1	-15.70	350.05
110.00	20 42 46	5228.89	33.26	235.15	207.22	98.38	22 9 54	4628.9	34.06	226.00

DIFFERENTIAL CORRECTIONS

TDE -.6244 TRA-2.2489 TC3 -.2371 BAU .2820
RDE -.6797 RRA .4161 RC3 -.0270 FAU .01354
FDE .4310 FRA 1.2411 FC3 -.1327 BSP 4741
BDE .9230 BRA 2.2871 BC3 .2387 FSP -191

MID-COURSE EXECUTION ACCURACY

SGT 1554.0 SGR 495.1 SG3 75.4
RRT -.2637 RRF .2668 RTF -.8343
SGB 1631.0 R23 -.0249 R13 .8354
SG1 1560.1 SG2 475.7 THA 174.70

ORBIT DETERMINATION ACCURACY

ST 575.7 SR 421.9 SS 493.6
CRT .5072 CRS .5998 CST .9928
LSA 799.6 MSA 336.8 SSA 16.5
EL1 632.3 EL2 331.1 ALF 29.05

LAUNCH DATE SEP 20 1965 FLIGHT TIME 102.00 ARRIVAL DATE DEC 31 1965

HELIOCENTRIC CONIC DISTANCE 226.393

RL 150.23 LAL -.00 LOL 356.83 VL 23.605 GAL 13.58 AZL 89.59 HCA 86.43 SMA 109.71 ECC .42892 INC .4078 V1 29.660
RP 107.72 LAP .41 LOP 83.25 VP 35.420 GAP -25.38 AZP 89.97 TAL 160.39 TAP 246.82 RCA 62.66 APO 156.77 V2 35.181
RC 52.511 GL 1.04 GP -6.94 ZAL 48.11 ZAP 13.98 ETS 147.50 ZAE 140.92 ETE 191.37 ZAC 23.39 ETC 111.94 CLP 12.16

PLANETOCENTRIC CONIC

C3 81.331 VHL 9.018 DLA -17.08 RAL 310.87 RAD 6569.6 VEL 14.237 PTH 2.59 VHP 15.463 DPA -31.37 RAP 275.81 ECC 2.3385

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 28 17	1997.33	-13.77	28.17	192.70	114.99	11 1 35	1397.3	-10.29	21.23
90.00	17 48 57	5765.22	27.03	274.12	204.86	98.77	19 25 2	5165.2	27.97	265.58
100.00	11 39 50	1766.48	-15.43	10.39	191.88	115.92	12 9 16	1166.5	-11.82	3.46
100.00	19 20 6	5471.31	28.85	252.81	205.16	98.19	20 51 17	4871.3	29.68	244.10
110.00	12 26 29	1620.31	-19.70	357.00	189.58	118.52	12 53 30	1020.3	-15.74	350.12
110.00	20 49 56	5190.24	33.61	232.19	205.89	96.66	22 16 26	4590.2	34.16	222.99

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.6312 TRA-2.2625 TC3 -.2430 BAU .2667 SGT 1616.8 SGR 493.5 SG3 81.5 ST 603.7 SR 412.6 SS 518.6
RDE -.6361 RRA .4167 RC3 -.0329 FAU .01390 RRT -.2863 RRF .2911 RTF -.8444 CRT .5002 CRS .6005 CST .9918
FDE .4578 FRA 1.2887 FC3 -.1480 BSP 4975 SGB 1690.4 R23 -.0282 R13 .8455 LSA 831.8 MSA 333.9 SSA 16.6
BDE .8961 BRA 2.3005 BC3 .2453 FSP -208 SG1 1623.5 SG2 470.9 THA 174.55 EL1 652.2 EL2 330.7 ALF 26.03

LAUNCH DATE SEP 20 1965 FLIGHT TIME 104.00 ARRIVAL DATE JAN 2 1966

HELIOCENTRIC CONIC DISTANCE 233.065

RL 150.23 LAL -.00 LOL 356.83 VL 23.895 GAL 12.99 AZL 89.40 HCA 89.66 SMA 110.98 ECC .41141 INC .5964 V1 29.660
RP 107.69 LAP .60 LOP 86.48 VP 35.623 GAP -24.24 AZP 90.00 TAL 159.88 TAP 249.54 RCA 65.32 APO 156.64 V2 35.191
RC 50.858 GL 1.61 GP -7.32 ZAL 47.47 ZAP 13.04 ETS 143.09 ZAE 142.15 ETE 193.25 ZAC 24.58 ETC 115.57 CLP 10.82

PLANETOCENTRIC CONIC

C3 74.891 VHL 8.654 DLA -16.36 RAL 311.37 RAD 6569.5 VEL 14.009 PTH 2.56 VHP 14.840 DPA -31.78 RAP 278.01 ECC 2.2325

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 23 18	2005.09	-14.00	28.63	191.94	114.87	10 56 43	1405.1	-10.53	21.67
90.00	17 57 55	5719.46	27.46	270.84	203.63	97.18	19 33 15	5119.5	28.17	262.25
100.00	11 35 27	1772.27	-15.61	10.73	191.15	115.82	12 5 0	1172.3	-12.01	3.79
100.00	19 28 27	5427.50	29.23	249.61	203.88	96.54	20 58 55	4827.5	29.83	240.85
110.00	12 23 21	1622.22	-19.76	357.11	188.92	118.48	12 50 24	1022.2	-15.80	350.23
110.00	20 57 2	5150.32	33.88	229.10	204.42	94.85	22 22 53	4550.3	34.18	219.87

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.6373 TRA-2.2751 TC3 -.2481 BAU .2515 SGT 1681.3 SGR 491.8 SG3 88.1 ST 632.5 SR 402.0 SS 544.9
RDE -.5929 RRA .4177 RC3 -.0396 FAU .01430 RRT -.3112 RRF .3181 RTF -.8539 CRT .4915 CRS .5996 CST .9908
FDE .4864 FRA 1.3391 FC3 -.1653 BSP 5213 SGB 1751.8 R23 -.0319 R13 .8551 LSA 865.6 MSA 330.2 SSA 16.7
BDE .8705 BRA 2.3131 BC3 .2512 FSP -227 SG1 1688.9 SG2 465.3 THA 174.37 EL1 673.4 EL2 328.8 ALF 23.17

LAUNCH DATE SEP 20 1965 FLIGHT TIME 106.00 ARRIVAL DATE JAN 4 1966

HELIOCENTRIC CONIC DISTANCE 239.771

RL 150.23 LAL -.00 LOL 356.83 VL 24.168 GAL 12.42 AZL 89.21 HCA 92.89 SMA 112.21 ECC .39466 INC .7851 V1 29.660
RP 107.66 LAP .78 LOP 89.72 VP 35.816 GAP -23.13 AZP 90.04 TAL 159.40 TAP 252.29 RCA 67.92 APO 156.49 V2 35.200
RC 49.288 GL 2.23 GP -7.75 ZAL 46.89 ZAP 12.21 ETS 137.86 ZAE 143.47 ETE 195.43 ZAC 25.90 ETC 118.82 CLP 9.47

PLANETOCENTRIC CONIC

C3 69.010 VHL 8.307 DLA -15.60 RAL 311.80 RAD 6569.3 VEL 13.797 PTH 2.52 VHP 14.237 DPA -32.19 RAP 280.22 ECC 2.1357

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 17 49	2013.76	-14.24	29.15	191.12	114.73	10 51 23	1413.8	-10.79	22.18
90.00	18 6 52	5672.34	27.82	267.44	202.28	95.51	19 41 24	5072.3	28.29	258.81
100.00	11 30 34	1778.99	-15.80	11.13	190.36	115.71	12 0 13	1179.0	-12.22	4.18
100.00	19 36 47	5382.35	29.54	246.29	202.45	94.82	21 6 29	4782.3	29.89	237.50
110.00	12 19 44	1624.99	-19.85	357.28	188.19	118.42	12 46 49	1025.0	-15.90	350.39
110.00	21 4 7	5109.10	34.07	225.90	202.82	92.97	22 29 16	4509.1	34.11	216.65

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.6428 TRA-2.2867 TC3 -.2517 BAU .2363 SGT 1747.2 SGR 490.2 SG3 95.3 ST 661.8 SR 390.1 SS 572.6
RDE -.5502 RRA .4191 RC3 -.0474 FAU .01474 RRT -.3388 RRF .3481 RTF -.8629 CRT .4806 CRS .5967 CST .9897
FDE .5169 FRA 1.3926 FC3 -.1849 BSP 5451 SGB 1814.7 R23 -.0362 R13 .8642 LSA 901.0 MSA 325.6 SSA 16.8
BDE .8461 BRA 2.3248 BC3 .2562 FSP -248 SG1 1755.7 SG2 459.0 THA 174.17 EL1 696.0 EL2 325.3 ALF 20.48

LAUNCH DATE SEP 20 1965 FLIGHT TIME 108.00 ARRIVAL DATE JAN 6 1966

HELIOCENTRIC CONIC DISTANCE 246.504

RL 150.23 LAL -.00 LOL 356.83 VL 24.423 GAL 11.87 AZL 89.03 HCA 96.12 SMA 113.40 ECC .37866 INC .9748 V1 29.660
RP 107.63 LAP .97 LOP 92.95 VP 35.996 GAP -22.07 AZP 90.10 TAL 158.96 TAP 255.08 RCA 70.46 APO 156.34 V2 35.209
RC 47.809 GL 2.92 GP -8.23 ZAL 46.36 ZAP 11.53 ETS 131.76 ZAE 144.86 ETE 197.95 ZAC 27.32 ETC 121.70 CLP 8.11

PLANETOCENTRIC CONIC

C3 63.645 VHL 7.978 DLA -14.79 RAL 312.17 RAD 6569.2 VEL 13.601 PTH 2.49 VHP 13.654 DPA -32.62 RAP 282.43 ECC 2.0474

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 11 47	2023.58	-14.52	29.74	190.23	114.58	10 45 30	1423.6	-11.09	22.75
90.00	18 15 48	5623.81	28.09	263.91	200.79	93.76	19 49 32	5023.8	28.31	255.26
100.00	11 25 9	1786.85	-16.04	11.60	189.50	115.57	11 54 55	1186.8	-12.46	4.63
100.00	19 45 7	5335.78	29.75	242.84	200.90	93.02	21 14 3	4735.8	29.85	234.04
110.00	12 15 35	1628.86	-19.98	357.51	187.39	118.33	12 42 44	1028.9	-16.03	350.60
110.00	21 11 10	5066.54	34.17	222.58	201.09	91.00	22 35 37	4466.5	33.93	213.34

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.6476 TRA-2.2968 TC3 -.2539 BAU .2213 SGT 1814.1 SGR 489.0 SG3 103.1 ST 691.7 SR 376.7 SS 601.8
RDE -.5080 RRA .4212 RC3 -.0563 FAU .01522 RRT -.3695 RRF .3814 RTF -.8714 CRT .4669 CRS .5915 CST .9885
FDE .5496 FRA 1.4494 FC3 -.2070 BSP 5702 SGB 1878.8 R23 -.0410 R13 .8728 LSA 937.9 MSA 320.2 SSA 16.9
BDE .8230 BRA 2.3351 BC3 .2600 FSP -272 SG1 1823.7 SG2 452.0 THA 173.94 EL1 719.6 EL2 320.2 ALF 17.94

LAUNCH DATE SEP 20 1965 FLIGHT TIME 110.00 ARRIVAL DATE JAN 8 1966

HELIOCENTRIC CONIC DISTANCE 253.262

RL	150.23	LAL	-.00	LOL	356.83	VL	24.661	GAL	11.35	AZL	88.83	HCA	99.36	SMA	114.54	ECC	.36341	INC	1.1670	VI	29.660
RP	107.61	LAP	1.15	LOP	96.18	VP	36.167	GAP	-21.04	AZP	90.19	TAL	158.55	TAP	257.91	RCA	72.92	APO	156.17	V2	35.217
RC	46.433	GL	3.68	GP	-8.75	ZAL	45.89	ZAP	11.03	ETS	124.77	ZAE	146.29	ETE	200.89	ZAC	28.84	ETC	124.25	CLP	6.74

PLANETOCENTRIC CONIC

C3 58.759 VHL 7.665 DLA -13.92 RAL 312.46 RAD 6569.1 VEL 13.421 PTH 2.45 VHP 13.090 DPA -33.07 RAP 284.66 ECC 1.9670

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 5 9	2034.83	-14.84	30.41	189.29	114.40	10 39 4	1434.8	-11.42	23.40
90.00	18 24 47	5573.80	28.26	260.26	199.18	91.94	19 57 41	4973.8	28.23	251.60
100.00	11 19 8	1796.12	-16.31	12.15	188.59	115.40	11 49 5	1196.1	-12.75	5.17
100.00	19 53 29	5287.74	29.87	239.27	199.23	91.15	21 21 37	4687.7	29.71	230.47
110.00	12 10 53	1634.04	-20.14	357.82	186.55	118.22	12 38 7	1034.0	-16.21	350.90
110.00	21 18 14	5022.59	34.17	219.14	199.24	88.97	22 41 56	4422.6	33.65	209.94

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-.6523	TRA	-2.3060	TC3	-.2545	BAU	.2066	SGT	1882.4	SGR	488.4	SG3	111.6	ST	722.3	SR	361.9	SS	632.7
RDE	-.4660	RRA	.4244	RC3	-.0665	FAU	.01574	RRT	-.4033	RRF	.4182	RTF	-.8795	CRT	.4501	CRS	.5832	CST	.9872
FDE	.5850	FRA	1.5099	FC3	-.2320	BSP	5945	SGB	1944.7	R23	-.0466	R13	.8810	LSA	976.7	MSA	314.0	SSA	17.0
BDE	.8017	BRA	2.3447	BC3	.2631	FSP	-297	SG1	1893.2	SG2	444.4	THA	173.68	EL1	744.5	EL2	313.5	ALF	15.53

LAUNCH DATE SEP 20 1965 FLIGHT TIME 112.00 ARRIVAL DATE JAN 10 1966

HELIOCENTRIC CONIC DISTANCE 260.040

RL	150.23	LAL	-.00	LOL	356.83	VL	24.884	GAL	10.86	AZL	88.64	HCA	102.59	SMA	115.65	ECC	.34890	INC	1.3629	VI	29.660
RP	107.58	LAP	1.33	LOP	99.42	VP	36.326	GAP	-20.04	AZP	90.30	TAL	158.19	TAP	260.78	RCA	75.30	APO	155.99	V2	35.224
RC	45.168	GL	4.52	GP	-9.34	ZAL	45.49	ZAP	10.76	ETS	117.03	ZAE	147.74	ETE	204.32	ZAC	30.44	ETC	126.48	CLP	5.37

PLANETOCENTRIC CONIC

C3 54.318 VHL 7.370 DLA -12.98 RAL 312.69 RAD 6569.0 VEL 13.254 PTH 2.42 VHP 12.545 DPA -33.55 RAP 286.90 ECC 1.8939

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 57 54	2047.80	-15.20	31.19	188.31	114.18	10 32 2	1447.8	-11.81	24.16
90.00	18 33 51	5522.21	28.32	256.49	197.47	90.05	20 5 53	4922.2	28.02	247.84
100.00	11 12 30	1807.09	-16.63	12.81	187.63	115.20	11 42 37	1207.1	-13.09	5.80
100.00	20 1 55	5238.16	29.88	235.59	197.46	89.21	21 29 13	4638.2	29.45	226.81
110.00	12 5 35	1640.83	-20.36	358.22	185.65	118.07	12 32 56	1040.8	-16.45	351.29
110.00	21 25 19	4977.19	34.06	215.60	197.29	86.88	22 48 17	4377.2	33.25	206.46

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-.6567	TRA	-2.3143	TC3	-.2533	BAU	.1925	SGT	1951.7	SGR	489.0	SG3	121.0	ST	753.4	SR	345.4	SS	665.6
RDE	-.4242	RRA	.4289	RC3	-.0780	FAU	.01631	RRT	-.4405	RRF	.4588	RTF	-.8871	CRT	.4287	CRS	.5710	CST	.9858
FDE	.6235	FRA	1.5747	FC3	-.2600	BSP	6189	SGB	2012.0	R23	-.0529	R13	.8888	LSA	1017.5	MSA	307.1	SSA	17.0
BDE	.7818	BRA	2.3537	BC3	.2651	FSP	-324	SG1	1964.2	SG2	436.2	THA	173.37	EL1	770.6	EL2	305.1	ALF	13.23

LAUNCH DATE SEP 20 1965 FLIGHT TIME 114.00 ARRIVAL DATE JAN 12 1966

HELIOCENTRIC CONIC DISTANCE 266.834

RL	150.23	LAL	-.00	LOL	356.83	VL	25.093	GAL	10.38	AZL	88.44	HCA	105.83	SMA	116.70	ECC	.33511	INC	1.5638	VI	29.660
RP	107.56	LAP	1.50	LOP	102.66	VP	36.476	GAP	-19.08	AZP	90.43	TAL	157.86	TAP	263.69	RCA	77.60	APO	155.81	V2	35.231
RC	44.025	GL	5.45	GP	-10.00	ZAL	45.16	ZAP	10.75	ETS	108.84	ZAE	149.16	ETE	208.33	ZAC	32.13	ETC	128.42	CLP	3.98

PLANETOCENTRIC CONIC

C3 50.289 VHL 7.091 DLA -11.98 RAL 312.84 RAD 6568.8 VEL 13.102 PTH 2.39 VHP 12.020 DPA -34.07 RAP 289.15 ECC 1.8276

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 49 57	2062.82	-15.62	32.10	187.28	113.92	10 24 19	1462.8	-12.26	25.03
90.00	18 43 1	5468.96	28.26	252.60	195.65	88.10	20 14 10	4869.0	27.70	243.98
100.00	11 5 11	1820.07	-17.00	13.59	186.63	114.96	11 35 31	1220.1	-13.50	6.56
100.00	20 10 27	5186.95	29.77	231.79	195.58	87.21	21 36 54	4586.9	29.07	223.05
110.00	11 59 39	1649.50	-20.64	358.75	184.72	117.87	12 27 8	1049.5	-16.75	351.78
110.00	21 32 29	4930.28	33.82	211.96	195.24	84.74	22 54 39	4330.3	32.73	202.90

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-.6608	TRA	-2.3211	TC3	-.2497	BAU	.1787	SGT	2021.3	SGR	491.2	SG3	131.1	ST	784.8	SR	327.3	SS	700.4
RDE	-.3825	RRA	.4349	RC3	-.0912	FAU	.01694	RRT	-.4813	RRF	.5032	RTF	-.8943	CRT	.4012	CRS	.5533	CST	.9844
FDE	.6652	FRA	1.6439	FC3	-.2916	BSP	6442	SGB	2080.1	R23	-.0600	R13	.8961	LSA	1060.0	MSA	299.6	SSA	17.1
BDE	.7635	BRA	2.3615	BC3	.2658	FSP	-354	SG1	2035.7	SG2	427.5	THA	173.02	EL1	797.5	EL2	295.0	ALF	11.03

LAUNCH DATE SEP 20 1965 FLIGHT TIME 116.00 ARRIVAL DATE JAN 14 1966

HELIOCENTRIC CONIC DISTANCE 273.642

RL	150.23	LAL	-.00	LOL	356.83	VL	25.287	GAL	9.92	AZL	88.23	HCA	109.06	SMA	117.72	ECC	.32204	INC	1.7714	VI	29.660
RP	107.55	LAP	1.67	LOP	105.90	VP	36.616	GAP	-18.14	AZP	90.58	TAL	157.57	TAP	266.63	RCA	79.81	APO	155.63	V2	35.237
RC	43.015	GL	6.47	GP	-10.73	ZAL	44.90	ZAP	11.03	ETS	100.61	ZAE	150.50	ETE	212.99	ZAC	33.88	ETC	130.10	CLP	2.57

PLANETOCENTRIC CONIC

C3 46.646 VHL 6.830 DLA -10.89 RAL 312.92 RAD 6568.7 VEL 12.962 PTH 2.36 VHP 11.513 DPA -34.64 RAP 291.41 ECC 1.7677

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 41 14	2080.26	-16.10	33.15	186.23	113.61	10 15 55	1480.3	-12.77	26.06
90.00	18 52 21	5413.92	28.07	248.58	193.74	86.10	20 22 35	4813.9	27.23	240.02
100.00	10 57 8	1835.42	-17.44	14.52	185.60	114.67	11 27 43	1235.4	-13.97	7.45
100.00	20 19 8	5134.00	29.53	227.87	193.62	85.16	21 44 42	4534.0	28.55	219.20
110.00	11 53 1	1660.41	-20.98	359.40	183.76	117.62	12 20 41	1060.4	-17.12	352.41
110.00	21 39 45	4881.77	33.46	208.22	193.12	82.55	23 1 6	4281.8	32.07	199.27

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-.6655	TRA	-2.3270	TC3	-.2439	BAU	.1659	SGT	2091.6	SGR	495.8	SG3	142.2	ST	817.0	SR	307.4	SS	737.7
RDE	-.3405	RRA	.4431	RC3	-.1061	FAU	.01761	RRT	-.5253	RRF	.5512	RTF	-.9010	CRT	.3655	CRS	.5279	CST	.9829
FDE	.7112	FRA	1.7180	FC3	-.3269	BSP	6694	SGB	2149.5	R23	-.0683	R13	.9031	LSA	1105.0	MSA	291.4	SSA	17.1
BDE	.7475	BRA	2.3688	BC3	.2660	FSP	-387	SG1	2108.4	SG2	418.6	THA	172.61	EL1	825.7	EL2	283.1	ALF	8.88

LAUNCH DATE SEP 20 1965 FLIGHT TIME 118.00 ARRIVAL DATE JAN 16 1966

HELIOCENTRIC CONIC DISTANCE 280.458

RL 150.23 LAL -.00 LOL 356.83 VL 25.469 GAL 9.49 AZL 88.01 HCA 112.30 SMA 118.69 ECC .30966 INC 1.9873 VI 29.660
RP 107.53 LAP 1.84 LOP 109.14 VP 36.746 GAP -17.24 AZP 90.75 TAL 157.32 TAP 269.62 RCA 81.94 APO 155.44 V2 35.242
RC 42.147 GL 7.60 GP -11.56 ZAL 44.72 ZAP 11.61 ETS 92.80 ZAE 151.67 ETE 218.36 ZAC 35.71 ETC 131.54 CLP 1.14

PLANETOCENTRIC CONIC

C3 43.364 VHL 6.585 DLA -9.72 RAL 312.92 RAD 6568.6 VEL 12.835 PTH 2.34 VHP 11.027 DPA -35.27 RAP 293.68 ECC 1.7137

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 31 42	2100.53	-16.65	34.39	185.16	113.24	10 6 43	1500.5	-13.36	27.25
90.00	19 1 53	5356.97	27.74	244.45	191.77	84.05	20 31 10	4757.0	26.62	235.96
100.00	10 48 16	1853.55	-17.95	15.63	184.56	114.31	11 19 9	1253.5	-14.52	8.52
100.00	20 28 1	5079.19	29.15	223.84	191.58	83.07	21 52 40	4479.2	27.89	215.26
110.00	11 45 38	1673.91	-21.41	.22	182.78	117.31	12 13 32	1073.9	-17.58	353.19
110.00	21 47 8	4831.59	32.95	204.39	190.94	80.34	23 7 40	4231.6	31.27	195.57

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.6704 TRA-2.3327 TC3 -.2379 BAU .1552 SGT 2163.0 SGR 503.8 SG3 154.3 ST 849.7 SR 285.7 SS 777.7
RDE -.2979 RRA .4537 RC3 -.1229 FAU .01833 RRT -.5716 RRF .6021 RTF -.9068 CRT .3171 CRS .4912 CST .9813
FDE .7620 FRA 1.7977 FC3 -.3660 BSP 6909 SGB 2220.9 R23 -.0786 R13 .9092 LSA 1152.5 MSA 282.8 SSA 17.2
BDE .7336 BRA 2.3764 BC3 .2678 FSP -423 SG1 2182.8 SG2 409.6 THA 172.14 EL1 855.0 EL2 269.3 ALF 6.76

LAUNCH DATE SEP 20 1965 FLIGHT TIME 120.00 ARRIVAL DATE JAN 18 1966

HELIOCENTRIC CONIC DISTANCE 287.281

RL 150.23 LAL -.00 LOL 356.83 VL 25.638 GAL 9.08 AZL 87.79 HCA 115.54 SMA 119.61 ECC .29796 INC 2.2136 VI 29.660
RP 107.51 LAP 2.00 LOP 112.38 VP 36.868 GAP -16.36 AZP 90.95 TAL 157.11 TAP 272.65 RCA 83.97 APO 155.25 V2 35.247
RC 41.430 GL 8.85 GP -12.49 ZAL 44.63 ZAP 12.49 ETS 85.75 ZAE 152.60 ETE 224.45 ZAC 37.62 ETC 132.75 CLP -.30

PLANETOCENTRIC CONIC

C3 40.421 VHL 6.358 DLA -8.44 RAL 312.84 RAD 6568.6 VEL 12.720 PTH 2.31 VHP 10.560 DPA -35.98 RAP 295.97 ECC 1.6652

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 21 16	2124.10	-17.27	35.83	184.09	112.79	9 56 40	1524.1	-14.04	28.65
90.00	19 11 42	5297.95	27.25	240.20	189.73	81.97	20 40 0	4698.0	25.85	231.81
100.00	10 38 31	1874.89	-18.54	16.93	183.51	113.87	11 9 46	1274.9	-15.16	9.77
100.00	20 37 8	5022.39	28.61	219.70	189.50	80.96	22 0 51	4422.4	27.07	211.24
110.00	11 37 26	1690.44	-21.92	1.23	181.81	116.91	12 5 36	1090.4	-18.13	354.14
110.00	21 54 43	4779.61	32.29	200.48	188.71	78.11	23 14 23	4179.6	30.31	191.82

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.6761 TRA-2.3361 TC3 -.2231 BAU .1428 SGT 2231.9 SGR 516.1 SG3 167.5 ST 882.6 SR 262.5 SS 820.6
RDE -.2543 RRA .4675 RC3 -.1417 FAU .01911 RRT -.6213 RRF .6551 RTF -.9136 CRT .2508 CRS .4371 CST .9798
FDE .8183 FRA 1.8830 FC3 -.4092 BSP 7205 SGB 2290.8 R23 -.0875 R13 .9163 LSA 1202.5 MSA 273.7 SSA 17.1
BDE .7223 BRA 2.3824 BC3 .2643 FSP -462 SG1 2255.6 SG2 400.2 THA 171.56 EL1 885.3 EL2 253.3 ALF 4.65

LAUNCH DATE SEP 20 1965 FLIGHT TIME 122.00 ARRIVAL DATE JAN 20 1966

HELIOCENTRIC CONIC DISTANCE 294.107

RL 150.23 LAL -.00 LOL 356.83 VL 25.795 GAL 8.68 AZL 87.55 HCA 118.78 SMA 120.49 ECC .28692 INC 2.4524 VI 29.660
RP 107.50 LAP 2.15 LOP 115.63 VP 36.981 GAP -15.51 AZP 91.18 TAL 156.93 TAP 275.71 RCA 85.92 APO 155.06 V2 35.251
RC 40.873 GL 10.22 GP -13.54 ZAL 44.64 ZAP 13.65 ETS 79.66 ZAE 153.19 ETE 231.18 ZAC 39.59 ETC 133.75 CLP -1.78

PLANETOCENTRIC CONIC

C3 37.798 VHL 6.148 DLA -7.06 RAL 312.68 RAD 6568.5 VEL 12.616 PTH 2.29 VHP 10.113 DPA -36.78 RAP 298.28 ECC 1.6221

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 9 50	2151.48	-17.99	37.53	183.03	112.24	9 45 42	1551.5	-14.82	30.29
90.00	19 21 52	5236.68	26.59	235.84	187.66	79.88	20 49 8	4636.7	24.92	227.57
100.00	10 27 48	1899.96	-19.23	18.48	182.48	113.34	10 59 28	1300.0	-15.91	11.26
100.00	20 46 35	4963.43	27.91	215.46	187.38	78.83	22 9 18	4363.4	26.08	207.14
110.00	11 28 20	1710.45	-22.53	2.46	180.84	116.41	11 56 50	1110.5	-18.80	355.31
110.00	22 2 32	4725.70	31.46	196.50	186.46	75.89	23 21 18	4125.7	29.20	188.02

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.6832 TRA-2.3390 TC3 -.2091 BAU .1339 SGT 2301.3 SGR 534.4 SG3 181.8 ST 916.3 SR 238.2 SS 866.9
RDE -.2092 RRA .4850 RC3 -.1629 FAU .01992 RRT -.6707 RRF .7085 RTF -.9193 CRT .1565 CRS .3557 CST .9783
FDE .8813 FRA 1.9743 FC3 -.4563 BSP 7450 SGB 2362.5 R23 -.0993 R13 .9223 LSA 1256.0 MSA 264.5 SSA 17.0
BDE .7145 BRA 2.3888 BC3 .2650 FSP -505 SG1 2329.8 SG2 391.5 THA 170.89 EL1 917.1 EL2 235.0 ALF 2.49

LAUNCH DATE SEP 20 1965 FLIGHT TIME 124.00 ARRIVAL DATE JAN 22 1966

HELIOCENTRIC CONIC DISTANCE 300.933

RL 150.23 LAL -.00 LOL 356.83 VL 25.941 GAL 8.31 AZL 87.29 HCA 122.02 SMA 121.33 ECC .27652 INC 2.7067 VI 29.660
RP 107.49 LAP 2.29 LOP 118.87 VP 37.087 GAP -14.69 AZP 91.44 TAL 156.80 TAP 278.82 RCA 87.78 APO 154.87 V2 35.254
RC 40.482 GL 11.74 GP -14.73 ZAL 44.76 ZAP 15.09 ETS 74.56 ZAE 153.34 ETE 238.37 ZAC 41.64 ETC 134.55 CLP -3.28

PLANETOCENTRIC CONIC

C3 35.483 VHL 5.957 DLA -5.55 RAL 312.44 RAD 6568.4 VEL 12.524 PTH 2.27 VHP 9.688 DPA -37.70 RAP 300.61 ECC 1.5840

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 57 18	2183.27	-18.80	39.51	182.00	111.58	9 33 41	1583.3	-15.70	32.20
90.00	19 32 26	5172.93	25.75	231.36	185.56	77.79	20 58 39	4572.9	23.81	223.23
100.00	10 16 1	1929.33	-20.01	20.31	181.48	112.68	10 48 10	1329.3	-16.76	13.02
100.00	20 56 24	4902.11	27.02	211.12	185.24	76.71	22 18 6	4302.1	24.93	202.95
110.00	11 18 15	1734.48	-23.25	3.96	179.91	115.79	11 47 10	1134.5	-19.59	356.73
110.00	22 10 40	4669.72	30.46	192.44	184.21	73.68	23 28 29	4069.7	27.93	184.16

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.6899 TRA-2.3392 TC3 -.1889 BAU .1260 SGT 2366.7 SGR 560.2 SG3 197.2 ST 948.8 SR 214.4 SS 916.0
RDE -.1621 RRA .5070 RC3 -.1866 FAU .02082 RRT -.7196 RRF .7607 RTF -.9248 CRT .0188 CRS .2312 CST .9766
FDE .9510 FRA 2.0710 FC3 -.5080 BSP 7757 SGB 2432.1 R23 -.1112 R13 .9283 LSA 1311.4 MSA 255.5 SSA 16.8
BDE .7087 BRA 2.3935 BC3 .2656 FSP -554 SG1 2401.7 SG2 383.3 THA 170.08 EL1 948.8 EL2 214.3 ALF .26

LAUNCH DATE SEP 20 1965 FLIGHT TIME 126.00 ARRIVAL DATE JAN 24 1966

HELIOCENTRIC CONIC DISTANCE 307.756

RL 150.23 LAL -.00 LOL 356.83 VL 26.077 GAL 7.96 AZL 87.02 HCA 125.26 SMA 122.11 ECC .26676 INC 2.9797 V1 29.660
RP 107.48 LAP 2.43 LOP 122.12 VP 37.184 GAP -13.89 AZP 91.72 TAL 156.70 TAP 281.96 RCA 89.54 APO 154.69 V2 35.256
RC 40.263 GL 13.42 GP -16.10 ZAL 45.01 ZAP 16.78 ETS 70.41 ZAE 152.99 ETE 245.72 ZAC 43.78 ETC 135.17 CLP -4.81

PLANETOCENTRIC CONIC

C3 33.463 VHL 5.785 DLA -3.90 RAL 312.10 RAD 6568.3 VEL 12.443 PTH 2.25 VHP 9.285 DPA -38.75 RAP 302.98 ECC 1.5507

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 43 31	2220.17	-19.70	41.84	181.03	110.76	9 20 31	1620.2	-16.70	34.44
90.00	19 43 33	5106.46	24.71	226.77	183.48	75.71	21 8 39	4506.5	22.50	218.79
100.00	10 3 2	1963.67	-20.90	22.48	180.53	111.88	10 35 46	1363.7	-17.74	15.10
100.00	21 6 43	4838.20	25.95	206.68	183.12	74.61	22 27 21	4238.2	23.58	198.68
110.00	11 7 5	1763.14	-24.09	5.76	179.03	115.02	11 36 29	1163.1	-20.51	358.44
110.00	22 19 9	4611.49	29.27	188.32	181.97	71.51	23 36 0	4011.5	26.47	180.26

DIFFERENTIAL CORRECTIONS
TDE -.7011 TRA-2.3410 TC3 -.1683 BAU .1214
RDE -.1117 RRA .5347 RC3 -.2128 FAU .02171
FOE 1.0304 FRA 2.1745 FC3 -.5615 BSP .8011
BDE .7099 BRA 2.4013 BC3 .2713 FSP -604

MID-COURSE EXECUTION ACCURACY
SGT 2433.4 SGR 595.5 SG3 213.8
RRT -.7653 RRF .8095 RTF -.9298
SGB 2505.2 R23 -.1250 R13 .9339
SG1 2476.7 SG2 376.6 THA 169.14

ORBIT DETERMINATION ACCURACY
ST 984.0 SR 194.1 SS 969.8
CRT -.1789 CRS .0410 CST .9752
LSA 1373.1 MSA 246.6 SSA 16.5
EL1 984.7 EL2 190.8 ALF 177.90

LAUNCH DATE SEP 20 1965 FLIGHT TIME 128.00 ARRIVAL DATE JAN 26 1966

HELIOCENTRIC CONIC DISTANCE 314.575

RL 150.23 LAL -.00 LOL 356.83 VL 26.203 GAL 7.62 AZL 86.72 HCA 128.50 SMA 122.86 ECC .25760 INC 3.2754 V1 29.660
RP 107.48 LAP 2.56 LOP 125.37 VP 37.274 GAP -13.12 AZP 92.04 TAL 156.63 TAP 285.13 RCA 91.21 APO 154.51 V2 35.258
RC 40.219 GL 15.27 GP -17.65 ZAL 45.40 ZAP 18.74 ETS 67.11 ZAE 152.07 ETE 252.88 ZAC 46.02 ETC 135.62 CLP -6.38

PLANETOCENTRIC CONIC

C3 31.736 VHL 5.633 DLA -2.10 RAL 311.67 RAD 6568.3 VEL 12.374 PTH 2.23 VHP 8.907 DPA -39.98 RAP 305.41 ECC 1.5223

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 28 20	2262.98	-20.71	44.57	180.14	109.75	9 6 3	1663.0	-17.83	37.08
90.00	19 55 18	5036.94	23.46	222.06	181.42	73.67	21 19 15	4436.9	21.00	214.25
100.00	9 48 42	2003.74	-21.89	25.04	179.67	110.88	10 22 6	1403.7	-18.86	17.56
100.00	21 17 37	4771.42	24.66	202.13	181.02	72.55	22 37 8	4171.4	22.04	194.32
110.00	10 54 43	1797.12	-25.05	7.93	178.25	114.06	11 24 40	1197.1	-21.58	.49
110.00	22 28 6	4550.81	27.89	184.14	179.78	69.39	23 43 57	3950.8	24.83	176.31

DIFFERENTIAL CORRECTIONS
TDE -.7158 TRA-2.3428 TC3 -.1455 BAU .1196
RDE -.0569 RRA .5692 RC3 -.2414 FAU .02258
FOE 1.1203 FRA 2.2837 FC3 -.6161 BSP .8253
BDE .7181 BRA 2.4110 BC3 .2819 FSP -658

MID-COURSE EXECUTION ACCURACY
SGT 2498.4 SGR 642.6 SG3 231.5
RRT -.8063 RRF .8532 RTF -.9346
SGB 2579.7 R23 -.1395 R13 .9393
SG1 2552.8 SG2 372.0 THA 168.03

ORBIT DETERMINATION ACCURACY
ST 1020.6 SR 183.4 SS 1028.1
CRT -.4390 CRS -.2262 CST .9740
LSA 1440.6 MSA 238.3 SSA 16.1
EL1 1023.9 EL2 164.2 ALF 175.37

LAUNCH DATE SEP 20 1965 FLIGHT TIME 130.00 ARRIVAL DATE JAN 28 1966

HELIOCENTRIC CONIC DISTANCE 321.386

RL 150.23 LAL -.00 LOL 356.83 VL 26.320 GAL 7.31 AZL 86.40 HCA 131.74 SMA 123.56 ECC .24903 INC 3.5991 V1 29.660
RP 107.48 LAP 2.68 LOP 128.62 VP 37.357 GAP -12.36 AZP 92.40 TAL 156.60 TAP 288.34 RCA 92.79 APO 154.33 V2 35.259
RC 40.350 GL 17.32 GP -19.44 ZAL 45.95 ZAP 20.96 ETS 64.54 ZAE 150.60 ETE 259.50 ZAC 48.37 ETC 135.90 CLP -7.98

PLANETOCENTRIC CONIC

C3 30.301 VHL 5.505 DLA -.12 RAL 311.14 RAD 6568.2 VEL 12.316 PTH 2.22 VHP 8.555 DPA -41.40 RAP 307.91 ECC 1.4987

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 11 34	2312.67	-21.82	47.79	179.36	108.51	8 50 6	1712.7	-19.09	40.18
90.00	20 7 51	4964.01	21.98	217.22	179.43	71.68	21 30 35	4364.0	19.27	209.60
100.00	9 32 51	2050.46	-22.99	28.07	178.92	109.65	10 7 1	1450.5	-20.10	20.47
100.00	21 29 15	4701.45	23.15	197.48	179.00	70.54	22 47 36	4101.4	20.29	189.86
110.00	10 40 58	1837.24	-26.14	10.54	177.58	112.86	11 11 35	1237.2	-22.81	2.96
110.00	22 37 37	4487.43	26.30	179.90	177.66	67.33	23 52 24	3887.4	23.00	172.30

DIFFERENTIAL CORRECTIONS
TDE -.7346 TRA-2.3449 TC3 -.1210 BAU .1208
RDE .0039 RRA .6120 RC3 -.2724 FAU .02342
FOE 1.2220 FRA 2.3975 FC3 -.6691 BSP .8492
BDE .7346 BRA 2.4234 BC3 .2981 FSP -715

MID-COURSE EXECUTION ACCURACY
SGT 2561.1 SGR 704.1 SG3 250.2
RRT -.8418 RRF .8904 RTF -.9390
SGB 2656.1 R23 -.1539 R13 .9447
SG1 2630.2 SG2 370.1 THA 166.70

ORBIT DETERMINATION ACCURACY
ST 1058.7 SR 191.4 SS 1091.1
CRT -.7060 CRS -.5257 CST .9731
LSA 1514.7 MSA 231.0 SSA 15.5
EL1 1067.4 EL2 134.4 ALF 172.61

LAUNCH DATE SEP 20 1965 FLIGHT TIME 132.00 ARRIVAL DATE JAN 30 1966

HELIOCENTRIC CONIC DISTANCE 328.187

RL 150.23 LAL -.00 LOL 356.83 VL 26.427 GAL 7.01 AZL 86.04 HCA 134.97 SMA 124.22 ECC .24103 INC 3.9571 V1 29.660
RP 107.48 LAP 2.80 LOP 131.87 VP 37.433 GAP -11.63 AZP 92.80 TAL 156.60 TAP 291.57 RCA 94.28 APO 154.16 V2 35.259
RC 40.657 GL 19.58 GP -21.50 ZAL 46.69 ZAP 23.46 ETS 62.59 ZAE 148.57 ETE 265.35 ZAC 50.86 ETC 136.03 CLP -9.62

PLANETOCENTRIC CONIC

C3 29.168 VHL 5.401 DLA 2.05 RAL 310.51 RAD 6568.2 VEL 12.270 PTH 2.21 VHP 8.233 DPA -43.06 RAP 310.53 ECC 1.4800

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 52 56	2370.39	-23.02	51.60	178.74	106.96	8 32 26	1770.4	-20.48	43.85
90.00	20 21 23	4887.19	20.25	212.25	177.53	69.78	21 42 50	4287.2	17.32	204.81
100.00	9 15 14	2104.93	-24.19	31.67	178.33	108.11	9 50 18	1504.9	-21.49	23.92
100.00	21 41 47	4627.88	21.40	192.72	177.07	68.62	22 58 54	4027.9	18.31	185.29
110.00	10 25 40	1884.47	-27.35	13.68	177.08	111.36	10 57 4	1284.5	-24.20	5.93
110.00	22 47 50	4421.11	24.49	175.60	175.64	65.37	24 1 31	3821.1	20.96	168.23

DIFFERENTIAL CORRECTIONS
TDE -.7552 TRA-2.3437 TC3 -.0905 BAU .1244
RDE .0726 RRA .6644 RC3 -.3059 FAU .02425
FOE 1.3349 FRA 2.5112 FC3 -.7199 BSP .8811
BDE .7587 BRA 2.4360 BC3 .3190 FSP -777

MID-COURSE EXECUTION ACCURACY
SGT 2615.6 SGR 782.7 SG3 269.3
RRT -.8715 RRF .9207 RTF -.9433
SGB 2730.2 R23 -.1665 R13 .9500
SG1 2704.9 SG2 371.1 THA 165.10

ORBIT DETERMINATION ACCURACY
ST 1095.0 SR 225.4 SS 1157.1
CRT -.8899 CRS -.7598 CST .9721
LSA 1593.0 MSA 225.5 SSA 14.7
EL1 1113.4 EL2 101.1 ALF 169.53

LAUNCH DATE SEP 20 1965 FLIGHT TIME 134.00 ARRIVAL DATE FEB 1 1966

HELIOCENTRIC CONIC DISTANCE 334.976

RL	150.23	LAL	-.00	LOL	356.83	VL	26.527	GAL	6.73	AZL	85.64	HCA	138.21	SMA	124.83	ECC	.23358	INC	4.3581	VI	29.660
RP	107.48	LAP	2.90	LOP	135.12	VP	37.503	GAP	-10.93	AZP	93.25	TAL	156.62	TAP	294.83	RCA	95.67	APO	153.99	V2	35.258
RC	41.135	GL	22.08	GP	-23.89	ZAL	47.64	ZAP	26.28	ETS	61.17	ZAE	146.03	ETE	270.32	ZAC	53.53	ETC	136.02	CLP	-11.30

PLANETOCENTRIC CONIC

C3	28.359	VHL	5.325	DLA	4.44	RAL	309.75	RAD	6568.1	VEL	12.237	PTH	2.20	VHP	7.947	DPA	-45.00	RAP	313.32	ECC	1.4667

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 32 7	2437.59	-24.28	56.12	178.32	105.03	8 12 44	1837.6	-21.98	48.20
90.00	20 36 11	4805.94	18.26	207.13	175.78	67.97	21 56 17	4205.9	15.11	199.87
100.00	8 55 32	2168.50	-25.47	35.96	177.95	106.20	9 31 41	1568.5	-23.00	28.03
100.00	21 55 26	4550.25	19.40	187.82	175.28	66.80	23 11 17	3950.3	16.09	180.59
110.00	10 8 33	1939.97	-28.67	17.46	176.80	109.47	10 40 53	1340.0	-25.74	9.50
110.00	22 58 55	4351.55	22.44	171.23	173.77	63.51	24 11 26	3751.5	18.70	164.09

DIFFERENTIAL CORRECTIONS								MID-COURSE EXECUTION ACCURACY				ORBIT DETERMINATION ACCURACY			
TDE	-.7857	TRA	-2.3466	TC3	-.0642	BAU	.1312	SGT	2670.6	SGR	881.7	SG3	288.6	ST	1136.6	SR	287.9	SS	1228.8
RDE	.1529	RRA	.7291	RC3	-.3401	FAU	.02485	RRT	-.8947	RRF	.9441	RTF	-.9472	CRT	-.9729	CRS	-.8925	CST	.9719
FDE	1.4637	FRA	2.6248	FC3	-.7587	BSP	9063	SGB	2812.3	R23	-.1777	R13	.9552	LSA	1683.9	MSA	221.3	SSA	13.8
BDE	.8005	BRA	2.4572	BC3	.3462	FSP	-837	SG1	2786.9	SG2	377.3	THA	163.23	EL1	1170.7	EL2	64.7	ALF	166.11

LAUNCH DATE SEP 20 1965 FLIGHT TIME 136.00 ARRIVAL DATE FEB 3 1966

HELIOCENTRIC CONIC DISTANCE 341.751

RL	150.23	LAL	-.00	LOL	356.83	VL	26.618	GAL	6.47	AZL	85.19	HCA	141.45	SMA	125.41	ECC	.22666	INC	4.8132	VI	29.660
RP	107.48	LAP	3.00	LOP	138.37	VP	37.567	GAP	-10.24	AZP	93.77	TAL	156.67	TAP	298.12	RCA	96.98	APO	153.83	V2	35.257
RC	41.780	GL	24.84	GP	-26.64	ZAL	48.83	ZAP	29.44	ETS	60.20	ZAE	142.99	ETE	274.38	ZAC	56.40	ETC	135.89	CLP	-13.01

PLANETOCENTRIC CONIC

C3	27.911	VHL	5.283	DLA	7.05	RAL	308.86	RAD	6568.1	VEL	12.218	PTH	2.20	VHP	7.702	DPA	-47.27	RAP	316.34	ECC	1.4593

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 8 39	2516.12	-25.56	61.52	178.16	102.62	7 50 35	1916.1	-23.57	53.41
90.00	20 52 35	4719.47	15.97	201.81	174.21	66.30	22 11 14	4119.5	12.63	194.73
100.00	8 33 22	2242.88	-26.78	41.10	177.84	103.80	9 10 45	1642.9	-24.62	32.97
100.00	22 10 33	4467.93	17.11	182.78	173.67	65.11	23 25 1	3867.9	13.61	175.73
110.00	9 49 19	2005.18	-30.06	22.02	176.81	107.10	10 22 44	1405.2	-27.43	13.82
110.00	23 11 5	4278.40	20.15	166.79	172.07	61.79	24 22 23	3678.4	16.23	159.87

DIFFERENTIAL CORRECTIONS								MID-COURSE EXECUTION ACCURACY				ORBIT DETERMINATION ACCURACY			
TDE	-.8226	TRA	-2.3488	TC3	-.0355	BAU	.1404	SGT	2717.6	SGR	1004.2	SG3	306.8	ST	1178.5	SR	377.8	SS	1302.9
RDE	.2482	RRA	.8079	RC3	-.3745	FAU	.02525	RRT	-.9129	RRF	.9616	RTF	-.9509	CRT	-.9973	CRS	-.9544	CST	.9719
FDE	1.6056	FRA	2.7293	FC3	-.7833	BSP	9373	SGB	2897.2	R23	-.1845	R13	.9605	LSA	1783.5	MSA	219.3	SSA	12.6
BDE	.8593	BRA	2.4838	BC3	.3762	FSP	-898	SG1	2871.1	SG2	388.0	THA	161.00	EL1	1237.3	EL2	26.2	ALF	162.26

LAUNCH DATE SEP 20 1965 FLIGHT TIME 138.00 ARRIVAL DATE FEB 5 1966

HELIOCENTRIC CONIC DISTANCE 348.510

RL	150.23	LAL	-.00	LOL	356.83	VL	26.703	GAL	6.22	AZL	84.66	HCA	144.68	SMA	125.94	ECC	.22025	INC	5.3376	VI	29.660
RP	107.49	LAP	3.08	LOP	141.62	VP	37.624	GAP	-9.57	AZP	94.36	TAL	156.74	TAP	301.42	RCA	98.20	APO	153.68	V2	35.255
RC	42.583	GL	27.88	GP	-29.84	ZAL	50.28	ZAP	32.98	ETS	59.58	ZAE	139.48	ETE	277.61	ZAC	59.52	ETC	135.66	CLP	-14.74

PLANETOCENTRIC CONIC

C3	27.888	VHL	5.281	DLA	9.92	RAL	307.83	RAD	6568.1	VEL	12.217	PTH	2.20	VHP	7.509	DPA	-49.92	RAP	319.73	ECC	1.4590

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 41 55	2608.44	-26.77	68.00	178.33	99.59	7 25 23	2008.4	-25.17	59.70
90.00	21 11 5	4626.73	13.35	196.26	172.91	64.80	22 28 11	4026.7	9.85	189.34
100.00	8 8 9	2330.30	-28.05	47.29	178.07	100.78	8 46 59	1730.3	-26.28	38.93
100.00	22 27 31	4380.11	14.52	177.55	172.33	63.58	23 40 31	3780.1	10.86	170.67
110.00	9 27 32	2081.90	-31.47	27.56	177.21	104.10	10 2 14	1481.9	-29.21	19.08
110.00	23 24 38	4201.26	17.61	162.26	170.61	60.22	24 34 39	3601.3	13.51	155.54

DIFFERENTIAL CORRECTIONS								MID-COURSE EXECUTION ACCURACY				ORBIT DETERMINATION ACCURACY			
TDE	-.8696	TRA	-2.3520	TC3	-.0081	BAU	.1516	SGT	2757.0	SGR	1153.5	SG3	322.7	ST	1222.4	SR	495.5	SS	1377.9
RDE	.3643	RRA	.9033	RC3	-.4066	FAU	.02529	RRT	-.9266	RRF	.9740	RTF	-.9544	CRT	-.9988	CRS	-.9813	CST	.9723
FDE	1.7596	FRA	2.8156	FC3	-.7851	BSP	9744	SGB	2988.6	R23	-.1865	R13	.9659	LSA	1894.7	MSA	219.3	SSA	11.3
BDE	.9428	BRA	2.5195	BC3	.4067	FSP	-955	SG1	2961.2	SG2	404.0	THA	158.39	EL1	1318.8	EL2	22.8	ALF	157.95

LAUNCH DATE SEP 20 1965 FLIGHT TIME 140.00 ARRIVAL DATE FEB 7 1966

HELIOCENTRIC CONIC DISTANCE 355.251

RL	150.23	LAL	-.00	LOL	356.83	VL	26.780	GAL	6.00	AZL	84.05	HCA	147.91	SMA	126.44	ECC	.21434	INC	5.9528	VI	29.660
RP	107.50	LAP	3.16	LOP	144.87	VP	37.676	GAP	-8.92	AZP	95.05	TAL	156.83	TAP	304.74	RCA	99.33	APO	153.54	V2	35.252
RC	43.538	GL	31.22	GP	-33.55	ZAL	52.04	ZAP	36.95	ETS	59.27	ZAE	135.47	ETE	280.10	ZAC	62.96	ETC	135.38	CLP	-16.47

PLANETOCENTRIC CONIC

C3	28.394	VHL	5.329	DLA	13.06	RAL	306.63	RAD	6568.1	VEL	12.238	PTH	2.20	VHP	7.382	DPA	-52.98	RAP	323.68	ECC	1.4673

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 10 57	2718.02	-27.77	75.86	178.89	95.77	6 56 15	2118.0	-26.68	67.37
90.00	21 32 27	4526.12	10.36	190.38	171.97	63.50	22 47 53	3926.1	6.72	183.60
100.00	7 39 4	2433.80	-29.14	54.79	178.72	96.98	8 19 38	1833.8	-27.87	46.21
100.00	22 47 1	4285.57	11.59	172.06	171.33	62.25	23 58 26	3685.6	7.78	165.34
110.00	9 2 35	2172.47	-32.77	34.30	178.07	100.31	9 38 48	1572.5	-31.00	25.52
110.00	23 39 59	4119.67	14.79	157.62	169.48	58.82	24 48 39	3519.7	10.55	151.08

DIFFERENTIAL CORRECTIONS								MID-COURSE EXECUTION ACCURACY				ORBIT DETERMINATION ACCURACY			
TDE	-.9339	TRA	-2.3615	TC3	.0118	BAU	.1641	SGT	2793.4	SGR	1332.8	SG3	334.4	ST	1272.7	SR	643.7	SS	1452.4
RDE	.5097	RRA	1.0185	RC3	-.4321	FAU	.02470	RRT	-.9365	RRF	.9826	RTF	-.9577	CRT	-.9937	CRS	-.9927	CST	.9735
FDE	1.9240	FRA	2.8735	FC3	-.7530	BSP	10099	SGB	3095.1	R23	-.1832	R13	.9712	LSA	2023.5	MSA	220.8	SSA	9.9
BDE	1.0639	BRA	2.5718	BC3	.4323	FSP	-999	SG1	3065.7	SG2	425.9	THA	155.42	EL1	1424.8	EL2	64.3	ALF	153.26

LAUNCH DATE SEP 20 1965 FLIGHT TIME 142.00 ARRIVAL DATE FEB 9 1966

HELIOCENTRIC CONIC DISTANCE 361.971

RL 150.23 LAL -.00 LOL 356.83 VL 26.850 GAL 5.79 AZL 83.31 HCA 151.13 SMA 126.89 ECC .20891 INC 6.6893 VI 29.660
RP 107.51 LAP 3.22 LOP 148.12 VP 37.723 GAP -8.29 AZP 95.86 TAL 156.93 TAP 308.06 RCA 100.38 APO 153.40 V2 35.249
RC 44.633 GL 34.89 GP -37.83 ZAL 54.14 ZAP 41.37 ETS 59.20 ZAE 130.95 ETE 282.01 ZAC 66.76 ETC 135.13 CLP -18.17

PLANETOCENTRIC CONIC

C3 29.599 VHL 5.440 DLA 16.48 RAL 305.23 RAD 6568.2 VEL 12.287 PTH 2.21 VHP 7.341 DPA -56.46 RAP 328.51 ECC 1.4871

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 34 12	2850.15	-28.30	85.49	179.85	90.98	6 21 42	2250.2	-27.87	76.85
90.00	21 58 0	4414.77	6.91	184.02	171.55	62.47	23 11 35	3814.8	3.17	177.34
100.00	7 4 50	2557.87	-29.82	63.94	179.81	92.21	7 47 28	1957.9	-29.19	55.19
100.00	23 10 3	4182.28	8.25	166.20	170.82	61.17	24 19 46	3582.3	4.34	159.60
110.00	8 33 38	2280.04	-33.78	42.53	179.49	95.55	9 11 38	1680.0	-32.65	33.47
110.00	0 1 41	4032.88	11.67	152.82	168.77	57.64	1 8 54	3432.9	7.32	146.43

DIFFERENTIAL CORRECTIONS
TOE-1.0062 TRA-2.3645 TC3 .0436 BAU .1792
RDE .6917 RRA 1.1517 RC3 -.4507 FAU .02378
FDE 2.0798 FRA 2.8747 FC3 -.6956 BSP 10835
BDE 1.2210 BRA 2.6301 BC3 .4528 FSP -1045

MID-COURSE EXECUTION ACCURACY
SGT 2805.2 SGR 1539.8 SG3 338.4
RRT -.9445 RRF .9883 RTF -.9608
SGB 3200.0 R23 -.1733 R13 .9766
SG1 3168.6 SG2 447.7 THA 151.99

ORBIT DETERMINATION ACCURACY
ST 1315.2 SR 821.5 SS 1513.6
CRT -.9881 CRS -.9974 CST .9746
LSA 2155.3 MSA 224.7 SSA 8.4
EL1 1547.0 EL2 107.6 ALF 148.15

LAUNCH DATE SEP 20 1965 FLIGHT TIME 144.00 ARRIVAL DATE FEB 11 1966

HELIOCENTRIC CONIC DISTANCE 368.674

RL 150.23 LAL -.00 LOL 356.83 VL 26.915 GAL 5.60 AZL 82.41 HCA 154.35 SMA 127.32 ECC .20395 INC 7.5932 VI 29.660
RP 107.52 LAP 3.28 LOP 151.37 VP 37.765 GAP -7.68 AZP 96.85 TAL 157.03 TAP 311.39 RCA 101.35 APO 153.28 V2 35.244
RC 45.858 GL 38.88 GP -42.73 ZAL 56.60 ZAP 46.27 ETS 59.35 ZAE 125.89 ETE 283.52 ZAC 71.00 ETC 135.02 CLP -19.76

PLANETOCENTRIC CONIC

C3 31.801 VHL 5.639 DLA 20.19 RAL 303.58 RAD 6568.3 VEL 12.376 PTH 2.23 VHP 7.420 DPA -60.32 RAP 334.78 ECC 1.5234

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 48 54	3014.10	-27.91	97.45	181.15	85.00	5 39 8	2414.1	-28.31	88.81
90.00	22 30 13	4286.85	2.84	176.83	171.89	61.81	23 41 40	3686.9	-.95	170.20
100.00	6 23 16	2709.79	-29.68	75.22	181.30	86.28	7 8 26	2109.8	-29.88	66.42
100.00	23 38 31	4066.39	4.40	159.76	171.03	60.40	24 46 18	3466.4	.42	153.23
110.00	7 59 23	2409.09	-34.18	52.58	181.49	89.62	8 39 32	1809.1	-33.86	43.35
110.00	0 22 50	3939.85	8.24	147.81	168.67	56.71	1 28 30	3339.9	3.80	141.53

DIFFERENTIAL CORRECTIONS
TOE-1.1873 TRA-2.4569 TC3 -.0335 BAU .1806
RDE .9519 RRA 1.3307 RC3 -.4235 FAU .01912
FDE 2.2840 FRA 2.8733 FC3 -.5206 BSP 9759

MID-COURSE EXECUTION ACCURACY
SGT 2920.7 SGR 1799.6 SG3 339.1
RRT -.9474 RRF .9918 RTF -.9639
SGB 3430.6 R23 -.1603 R13 .9817

ORBIT DETERMINATION ACCURACY
ST 1446.3 SR 1059.4 SS 1603.4
CRT -.9865 CRS -.9993 CST .9796
LSA 2394.9 MSA 222.5 SSA 7.3

LAUNCH DATE SEP 20 1965 FLIGHT TIME 146.00 ARRIVAL DATE FEB 13 1966

HELIOCENTRIC CONIC DISTANCE 375.342

RL 150.23 LAL -.00 LOL 356.83 VL 26.973 GAL 5.42 AZL 81.26 HCA 157.56 SMA 127.70 ECC .19942 INC 8.7363 VI 29.660
RP 107.54 LAP 3.32 LOP 154.62 VP 37.802 GAP -7.08 AZP 98.08 TAL 157.15 TAP 314.71 RCA 102.24 APO 153.17 V2 35.239
RC 47.202 GL 43.20 GP -48.30 ZAL 59.46 ZAP 51.64 ETS 59.74 ZAE 120.24 ETE 284.86 ZAC 75.72 ETC 135.24 CLP -21.10

PLANETOCENTRIC CONIC

C3 35.503 VHL 5.958 DLA 24.15 RAL 301.63 RAD 6568.4 VEL 12.525 PTH 2.27 VHP 7.665 DPA -64.39 RAP 343.48 ECC 1.5843

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	3 48 1	3231.88	-25.64	112.97	182.31	77.56	4 41 52	2631.9	-27.10	104.61
90.00	23 15 28	4124.61	-2.39	167.77	173.51	61.78	24 24 13	3524.6	-6.15	161.11
100.00	5 29 32	2904.52	-27.97	89.43	182.85	79.01	6 17 57	2304.5	-29.20	80.84
100.00	0 20 33	3927.20	-.31	152.11	172.35	60.11	1 26 0	3327.2	-4.29	145.58
110.00	7 17 28	2566.85	-33.43	64.82	183.89	82.42	8 0 15	1966.9	-34.12	55.64
110.00	0 49 6	3837.64	4.38	142.40	169.43	56.07	1 53 4	3237.6	-.10	136.19

DIFFERENTIAL CORRECTIONS
TOE-1.3275 TRA-2.4801 TC3 -.0007 BAU .1916
RDE 1.2631 RRA 1.5020 RC3 -.4036 FAU .01654
FDE 2.3868 FRA 2.7176 FC3 -.4033 BSP 11000
BDE 1.8324 BRA 2.8994 BC3 .4036 FSP -951

MID-COURSE EXECUTION ACCURACY
SGT 2908.7 SGR 2052.3 SG3 319.8
RRT -.9527 RRF .9941 RTF -.9673
SGB 3559.9 R23 -.1399 R13 .9865
SG1 3522.4 SG2 515.2 THA 145.24

ORBIT DETERMINATION ACCURACY
ST 1498.1 SR 1304.2 SS 1623.1
CRT -.9841 CRS -.9999 CST .9815
LSA 2555.0 MSA 227.6 SSA 5.9
EL1 1978.5 EL2 175.3 ALF 139.02

LAUNCH DATE SEP 20 1965 FLIGHT TIME 148.00 ARRIVAL DATE FEB 15 1966

HELIOCENTRIC CONIC DISTANCE 381.981

RL 150.23 LAL -.00 LOL 356.83 VL 27.027 GAL 5.26 AZL 79.76 HCA 160.76 SMA 128.06 ECC .19532 INCIQ.2376 VI 29.660
RP 107.55 LAP 3.36 LOP 157.87 VP 37.835 GAP -6.51 AZP 99.68 TAL 157.25 TAP 318.01 RCA 103.04 APO 153.07 V2 35.234
RC 48.656 GL 47.80 GP -54.51 ZAL 62.72 ZAP 57.40 ETS 60.55 ZAE 114.00 ETE 286.44 ZAC 80.96 ETC 136.15 CLP -21.88

PLANETOCENTRIC CONIC

C3 41.696 VHL 6.457 DLA 28.32 RAL 299.27 RAD 6568.6 VEL 12.770 PTH 2.32 VHP 8.160 DPA -68.24 RAP 356.25 ECC 1.6862

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
89.54	1 20 30	3731.19	-14.85	145.38	179.83	65.60	2 22 41	3131.2	-18.02	138.14
90.46	1 28 7	3706.53	-14.83	143.57	179.82	65.60	2 29 53	3106.5	-18.00	136.33
100.00	4 6 54	3194.39	-22.62	109.26	183.18	69.92	5 0 8	2594.4	-25.15	101.37
100.00	1 24 24	3718.57	-7.33	140.60	175.97	60.94	2 26 22	3118.6	-11.15	133.90
110.00	6 23 26	2767.01	-30.63	79.73	186.09	74.02	7 9 33	2167.0	-32.51	71.02
110.00	1 24 21	3718.71	-.16	136.19	171.55	55.82	2 26 20	3118.7	-4.64	129.98

DIFFERENTIAL CORRECTIONS
TOE-1.5828 TRA-2.5728 TC3 -.0119 BAU .1907
RDE 1.6900 RRA 1.6920 RC3 -.3418 FAU .01179
FDE 2.4597 FRA 2.4951 FC3 -.2448 BSP 11663
BDE 2.3155 BRA 3.0793 BC3 .3420 FSP -876

MID-COURSE EXECUTION ACCURACY
SGT 2949.2 SGR 2313.5 SG3 289.0
RRT -.9559 RRF .9952 RTF -.9714
SGB 3748.3 R23 -.1166 R13 .9907
SG1 3709.2 SG2 540.2 THA 142.19

ORBIT DETERMINATION ACCURACY
ST 1605.5 SR 1584.5 SS 1628.0
CRT -.9843 CRS-1.0000 CST .9851
LSA 2772.4 MSA 229.2 SSA 4.7
EL1 2246.9 EL2 199.6 ALF 135.38

LAUNCH DATE SEP 20 1965 FLIGHT TIME 150.00 ARRIVAL DATE FEB 17 1966

HELIOCENTRIC CONIC DISTANCE 388.581

RL 150.23 LAL -.00 LOL 356.83 VL 27.074 GAL 5.13 AZL 77.69 HCA 163.94 SMA 128.38 ECC .19165 INC12.3089 V1 29.660
RP 107.57 LAP 3.38 LOP 161.12 VP 37.863 GAP -5.35 AZP 101.84 TAL 157.34 TAP 321.28 RCA 103.77 APO 152.98 V2 35.227
RC 50.208 GL 52.57 GP -61.27 ZAL 66.39 ZAP 63.42 ETS 62.38 ZAE 107.17 ETE 289.04 ZAC 86.77 ETC 138.53 CLP +21.43

PLANETOCENTRIC CONIC

C3 52.404 VHL 7.239 DLA 32.56 RAL 296.38 RAD 6568.9 VEL 13.182 PTH 2.41 VHP 9.042 DPA -70.94 RAP 15.00 ECC 1.8624

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
73.22	22 59 30	4189.89	-15.02	179.54	181.55	60.77	24 9 20	3589.9	-18.80	172.59
106.78	3 22 9	3362.37	-15.01	118.14	181.54	60.76	4 18 11	2762.4	-18.79	111.19
73.22	22 59 30	4189.89	-15.02	179.54	181.55	60.77	24 9 20	3589.9	-18.80	172.59
106.78	3 22 9	3362.37	-15.01	118.14	181.54	60.76	4 18 11	2762.4	-18.79	111.19
110.00	5 1 52	3054.89	-23.61	99.13	186.25	64.53	5 52 47	2454.9	-26.84	91.45
110.00	2 22 53	3545.37	-6.75	127.11	176.41	56.41	3 21 58	2945.4	-11.12	120.74

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE-2.0193 TRA-2.7583 TC3 -.0359 BAU .1738 SGT 3044.0 SGR 2525.2 SG3 245.8 ST 1777.1 SR 1862.4 SS 1600.9
RDE 2.2578 RRA 1.8619 RC3 -.2454 FAU .00587 RRT -.9583 RRF .9951 RTF -.9769 CRT -.9861 CRS -.9998 CST .9894
FDE 2.4682 FRA 2.1978 FC3 -.0971 BSP 12327 SGB 3955.1 R23 -.0904 R13 .9943 LSA 3022.8 MSA 228.7 SSA 3.6
BDE 3.0290 BRA 3.3279 BC3 .2481 FSP -757 SG1 3915.1 SG2 561.0 THA 140.55 EL1 2565.3 EL2 214.7 ALF 133.64

LAUNCH DATE SEP 20 1965 FLIGHT TIME 152.00 ARRIVAL DATE FEB 19 1966

HELIOCENTRIC CONIC DISTANCE 395.126

RL 150.23 LAL -.00 LOL 356.83 VL 27.118 GAL 5.01 AZL 74.64 HCA 167.10 SMA 128.67 ECC .18841 INC15.3647 V1 29.660
RP 107.60 LAP 3.39 LOP 164.37 VP 37.887 GAP -5.42 AZP 104.99 TAL 157.40 TAP 324.49 RCA 104.42 APO 152.91 V2 35.220
RC 51.850 GL 57.29 GP -68.39 ZAL 70.44 ZAP 69.47 ETS 67.27 ZAE 99.73 ETE 294.85 ZAC 93.22 ETC 144.60 CLP -17.84

PLANETOCENTRIC CONIC

C3 72.356 VHL 8.506 DLA 36.60 RAL 292.78 RAD 6569.4 VEL 13.918 PTH 2.54 VHP 10.578 DPA -71.06 RAP 38.73 ECC 2.1908

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
65.78	22 1 7	4401.61	-13.74	195.32	183.57	55.74	23 14 29	3801.6	-18.14	188.79
114.22	3 51 45	3306.83	-13.72	112.97	183.56	55.73	4 46 52	2706.8	-18.12	106.44
65.78	22 1 7	4401.61	-13.74	195.32	183.57	55.74	23 14 29	3801.6	-18.14	188.79
114.22	3 51 45	3306.83	-13.72	112.97	183.56	55.73	4 46 52	2706.8	-18.12	106.44
65.78	22 1 7	4401.61	-13.74	195.32	183.57	55.74	23 14 29	3801.6	-18.14	188.79
114.22	3 51 45	3306.83	-13.72	112.97	183.56	55.73	4 46 52	2706.8	-18.12	106.44

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE-2.9070 TRA-3.1637 TC3 -.0723 BAU .1407 SGT 3300.7 SGR 2537.7 SG3 194.9 ST 2113.8 SR 2028.7 SS 1547.7
RDE 2.9282 RRA 1.8860 RC3 -.1263 FAU-.00085 RRT -.9593 RRF .9918 RTF -.9851 CRT -.9888 CRS -.9990 CST .9944
FDE 2.4158 FRA 1.8623 FC3 .0102 BSP 12992 SGB 4163.5 R23 -.0610 R13 .9971 LSA 3305.9 MSA 224.3 SSA 2.7
BDE 4.1262 BRA 3.6833 BC3 .1455 FSP -612 SG1 4123.8 SG2 573.4 THA 142.75 EL1 2921.6 EL2 219.5 ALF 136.19

LAUNCH DATE SEP 20 1965 FLIGHT TIME 154.00 ARRIVAL DATE FEB 21 1966

HELIOCENTRIC CONIC DISTANCE 401.581

RL 150.23 LAL -.00 LOL 356.83 VL 27.156 GAL 4.92 AZL 69.67 HCA 170.19 SMA 128.93 ECC .18563 INC20.3256 V1 29.660
RP 107.62 LAP 3.39 LOP 167.61 VP 37.908 GAP -4.92 AZP 110.05 TAL 157.40 TAP 327.59 RCA 104.99 APO 152.86 V2 35.212
RC 53.572 GL 61.40 GP -75.23 ZAL 74.78 ZAP 75.28 ETS 84.00 ZAE 91.53 ETE 312.67 ZAC 100.60 ETC 163.21 CLP -4.77

PLANETOCENTRIC CONIC

C3 114.571 VHL 10.704 DLA 39.85 RAL 288.21 RAD 6570.2 VEL 15.359 PTH 2.75 VHP 13.346 DPA -67.51 RAP 60.65 ECC 2.8855

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
60.71	21 17 42	4575.64	-10.54	207.24	185.34	51.35	22 33 58	3975.6	-15.46	201.19
119.29	3 58 43	3334.98	-10.53	112.87	185.33	51.34	4 54 18	2735.0	-15.45	106.82
60.71	21 17 42	4575.64	-10.54	207.24	185.34	51.35	22 33 58	3975.6	-15.46	201.19
119.29	3 58 43	3334.98	-10.53	112.87	185.33	51.34	4 54 18	2735.0	-15.45	106.82
60.71	21 17 42	4575.64	-10.54	207.24	185.34	51.35	22 33 58	3975.6	-15.46	201.19
119.29	3 58 43	3334.98	-10.53	112.87	185.33	51.34	4 54 18	2735.0	-15.45	106.82

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE-5.2776 TRA-4.1251 TC3 -.1342 BAU .2112 SGT 4041.7 SGR 1611.8 SG3 144.2 ST 2953.9 SR 1466.4 SS 1500.1
RDE 2.7115 RRA 1.0007 RC3 -.0319 FAU-.00851 RRT -.9344 RRF .9579 RTF -.9965 CRT -.9883 CRS -.9940 CST .9991
FDE 2.3530 FRA 1.5571 FC3 .0643 BSP 13529 SGB 4351.2 R23 -.0280 R13 .9989 LSA 3617.4 MSA 201.7 SSA 2.0
BDE 5.9334 BRA 4.2448 BC3 .1379 FSP -458 SG1 4317.9 SG2 537.4 THA 159.23 EL1 3291.7 EL2 200.9 ALF 153.76

LAUNCH DATE SEP 20 1965 FLIGHT TIME 156.00 ARRIVAL DATE FEB 23 1966

HELIOCENTRIC CONIC DISTANCE 407.856

RL 150.23 LAL -.00 LOL 356.83 VL 27.190 GAL 4.87 AZL 60.37 HCA 173.14 SMA 129.16 ECC .18342 INC29.6300 V1 29.660
RP 107.64 LAP 3.38 LOP 170.86 VP 37.925 GAP -4.47 AZP 119.45 TAL 157.27 TAP 330.42 RCA 105.47 APO 152.85 V2 35.204
RC 55.368 GL 63.38 GP -78.35 ZAL 79.27 ZAP 80.51 ETS 139.38 ZAE 81.85 ETE 9.02 ZAC 109.92 ETC 221.14 CLP 35.27

PLANETOCENTRIC CONIC

C3 224.479 VHL 14.983 DLA 40.86 RAL 282.48 RAD 6571.3 VEL 18.596 PTH 3.05 VHP 18.827 DPA -59.83 RAP 75.63 ECC 4.6944

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
59.22	20 48 9	4711.59	-5.62	214.70	185.96	49.46	22 6 41	4111.6	-10.78	208.94
120.78	3 42 33	3433.39	-5.60	117.13	185.94	49.46	4 39 46	2833.4	-10.76	111.37
59.22	20 48 9	4711.59	-5.62	214.70	185.96	49.46	22 6 41	4111.6	-10.78	208.94
120.78	3 42 33	3433.39	-5.60	117.13	185.94	49.46	4 39 46	2833.4	-10.76	111.37
59.22	20 48 9	4711.59	-5.62	214.70	185.96	49.46	22 6 41	4111.6	-10.78	208.94
120.78	3 42 33	3433.39	-5.60	117.13	185.94	49.46	4 39 46	2833.4	-10.76	111.37

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE-7.3628 TRA-3.5906 TC3 -.1803 BAU .7110 SGT 3393.5 SGR 2907.4 SG3 102,3 ST 2867.9 SR 2172.7 SS 1544.9
RDE-5.4679 RRA-3.8901 RC3 -.1537 FAU-.01929 RRT .9839 RRF -.9942 RTF -.9967 CRT .9965 CRS .9987 CST .9994
FDE 2.4213 FRA 1.3922 FC3 .0744 BSP 13888 SGB 4468.6 R23 -.0003 R13 -.9996 LSA 3912.9 MSA 145.4 SSA 1.6
BDE 9.1711 BRA 5.2939 BC3 .2369 FSP -330 SG1 4451.0 SG2 396.4 THA 40.52 EL1 3595.0 EL2 145.4 ALF 37.12

LAUNCH DATE SEP 20 1965 FLIGHT TIME 158.00 ARRIVAL DATE FEB 25 1966

HELIOCENTRIC CONIC DISTANCE 413.609

RL	150.23	LAL	-.00	LOL	356.83	VL	27.220	GAL	4.93	AZL	38.97	HCA	175.67	SMA	129.37	ECC	.18224	INC	51.0346
RP	107.67	LAP	3.36	LOP	174.10	VP	37.938	GAP	-4.15	AZP	140.95	TAL	156.78	TAP	332.45	RCA	105.79	APO	152.94
RC	57.230	GL	58.52	GP	-68.50	ZAL	83.45	ZAP	84.68	ETS	175.63	ZAE	68.12	ETE	44.51	ZAC	124.76	ETC	260.37

V1	29.660	V2	35.195	CLP	75.35														

PLANETOCENTRIC CONIC

C3	611.378	VHL	24.726	DLA	35.27	RAL	276.02	RAD	6572.6	VEL	27.068	PTH	3.39	VHP	31.380	DPA	-45.47	RAP	83.86
ECC	11.0617																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
68.04	21 6 39	4687.47	-.87	209.02	184.81	54.74	22 24 47	4087.5	-5.47	202.88
111.96	2 32 33	3666.46	-.85	132.56	184.80	54.74	3 33 40	3066.5	-5.45	126.43
68.04	21 6 39	4687.47	-.87	209.02	184.81	54.74	22 24 47	4087.5	-5.47	202.88
111.96	2 32 33	3666.46	-.85	132.56	184.80	54.74	3 33 40	3066.5	-5.45	126.43
68.04	21 6 39	4687.47	-.87	209.02	184.81	54.74	22 24 47	4087.5	-5.47	202.88
111.96	2 32 33	3666.46	-.85	132.56	184.80	54.74	3 33 40	3066.5	-5.45	126.43

DIFFERENTIAL CORRECTIONS

TDE	-5.9825	TRA	-.9288	TC3	-.1188	BAU	2.5315
RD	-13.6180	RRA	-7.6284	RC3	-.2860	FAU	-.04720
FDE	2.9509	FRA	1.6241	FC3	.0668	BSP	13250
BDE	14.8741	BRA	7.6848	BC3	.3097	FSP	-243

MID-COURSE EXECUTION ACCURACY

SGT	1528.6	SGR	4080.0	SG3	76.8		
RRT	.9262	RRF	-.9996	RTF	-.9305		
SGB	4356.9	R23	-.0320	R13	-.9992		
SG1	4322.8	SG2	543.8	THA	70.54		

ORBIT DETERMINATION ACCURACY

ST	1388.6	SR	3222.0	SS	1891.6		
CRT	.9894	CRS	1.0000	CST	.9899		
LSA	3981.5	MSA	188.5	SSA	1.7		
EL1	3503.6	EL2	185.8	ALF	66.84		

LAUNCH DATE SEP 20 1965 FLIGHT TIME 160.00 ARRIVAL DATE FEB 27 1966

HELIOCENTRIC CONIC DISTANCE 425.397

RL	150.23	LAL	-.00	LOL	356.83	VL	27.246	GAL	3.92	AZL	171.20	HCA	183.37	SMA	129.55	ECC	.17336	INC	81.2023
RP	107.70	LAP	3.33	LOP	177.34	VP	37.948	GAP	-2.34	AZP	8.81	TAL	160.67	TAP	344.05	RCA	107.09	APO	152.01
RC	59.152	GL	-46.37	GP	51.51	ZAL	86.38	ZAP	87.94	ETS	188.04	ZAE	67.56	ETE	314.70	ZAC	114.26	ETC	96.91

V1	29.660	V2	35.186	CLP	86.70														

PLANETOCENTRIC CONIC

C3	1377.270	VHL	37.112	DLA	-69.79	RAL	274.15	RAD	6573.1	VEL	38.711	PTH	3.55	VHP	47.954	DPA	74.41	RAP	65.82
ECC	23.6664																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
23.11	6 28 44	2449.63	-1.20	78.22	184.59	159.78	7 9 34	1849.6	6.30	75.87
156.89	16 55 34	697.50	-1.20	288.43	184.61	159.78	17 7 12	97.5	6.31	286.07
23.11	6 28 44	2449.63	-1.20	78.22	184.59	159.78	7 9 34	1849.6	6.30	75.87
156.89	16 55 34	697.50	-1.20	288.43	184.61	159.78	17 7 12	97.5	6.31	286.07
23.11	6 28 44	2449.63	-1.20	78.22	184.59	159.78	7 9 34	1849.6	6.30	75.87
156.89	16 55 34	697.50	-1.20	288.43	184.61	159.78	17 7 12	97.5	6.31	286.07

DIFFERENTIAL CORRECTIONS

TDE	9.6459	TRA	-.7248	TC3	-.1513	BAU	5.5553
RD	-13.4308	RRA	3.8450	RC3	.2610	FAU	-.10003
FDE	-3.5578	FRA	.8952	FC3	.0629	BSP	11235
BDE	16.5357	BRA	3.9127	BC3	.3017	FSP	-214

MID-COURSE EXECUTION ACCURACY

SGT	1892.9	SGR	3317.5	SG3	71.2		
RRT	-.9268	RRF	.9985	RTF	-.9430		
SGB	3819.5	R23	-.0436	R13	.9986		
SG1	3767.8	SG2	626.1	THA	118.74		

ORBIT DETERMINATION ACCURACY

ST	1492.7	SR	2137.4	SS	2330.2		
CRT	-.9841	CRS	-.9996	CST	.9888		
LSA	3489.5	MSA	224.0	SSA	2.7		
EL1	2598.0	EL2	218.0	ALF	124.78		

LAUNCH DATE SEP 20 1965 FLIGHT TIME 162.00 ARRIVAL DATE MAR 1 1966

HELIOCENTRIC CONIC DISTANCE 430.055

RL	150.23	LAL	-.00	LOL	356.83	VL	27.269	GAL	4.20	AZL	131.28	HCA	184.99	SMA	129.70	ECC	.17399	INC	41.2798
RP	107.73	LAP	3.29	LOP	180.58	VP	37.955	GAP	-2.31	AZP	48.83	TAL	159.31	TAP	344.30	RCA	107.14	APO	152.27
RC	61.127	GL	-61.99	GP	74.16	ZAL	83.00	ZAP	86.28	ETS	205.51	ZAE	86.79	ETE	326.10	ZAC	91.44	ETC	110.60

V1	29.660	V2	35.176	CLP	76.26														

PLANETOCENTRIC CONIC

C3	413.031	VHL	20.323	DLA	-83.13	RAL	323.89	RAD	6572.1	VEL	23.116	PTH	3.28	VHP	26.380	DPA	78.98	RAP	307.98
ECC	7.7974																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
7.80	9 16 21	2403.70	3.64	85.26	233.45	173.12	9 56 25	1803.7	11.58	84.70
172.20	20 44 47	5886.14	3.64	258.14	233.46	173.12	22 22 53	5286.1	11.58	257.59
7.80	9 16 21	2403.70	3.64	85.26	233.45	173.12	9 56 25	1803.7	11.58	84.70
172.20	20 44 47	5886.14	3.64	258.14	233.46	173.12	22 22 53	5286.1	11.58	257.59
7.80	9 16 21	2403.70	3.64	85.26	233.45	173.12	9 56 25	1803.7	11.58	84.70
172.20	20 44 47	5886.14	3.64	258.14	233.46	173.12	22 22 53	5286.1	11.58	257.59

DIFFERENTIAL CORRECTIONS

TDE	3.4050	TRA	-1.1935	TC3	-.2006	BAU	1.7385
RDE	-.5659	RRA	1.4543	RC3	.2426	FAU	-.03083
FDE	-.5470	FRA	.4146	FC3	.0646	BSP	14401
BDE	3.4517	BRA	1.8813	BC3	.3148	FSP	-275

MID-COURSE EXECUTION ACCURACY

SGT	3083.8	SGR	3572.4	SG3	88.5		
RRT	-.9633	RRF	.9942	RTF	-.9862		
SGB	4719.4	R23	-.0092	R13	.9998		
SG1	4676.8	SG2	632.6	THA	130.64		

ORBIT DETERMINATION ACCURACY

ST	1278.8	SR	1041.7	SS	755.6		
CRT	-.7678	CRS	-.9460	CST	.9340		
LSA	1727.9	MSA	552.8	SSA	1.2		
EL1	1555.4	EL2	548.6	ALF	142.53		

LAUNCH DATE SEP 20 1965 FLIGHT TIME 164.00 ARRIVAL DATE MAR 3 1966

HELIOCENTRIC CONIC DISTANCE 435.963

RL	150.23	LAL	-.00	LOL	356.83	VL	27.289	GAL	4.26	AZL	114.93	HCA	187.70	SMA	129.84	ECC	.17336	INC	24.9303
RP	107.76	LAP	3.24	LOP	183.82	VP	37.959	GAP	-1.97	AZP	65.27	TAL	158.88	TAP	346.58	RCA	107.33	APO	152.35
RC	63.151	GL	-64.08	GP	83.78	ZAL	78.66	ZAP	84.83	ETS	253.80	ZAE	97.34	ETE	11.43	ZAC	79.98	ETC	154.58

V1	29.660	V2	35.166	CLP	33.65														

PLANETOCENTRIC CONIC

C3	162.651	VHL	12.753	DLA	-79.92	RAL	356.81	RAD	6570.8	VEL	16.852	PTH	2.91	VHP	16.579	DPA	68.04	RAP	292.50
ECC	3.6768																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
11.46	11 34 45	2276.28	11.89	82.31	264.66	169.70	12 12 41	1676.3	19.76	81.21
168.54	22 49 1	5766.39	11.89	258.71	264.68	169.70	24 25 8	5166.4	19.76	257.62
11.46	11 34 45	2276.28	11.89	82.31	264.66	169.70	12 12 41	1676.3	19.76	81.21
168.54	22 49 1	5766.39	11.89	258.71	264.68	169.70	24 25 8	5166.4	19.76	257.62
11.46	11 34 45	2276.28	11.89	82.31	264.66	169.70	12 12 41	1676.3	19.76	81.21
168.54	22 49 1	5766.39	11.89	258.71	264.68	169.70	24 25 8	5166.4	19.76	257.62

DIFFERENTIAL CORRECTIONS

TDE	-4.1789	TRA	-1.7570	TC3	-.2078	BAU	.4647
RDE	1.4315	RRA	-.0026	RC3	.0497	FAU	-.00874
FDE	1.2834	FRA	.5113	FC3	.0465	BSP	15300
BDE	4.4173	BRA	1.7570	BC3	.2137	FSP	-390

MID-COURSE EXECUTION ACCURACY

SGT	4914.9	SGR	655.5	SG3	124.3		
RRT	-.3861	RRF	.3996	RTF	-.9995		
SGB	4958.4	R23	-.0085	R13	.9996		
SG1	4921.5	SG2	603.9	THA	177.01		

ORBIT DETERMINATION ACCURACY

ST	2314.4	SR	643.1	SS	1000.2		
CRT	-.8094	CRS	-.8240	CST	.9997		
LSA	2575.8	MSA	368.4	SSA	1.7		
EL1	2373.7	EL2	368.3	ALF	167.01		

LAUNCH DATE SEP 20 1965 FLIGHT TIME 166.00 ARRIVAL DATE MAR 5 1966

HELIOCENTRIC CONIC DISTANCE 442.190

RL 150.23 LAL -.00 LOL 356.83 VL 27.305 GAL 4.28 AZL 107.36 HCA 190.70 SMA 129.95 ECC .17256 INCI7.3570 VI 29.660
RP 107.80 LAR 3.18 LOP 187.05 VP 37.961 GAP -1.56 AZP 72.93 TAL 158.68 TAP 349.38 RCA 107.53 APO 152.37 V2 35.155
RC 65.219 GL -61.30 GP 82.76 ZAL 74.24 ZAP 84.12 ETS 301.04 ZAE 104.09 ETE 56.30 ZAC 72.94 ETC 197.33 CLP -35.61

PLANETOCENTRIC CONIC

C3 85.758 VHL 9.261 DLA -75.47 RAL 353.70 RAD 6569.7 VEL 14.391 PTH 2.62 VHP 11.992 DPA 60.75 RAP 290.05 ECC 2.4114

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
16.56	11 32 24	2140.30	20.10	77.05	258.24	164.51	12 8 5	1540.3	27.80	75.05
163.44	22 26 30	5646.23	20.11	258.45	258.27	164.51	24 0 36	5046.2	27.80	256.46
16.56	11 32 24	2140.30	20.10	77.05	258.24	164.51	12 8 5	1540.3	27.80	75.05
163.44	22 26 30	5646.23	20.11	258.45	258.27	164.51	24 0 36	5046.2	27.80	256.46
16.56	11 32 24	2140.30	20.10	77.05	258.24	164.51	12 8 5	1540.3	27.80	75.05
163.44	22 26 30	5646.23	20.11	258.45	258.27	164.51	24 0 36	5046.2	27.80	256.46

DIFFERENTIAL CORRECTIONS
TDE-2.5902 TRA-1.2688 TC3 -.0862 BAU .1149
RDE-1.5153 RRA-1.4061 RC3 .0511 FAU .00291
FDE 1.2268 FRA .7718 FC3 -.0294 BSP 15742
BDE 3.0009 BRA 1.8939 BC3 .1002 FSP -564

MID-COURSE EXECUTION ACCURACY
SGT 3519.5 SGR 3593.8 SG3 177.1
RRT .9756 RRF -.9934 RTF -.9930
SGB 5030.1 R23 .0008 R13 -.9993
SG1 4999.4 SG2 554.9 THA 45.61

ORBIT DETERMINATION ACCURACY
ST 1857.3 SR 1400.5 SS 984.2
CRT .9531 CRS .9816 CST .9934
LSA 2502.5 MSA 342.2 SSA 2.3
EL1 2300.9 EL2 342.2 ALF 36.65

LAUNCH DATE SEP 20 1965 FLIGHT TIME 168.00 ARRIVAL DATE MAR 7 1966

HELIOCENTRIC CONIC DISTANCE 448.514

RL 150.23 LAL -.00 LOL 356.83 VL 27.318 GAL 4.28 AZL 103.11 HCA 193.80 SMA 130.04 ECC .17188 INCI3.1144 VI 29.660
RP 107.83 LAP 3.10 LOP 190.28 VP 37.960 GAP -1.12 AZP 77.25 TAL 158.53 TAP 352.33 RCA 107.69 APO 152.39 V2 35.143
RC 67.327 GL -57.00 GP 78.32 ZAL 70.00 ZAP 84.25 ETS 322.78 ZAE 109.12 ETE 76.09 ZAC 67.63 ETC 214.64 CLP -60.32

PLANETOCENTRIC CONIC

C3 54.320 VHL 7.370 DLA -70.97 RAL 347.23 RAD 6569.0 VEL 13.254 PTH 2.42 VHP 9.456 DPA 55.17 RAP 289.00 ECC 1.8940

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
21.74	11 17 19	2020.67	26.50	70.40	247.32	158.63	11 51 0	1420.7	33.91	67.32
158.26	21 50 0	5549.37	26.51	257.08	247.34	158.63	23 22 29	4949.4	33.92	253.99
21.74	11 17 19	2020.67	26.50	70.40	247.32	158.63	11 51 0	1420.7	33.91	67.32
158.26	21 50 0	5549.37	26.51	257.08	247.34	158.63	23 22 29	4949.4	33.92	253.99
21.74	11 17 19	2020.67	26.50	70.40	247.32	158.63	11 51 0	1420.7	33.91	67.32
158.26	21 50 0	5549.37	26.51	257.08	247.34	158.63	23 22 29	4949.4	33.92	253.99

DIFFERENTIAL CORRECTIONS
TDE-1.2962 TRA -.7244 TC3 -.0610 BAU .1935
RDE-1.3454 RRA-1.8921 RC3 .2593 FAU .01244
FDE 1.0591 FRA 1.1286 FC3 -.1983 BSP 15904
BDE 1.8682 BRA 2.0260 BC3 .2664 FSP -784

MID-COURSE EXECUTION ACCURACY
SGT 2001.7 SGR 4647.1 SG3 244.5
RRT .9474 RRF -.9974 RTF -.9626
SGB 5059.9 R23 .0064 R13 -.9989
SG1 5025.0 SG2 592.7 THA 67.47

ORBIT DETERMINATION ACCURACY
ST 1133.1 SR 1710.6 SS 942.2
CRT .9056 CRS .9906 CST .9551
LSA 2220.4 MSA 408.9 SSA 3.2
EL1 2010.7 EL2 408.9 ALF 57.54

LAUNCH DATE SEP 20 1965 FLIGHT TIME 170.00 ARRIVAL DATE MAR 9 1966

HELIOCENTRIC CONIC DISTANCE 454.868

RL 150.23 LAL -.00 LOL 356.83 VL 27.328 GAL 4.30 AZL 100.42 HCA 196.95 SMA 130.12 ECC .17139 INCI0.4151 VI 29.660
RP 107.87 LAP 3.02 LOP 193.51 VP 37.957 GAP -.68 AZP 80.03 TAL 158.38 TAP 355.33 RCA 107.82 APO 152.42 V2 35.132
RC 69.470 GL -52.28 GP 74.08 ZAL 66.07 ZAP 85.18 ETS 335.20 ZAE 113.15 ETE 87.03 ZAC 63.15 ETC 222.81 CLP -72.16

PLANETOCENTRIC CONIC

C3 38.794 VHL 6.228 DLA -66.43 RAL 341.71 RAD 6568.5 VEL 12.656 PTH 2.30 VHP 7.882 DPA 50.50 RAP 288.10 ECC 1.6385

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
27.02	11 6 48	1920.90	30.75	62.79	236.65	152.27	11 38 49	1320.9	37.75	58.51
152.98	21 16 27	5480.40	30.76	255.11	236.67	152.27	22 47 48	4880.4	37.76	250.82
27.02	11 6 48	1920.90	30.75	62.79	236.65	152.27	11 38 49	1320.9	37.75	58.51
152.98	21 16 27	5480.40	30.76	255.11	236.67	152.27	22 47 48	4880.4	37.76	250.82
27.02	11 6 48	1920.90	30.75	62.79	236.65	152.27	11 38 49	1320.9	37.75	58.51
152.98	21 16 27	5480.40	30.76	255.11	236.67	152.27	22 47 48	4880.4	37.76	250.82

DIFFERENTIAL CORRECTIONS
TDE -.7579 TRA -.3383 TC3 -.1249 BAU .2753
RDE -.9525 RRA-2.1014 RC3 .5158 FAU .02154
FDE .9368 FRA 1.5578 FC3 -.4806 BSP 15937
BDE 1.2172 BRA 2.1284 BC3 .5307 FSP -1039

MID-COURSE EXECUTION ACCURACY
SGT 1056.4 SGR 4954.6 SG3 322.6
RRT .8163 RRF -.9979 RTF -.8357
SGB 5066.0 R23 .0153 R13 -.9985
SG1 5030.2 SG2 601.0 THA 79.98

ORBIT DETERMINATION ACCURACY
ST 735.3 SR 1694.4 SS 938.4
CRT .7620 CRS .9913 CST .8407
LSA 2021.9 MSA 451.8 SSA 4.0
EL1 1791.3 EL2 450.4 ALF 70.41

LAUNCH DATE SEP 20 1965 FLIGHT TIME 172.00 ARRIVAL DATE MAR 11 1966

HELIOCENTRIC CONIC DISTANCE 461.227

RL 150.23 LAL -.00 LOL 356.83 VL 27.336 GAL 4.32 AZL 98.54 HCA 200.12 SMA 130.17 ECC .17110 INC 8.5443 VI 29.660
RP 107.90 LAP 2.93 LOP 196.74 VP 37.951 GAP -.24 AZP 81.97 TAL 158.22 TAP 358.34 RCA 107.90 APO 152.44 V2 35.120
RC 71.643 GL -47.55 GP 70.18 ZAL 62.47 ZAP 86.84 ETS 344.24 ZAE 116.47 ETE 95.13 ZAC 59.07 ETC 227.87 CLP -80.64

PLANETOCENTRIC CONIC

C3 30.125 VHL 5.489 DLA -61.95 RAL 337.44 RAD 6568.2 VEL 12.308 PTH 2.22 VHP 6.828 DPA 46.34 RAP 287.08 ECC 1.4958

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
32.29	11 2 6	1837.36	33.12	54.75	227.09	145.84	11 32 43	1237.4	39.60	49.35
147.71	20 47 6	5436.40	33.13	253.08	227.10	145.84	22 17 42	4836.4	39.61	247.68
32.29	11 2 6	1837.36	33.12	54.75	227.09	145.84	11 32 43	1237.4	39.60	49.35
147.71	20 47 6	5436.40	33.13	253.08	227.10	145.84	22 17 42	4836.4	39.61	247.68
32.29	11 2 6	1837.36	33.12	54.75	227.09	145.84	11 32 43	1237.4	39.60	49.35
147.71	20 47 6	5436.40	33.13	253.08	227.10	145.84	22 17 42	4836.4	39.61	247.68

DIFFERENTIAL CORRECTIONS
TDE -.4952 TRA -.0090 TC3 -.2590 BAU .3271
RDE -.6929 RRA-2.2063 RC3 .7697 FAU .03047
FDE .8788 FRA 2.0387 FC3 -.8758 BSP 15910
BDE .8517 BRA 2.2063 BC3 .8121 FSP -1318

MID-COURSE EXECUTION ACCURACY
SGT 590.4 SGR 5022.1 SG3 407.5
RRT .0781 RRF -.9980 RTF -.1046
SGB 5056.7 R23 .0257 R13 -.9980
SG1 5022.3 SG2 588.5 THA 89.47

ORBIT DETERMINATION ACCURACY
ST 517.1 SR 1637.8 SS 966.8
CRT .4517 CRS .9907 CST .5690
LSA 1915.8 MSA 462.9 SSA 4.8
EL1 1655.8 EL2 456.3 ALF 81.21

LAUNCH DATE SEP 20 1965 FLIGHT TIME 174.00 ARRIVAL DATE MAR 13 1966

HELIOCENTRIC CONIC DISTANCE 467.580

RL	150.23	LAL	-.00	LOL	356.83	VL	27.342	GAL	4.35	AZL	97.17	HCA	203.30	SMA	130.21	ECC	.17104	INC	7.1664	V1	29.660
RP	107.94	LAP	2.83	LOP	199.96	VP	37.944	GAP	.20	AZP	83.41	TAL	158.04	TAP	1.34	RCA	107.94	APO	152.48	V2	35.108
RC	73.845	GL	-43.00	GP	66.52	ZAL	59.21	ZAP	89.13	ETS	351.62	ZAE	119.24	ETE	102.19	ZAC	55.22	ETC	231.60	CLP	-87.83

PLANETOCENTRIC CONIC

C3	24.872	VHL	4.987	DLA	-57.62	RAL	334.18	RAD	6568.0	VEL	12.093	PTH	2.16	VHP	6.089	DPA	42.49	RAP	285.91	ECC	1.4093

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
37.47	11 2 14	1765.36	34.02	46.75	218.82	139.75	11 31 39	1165.4	39.95	40.44
142.53	20 20 59	5413.08	34.03	251.46	218.84	139.74	21 51 12	4813.1	39.96	245.14
37.47	11 2 14	1765.36	34.02	46.75	218.82	139.75	11 31 39	1165.4	39.95	40.44
142.53	20 20 59	5413.08	34.03	251.46	218.84	139.74	21 51 12	4813.1	39.96	245.14
37.47	11 2 14	1765.36	34.02	46.75	218.82	139.75	11 31 39	1165.4	39.95	40.44
142.53	20 20 59	5413.08	34.03	251.46	218.84	139.74	21 51 12	4813.1	39.96	245.14

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-.3402	TRA	.2999	TC3	-.4529	BAU	.3629	SGT	878.0	SGR	4962.5	SG3	494.6	ST	436.1	SR	1575.3	SS	1014.0
RDE	-.5417	RRA	-2.2482	RC3	.9931	FAU	.03914	RRT	-.7591	RRF	-.9978	RTF	.7435	CRT	-.0530	CRS	.9893	CST	.0928
FDE	.8801	FRA	2.5492	FC3	-1.3624	BSP	15864	SGB	5039.6	R23	.0367	R13	-.9974	LSA	1869.3	MSA	453.5	SSA	5.7
BDE	.6397	BRA	2.2681	BC3	1.0915	FSP	-1610	SG1	5007.7	SG2	566.4	THA	97.75	EL1	1575.4	EL2	435.5	ALF	90.91

LAUNCH DATE SEP 20 1965 FLIGHT TIME 176.00 ARRIVAL DATE MAR 15 1966

HELIOCENTRIC CONIC DISTANCE 473.920

RL	150.23	LAL	-.00	LOL	356.83	VL	27.345	GAL	4.39	AZL	96.10	HCA	206.49	SMA	130.23	ECC	.17119	INC	6.1046	V1	29.660
RP	107.98	LAP	2.72	LOP	203.18	VP	37.935	GAP	.63	AZP	84.53	TAL	157.82	TAP	4.31	RCA	107.94	APO	152.53	V2	35.095
RC	76.070	GL	-38.69	GP	63.02	ZAL	56.29	ZAP	91.97	ETS	357.94	ZAE	121.53	ETE	108.80	ZAC	51.49	ETC	234.61	CLP	-94.35

PLANETOCENTRIC CONIC

C3	21.510	VHL	4.638	DLA	-53.50	RAL	331.68	RAD	6567.9	VEL	11.954	PTH	2.13	VHP	5.556	DPA	38.84	RAP	284.65	ECC	1.3540

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
42.51	11 6 17	1700.71	33.87	39.06	211.87	134.23	11 34 38	1100.7	39.24	32.08
137.49	19 56 56	5406.96	33.89	250.56	211.89	134.23	21 27 3	4807.0	39.25	243.58
42.51	11 6 17	1700.71	33.87	39.06	211.87	134.23	11 34 38	1100.7	39.24	32.08
137.49	19 56 56	5406.96	33.89	250.56	211.89	134.23	21 27 3	4807.0	39.25	243.58
42.51	11 6 17	1700.71	33.87	39.06	211.87	134.23	11 34 38	1100.7	39.24	32.08
137.49	19 56 56	5406.96	33.89	250.56	211.89	134.23	21 27 3	4807.0	39.25	243.58

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-.2290	TRA	.5998	TC3	-.6933	BAU	.3892	SGT	1430.0	SGR	4822.4	SG3	580.1	ST	469.1	SR	1510.9	SS	1073.2
RDE	-.4596	RRA	-2.2469	RC3	1.1624	FAU	.04709	RRT	-.9200	RRF	-.9976	RTF	.9108	CRT	-.5122	CRS	.9875	CST	-.3707
FDE	.9357	FRA	3.0704	FC3	-1.8951	BSP	15750	SGB	5030.0	R23	.0476	R13	-.9967	LSA	1861.7	MSA	434.5	SSA	6.5
BDE	.5135	BRA	2.3255	BC3	1.3534	FSP	-1890	SG1	5000.9	SG2	540.6	THA	105.44	EL1	1531.3	EL2	397.5	ALF	99.69

LAUNCH DATE SEP 20 1965 FLIGHT TIME 178.00 ARRIVAL DATE MAR 17 1966

HELIOCENTRIC CONIC DISTANCE 480.243

RL	150.23	LAL	-.00	LOL	356.83	VL	27.346	GAL	4.45	AZL	95.26	HCA	209.68	SMA	130.24	ECC	.17157	INC	5.2569	V1	29.660
RP	108.02	LAP	2.60	LOP	206.40	VP	37.924	GAP	1.06	AZP	85.43	TAL	157.57	TAP	7.25	RCA	107.89	APO	152.58	V2	35.082
RC	78.316	GL	-34.67	GP	59.60	ZAL	53.69	ZAP	95.24	ETS	3.45	ZAE	123.36	ETE	115.17	ZAC	47.84	ETC	237.12	CLP	-100.40

PLANETOCENTRIC CONIC

C3	19.286	VHL	4.392	DLA	-49.61	RAL	329.73	RAD	6567.8	VEL	11.860	PTH	2.10	VHP	5.169	DPA	35.31	RAP	283.34	ECC	1.3174

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
47.40	11 13 39	1640.04	33.01	31.75	206.16	129.39	11 40 59	1040.0	37.85	24.34
132.60	19 34 4	5415.52	33.02	250.54	206.17	129.39	21 4 20	4815.5	37.86	243.13
47.40	11 13 39	1640.04	33.01	31.75	206.16	129.39	11 40 59	1040.0	37.85	24.34
132.60	19 34 4	5415.52	33.02	250.54	206.17	129.39	21 4 20	4815.5	37.86	243.13
47.40	11 13 39	1640.04	33.01	31.75	206.16	129.39	11 40 59	1040.0	37.85	24.34
132.60	19 34 4	5415.52	33.02	250.54	206.17	129.39	21 4 20	4815.5	37.86	243.13

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-.1344	TRA	.8918	TC3	-.9628	BAU	.4124	SGT	1992.4	SGR	4611.8	SG3	658.2	ST	567.1	SR	1436.6	SS	1133.8
RDE	-.4112	RRA	-2.2059	RC3	1.2773	FAU	.05431	RRT	-.9608	RRF	-.9973	RTF	.9541	CRT	-.7665	CRS	.9851	CST	-.6449
FDE	1.0258	FRA	3.5701	FC3	-2.4378	BSP	15724	SGB	5023.8	R23	.0578	R13	-.9958	LSA	1871.2	MSA	411.6	SSA	7.2
BDE	.4326	BRA	2.3793	BC3	1.5995	FSP	-2161	SG1	4997.9	SG2	509.7	THA	112.79	EL1	1504.9	EL2	347.7	ALF	107.82

LAUNCH DATE SEP 20 1965 FLIGHT TIME 180.00 ARRIVAL DATE MAR 19 1966

HELIOCENTRIC CONIC DISTANCE 486.546

RL	150.23	LAL	-.00	LOL	356.83	VL	27.345	GAL	4.52	AZL	94.56	HCA	212.87	SMA	130.23	ECC	.17216	INC	4.5609	V1	29.660
RP	108.06	LAP	2.47	LOP	209.62	VP	37.911	GAP	1.49	AZP	86.17	TAL	157.29	TAP	10.16	RCA	107.81	APO	152.65	V2	35.069
RC	80.581	GL	-30.92	GP	56.24	ZAL	51.36	ZAP	98.84	ETS	8.24	ZAE	124.76	ETE	121.31	ZAC	44.25	ETC	239.20	CLP	-106.06

PLANETOCENTRIC CONIC

C3	17.796	VHL	4.219	DLA	-45.96	RAL	328.21	RAD	6567.7	VEL	11.797	PTH	2.09	VHP	4.889	DPA	31.88	RAP	282.05	ECC	1.2929

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
52.15	11 23 58	1580.59	31.69	24.79	201.54	125.22	11 50 19	980.6	36.05	17.13
127.85	19 11 36	5437.24	31.71	251.46	201.55	125.21	20 42 14	4837.2	36.07	243.79
52.15	11 23 58	1580.59	31.69	24.79	201.54	125.22	11 50 19	980.6	36.05	17.13
127.85	19 11 36	5437.24	31.71	251.46	201.55	125.21	20 42 14	4837.2	36.07	243.79
52.15	11 23 58	1580.59	31.69	24.79	201.54	125.22	11 50 19	980.6	36.05	17.13
127.85	19 11 36	5437.24	31.71	251.46	201.55	125.21	20 42 14	4837.2	36.07	243.79

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-.0447	TRA	1.1748	TC3	-1.2451	BAU	.4337	SGT	2525.2	SGR	4354.2	SG3	725.5	ST	692.0	SR	1356.0	SS	1194.3
RDE	-.3819	RRA	-2.1366	RC3	1.3315	FAU	.06034	RRT	-.9760	RRF	-.9969	RTF	.9704	CRT	-.8867	CRS	.9822	CST	-.7843
FDE	1.1429	FRA	4.0288	FC3	-2.9353	BSP	15730	SGB	5033.5	R23	.0662	R13	-.9948	LSA	1895.4	MSA	388.9	SSA	8.0
BDE	.3845	BRA	2.4383	BC3	1.8229	FSP	-2399	SG1	5010.8	SG2	477.6	THA	119.81	EL1	1494.4	EL2	290.4	ALF	115.37

LAUNCH DATE SEP 20 1965 FLIGHT TIME 182.00 ARRIVAL DATE MAR 21 1966

HELIOCENTRIC CONIC DISTANCE 492.829

RL 150.23 LAL -.00 LOL 356.83 VL 27.342 GAL 4.60 AZL 93.98 HCA 216.07 SMA 130.21 ECC .17297 INC 3.9760 V1 29.660
RP 108.10 LAP 2.34 LOP 212.83 VP 37.897 GAP 1.91 AZP 86.78 TAL 156.97 TAP 13.03 RCA 107.69 APO 152.74 V2 35.056
RC 82.862 GL -27.45 GP 52.94 ZAL 49.29 ZAP 102.67 ETS 12.38 ZAE 125.75 ETE 127.20 ZAC 40.75 ETC 240.84 CLP-111.34

PLANETOCENTRIC CONIC

C3 16.806 VHL 4.099 DLA -42.56 RAL 327.02 RAD 6567.7 VEL 11.755 PTH 2.07 VHP 4.694 DPA 28.53 RAP 280.83 ECC 1.2766

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
56.79	11 37 16	1519.69	30.10	18.03	197.86	121.64	12 2 36	919.7	34.04	10.23
123.21	18 48 47	5471.67	30.11	253.36	197.87	121.63	20 19 58	4871.7	34.05	245.55
56.79	11 37 16	1519.69	30.10	18.03	197.86	121.64	12 2 36	919.7	34.04	10.23
123.21	18 48 47	5471.67	30.11	253.36	197.87	121.63	20 19 58	4871.7	34.05	245.55
56.79	11 37 16	1519.69	30.10	18.03	197.86	121.64	12 2 36	919.7	34.04	10.23
123.21	18 48 47	5471.67	30.11	253.36	197.87	121.63	20 19 58	4871.7	34.05	245.55

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE .0456 TRA 1.4472 TC3-1.5237 BAU .4547 SGT 3017.5 SGR 4064.5 SG3 778.6 ST 827.1 SR 1269.7 SS 1251.5
RDE -.3609 RRA-2.0461 RC3 1.3322 FAU .06501 RRT -.9831 RRF -.9964 RTF .9782 CRT -.9455 CRS .9787 CST -.8587
FDE 1.2741 FRA 4.4253 FC3-3.3491 BSP 15806 SGB 5062.2 R23 .0721 R13 -.9938 LSA 1930.5 MSA 367.8 SSA 8.8
BDE .3638 BRA 2.5062 BC3 2.0239 FSP -2598 SG1 5042.6 SG2 444.9 THA 126.45 EL1 1498.0 EL2 228.3 ALF 122.48

LAUNCH DATE SEP 20 1965 FLIGHT TIME 184.00 ARRIVAL DATE MAR 23 1966

HELIOCENTRIC CONIC DISTANCE 499.089

RL 150.23 LAL -.00 LOL 356.83 VL 27.338 GAL 4.70 AZL 93.47 HCA 219.26 SMA 130.18 ECC .17399 INC 3.4748 V1 29.660
RP 108.14 LAP 2.20 LOP 216.04 VP 37.881 GAP 2.33 AZP 87.31 TAL 156.61 TAP 15.87 RCA 107.53 APO 152.83 V2 35.043
RC 85.157 GL -24.24 GP 49.71 ZAL 47.45 ZAP 106.62 ETS 15.93 ZAE 126.36 ETE 132.75 ZAC 37.37 ETC 242.02 CLP-116.26

PLANETOCENTRIC CONIC

C3 16.175 VHL 4.022 DLA -39.39 RAL 326.08 RAD 6567.6 VEL 11.729 PTH 2.07 VHP 4.565 DPA 25.27 RAP 279.73 ECC 1.2662

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
61.39	11 53 51	1454.47	28.35	11.27	194.98	118.57	12 18 6	854.5	31.93	3.41
118.61	18 24 45	5519.39	28.36	256.30	194.98	118.56	19 56 45	4919.4	31.94	248.44
61.39	11 53 51	1454.47	28.35	11.27	194.98	118.57	12 18 6	854.5	31.93	3.41
118.61	18 24 45	5519.39	28.36	256.30	194.98	118.56	19 56 45	4919.4	31.94	248.44
61.39	11 53 51	1454.47	28.35	11.27	194.98	118.57	12 18 6	854.5	31.93	3.41
118.61	18 24 45	5519.39	28.36	256.30	194.98	118.56	19 56 45	4919.4	31.94	248.44

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE .1388 TRA 1.7086 TC3-1.7849 BAU .4760 SGT 3466.9 SGR 3759.4 SG3 816.2 ST 966.3 SR 1179.9 SS 1303.5
RDE -.3419 RRA-1.9427 RC3 1.2882 FAU .06817 RRT -.9868 RRF -.9956 RTF .9824 CRT -.9759 CRS .9745 CST -.9022
FDE 1.4074 FRA 4.7485 FC3-3.6488 BSP 15953 SGB 5113.9 R23 .0746 R13 -.9928 LSA 1975.6 MSA 349.1 SSA 9.6
BDE .3690 BRA 2.5871 BC3 2.2012 FSP -2748 SG1 5097.1 SG2 414.0 THA 132.65 EL1 1516.2 EL2 164.1 ALF 129.18

LAUNCH DATE SEP 20 1965 FLIGHT TIME 186.00 ARRIVAL DATE MAR 25 1966

HELIOCENTRIC CONIC DISTANCE 505.327

RL 150.23 LAL -.00 LOL 356.83 VL 27.332 GAL 4.81 AZL 93.04 HCA 222.46 SMA 130.14 ECC .17523 INC 3.0380 V1 29.660
RP 108.18 LAP 2.05 LOP 219.24 VP 37.865 GAP 2.75 AZP 87.76 TAL 156.21 TAP 18.66 RCA 107.33 APO 152.94 V2 35.030
RC 87.465 GL -21.28 GP 46.58 ZAL 45.79 ZAP 110.62 ETS 18.95 ZAE 126.62 ETE 137.90 ZAC 34.13 ETC 242.69 CLP-120.82

PLANETOCENTRIC CONIC

C3 15.817 VHL 3.977 DLA -36.43 RAL 325.36 RAD 6567.6 VEL 11.713 PTH 2.06 VHP 4.491 DPA 22.13 RAP 278.79 ECC 1.2603

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
66.05	12 14 20	1381.46	26.54	4.23	192.76	115.93	12 37 22	781.5	29.80	356.35
113.95	17 58 31	5582.22	26.55	260.41	192.77	115.92	19 31 33	4982.2	29.81	252.53
66.05	12 14 20	1381.46	26.54	4.23	192.76	115.93	12 37 22	781.5	29.80	356.35
113.95	17 58 31	5582.22	26.55	260.41	192.77	115.92	19 31 33	4982.2	29.81	252.53
66.05	12 14 20	1381.46	26.54	4.23	192.76	115.93	12 37 22	781.5	29.80	356.35
113.95	17 58 31	5582.22	26.55	260.41	192.77	115.92	19 31 33	4982.2	29.81	252.53

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE .2375 TRA 1.9610 TC3-2.0136 BAU .4961 SGT 3874.7 SGR 3452.9 SG3 838.2 ST 1108.6 SR 1091.0 SS 1352.1
RDE -.3246 RRA-1.8342 RC3 1.2036 FAU .06941 RRT -.9886 RRF -.9946 RTF .9848 CRT -.9915 CRS .9694 CST -.9297
FDE 1.5409 FRA 4.9965 FC3-3.7993 BSP 16099 SGB 5189.9 R23 .0738 R13 -.9919 LSA 2033.8 MSA 333.5 SSA 10.4
BDE .4022 BRA 2.6851 BC3 2.3459 FSP -2830 SG1 5175.3 SG2 388.9 THA 138.33 EL1 1552.2 EL2 101.2 ALF 135.46

LAUNCH DATE SEP 20 1965 FLIGHT TIME 188.00 ARRIVAL DATE MAR 27 1966

HELIOCENTRIC CONIC DISTANCE 511.541

RL 150.23 LAL -.00 LOL 356.83 VL 27.324 GAL 4.94 AZL 92.65 HCA 225.65 SMA 130.09 ECC .17669 INC 2.6516 V1 29.660
RP 108.22 LAP 1.90 LOP 222.45 VP 37.847 GAP 3.17 AZP 88.15 TAL 155.77 TAP 21.42 RCA 107.10 APO 153.07 V2 35.016
RC 89.783 GL -18.55 GP 43.57 ZAL 44.31 ZAP 114.58 ETS 21.51 ZAE 126.58 ETE 142.59 ZAC 31.08 ETC 242.81 CLP-125.04

PLANETOCENTRIC CONIC

C3 15.674 VHL 3.959 DLA -33.69 RAL 324.81 RAD 6567.6 VEL 11.707 PTH 2.06 VHP 4.464 DPA 19.12 RAP 278.03 ECC 1.2579

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
70.94	12 40 16	1294.58	24.72	356.44	191.11	113.65	13 1 51	694.6	27.70	348.58
109.06	17 28 12	5664.97	24.73	266.01	191.12	113.63	19 2 37	5065.0	27.71	258.14
70.94	12 40 16	1294.58	24.72	356.44	191.11	113.65	13 1 51	694.6	27.70	348.58
109.06	17 28 12	5664.97	24.73	266.01	191.12	113.63	19 2 37	5065.0	27.71	258.14
110.00	16 49 47	5782.44	21.07	273.24	189.22	117.56	18 26 10	5182.4	24.59	265.86
110.00	18 17 51	5513.15	28.49	255.86	192.79	109.73	19 49 44	4913.2	30.91	247.50

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE .3383 TRA 2.2017 TC3-2.2114 BAU .5181 SGT 4239.1 SGR 3150.6 SG3 844.2 ST 1249.9 SR 999.9 SS 1389.5
RDE -.3027 RRA-1.7217 RC3 1.1057 FAU .06958 RRT -.9895 RRF -.9933 RTF .9863 CRT -.9986 CRS .9629 CST -.9479
FDE 1.6539 FRA 5.1580 FC3-3.8434 BSP 16396 SGB 5281.7 R23 .0689 R13 -.9912 LSA 2095.2 MSA 320.4 SSA 11.0
BDE .4539 BRA 2.7950 BC3 2.4724 FSP -2878 SG1 5269.0 SG2 366.8 THA 143.46 EL1 1600.1 EL2 41.6 ALF 141.35

LAUNCH DATE SEP 20 1965 FLIGHT TIME 190.00 ARRIVAL DATE MAR 29 1966

HELIOCENTRIC CONIC DISTANCE 517.730

RL 150.23 LAL -.00 LOL 356.83 VL 27.315 GAL 5.08 AZL 92.31 HCA 228.84 SMA 130.02 ECC .17836 INC 2.3055 V1 29.660
RP 108.26 LAP 1.74 LOP 225.65 VP 37.828 GAP 3.59 AZP 88.48 TAL 155.30 TAP 24.14 RCA 106.83 APO 153.21 V2 35.003
RC 92.112 GL -16.03 GP 40.72 ZAL 42.97 ZAP 118.45 ETS 23.67 ZAE 126.30 ETE 146.81 ZAC 28.25 ETC 242.29 CLP-128.94

PLANETOCENTRIC CONIC

C3 15.708 VHL 3.963 DLA -31.13 RAL 324.41 RAD 6567.6 VEL 11.709 PTH 2.06 VHP 4.475 DPA 16.26 RAP 277.49 ECC 1.2585

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
76.49	13 15 21	1180.93	22.93	346.94	189.93	111.66	13 35 2	580.9	25.67	339.11
103.51	16 49 54	5779.62	22.94	273.95	189.94	111.64	18 26 13	5179.6	25.68	266.11
76.49	13 15 21	1180.93	22.93	346.94	189.93	111.66	13 35 2	580.9	25.67	339.11
103.51	16 49 54	5779.62	22.94	273.95	189.94	111.64	18 26 13	5179.6	25.68	266.11
110.00	15 43 41	698.64	14.20	307.17	185.34	121.43	15 55 20	98.6	18.25	300.41
110.00	19 20 44	5309.92	32.29	241.27	193.11	101.88	20 49 14	4709.9	33.59	232.28

DIFFERENTIAL CORRECTIONS
TDE .4425 TRA 2.4336 TC3-2.3714 BAU .5402
RDE -.2784 RRA-1.6119 RC3 .9967 FAU .06848
FDE 1.7481 FRA 5.2456 FC3-3.7739 BSP 16760
BDE .5228 BRA 2.9190 BC3 2.5723 FSP -2881

MID-COURSE EXECUTION ACCURACY
SGT 4564.5 SGR 2863.1 SG3 836.9
RRT -.9895 RRF -.9916 RTF .9873
SGB 5388.1 R23 .0609 R13 -.9906
SG1 5376.7 SG2 351.3 THA 148.02

ORBIT DETERMINATION ACCURACY
ST 1390.2 SR 910.8 SS 1418.5
CRT -.9997 CRS .9547 CST -.9605
LSA 2163.0 MSA 309.9 SSA 11.6
EL1 1661.9 EL2 19.2 ALF 146.77

LAUNCH DATE SEP 20 1965 FLIGHT TIME 192.00 ARRIVAL DATE MAR 31 1966

HELIOCENTRIC CONIC DISTANCE 523.892

RL 150.23 LAL -.00 LOL 356.83 VL 27.305 GAL 5.24 AZL 91.99 HCA 232.03 SMA 129.95 ECC .18026 INC 1.9918 V1 29.660
RP 108.31 LAP 1.57 LOP 228.84 VP 37.809 GAP 4.01 AZP 88.77 TAL 154.79 TAP 26.83 RCA 106.53 APO 153.38 V2 34.990
RC 94.449 GL -13.71 GP 38.03 ZAL 41.76 ZAP 122.18 ETS 25.49 ZAE 125.83 ETE 150.53 ZAC 25.68 ETC 241.07 CLP-132.54

PLANETOCENTRIC CONIC

C3 15.897 VHL 3.987 DLA -28.76 RAL 324.13 RAD 6567.6 VEL 11.717 PTH 2.06 VHP 4.521 DPA 13.58 RAP 277.15 ECC 1.2616

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
84.76	14 17 45	980.60	21.19	331.35	189.15	109.91	14 34 5	380.6	23.72	323.56
95.24	15 45 15	697.33	21.21	310.61	189.16	109.89	15 56 53	97.3	23.73	302.81
100.00	15 13 48	798.68	16.01	315.78	186.87	115.58	15 27 6	198.7	19.33	308.55
100.00	17 31 54	5642.53	26.57	265.01	190.96	104.22	19 5 56	5042.5	28.27	256.62
110.00	15 7 7	819.69	9.80	313.80	183.30	122.91	15 20 46	219.7	14.07	307.30
110.00	19 55 4	5194.28	33.57	232.50	192.46	96.84	21 21 38	4594.3	34.16	223.30

DIFFERENTIAL CORRECTIONS
TDE .5503 TRA 2.6590 TC3-2.4917 BAU .5619
RDE -.2525 RRA-1.5078 RC3 .8845 FAU .06629
FDE 1.8228 FRA 5.2701 FC3-3.6101 BSP 17159
BDE .6054 BRA 3.0567 BC3 2.6440 FSP -2841

MID-COURSE EXECUTION ACCURACY
SGT 4854.9 SGR 2595.7 SG3 818.6
RRT -.9888 RRF -.9893 RTF .9879
SGB 5505.3 R23 .0510 R13 -.9901
SG1 5494.6 SG2 342.4 THA 152.02

ORBIT DETERMINATION ACCURACY
ST 1529.2 SR 825.8 SS 1439.7
CRT -.9960 CRS .9442 CST -.9696
LSA 2236.5 MSA 301.8 SSA 12.1
EL1 1736.7 EL2 65.2 ALF 151.68

LAUNCH DATE SEP 20 1965 FLIGHT TIME 194.00 ARRIVAL DATE APR 2 1966

HELIOCENTRIC CONIC DISTANCE 530.029

RL 150.23 LAL -.00 LOL 356.83 VL 27.293 GAL 5.42 AZL 91.70 HCA 235.22 SMA 129.87 ECC .18239 INC 1.7045 V1 29.660
RP 108.35 LAP 1.40 LOP 232.04 VP 37.788 GAP 4.43 AZP 89.03 TAL 154.25 TAP 29.47 RCA 106.18 APO 153.56 V2 34.977
RC 96.794 GL -11.57 GP 35.53 ZAL 40.65 ZAP 125.74 ETS 27.05 ZAE 125.23 ETE 153.79 ZAC 23.38 ETC 239.07 CLP-135.86

PLANETOCENTRIC CONIC

C3 16.225 VHL 4.028 DLA -26.55 RAL 323.95 RAD 6567.7 VEL 11.731 PTH 2.07 VHP 4.596 DPA 11.08 RAP 277.02 ECC 1.2670

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	13 33 7	1130.94	13.23	338.86	186.10	115.26	13 51 58	530.9	16.53	331.73
90.00	16 28 29	5844.32	26.09	279.72	190.61	101.42	18 5 53	5244.3	27.40	271.30
100.00	14 23 56	966.83	10.84	325.57	184.87	118.03	14 40 3	366.8	14.50	318.70
100.00	18 20 21	5483.66	28.73	253.71	191.14	98.64	19 51 45	4883.7	29.62	245.02
110.00	14 40 19	915.40	6.22	318.90	182.08	123.68	14 55 34	315.4	10.61	312.55
110.00	20 20 27	5107.86	34.07	225.80	191.77	92.91	21 45 35	4507.9	34.10	216.56

DIFFERENTIAL CORRECTIONS
TDE .6613 TRA 2.8797 TC3-2.5738 BAU .5831
RDE -.2253 RRA-1.4113 RC3 .7753 FAU .06329
FDE 1.8776 FRA 5.2435 FC3-3.3768 BSP 17585
BDE .6987 BRA 3.2069 BC3 2.6880 FSP -2770

MID-COURSE EXECUTION ACCURACY
SGT 5113.9 SGR 2351.3 SG3 792.1
RRT -.9873 RRF -.9865 RTF .9882
SGB 5628.5 R23 .0406 R13 -.9897
SG1 5618.3 SG2 339.3 THA 155.49

ORBIT DETERMINATION ACCURACY
ST 1656.1 SR 745.8 SS 1453.3
CRT -.9878 CRS .9309 CST -.9763
LSA 2314.5 MSA 295.6 SSA 12.5
EL1 1822.3 EL2 106.3 ALF 156.06

LAUNCH DATE SEP 20 1965 FLIGHT TIME 196.00 ARRIVAL DATE APR 4 1966

HELIOCENTRIC CONIC DISTANCE 536.138

RL 150.23 LAL -.00 LOL 356.83 VL 27.281 GAL 5.61 AZL 91.44 HCA 238.41 SMA 129.78 ECC .18476 INC 1.4387 V1 29.660
RP 108.39 LAP 1.23 LOP 235.23 VP 37.767 GAP 4.85 AZP 89.25 TAL 153.67 TAP 32.08 RCA 105.80 APO 153.76 V2 34.964
RC 99.145 GL -9.61 GP 33.21 ZAL 39.62 ZAP 129.11 ETS 28.40 ZAE 124.55 ETE 156.62 ZAC 21.39 ETC 236.21 CLP-138.94

PLANETOCENTRIC CONIC

C3 16.683 VHL 4.085 DLA -24.49 RAL 323.87 RAD 6567.7 VEL 11.750 PTH 2.07 VHP 4.696 DPA 8.76 RAP 277.10 ECC 1.2746

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 51 44	1276.95	8.85	347.34	184.81	117.01	13 13 1	676.9	12.40	340.46
90.00	17 9 11	5711.05	27.53	270.24	190.78	96.89	18 44 22	5111.0	28.20	261.63
100.00	13 51 55	1082.67	7.06	332.10	183.85	119.12	14 9 58	482.7	10.89	325.41
100.00	18 51 41	5380.56	29.35	246.15	191.01	94.75	20 21 22	4780.6	29.89	237.37
110.00	14 19 6	997.43	3.11	323.20	181.41	124.06	14 35 43	397.4	7.56	316.94
110.00	20 41 0	5038.56	34.18	220.39	191.22	89.71	22 4 59	4438.6	33.76	211.17

DIFFERENTIAL CORRECTIONS
TDE .7780 TRA 3.1001 TC3-2.6140 BAU .6018
RDE -.1986 RRA-1.3244 RC3 .6694 FAU .05941
FDE 1.9196 FRA 5.1825 FC3-3.0828 BSP 17963
BDE .8030 BRA 3.3712 BC3 2.6984 FSP -2663

MID-COURSE EXECUTION ACCURACY
SGT 5346.7 SGR 2131.9 SG3 760.2
RRT -.9851 RRF -.9830 RTF .9883
SGB 5756.1 R23 .0315 R13 -.9893
SG1 5745.9 SG2 341.6 THA 158.48

ORBIT DETERMINATION ACCURACY
ST 1802.9 SR 673.1 SS 1462.9
CRT -.9750 CRS .9145 CST -.9814
LSA 2399.8 MSA 290.8 SSA 12.9
EL1 1919.3 EL2 140.4 ALF 159.89

LAUNCH DATE SEP 20 1965 FLIGHT TIME 198.00 ARRIVAL DATE APR 6 1966

HELIOCENTRIC CONIC DISTANCE 542.217

RL 150.23 LAL -.00 LOL 356.83 VL 27.267 GAL 5.82 AZL 91.19 HCA 241.59 SMA 129.69 ECC .18737 INC 1.1907 V1 29.660
RP 108.43 LAP 1.05 LOP 238.42 VP 37.745 GAP 5.28 AZP 89.43 TAL 153.07 TAP 34.66 RCA 105.39 APO 153.99 V2 34.951
RC 101.502 GL -7.80 GP 31.08 ZAL 38.68 ZAP 132.30 ETS 29.59 ZAE 123.82 ETE 159.06 ZAC 19.74 ETC 232.47 CLP-141.80

PLANETOCENTRIC CONIC

C3 17.267 VHL 4.155 DLA -22.58 RAL 323.86 RAD 6567.7 VEL 11.775 PTH 2.08 VHP 4.819 DPA 6.63 RAP 277.37 ECC 1.2842

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 22 57	1385.94	5.42	353.52	184.23	117.83	12 46 3	785.9	9.11	346.77
90.00	17 37 55	5617.89	28.11	263.48	190.84	93.55	19 11 33	5017.9	28.31	254.82
100.00	13 27 38	1177.19	3.90	337.34	183.39	119.66	13 47 15	577.2	7.82	330.74
100.00	19 15 56	5301.88	29.85	240.32	190.93	91.70	20 44 18	4701.9	29.77	231.52
110.00	14 1 38	1070.57	.31	327.02	181.16	124.18	14 19 29	470.6	4.80	320.81
110.00	20 58 25	4981.26	34.07	215.92	190.88	87.07	22 21 26	4381.3	33.29	206.77

DIFFERENTIAL CORRECTIONS
TDE .8952 TRA 3.3165 TC3-2.6284 BAU .6212
RDE -.1702 RRA-1.2448 RC3 .5775 FAU .05551
FDE 1.9390 FRA 5.0866 FC3-2.7831 BSP 18419
BDE .9113 BRA 3.5424 BC3 2.6911 FSP -2553

MID-COURSE EXECUTION ACCURACY
SGT 5551.9 SGR 1934.2 SG3 723.9
RRT -.9820 RRF -.9786 RTF .9883
SGB 5879.2 R23 .0227 R13 -.9890
SG1 5869.0 SG2 346.0 THA 161.05

ORBIT DETERMINATION ACCURACY
ST 1932.8 SR 605.2 SS 1463.0
CRT -.9568 CRS .8931 CST -.9852
LSA 2481.9 MSA 287.2 SSA 13.1
EL1 2018.3 EL2 168.5 ALF 163.20

LAUNCH DATE SEP 20 1965 FLIGHT TIME 200.00 ARRIVAL DATE APR 8 1966

HELIOCENTRIC CONIC DISTANCE 548.267

RL 150.23 LAL -.00 LOL 356.83 VL 27.252 GAL 6.05 AZL 90.96 HCA 244.78 SMA 129.59 ECC .19023 INC .9574 V1 29.660
RP 108.46 LAP .87 LOP 241.60 VP 37.723 GAP 5.70 AZP 89.59 TAL 152.43 TAP 37.21 RCA 104.94 APO 154.24 V2 34.939
RC 103.862 GL -6.13 GP 29.13 ZAL 37.80 ZAP 135.29 ETS 30.67 ZAE 123.07 ETE 161.15 ZAC 18.44 ETC 227.86 CLP-144.45

PLANETOCENTRIC CONIC

C3 17.976 VHL 4.240 DLA -20.80 RAL 323.92 RAD 6567.7 VEL 11.805 PTH 2.09 VHP 4.963 DPA 4.67 RAP 277.83 ECC 1.2958

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 0 31	1477.16	2.50	358.63	184.10	118.22	12 25 8	877.2	6.26	351.96
90.00	18 0 51	5545.35	28.30	258.19	190.99	90.90	19 33 16	4945.3	28.13	249.52
100.00	13 8 2	1259.29	1.12	341.85	183.34	119.87	13 29 1	659.3	5.09	335.31
100.00	19 36 2	5238.45	29.88	235.61	190.99	89.22	21 3 20	4638.5	29.45	226.83
110.00	13 46 56	1137.35	-2.24	330.51	181.24	124.12	14 5 53	537.4	2.25	324.30
110.00	21 13 37	4933.15	33.84	212.18	190.75	84.87	22 35 50	4333.2	32.76	203.11

DIFFERENTIAL CORRECTIONS
TDE 1.0158 TRA 3.5340 TC3-2.6128 BAU .6391
RDE -.1420 RRA-1.1741 RC3 .4949 FAU .05135
FDE 1.9453 FRA 4.9727 FC3-2.4729 BSP 18854
BDE 1.0257 BRA 3.7240 BC3 2.6593 FSP -2430

MID-COURSE EXECUTION ACCURACY
SGT 5735.3 SGR 1758.9 SG3 685.7
RRT -.9779 RRF -.9732 RTF .9882
SGB 5999.0 R23 .0155 R13 -.9886
SG1 5988.6 SG2 352.5 THA 163.25

ORBIT DETERMINATION ACCURACY
ST 2058.6 SR 544.3 SS 1458.2
CRT -.9323 CRS .8662 CST -.9882
LSA 2565.0 MSA 284.4 SSA 13.3
EL1 2120.8 EL2 191.0 ALF 166.04

LAUNCH DATE SEP 20 1965 FLIGHT TIME 202.00 ARRIVAL DATE APR 10 1966

HELIOCENTRIC CONIC DISTANCE 554.285

RL 150.23 LAL -.00 LOL 356.83 VL 27.237 GAL 6.29 AZL 90.74 HCA 247.96 SMA 129.48 ECC .19336 INC .7362 V1 29.660
RP 108.50 LAP .68 LOP 244.78 VP 37.701 GAP 6.14 AZP 89.72 TAL 151.76 TAP 39.72 RCA 104.44 APO 154.52 V2 34.926
RC 106.225 GL -4.60 GP 27.35 ZAL 36.97 ZAP 138.10 ETS 31.68 ZAE 122.32 ETE 162.94 ZAC 17.51 ETC 222.52 CLP-146.92

PLANETOCENTRIC CONIC

C3 18.812 VHL 4.337 DLA -19.14 RAL 324.04 RAD 6567.8 VEL 11.840 PTH 2.10 VHP 5.125 DPA 2.90 RAP 278.47 ECC 1.3096

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 42 10	1557.41	-.08	3.11	184.31	118.32	12 8 7	957.4	3.70	356.47
90.00	18 20 10	5486.42	28.29	253.87	191.27	88.74	19 51 37	4886.4	27.82	245.24
100.00	12 51 41	1333.04	-1.38	345.90	183.59	119.86	13 13 54	733.0	2.61	339.37
100.00	19 53 20	5186.02	29.77	231.72	191.21	87.17	21 19 46	4586.0	29.06	222.98
110.00	13 34 22	1199.32	-4.60	333.75	181.59	123.91	13 54 21	599.3	-.12	327.53
110.00	21 27 9	4892.51	33.55	209.04	190.83	83.03	22 48 41	4292.5	32.22	200.06

DIFFERENTIAL CORRECTIONS
TDE 1.1391 TRA 3.7531 TC3-2.5732 BAU .6559
RDE -.1141 RRA-1.1113 RC3 .4229 FAU .04717
FDE 1.9398 FRA 4.8462 FC3-2.1706 BSP 19295
BDE 1.1448 BRA 3.9142 BC3 2.6078 FSP -2305

MID-COURSE EXECUTION ACCURACY
SGT 5898.3 SGR 1603.7 SG3 646.8
RRT -.9727 RRF -.9669 RTF .9880
SGB 6112.4 R23 .0097 R13 -.9883
SG1 6101.8 SG2 359.9 THA 165.13

ORBIT DETERMINATION ACCURACY
ST 2178.9 SR 490.1 SS 1448.6
CRT -.9005 CRS .8324 CST -.9905
LSA 2647.0 MSA 282.1 SSA 13.4
EL1 2223.5 EL2 208.9 ALF 168.45

LAUNCH DATE SEP 20 1965 FLIGHT TIME 204.00 ARRIVAL DATE APR 12 1966

HELIOCENTRIC CONIC DISTANCE 560.269

RL 150.23 LAL -.00 LOL 356.83 VL 27.220 GAL 6.56 AZL 90.52 HCA 251.14 SMA 129.37 ECC .19677 INC .5248 V1 29.660
RP 108.54 LAP .50 LOP 247.96 VP 37.678 GAP 6.58 AZP 89.83 TAL 151.07 TAP 42.21 RCA 103.91 APO 154.82 V2 34.914
RC 108.588 GL -3.19 GP 25.73 ZAL 36.19 ZAP 140.72 ETS 32.65 ZAE 121.59 ETE 164.47 ZAC 16.97 ETC 216.66 CLP-149.23

PLANETOCENTRIC CONIC

C3 19.783 VHL 4.448 DLA -17.60 RAL 324.22 RAD 6567.8 VEL 11.881 PTH 2.11 VHP 5.305 DPA 1.28 RAP 279.26 ECC 1.3256

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 26 44	1630.03	-2.43	7.16	184.80	118.22	11 53 54	1030.0	1.36	.53
90.00	18 36 59	5437.58	28.17	250.31	191.72	86.95	20 7 37	4837.6	27.45	241.72
100.00	12 37 48	1400.68	-3.67	349.61	184.11	119.69	13 1 9	800.7	.31	343.09
100.00	20 8 36	5142.15	29.58	228.47	191.61	85.47	21 34 18	4542.2	28.64	219.79
110.00	13 23 31	1257.47	-6.80	336.82	182.18	123.58	13 44 28	657.5	-2.34	330.57
110.00	21 39 23	4858.13	33.24	206.41	191.12	81.50	23 0 21	4258.1	31.70	197.52

DIFFERENTIAL CORRECTIONS
TDE 1.2663 TRA 3.9767 TC3-2.5106 BAU .6708
RDE -.0870 RRA-1.0562 RC3 .3599 FAU .04297
FDE 1.9265 FRA 4.7151 FC3-1.8806 BSP 19704
BDE 1.2693 BRA 4.1146 BC3 2.5363 FSP -2177

MID-COURSE EXECUTION ACCURACY
SGT 6044.2 SGR 1467.2 SG3 608.3
RRT -.9663 RRF -.9594 RTF .9878
SGB 6219.7 R23 .0052 R13 -.9879
SG1 6208.9 SG2 367.5 THA 166.75

ORBIT DETERMINATION ACCURACY
ST 2294.6 SR 442.8 SS 1436.0
CRT -.8602 CRS .7910 CST -.9923
LSA 2728.5 MSA 280.1 SSA 13.4
EL1 2326.3 EL2 222.7 ALF 170.49

LAUNCH DATE SEP 20 1965 FLIGHT TIME 206.00 ARRIVAL DATE APR 14 1966

HELIOCENTRIC CONIC DISTANCE 566.218

RL 150.23 LAL -.00 LOL 356.83 VL 27.203 GAL 6.85 AZL 90.32 HCA 254.32 SMA 129.25 ECC .20048 INC .3213 VI 29.660
RP 108.58 LAP .31 LOP 251.14 VP 37.655 GAP 7.03 AZP 89.91 TAL 150.35 TAP 44.67 RCA 103.34 APO 155.16 V2 34.903
RC 110.951 GL -1.90 GP 24.26 ZAL 35.45 ZAP 143.18 ETS 33.62 ZAE 120.89 ETE 165.78 ZAC 16.82 ETC 210.60 CLP-151.40

PLANETOCENTRIC CONIC

C3 20.895 VHL 4.571 DLA -16.16 RAL 324.44 RAD 6567.8 VEL 11.928 PTH 2.12 VHP 5.502 DPA -.18 RAP 280.20 ECC 1.3439

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 13 31	1696.98	-4.57	10.91	185.52	117.98	11 41 48	1097.0	-.80	4.26
90.00	18 51 56	5396.74	27.98	247.33	192.32	85.47	20 21 53	4796.7	27.06	238.79
100.00	12 25 50	1463.64	-5.78	353.09	184.86	119.38	12 50 14	863.6	-1.82	346.54
100.00	20 22 18	5105.31	29.35	225.75	192.18	84.06	21 47 23	4505.3	28.22	217.13
110.00	13 14 4	1312.55	-8.86	339.75	182.97	123.15	13 35 57	712.5	-4.44	333.45
110.00	21 50 33	4829.17	32.92	204.21	191.60	80.23	23 11 3	4229.2	31.22	195.40

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE 1.4004 TRA 4.2086 TC3-2.4240 BAU .6824 SGT 6177.2 SGR 1347.6 SG3 571.2 ST 2408.5 SR 402.5 SS 1423.2
RDE -.0615 RRA-1.0087 RC3 .3040 FAU .03868 RRT -.9588 RRF -.9508 RTF .9874 CRT -.8115 CRS .7421 CST -.9938
FDE 1.9111 FRA 4.5866 FC3-1.6027 BSP 20011 SGB 6322.5 R23 .0020 R13 -.9875 LSA 2812.6 MSA 278.0 SSA 13.5
BDE 1.4018 BRA 4.3278 BC3 2.4430 FSP -2040 SG1 6311.4 SG2 374.8 THA 168.14 EL1 2430.7 EL2 233.0 ALF 172.21

LAUNCH DATE SEP 20 1965 FLIGHT TIME 208.00 ARRIVAL DATE APR 16 1966

HELIOCENTRIC CONIC DISTANCE 572.128

RL 150.23 LAL -.00 LOL 356.83 VL 27.186 GAL 7.16 AZL 90.12 HCA 257.49 SMA 129.13 ECC .20450 INC .1239 VI 29.660
RP 108.61 LAP .12 LOP 254.32 VP 37.631 GAP 7.49 AZP 89.97 TAL 149.61 TAP 47.10 RCA 102.72 APO 155.54 V2 34.892
RC 113.313 GL -.71 GP 22.92 ZAL 34.74 ZAP 145.48 ETS 34.61 ZAE 120.22 ETE 166.90 ZAC 17.03 ETC 204.68 CLP-153.45

PLANETOCENTRIC CONIC

C3 22.159 VHL 4.707 DLA -14.83 RAL 324.69 RAD 6567.9 VEL 11.981 PTH 2.14 VHP 5.714 DPA -1.49 RAP 281.27 ECC 1.3647

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 2 6	1759.50	-6.56	14.43	186.44	117.61	11 31 25	1159.5	-2.81	7.75
90.00	19 5 24	5362.54	27.77	244.85	193.07	84.25	20 34 47	4762.5	26.69	236.36
100.00	12 15 26	1522.86	-7.75	356.39	185.79	118.96	12 40 49	922.9	-3.82	349.80
100.00	20 34 45	5074.41	29.11	223.49	192.90	82.89	21 59 19	4474.4	27.82	214.92
110.00	13 5 49	1365.06	-10.80	342.57	183.95	122.63	13 28 34	765.1	-6.43	336.22
110.00	22 0 51	4804.98	32.63	202.38	192.26	79.19	23 20 56	4205.0	30.79	193.64

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE 1.5348 TRA 4.4432 TC3-2.3291 BAU .6942 SGT 6292.4 SGR 1241.3 SG3 535.2 ST 2512.2 SR 367.6 SS 1405.5
RDE -.0358 RRA -.9663 RC3 .2579 FAU .03477 RRT -.9499 RRF -.9409 RTF .9871 CRT -.7519 CRS .6828 CST -.9950
FDE 1.8862 FRA 4.4554 FC3-1.3586 BSP 20393 SGB 6413.7 R23 -.0006 R13 -.9871 LSA 2888.8 MSA 276.1 SSA 13.5
BDE 1.5353 BRA 4.5471 BC3 2.3433 FSP -1918 SG1 6402.4 SG2 381.2 THA 169.35 EL1 2527.5 EL2 240.9 ALF 173.66

LAUNCH DATE SEP 20 1965 FLIGHT TIME 210.00 ARRIVAL DATE APR 18 1966

HELIOCENTRIC CONIC DISTANCE 577.997

RL 150.23 LAL -.00 LOL 356.83 VL 27.167 GAL 7.49 AZL 89.93 HCA 260.67 SMA 129.00 ECC .20887 INC .0660 VI 29.660
RP 108.64 LAP -.07 LOP 257.49 VP 37.608 GAP 7.96 AZP 90.01 TAL 148.85 TAP 49.52 RCA 102.06 APO 155.95 V2 34.881
RC 115.673 GL .37 GP 21.70 ZAL 34.07 ZAP 147.63 ETS 35.65 ZAE 119.58 ETE 167.87 ZAC 17.55 ETC 199.16 CLP-155.38

PLANETOCENTRIC CONIC

C3 23.590 VHL 4.857 DLA -13.58 RAL 324.98 RAD 6568.0 VEL 12.040 PTH 2.15 VHP 5.943 DPA -2.67 RAP 282.46 ECC 1.3882

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 52 7	1818.48	-8.41	17.78	187.53	117.14	11 22 25	1218.5	-4.70	11.06
90.00	19 17 41	5334.01	27.56	242.79	193.97	83.24	20 46 35	4734.0	26.34	234.34
100.00	12 6 20	1579.03	-9.58	359.55	186.90	118.45	12 32 39	979.0	-5.71	352.90
100.00	20 46 10	5048.69	28.88	221.61	193.78	81.93	22 10 18	4448.7	27.46	213.10
110.00	12 58 34	1415.42	-12.64	345.32	185.09	122.03	13 22 10	815.4	-8.32	338.89
110.00	22 10 25	4785.06	32.36	200.89	193.07	78.34	23 30 10	4185.1	30.42	192.21

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE 1.6737 TRA 4.6859 TC3-2.2222 BAU .7042 SGT 6395.1 SGR 1147.5 SG3 501.0 ST 2610.1 SR 338.6 SS 1386.3
RDE -.0109 RRA -.9291 RC3 .2186 FAU .03106 RRT -.9398 RRF -.9298 RTF .9867 CRT -.6823 CRS .6143 CST -.9959
FDE 1.8582 FRA 4.3287 FC3-1.1398 BSP 20740 SGB 6497.2 R23 -.0027 R13 -.9867 LSA 2962.1 MSA 274.1 SSA 13.4
BDE 1.6737 BRA 4.7772 BC3 2.2329 FSP -1801 SG1 6485.7 SG2 386.8 THA 170.39 EL1 2620.4 EL2 246.6 ALF 174.90

LAUNCH DATE SEP 20 1965 FLIGHT TIME 212.00 ARRIVAL DATE APR 20 1966

HELIOCENTRIC CONIC DISTANCE 583.822

RL 150.23 LAL -.00 LOL 356.83 VL 27.148 GAL 7.85 AZL 89.74 HCA 263.84 SMA 128.87 ECC .21360 INC .2556 VI 29.660
RP 108.68 LAP -.25 LOP 260.66 VP 37.585 GAP 8.45 AZP 90.03 TAL 148.08 TAP 51.92 RCA 101.35 APO 156.40 V2 34.870
RC 118.029 GL 1.37 GP 20.60 ZAL 33.42 ZAP 149.65 ETS 36.76 ZAE 118.99 ETE 168.70 ZAC 18.36 ETC 194.22 CLP-157.21

PLANETOCENTRIC CONIC

C3 25.203 VHL 5.020 DLA -12.42 RAL 325.30 RAD 6568.0 VEL 12.107 PTH 2.17 VHP 6.187 DPA -3.72 RAP 283.76 ECC 1.4148

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 43 21	1874.54	-10.13	20.99	188.78	116.58	11 14 36	1274.5	-6.48	14.22
90.00	19 28 59	5310.44	27.36	241.10	195.01	82.41	20 57 29	4710.4	26.03	232.68
100.00	11 58 19	1632.66	-11.31	2.60	188.17	117.86	12 25 32	1032.7	-7.49	355.88
100.00	20 56 42	5027.55	28.67	220.08	194.79	81.15	22 20 29	4427.5	27.15	211.60
110.00	12 52 12	1463.96	-14.37	348.01	186.38	121.35	13 16 35	864.0	-10.12	341.49
110.00	22 19 19	4769.02	32.14	199.69	194.04	77.67	23 38 48	4169.0	30.11	191.07

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE 1.8172 TRA 4.9382 TC3-2.1053 BAU .7121 SGT 6486.3 SGR 1064.3 SG3 468.8 ST 2702.3 SR 314.8 SS 1366.6
RDE .0132 RRA -.8967 RC3 .1849 FAU .02751 RRT -.9283 RRF -.9174 RTF .9863 CRT -.6036 CRS .5376 CST -.9967
FDE 1.8290 FRA 4.2084 FC3 -.9450 BSP 21063 SGB 6573.1 R23 -.0042 R13 -.9863 LSA 3032.3 MSA 271.9 SSA 13.4
BDE 1.8173 BRA 5.0190 BC3 2.1134 FSP -1688 SG1 6561.4 SG2 391.2 THA 171.31 EL1 2709.1 EL2 250.3 ALF 175.94

LAUNCH DATE SEP 20 1965 FLIGHT TIME 214.00 ARRIVAL DATE APR 22 1966

HELIOCENTRIC CONIC DISTANCE 589.599

RL 150.23 LAL -.00 LOL 356.83 VL 27.129 GAL 8.24 AZL 89.56 HCA 267.01 SMA 128.74 ECC .21873 INC .4419 V1 29.660
RP 108.71 LAP -.44 LOP 263.84 VP 37.561 GAP 8.95 AZP 90.02 TAL 147.29 TAP 54.30 RCA 100.58 APO 156.90 V2 34.860
RC 120.382 GL 2.28 GP 19.60 ZAL 32.80 ZAP 151.55 ETS 37.96 ZAE 118.42 ETE 169.41 ZAC 19.39 ETC 189.93 CLP-158.96

PLANETOCENTRIC CONIC

C3 27.020 VHL 5.198 DLA -11.33 RAL 325.64 RAD 6568.1 VEL 12.182 PTH 2.19 VHP 6.448 DPA -4.66 RAP 285.15 ECC 1.4447

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 35 38	1928.15	-11.75	24.10	190.18	115.95	11 7 46	1328.2	-8.16	17.26
90.00	19 39 25	5291.28	27.18	239.72	196.17	81.74	21 7 36	4691.3	25.76	231.35
100.00	11 51 15	1684.15	-12.93	5.56	189.58	117.19	12 19 20	1084.2	-9.18	358.77
100.00	21 6 28	5010.52	28.48	218.84	195.94	80.53	22 29 59	4410.5	26.88	210.41
110.00	12 46 34	1510.93	-16.02	350.65	187.81	120.61	13 11 45	910.9	-11.84	344.04
110.00	22 27 39	4756.50	31.95	198.76	195.15	77.15	23 46 56	4156.5	29.85	190.18

DIFFERENTIAL CORRECTIONS
TOE 1.9663 TRA 5.2013 TC3-1.9805 BAU .7177
RDE .0365 RRA -.8683 RC3 .1559 FAU .02414
FDE 1.7991 FRA 4.0954 FC3 -.7735 BSP 21357
BDE 1.9667 BRA 5.2733 BC3 1.9867 FSP -1581

MID-COURSE EXECUTION ACCURACY
SGT 6567.1 SGR 990.3 SG3 438.6
RRT -.9155 RRF -.9039 RTF .9860
SGB 6641.3 R23 -.0052 R13 -.9860
SG1 6629.6 SG2 394.6 THA 172.11

ORBIT DETERMINATION ACCURACY
ST 2789.0 SR 295.6 SS 1346.5
CRT -.5175 CRS .4545 CST -.9973
LSA 3099.4 MSA 269.3 SSA 13.3
EL1 2793.2 EL2 252.6 ALF 176.83

LAUNCH DATE SEP 20 1965 FLIGHT TIME 216.00 ARRIVAL DATE APR 24 1966

HELIOCENTRIC CONIC DISTANCE 595.322

RL 150.23 LAL -.00 LOL 356.83 VL 27.109 GAL 8.66 AZL 89.37 HCA 270.18 SMA 128.61 ECC .22428 INC .6270 V1 29.660
RP 108.74 LAP -.63 LOP 267.00 VP 37.538 GAP 9.47 AZP 90.00 TAL 146.48 TAP 56.66 RCA 99.76 APO 157.45 V2 34.861
RC 122.731 GL 3.12 GP 18.69 ZAL 32.20 ZAP 153.33 ETS 39.29 ZAE 117.89 ETE 170.04 ZAC 20.61 ETC 186.29 CLP-160.63

PLANETOCENTRIC CONIC

C3 29.065 VHL 5.391 DLA -10.33 RAL 326.00 RAD 6568.2 VEL 12.265 PTH 2.21 VHP 6.727 DPA -5.48 RAP 286.63 ECC 1.4783

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 28 48	1979.69	-13.26	27.13	191.71	115.25	11 1 47	1379.7	-9.75	20.21
90.00	19 49 7	5276.11	27.03	238.64	197.46	81.22	21 17 3	4676.1	25.54	230.29
100.00	11 45 0	1733.81	-14.45	8.46	191.12	116.45	12 13 54	1133.8	-10.78	1.59
100.00	21 15 35	4997.23	28.33	217.89	197.21	80.04	22 38 52	4397.2	26.66	209.48
110.00	12 41 37	1556.55	-17.58	353.27	189.37	119.80	13 7 33	956.6	-13.49	346.55
110.00	22 35 28	4747.25	31.81	198.08	196.39	76.77	23 54 35	4147.3	29.66	189.53

DIFFERENTIAL CORRECTIONS
TOE 2.1241 TRA 5.4794 TC3-1.8465 BAU .7193
RDE .0588 RRA -.8435 RC3 .1304 FAU .02083
FDE 1.7721 FRA 3.9924 FC3 -.6204 BSP 21551
BDE 2.1249 BRA 5.5439 BC3 1.8511 FSP -1475

MID-COURSE EXECUTION ACCURACY
SGT 6640.6 SGR 924.1 SG3 410.7
RRT -.9015 RRF -.8893 RTF .9856
SGB 6704.5 R23 -.0058 R13 -.9856
SG1 6692.8 SG2 396.7 THA 172.82

ORBIT DETERMINATION ACCURACY
ST 2872.8 SR 280.5 SS 1328.1
CRT -.4276 CRS .3683 CST -.9978
LSA 3166.1 MSA 266.4 SSA 13.2
EL1 2875.3 EL2 253.3 ALF 177.59

LAUNCH DATE SEP 20 1965 FLIGHT TIME 218.00 ARRIVAL DATE APR 26 1966

HELIOCENTRIC CONIC DISTANCE 600.985

RL 150.23 LAL -.00 LOL 356.83 VL 27.089 GAL 9.11 AZL 89.19 HCA 273.35 SMA 128.47 ECC .23030 INC .8119 V1 29.660
RP 108.76 LAP -.81 LOP 270.17 VP 37.515 GAP 10.01 AZP 89.95 TAL 145.68 TAP 59.02 RCA 98.88 APO 158.06 V2 34.842
RC 125.075 GL 3.88 GP 17.87 ZAL 31.62 ZAP 155.01 ETS 40.75 ZAE 117.39 ETE 170.58 ZAC 21.97 ETC 183.24 CLP-162.24

PLANETOCENTRIC CONIC

C3 31.366 VHL 5.601 DLA -9.39 RAL 326.37 RAD 6568.2 VEL 12.359 PTH 2.23 VHP 7.024 DPA -6.20 RAP 288.18 ECC 1.5162

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 22 44	2029.44	-14.69	30.09	193.36	114.48	10 56 33	1429.4	-11.26	23.09
90.00	19 58 9	5264.58	26.91	237.82	198.85	80.82	21 25 54	4664.6	25.36	229.49
100.00	11 39 28	1781.88	-15.89	11.30	192.77	115.66	12 9 10	1181.9	-12.31	4.34
100.00	21 24 6	4987.38	28.21	217.18	198.60	79.69	22 47 13	4387.4	26.50	208.79
110.00	12 37 14	1600.99	-19.07	355.86	191.05	118.92	13 3 55	1001.0	-15.06	349.03
110.00	22 42 49	4741.03	31.71	197.62	197.75	76.51	24 1 50	4141.0	29.53	189.09

DIFFERENTIAL CORRECTIONS
TOE 2.2843 TRA 5.7675 TC3-1.7140 BAU .7202
RDE .0813 RRA -.8209 RC3 .1093 FAU .01787
FDE 1.7423 FRA 3.8944 FC3 -.4932 BSP 21804
BDE 2.2857 BRA 5.8257 BC3 1.7175 FSP -1381

MID-COURSE EXECUTION ACCURACY
SGT 6701.8 SGR 864.0 SG3 384.4
RRT -.8862 RRF -.8734 RTF .9854
SGB 6757.3 R23 -.0064 R13 -.9853
SG1 6745.6 SG2 397.7 THA 173.46

ORBIT DETERMINATION ACCURACY
ST 2946.8 SR 268.6 SS 1307.9
CRT -.3337 CRS .2786 CST -.9983
LSA 3224.4 MSA 263.2 SSA 13.1
EL1 2948.2 EL2 253.1 ALF 178.24

LAUNCH DATE SEP 20 1965 FLIGHT TIME 220.00 ARRIVAL DATE APR 28 1966

HELIOCENTRIC CONIC DISTANCE 606.583

RL 150.23 LAL -.00 LOL 356.83 VL 27.068 GAL 9.60 AZL 89.00 HCA 276.51 SMA 128.33 ECC .23684 INC .9979 V1 29.660
RP 108.79 LAP -.99 LOP 273.34 VP 37.493 GAP 10.58 AZP 89.89 TAL 144.86 TAP 61.37 RCA 97.94 APO 158.73 V2 34.834
RC 127.413 GL 4.58 GP 17.11 ZAL 31.06 ZAP 156.59 ETS 42.40 ZAE 116.92 ETE 171.06 ZAC 23.45 ETC 180.71 CLP-163.78

PLANETOCENTRIC CONIC

C3 33.958 VHL 5.827 DLA -8.52 RAL 326.75 RAD 6568.3 VEL 12.463 PTH 2.25 VHP 7.340 DPA -6.82 RAP 289.80 ECC 1.5589

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 17 21	2077.64	-16.03	32.99	195.11	113.66	10 51 59	1477.6	-12.69	25.90
90.00	20 6 35	5256.39	26.82	237.24	200.35	80.55	21 34 11	4656.4	25.24	228.92
100.00	11 34 34	1828.56	-17.24	14.11	194.54	114.80	12 5 2	1228.6	-13.76	7.05
100.00	21 32 4	4980.70	28.13	216.70	200.09	79.45	22 55 4	4380.7	26.39	208.33
110.00	12 33 23	1644.39	-20.47	358.44	192.85	117.99	13 0 47	1044.4	-16.57	351.49
110.00	22 49 44	4737.64	31.66	197.37	199.22	76.37	24 8 42	4137.6	29.46	188.85

DIFFERENTIAL CORRECTIONS
TOE 2.4515 TRA 6.0708 TC3-1.5795 BAU .7183
RDE .1033 RRA -.8005 RC3 .0911 FAU .01507
FDE 1.7140 FRA 3.8047 FC3 -.3842 BSP 22031
BDE 2.4537 BRA 6.1233 BC3 1.5821 FSP -1293

MID-COURSE EXECUTION ACCURACY
SGT 6754.7 SGR 809.3 SG3 359.9
RRT -.8697 RRF -.8564 RTF .9851
SGB 6803.1 R23 -.0067 R13 -.9851
SG1 6791.4 SG2 397.4 THA 174.03

ORBIT DETERMINATION ACCURACY
ST 3015.2 SR 259.5 SS 1288.4
CRT -.2400 CRS .1895 CST -.9986
LSA 3278.9 MSA 259.7 SSA 13.0
EL1 3015.9 EL2 251.8 ALF 178.81

LAUNCH DATE SEP 21 1965 FLIGHT TIME 70.00 ARRIVAL DATE NOV 30 1965

HELIOCENTRIC CONIC DISTANCE 128.717

RL 150.19 LAL -.00 LOL 357.80 VL 15.491 GAL 26.94 AZL 93.96 HCA 35.72 SMA 86.89 ECC .79181 INC 3.9637 V1 29.668
RP 108.31 LAP -2.31 LOP 33.46 VP 30.388 GAP -50.94 AZP 93.22 TAL 172.04 TAP 207.75 RCA 18.09 APO 155.70 V2 34.990
RC 84.036 GL -3.11 GP -3.85 ZAL 64.76 ZAP 34.49 ETS 171.01 ZAE 133.66 ETE 179.06 ZAC 25.19 ETC 42.84 CLP 34.30

PLANETOCENTRIC CONIC

C3 309.570 VHL 17.595 DLA -24.53 RAL 295.48 RAD 6571.8 VEL 20.758 PTH 3.18 VHP 28.339 DPA -24.85 RAP 245.09 ECC 6.0947

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 55 10	1895.04	-10.75	22.18	194.03	116.35	11 26 51	1295.0	-7.13	15.38
90.00	15 11 21	1045.79	15.65	333.77	206.26	113.91	15 28 47	445.8	18.75	326.46
100.00	11 55 19	1701.16	-13.45	6.55	192.64	116.95	12 23 40	1101.2	-9.73	359.73
100.00	16 53 59	714.91	18.41	310.71	207.55	113.98	17 5 54	114.9	21.49	303.27
110.00	12 22 20	1616.45	-19.57	356.77	189.28	118.60	12 49 16	1016.4	-15.60	349.90
110.00	18 43 28	5660.43	24.72	265.64	210.59	114.40	20 17 48	5060.4	27.79	257.82

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.4233 TRA-1.9616 TC3 -.1132 BAU .4686 SGT 819.0 SGR 460.6 SG3 24.6 ST 252.0 SR 444.4 SS 222.0
RDE-1.3598 RRA .3534 RC3 .0029 FAU .01134 RRT -.0846 RRF .0799 RTF -.6130 CRT .4736 CRS .4471 CST .9960
FDE .1453 FRA .7196 FC3 -.0317 BSP 1926 SGB 939.6 R23 -.0044 R13 .6137 LSA 485.9 MSA 272.2 SSA 14.1
BDE 1.4242 BRA 1.9932 BC3 .1132 FSP -49 SG1 820.3 SG2 458.2 THA 176.04 EL1 464.7 EL2 212.3 ALF 70.82

LAUNCH DATE SEP 21 1965 FLIGHT TIME 72.00 ARRIVAL DATE DEC 2 1965

HELIOCENTRIC CONIC DISTANCE 134.190

RL 150.19 LAL -.00 LOL 357.80 VL 16.276 GAL 25.72 AZL 93.46 HCA 38.90 SMA 88.33 ECC .76569 INC 3.4575 V1 29.668
RP 108.27 LAP -2.17 LOP 36.66 VP 30.810 GAP -48.68 AZP 92.69 TAL 171.20 TAP 210.10 RCA 20.70 APO 155.97 V2 35.003
RC 81.818 GL -3.01 GP -3.95 ZAL 63.38 ZAP 32.99 ETS 170.52 ZAE 133.56 ETE 179.39 ZAC 24.13 ETC 45.78 CLP 32.78

PLANETOCENTRIC CONIC

C3 283.507 VHL 16.838 DLA -24.19 RAL 296.96 RAD 6571.6 VEL 20.120 PTH 3.15 VHP 27.305 DPA -25.31 RAP 246.87 ECC 5.6658

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 55 31	1903.94	-11.02	22.69	194.64	116.25	11 27 15	1303.9	-7.41	15.88
90.00	15 22 51	1015.68	16.47	331.94	207.19	113.36	15 39 47	415.7	19.49	324.57
100.00	11 56 34	1706.88	-13.63	6.88	193.31	116.86	12 25 1	1106.9	-9.92	.06
100.00	17 4 30	687.97	19.14	309.04	208.41	113.41	17 15 57	88.0	22.15	301.54
110.00	12 24 58	1617.81	-19.62	356.85	190.03	118.57	12 51 56	1017.8	-15.65	349.98
110.00	18 52 35	5637.84	25.34	264.19	211.33	113.75	20 26 33	5037.8	28.33	256.28

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.4430 TRA-1.9780 TC3 -.1210 BAU .4587 SGT 856.3 SGR 466.9 SG3 26.5 ST 268.1 SR 448.4 SS 235.9
RDE-1.3123 RRA .3643 RC3 .0026 FAU .01138 RRT -.0914 RRF .0867 RTF -.6321 CRT .4848 CRS .4686 CST .9966
FDE .1607 FRA .7473 FC3 -.0347 BSP 2073 SGB 975.3 R23 -.0049 R13 .6327 LSA 499.1 MSA 281.5 SSA 14.3
BDE 1.3850 BRA 2.0113 BC3 .1210 FSP -54 SG1 857.8 SG2 464.1 THA 175.96 EL1 472.7 EL2 222.4 ALF 68.97

LAUNCH DATE SEP 21 1965 FLIGHT TIME 74.00 ARRIVAL DATE DEC 4 1965

HELIOCENTRIC CONIC DISTANCE 139.783

RL 150.19 LAL -.00 LOL 357.80 VL 17.012 GAL 24.57 AZL 93.02 HCA 42.09 SMA 89.80 ECC .73955 INC 3.0163 V1 29.668
RP 108.22 LAP -2.02 LOP 39.86 VP 31.220 GAP -46.55 AZP 92.24 TAL 170.36 TAP 212.45 RCA 23.39 APO 156.21 V2 35.016
RC 79.613 GL -2.90 GP -4.05 ZAL 62.04 ZAP 31.51 ETS 169.98 ZAE 133.54 ETE 179.75 ZAC 23.14 ETC 49.05 CLP 31.28

PLANETOCENTRIC CONIC

C3 259.772 VHL 16.117 DLA -23.83 RAL 298.37 RAD 6571.5 VEL 19.521 PTH 3.11 VHP 26.307 DPA -25.77 RAP 248.69 ECC 5.2752

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 55 28	1912.57	-11.28	23.20	195.17	116.14	11 27 21	1312.6	-7.68	16.37
90.00	15 34 10	984.67	17.30	330.04	208.00	112.78	15 50 34	384.7	20.23	322.60
100.00	11 57 28	1712.48	-13.80	7.21	193.88	116.78	12 26 0	1112.5	-10.10	.38
100.00	17 14 52	659.99	19.89	307.30	209.15	112.79	17 25 52	60.0	22.81	299.72
110.00	12 27 14	1619.09	-19.66	356.93	190.68	118.54	12 54 14	1019.1	-15.70	350.05
110.00	19 1 34	5614.19	25.98	262.65	211.94	113.04	20 35 8	5014.2	28.87	254.65

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.4643 TRA-1.9978 TC3 -.1294 BAU .4495 SGT 896.7 SGR 472.5 SG3 28.6 ST 285.7 SR 451.7 SS 250.5
RDE-1.2646 RRA .3739 RC3 .0022 FAU .01141 RRT -.0981 RRF .0938 RTF -.6506 CRT .4962 CRS .4886 CST .9970
FDE .1769 FRA .7759 FC3 -.0380 BSP 2166 SGB 1013.6 R23 -.0060 R13 .6512 LSA 513.6 MSA 290.5 SSA 14.5
BDE 1.3472 BRA 2.0325 BC3 .1294 FSP -59 SG1 898.3 SG2 469.4 THA 175.93 EL1 481.0 EL2 232.9 ALF 66.85

LAUNCH DATE SEP 21 1965 FLIGHT TIME 76.00 ARRIVAL DATE DEC 6 1965

HELIOCENTRIC CONIC DISTANCE 145.491

RL 150.19 LAL -.00 LOL 357.80 VL 17.704 GAL 23.49 AZL 92.63 HCA 45.29 SMA 91.28 ECC .71354 INC 2.6261 V1 29.668
RP 108.18 LAP -1.87 LOP 43.06 VP 31.617 GAP -44.53 AZP 91.85 TAL 169.53 TAP 214.82 RCA 26.15 APO 156.42 V2 35.030
RC 77.423 GL -2.76 GP -4.17 ZAL 60.75 ZAP 30.07 ETS 169.38 ZAE 133.60 ETE 180.16 ZAC 22.22 ETC 52.67 CLP 29.80

PLANETOCENTRIC CONIC

C3 238.135 VHL 15.432 DLA -23.46 RAL 299.72 RAD 6571.4 VEL 18.959 PTH 3.08 VHP 25.343 DPA -26.22 RAP 250.55 ECC 4.9191

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 55 8	1920.91	-11.53	23.68	195.60	116.04	11 27 9	1320.9	-7.94	16.85
90.00	15 45 17	952.78	18.13	328.07	208.68	112.13	16 1 9	352.8	20.97	320.55
100.00	11 58 1	1717.92	-13.97	7.53	194.36	116.70	12 26 39	1117.9	-10.27	.68
100.00	17 25 5	631.00	20.64	305.48	209.76	112.11	17 35 36	31.0	23.46	297.82
110.00	12 29 10	1620.26	-19.70	357.00	191.24	118.52	12 56 10	1020.3	-15.74	350.12
110.00	19 10 25	5589.46	26.63	261.02	212.43	112.27	20 43 35	4989.5	29.41	252.93

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.4992 TRA-2.0330 TC3 -.1405 BAU .4475 SGT 948.4 SGR 477.5 SG3 30.9 ST 309.0 SR 454.1 SS 267.0
RDE-1.2166 RRA .3826 RC3 .0016 FAU .01137 RRT -.1012 RRF .1005 RTF -.6680 CRT .5150 CRS .5093 CST .9973
FDE .1953 FRA .8069 FC3 -.0413 BSP 1915 SGB 1061.9 R23 -.0103 R13 .6687 LSA 532.4 MSA 298.8 SSA 14.9
BDE 1.3151 BRA 2.0687 BC3 .1405 FSP -61 SG1 950.1 SG2 474.3 THA 176.11 EL1 491.8 EL2 244.5 ALF 63.73

LAUNCH DATE SEP 21 1965 FLIGHT TIME 78.00 ARRIVAL DATE DEC 8 1965

DISTANCE 151.299

HELIOCENTRIC CONIC

RL 150.19 LAL -.00 LOL 357.80 VL 18.354 GAL 22.47 AZL 92.28 HCA 48.48 SMA 92.78 ECC .68775 INC 2.2765 V1 29.668
RP 108.14 LAP -1.70 LOP 46.26 VP 32.001 GAP -42.60 AZP 91.51 TAL 168.71 TAP 217.19 RCA 28.97 APO 156.59 V2 35.043
RC 75.249 GL -2.61 GP -4.29 ZAL 59.51 ZAP 28.64 ETS 168.71 ZAE 133.72 ETE 180.60 ZAC 21.41 ETC 56.66 CLP 28.35

PLANETOCENTRIC CONIC

C3 218.347 VHL 14.777 DLA -23.06 RAL 301.01 RAD 6571.2 VEL 18.430 PTH 3.04 VHP 24.410 DPA -26.67 RAP 252.44 ECC 4.5934

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 54 30	1928.82	-11.77	24.14	195.94	115.94	11 26 39	1328.8	-8.18	17.30
90.00	15 56 10	920.05	18.95	326.02	209.22	111.44	16 11 30	320.1	21.70	318.42
100.00	11 58 15	1723.08	-14.13	7.83	194.74	116.62	12 26 58	1123.1	-10.44	.98
100.00	17 35 6	601.02	21.40	303.57	210.25	111.38	17 45 7	1.0	24.12	295.83
110.00	12 30 44	1621.21	-19.73	357.05	191.69	118.50	12 57 45	1021.2	-15.77	350.17
110.00	19 19 6	5563.69	27.28	259.30	212.78	111.44	20 51 50	4963.7	29.94	251.12

DIFFERENTIAL CORRECTIONS

TDE -.4747 TRA-2.0097 TC3 -.1416 BAU .4135
RDE-1.1696 RRA .3890 RC3 .0007 FAU .01168
FDE .2070 FRA .8316 FC3 -.0463 BSP 3077
BDE 1.2622 BRA 2.0470 BC3 .1416 FSP -78

MID-COURSE EXECUTION ACCURACY

SGT 962.5 SGR 482.2 SG3 33.2
RRT -.1212 RRF .1119 RTF -.6868
SGB 1076.5 R23 -.0015 R13 .6874
SG1 964.8 SG2 477.5 THA 175.40

ORBIT DETERMINATION ACCURACY

ST 314.0 SR 456.2 SS 279.1
CRT .4955 CRS .5174 CST .9972
LSA 538.8 MSA 306.7 SSA 14.8
EL1 492.9 EL2 252.4 ALF 63.82

LAUNCH DATE SEP 21 1965 FLIGHT TIME 80.00 ARRIVAL DATE DEC 10 1965

DISTANCE 157.213

HELIOCENTRIC CONIC

RL 150.19 LAL -.00 LOL 357.80 VL 18.965 GAL 21.50 AZL 91.96 HCA 51.68 SMA 94.28 ECC .66234 INC 1.9595 V1 29.668
RP 108.10 LAP -1.54 LOP 49.47 VP 32.369 GAP -40.77 AZP 91.22 TAL 167.90 TAP 219.59 RCA 31.84 APO 156.73 V2 35.056
RC 73.094 GL -2.44 GP -4.42 ZAL 58.32 ZAP 27.24 ETS 167.95 ZAE 133.92 ETE 181.09 ZAC 20.70 ETC 61.01 CLP 26.91

PLANETOCENTRIC CONIC

C3 200.289 VHL 14.152 DLA -22.64 RAL 302.23 RAD 6571.1 VEL 17.933 PTH 3.00 VHP 23.508 DPA -27.10 RAP 254.36 ECC 4.2963

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 53 35	1936.42	-11.99	24.59	196.19	115.84	11 25 52	1336.4	-8.42	17.73
90.00	16 6 51	886.43	19.78	323.90	209.64	110.69	16 21 38	286.4	22.41	316.22
100.00	11 58 9	1728.04	-14.28	8.12	195.03	116.54	12 26 57	1128.0	-10.60	1.26
100.00	17 44 59	5858.08	22.16	279.49	210.60	110.60	19 22 37	5258.1	24.76	271.66
110.00	12 31 58	1622.03	-19.75	357.10	192.05	118.48	12 59 0	1022.0	-15.80	350.22
110.00	19 27 39	5536.86	27.94	257.49	213.00	110.55	20 59 56	4936.9	30.47	249.21

DIFFERENTIAL CORRECTIONS

TDE -.5048 TRA-2.0424 TC3 -.1526 BAU .4087
RDE-1.1217 RRA .3953 RC3 -.0002 FAU .01169
FDE .2260 FRA .8637 FC3 -.0505 BSP 2916
BDE 1.2300 BRA 2.0803 BC3 .1526 FSP -81

MID-COURSE EXECUTION ACCURACY

SGT 1015.4 SGR 486.1 SG3 35.9
RRT -.1262 RRF .1200 RTF -.7030
SGB 1125.8 R23 -.0057 R13 .7037
SG1 1017.8 SG2 481.1 THA 175.55

ORBIT DETERMINATION ACCURACY

ST 337.9 SR 457.1 SS 296.5
CRT .5103 CRS .5342 CST .9973
LSA 559.0 MSA 313.6 SSA 15.1
EL1 503.5 EL2 263.8 ALF 60.50

LAUNCH DATE SEP 21 1965 FLIGHT TIME 82.00 ARRIVAL DATE DEC 12 1965

DISTANCE 163.220

HELIOCENTRIC CONIC

RL 150.19 LAL -.00 LOL 357.80 VL 19.539 GAL 20.58 AZL 91.67 HCA 54.89 SMA 95.79 ECC .63736 INC 1.6693 V1 29.668
RP 108.06 LAP -1.37 LOP 52.68 VP 32.723 GAP -39.02 AZP 90.96 TAL 167.11 TAP 222.00 RCA 34.74 APO 156.84 V2 35.069
RC 70.962 GL -2.25 GP -4.57 ZAL 57.17 ZAP 25.86 ETS 167.10 ZAE 134.20 ETE 181.64 ZAC 20.13 ETC 65.71 CLP 25.48

PLANETOCENTRIC CONIC

C3 183.766 VHL 13.556 DLA -22.21 RAL 303.40 RAD 6571.0 VEL 17.467 PTH 2.96 VHP 22.635 DPA -27.53 RAP 256.32 ECC 4.0243

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 52 24	1943.65	-12.21	25.01	196.34	115.75	11 24 47	1343.6	-8.64	18.14
90.00	16 17 20	851.93	20.59	321.69	209.92	109.88	16 31 32	251.9	23.11	313.93
100.00	11 57 44	1732.74	-14.42	8.40	195.23	116.47	12 26 37	1132.7	-10.75	1.53
100.00	17 54 40	5826.10	22.91	277.41	210.82	109.75	19 31 47	5226.1	25.39	269.49
110.00	12 32 52	1622.65	-19.77	357.14	192.31	118.47	12 59 54	1022.6	-15.82	350.25
110.00	19 36 3	5508.96	28.59	255.58	213.07	109.59	21 7 52	4909.0	30.99	247.20

DIFFERENTIAL CORRECTIONS

TDE -.5212 TRA-2.0626 TC3 -.1614 BAU .3966
RDE-1.0741 RRA .4003 RC3 -.0014 FAU .01179
FDE .2440 FRA .8952 FC3 -.0555 BSP 3062
BDE 1.1939 BRA 2.1011 BC3 .1614 FSP -89

MID-COURSE EXECUTION ACCURACY

SGT 1061.5 SGR 489.4 SG3 38.7
RRT -.1355 RRF .1298 RTF -.7191
SGB 1168.9 R23 -.0068 R13 .7198
SG1 1064.1 SG2 483.7 THA 175.49

ORBIT DETERMINATION ACCURACY

ST 358.5 SR 457.3 SS 313.5
CRT .5156 CRS .5471 CST .9972
LSA 577.4 MSA 319.8 SSA 15.2
EL1 512.3 EL2 274.2 ALF 57.75

LAUNCH DATE SEP 21 1965 FLIGHT TIME 84.00 ARRIVAL DATE DEC 14 1965

DISTANCE 169.316

HELIOCENTRIC CONIC

RL 150.19 LAL -.00 LOL 357.80 VL 20.079 GAL 19.69 AZL 91.40 HCA 58.09 SMA 97.29 ECC .61290 INC 1.4008 V1 29.668
RP 108.02 LAP -1.19 LOP 55.89 VP 33.062 GAP -37.34 AZP 90.74 TAL 166.34 TAP 224.43 RCA 37.66 APO 156.92 V2 35.082
RC 68.856 GL -2.04 GP -4.73 ZAL 56.07 ZAP 24.51 ETS 166.14 ZAE 134.56 ETE 182.24 ZAC 19.72 ETC 70.72 CLP 24.08

PLANETOCENTRIC CONIC

C3 168.642 VHL 12.986 DLA -21.76 RAL 304.50 RAD 6570.8 VEL 17.028 PTH 2.93 VHP 21.789 DPA -27.96 RAP 258.30 ECC 3.7754

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 50 55	1950.52	-12.41	25.41	196.40	115.66	11 23 25	1350.5	-8.86	18.54
90.00	16 27 37	816.52	21.39	319.41	210.06	109.01	16 41 13	216.5	23.79	311.56
100.00	11 57 1	1737.20	-14.55	8.66	195.32	116.40	12 25 58	1137.2	-10.89	1.78
100.00	18 4 12	5793.12	23.65	275.24	210.90	108.84	19 40 45	5193.1	26.00	267.23
110.00	12 33 25	1623.08	-19.79	357.17	192.48	118.46	13 0 28	1023.1	-15.83	350.28
110.00	19 44 17	5480.00	29.23	253.57	213.01	108.56	21 15 37	4880.0	31.49	245.09

DIFFERENTIAL CORRECTIONS

TDE -.5379 TRA-2.0836 TC3 -.1706 BAU .3848
RDE-1.0268 RRA .4044 RC3 -.0028 FAU .01190
FDE .2627 FRA .9278 FC3 -.0611 BSP 3193
BDE 1.1591 BRA 2.1225 BC3 .1707 FSP -96

MID-COURSE EXECUTION ACCURACY

SGT 1110.2 SGR 492.1 SG3 41.7
RRT -.1453 RRF .1403 RTF -.7344
SGB 1214.4 R23 -.0085 R13 .7351
SG1 1113.0 SG2 485.6 THA 175.45

ORBIT DETERMINATION ACCURACY

ST 380.4 SR 456.7 SS 331.2
CRT .5205 CRS .5588 CST .9970
LSA 597.5 MSA 325.0 SSA 15.4
EL1 522.0 EL2 284.1 ALF 54.73

LAUNCH DATE SEP 21 1965 FLIGHT TIME 86.00 ARRIVAL DATE DEC 16 1965

HELIOCENTRIC CONIC DISTANCE 175.494

RL	150.19	LAL	-.00	LOL	357.80	VL	20.586	GAL	18.85	AZL	91.15	HCA	61.30	SMA	98.78	ECC	.58902	INC	1.1502	VI	29.668
RP	107.98	LAP	-1.01	LOP	59.10	VP	33.386	GAP	-35.74	AZP	90.55	TAL	165.58	TAP	226.88	RCA	40.60	APO	156.97	V2	35.095
RC	66.778	GL	-1.80	GP	-4.90	ZAL	55.01	ZAP	23.18	ETS	165.05	ZAE	135.01	ETE	182.91	ZAC	19.47	ETC	75.96	CLP	22.68

PLANETOCENTRIC CONIC

C3	154.792	VHL	12.442	DLA	-21.29	RAL	305.54	RAD	6570.7	VEL	16.617	PTH	2.89	VHP	20.969	DPA	-28.37	RAP	260.32	ECC	3.5475

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 49 9	1957.08	-12.60	25.80	196.37	115.57	11 21 46	1357.1	-9.06	18.91
90.00	16 37 41	780.19	22.18	317.03	210.06	108.07	16 50 41	180.2	24.44	309.10
100.00	11 55 58	1741.42	-14.68	8.91	195.33	116.33	12 24 59	1141.4	-11.03	2.02
100.00	18 13 33	5759.11	24.38	272.98	210.84	107.86	19 49 32	5159.1	26.59	264.88
110.00	12 33 38	1623.34	-19.80	357.18	192.55	118.45	13 0 42	1023.3	-15.84	350.29
110.00	19 52 22	5449.96	29.87	251.46	212.80	107.46	21 23 12	4850.0	31.96	242.87

DIFFERENTIAL CORRECTIONS

TDE	-.5530	TRA	-2.1040	TC3	-.1798	BAU	.3721
RDE	-.9797	RRA	.4076	RC3	-.0046	FAU	.01204
FDE	.2820	FRA	.9615	FC3	-.0673	BSP	3342
BDE	1.1250	BRA	2.1432	BC3	.1798	FSP	-105

MID-COURSE EXECUTION ACCURACY

SGT	1160.3	SGR	494.2	SG3	45.0		
RRT	-.1560	RRF	.1519	RTF	-.7491		
SGB	1261.2	R23	-.0101	R13	.7499		
SG1	1163.4	SG2	486.9	THA	175.39		

ORBIT DETERMINATION ACCURACY

ST	402.9	SR	455.2	SS	349.5		
CRT	.5237	CRS	.5690	CST	.9968		
LSA	618.9	MSA	320.3	SSA	15.6		
EL1	532.4	EL2	293.5	ALF	51.57		

LAUNCH DATE SEP 21 1965 FLIGHT TIME 88.00 ARRIVAL DATE DEC 18 1965

HELIOCENTRIC CONIC DISTANCE 181.748

RL	150.19	LAL	-.00	LOL	357.80	VL	21.063	GAL	18.04	AZL	90.91	HCA	64.51	SMA	100.26	ECC	.56577	INC	.9143	VI	29.668
RP	107.94	LAP	-.83	LOP	62.31	VP	33.695	GAP	-34.21	AZP	90.39	TAL	164.85	TAP	229.36	RCA	43.54	APO	156.99	V2	35.108
RC	64.732	GL	-1.54	GP	-5.09	ZAL	54.00	ZAP	21.87	ETS	163.79	ZAE	135.54	ETE	183.66	ZAC	19.40	ETC	81.34	CLP	21.30

PLANETOCENTRIC CONIC

C3	142.105	VHL	11.921	DLA	-20.80	RAL	306.52	RAD	6570.5	VEL	16.231	PTH	2.85	VHP	20.175	DPA	-28.78	RAP	262.36	ECC	3.3387

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 47 4	1963.36	-12.79	26.17	196.24	115.48	11 19 48	1363.4	-9.25	19.27
90.00	16 47 34	742.89	22.95	314.57	209.92	107.06	16 59 57	142.9	25.07	306.54
100.00	11 54 35	1745.45	-14.80	9.14	195.24	116.27	12 23 41	1145.5	-11.16	2.25
100.00	18 22 44	5724.07	25.09	270.62	210.64	106.81	19 58 8	5124.1	27.15	262.42
110.00	12 33 31	1623.46	-19.80	357.19	192.53	118.45	13 0 34	1023.5	-15.85	350.30
110.00	20 0 18	5418.82	30.48	249.24	212.44	106.28	21 30 37	4818.8	32.41	240.56

DIFFERENTIAL CORRECTIONS

TDE	-.5650	TRA	-2.1219	TC3	-.1883	BAU	.3580
RDE	-.9330	RRA	.4099	RC3	-.0067	FAU	.01221
FDE	.3016	FRA	.9960	FC3	-.0744	BSP	3549
BDE	1.0907	BRA	2.1611	BC3	.1884	FSP	-115

MID-COURSE EXECUTION ACCURACY

SGT	1210.5	SGR	495.7	SG3	48.5		
RRT	-.1683	RRF	.1645	RTF	-.7633		
SGB	1308.1	R23	-.0113	R13	.7641		
SG1	1214.0	SG2	487.3	THA	175.30		

ORBIT DETERMINATION ACCURACY

ST	425.5	SR	452.9	SS	368.3		
CRT	.5246	CRS	.5778	CST	.9964		
LSA	640.9	MSA	332.8	SSA	15.7		
EL1	543.0	EL2	302.1	ALF	48.39		

LAUNCH DATE SEP 21 1965 FLIGHT TIME 90.00 ARRIVAL DATE DEC 20 1965

HELIOCENTRIC CONIC DISTANCE 188.075

RL	150.19	LAL	-.00	LOL	357.80	VL	21.511	GAL	17.27	AZL	90.69	HCA	67.73	SMA	101.73	ECC	.54319	INC	.6907	VI	29.668
RP	107.90	LAP	-.64	LOP	65.53	VP	33.989	GAP	-32.74	AZP	90.26	TAL	164.14	TAP	231.87	RCA	46.47	APO	156.99	V2	35.120
RC	62.721	GL	-1.24	GP	-5.30	ZAL	53.04	ZAP	20.59	ETS	162.33	ZAE	136.15	ETE	184.50	ZAC	19.53	ETC	86.75	CLP	19.93

PLANETOCENTRIC CONIC

C3	130.483	VHL	11.423	DLA	-20.28	RAL	307.44	RAD	6570.4	VEL	15.869	PTH	2.81	VHP	19.404	DPA	-29.18	RAP	264.43	ECC	3.1474

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 44 41	1969.44	-12.97	26.52	196.03	115.40	11 17 30	1369.4	-9.44	19.62
90.00	16 57 17	704.60	23.69	312.01	209.63	105.99	17 9 2	104.6	25.65	303.89
100.00	11 52 53	1749.36	-14.92	9.37	195.05	116.21	12 22 2	1149.4	-11.28	2.48
100.00	18 31 46	5687.95	25.78	268.15	210.29	105.69	20 6 34	5088.0	27.68	259.87
110.00	12 33 2	1623.50	-19.80	357.19	192.41	118.45	13 0 6	1023.5	-15.85	350.30
110.00	20 8 6	5386.58	31.07	246.92	211.94	105.02	21 37 53	4786.6	32.82	238.13

DIFFERENTIAL CORRECTIONS

TDE	-.5786	TRA	-2.1418	TC3	-.1974	BAU	.3448
RDE	-.8866	RRA	.4117	RC3	-.0092	FAU	.01239
FDE	.3223	FRA	1.0323	FC3	-.0822	BSP	3703
BDE	1.0587	BRA	2.1810	BC3	.1977	FSP	-125

MID-COURSE EXECUTION ACCURACY

SGT	1264.7	SGR	496.7	SG3	52.3		
RRT	-.1809	RRF	.1782	RTF	-.7767		
SGB	1358.7	R23	-.0134	R13	.7776		
SG1	1268.4	SG2	487.0	THA	175.23		

ORBIT DETERMINATION ACCURACY

ST	450.0	SR	449.6	SS	388.1		
CRT	.5259	CRS	.5857	CST	.9959		
LSA	665.3	MSA	335.1	SSA	15.9		
EL1	555.6	EL2	309.7	ALF	44.96		

LAUNCH DATE SEP 21 1965 FLIGHT TIME 92.00 ARRIVAL DATE DEC 22 1965

HELIOCENTRIC CONIC DISTANCE 194.466

RL	150.19	LAL	-.00	LOL	357.80	VL	21.931	GAL	16.53	AZL	90.48	HCA	70.95	SMA	103.17	ECC	.52131	INC	.4769	VI	29.668
RP	107.87	LAP	-.45	LOP	68.75	VP	34.269	GAP	-31.32	AZP	90.16	TAL	163.46	TAP	234.40	RCA	49.39	APO	156.96	V2	35.132
RC	60.751	GL	-.92	GP	-5.53	ZAL	52.12	ZAP	19.34	ETS	160.64	ZAE	136.86	ETE	185.43	ZAC	19.84	ETC	92.08	CLP	18.56

PLANETOCENTRIC CONIC

C3	119.834	VHL	10.947	DLA	-19.74	RAL	308.29	RAD	6570.2	VEL	15.530	PTH	2.77	VHP	18.658	DPA	-29.57	RAP	266.52	ECC	2.9722

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 41 58	1975.39	-13.14	26.87	195.72	115.31	11 14 53	1375.4	-9.62	19.06
90.00	17 6 50	665.28	24.40	309.35	209.20	104.84	17 17 55	65.3	26.20	301.14
100.00	11 50 49	1753.19	-15.04	9.60	194.78	116.14	12 20 2	1153.2	-11.40	2.70
100.00	18 40 39	5650.75	26.44	265.58	209.79	104.49	20 14 50	5050.7	28.17	257.21
110.00	12 32 12	1623.50	-19.80	357.19	192.20	118.45	12 59 16	1023.5	-15.85	350.30
110.00	20 15 46	5353.21	31.64	244.48	211.28	103.68	21 44 59	4753.2	33.19	235.60

DIFFERENTIAL CORRECTIONS

TDE	-.5890	TRA	-2.1589	TC3	-.2057	BAU	.3302
RDE	-.8408	RRA	.4129	RC3	-.0121	FAU	.01261
FDE	.3435	FRA	1.0697	FC3	-.0911	BSP	3916
BDE	1.0266	BRA	2.1980	BC3	.2061	FSP	-137

MID-COURSE EXECUTION ACCURACY

SGT	1318.8	SGR	497.1	SG3	56.4		
RRT	-.1953	RRF	.1933	RTF	-.7897		
SGB	1409.3	R23	-.0151	R13	.7906		
SG1	1322.9	SG2	486.0	THA	175.13		

ORBIT DETERMINATION ACCURACY

ST	474.3	SR	445.4	SS	408.5		
CRT	.5248	CRS	.5921	CST	.9953		
LSA	690.3	MSA	336.7	SSA	16.0		
EL1	568.6	EL2	316.2	ALF	41.59		

LAUNCH DATE SEP 21 1965 FLIGHT TIME 94.00 ARRIVAL DATE DEC 24 1965

HELIOCENTRIC CONIC DISTANCE 200.919

RL	150.19	LAL	-.00	LOL	357.80	VL	22.326	GAL	15.81	AZL	90.27	HCA	74.17	SMA	104.60	ECC	.50016	INC	.2711	V1	29.668
RP	107.83	LAP	-.26	LOP	71.97	VP	34.535	GAP	-29.96	AZP	90.07	TAL	162.80	TAP	236.97	RCA	52.28	APO	156.91	V2	35.144
RC	58.824	GL	-.56	GP	-5.78	ZAL	51.26	ZAP	18.12	ETS	158.66	ZAE	137.67	ETE	186.48	ZAC	20.35	ETC	97.23	CLP	17.21

PLANETOCENTRIC CONIC

C3	110.080	VHL	10.492	DLA	-19.18	RAL	309.09	RAD	6570.1	VEL	15.212	PTH	2.73	VHP	17.934	DPA	-29.96	RAP	268.63	ECC	2.8116

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 38 54	1981.31	-13.31	27.22	195.33	115.23	11 11 55	1381.3	-9.80	20.30
90.00	17 16 13	624.89	25.07	306.58	208.62	103.61	17 26 38	24.9	26.70	298.29
100.00	11 48 24	1757.06	-15.15	9.83	194.42	116.08	12 17 41	1157.1	-11.52	2.92
100.00	18 49 25	5612.42	27.06	262.91	209.15	103.21	20 22 57	5012.4	28.61	254.45
110.00	12 31 0	1623.55	-19.80	357.19	191.91	118.45	12 58 4	1023.5	-15.85	350.30
110.00	20 23 17	5318.69	32.16	241.93	210.47	102.25	21 51 56	4718.7	33.52	232.95

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TDE	-.5982	TRA	-2.1748	TC3	-.2136	BAU	.3151	SGT	1374.3	SGR	496.9	SG3	60.8	ST	499.2	SR	440.3	SS	429.7
RDE	-.7954	RRA	.4136	RC3	-.0155	FAU	.01286	RRT	-.2111	RRF	.2100	RTF	-.8021	CRT	.5226	CRS	.5974	CST	.9947
FDE	.3657	FRA	1.1088	FC3	-.1011	BSP	4142	SGB	1461.4	R23	-.0170	R13	.8030	LSA	716.6	MSA	337.4	SSA	16.2
BDE	.9952	BRA	2.2138	BC3	.2141	FSP	-149	SG1	1378.9	SG2	484.1	THA	175.02	EL1	582.8	EL2	321.5	ALF	38.22

LAUNCH DATE SEP 21 1965 FLIGHT TIME 96.00 ARRIVAL DATE DEC 26 1965

HELIOCENTRIC CONIC DISTANCE 207.427

RL	150.19	LAL	-.00	LOL	357.80	VL	22.697	GAL	15.13	AZL	90.07	HCA	77.39	SMA	105.99	ECC	.47976	INC	.0713	V1	29.668
RP	107.80	LAP	-.07	LOP	75.19	VP	34.788	GAP	-28.65	AZP	90.02	TAL	162.17	TAP	239.56	RCA	55.14	APO	156.84	V2	35.155
RC	56.947	GL	-.16	GP	-6.05	ZAL	50.44	ZAP	16.94	ETS	156.34	ZAE	138.57	ETE	187.67	ZAC	21.03	ETC	102.10	CLP	15.85

PLANETOCENTRIC CONIC

C3	101.147	VHL	10.057	DLA	-18.58	RAL	309.82	RAD	6570.0	VEL	14.916	PTH	2.69	VHP	17.232	DPA	-30.34	RAP	270.77	ECC	2.6646

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 35 28	1987.33	-13.49	27.58	194.85	115.14	11 8 36	1387.3	-9.99	20.65
90.00	17 25 29	5871.43	25.71	281.61	207.89	102.30	19 3 20	5271.4	27.15	273.24
100.00	11 45 36	1761.06	-15.27	10.07	193.97	116.01	12 14 57	1161.1	-11.65	3.15
100.00	18 58 2	5572.93	27.64	260.12	208.36	101.85	20 30 55	4972.9	29.00	251.58
110.00	12 29 25	1623.75	-19.81	357.21	191.52	118.44	12 56 29	1023.7	-15.86	350.31
110.00	20 30 42	5283.01	32.65	239.25	209.51	100.74	21 58 45	4683.0	33.78	230.20

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TDE	-.6069	TRA	-2.1905	TC3	-.2211	BAU	.3001	SGT	1432.0	SGR	496.3	SG3	65.7	ST	525.1	SR	434.1	SS	451.9
RDE	-.7506	RRA	.4140	RC3	-.0196	FAU	.01314	RRT	-.2283	RRF	.2283	RTF	-.8138	CRT	.5193	CRS	.6016	CST	.9939
FDE	.3889	FRA	1.1497	FC3	-.1124	BSP	4365	SGB	1515.6	R23	-.0193	R13	.8147	LSA	744.6	MSA	337.1	SSA	16.3
BDE	.9652	BRA	2.2293	BC3	.2219	FSP	-163	SG1	1437.1	SG2	481.5	THA	174.90	EL1	598.5	EL2	325.4	ALF	34.88

LAUNCH DATE SEP 21 1965 FLIGHT TIME 98.00 ARRIVAL DATE DEC 28 1965

HELIOCENTRIC CONIC DISTANCE 213.985

RL	150.19	LAL	-.00	LOL	357.80	VL	23.045	GAL	14.47	AZL	89.88	HCA	80.61	SMA	107.36	ECC	.46011	INC	.1217	V1	29.668
RP	107.76	LAP	.12	LOP	78.41	VP	35.027	GAP	-27.39	AZP	89.98	TAL	161.57	TAP	242.19	RCA	57.96	APO	156.75	V2	35.166
RC	55.125	GL	.28	GP	-6.35	ZAL	49.66	ZAP	15.80	ETS	153.59	ZAE	139.57	ETE	189.02	ZAC	21.88	ETC	106.63	CLP	14.50

PLANETOCENTRIC CONIC

C3	92.971	VHL	9.642	DLA	-17.96	RAL	310.48	RAD	6569.8	VEL	14.640	PTH	2.65	VHP	16.553	DPA	-30.72	RAP	272.92	ECC	2.5301

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 31 39	1993.58	-13.67	27.95	194.29	115.04	11 4 53	1393.6	-10.18	21.01
90.00	17 34 37	5828.77	26.29	278.63	207.02	100.91	19 11 46	5228.8	27.53	270.18
100.00	11 42 23	1765.32	-15.40	10.32	193.44	115.94	12 11 49	1165.3	-11.79	3.39
100.00	19 6 34	5532.27	28.18	257.21	207.42	100.41	20 38 46	4932.3	29.33	248.60
110.00	12 27 25	1624.21	-19.83	357.23	191.05	118.43	12 54 30	1024.2	-15.87	350.34
110.00	20 38 1	5246.14	33.08	236.47	208.40	99.14	22 5 27	4646.1	33.99	227.34

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TDE	-.6172	TRA	-2.2078	TC3	-.2291	BAU	.2864	SGT	1493.9	SGR	495.2	SG3	70.9	ST	553.1	SR	426.8	SS	475.3
RDE	-.7062	RRA	.4143	RC3	-.0242	FAU	.01343	RRT	-.2465	RRF	.2484	RTF	-.8247	CRT	.5161	CRS	.6048	CST	.9932
FDE	.4137	FRA	1.1931	FC3	-.1250	BSP	4531	SGB	1573.8	R23	-.0225	R13	.8257	LSA	775.2	MSA	335.7	SSA	16.4
BDE	.9379	BRA	2.2464	BC3	.2304	FSP	-178	SG1	1499.5	SG2	478.2	THA	174.80	EL1	616.9	EL2	327.7	ALF	31.53

LAUNCH DATE SEP 21 1965 FLIGHT TIME 100.00 ARRIVAL DATE DEC 30 1965

HELIOCENTRIC CONIC DISTANCE 220.589

RL	150.19	LAL	-.00	LOL	357.80	VL	23.372	GAL	13.84	AZL	89.69	HCA	83.84	SMA	108.69	ECC	.44123	INC	.3135	V1	29.668
RP	107.73	LAP	.31	LOP	81.64	VP	35.253	GAP	-26.18	AZP	89.97	TAL	161.01	TAP	244.85	RCA	60.73	APO	156.64	V2	35.176
RC	53.365	GL	.77	GP	-6.67	ZAL	48.94	ZAP	14.72	ETS	150.32	ZAE	140.66	ETE	190.56	ZAC	22.89	ETC	110.79	CLP	13.16

PLANETOCENTRIC CONIC

C3	85.491	VHL	9.246	DLA	-17.30	RAL	311.08	RAD	6569.7	VEL	14.382	PTH	2.61	VHP	15.894	DPA	-31.10	RAP	275.09	ECC	2.4070

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 27 25	2000.20	-13.86	28.34	193.65	114.94	11 0 45	1400.2	-10.38	21.39
90.00	17 43 40	5784.92	26.82	275.52	206.00	99.44	19 20 5	5184.9	27.85	267.01
100.00	11 38 45	1769.99	-15.54	10.60	192.82	115.86	12 8 15	1170.0	-11.93	3.66
100.00	19 15 0	5490.37	28.66	254.19	206.34	98.89	20 46 31	4890.4	29.59	245.51
110.00	12 25 1	1625.07	-19.85	357.28	190.50	118.42	12 52 6	1025.1	-15.90	350.39
110.00	20 45 14	5208.06	33.46	233.56	207.14	97.46	22 12 2	4608.1	34.13	224.38

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TDE	-.6243	TRA	-2.2215	TC3	-.2353	BAU	.2711	SGT	1555.0	SGR	493.8	SG3	76.6	ST	580.5	SR	418.3	SS	499.6
RDE	-.6624	RRA	.4145	RC3	-.0296	FAU	.01377	RRT	-.2673	RRF	.2707	RTF	-.8353	CRT	.5103	CRS	.6065	CST	.9923
FDE	.4394	FRA	1.2383	FC3	-.1394	BSP	4759	SGB	1631.5	R23	-.0255	R13	.8364	LSA	806.2	MSA	333.5	SSA	16.5
BDE	.9102	BRA	2.2599	BC3	.2372	FSP	-194	SG1	1561.2	SG2	474.0	THA	174.65	EL1	635.6	EL2	328.6	ALF	28.42

LAUNCH DATE SEP 21 1965 FLIGHT TIME 102.00 ARRIVAL DATE JAN 1 1966

HELIOCENTRIC CONIC DISTANCE 227.233

RL	150.19	LAL	-.00	LOL	357.80	VL	23.678	GAL	13.23	AZL	89.50	HCA	87.07	SMA	109.98	ECC	.42312	INC	.5025	VI	29.668
RP	107.70	LAP	.50	LOP	84.87	VP	35.466	GAP	-25.01	AZP	89.97	TAL	160.48	TAP	247.54	RCA	63.45	APO	156.52	V2	35.186
RC	54.675	GL	1.31	GP	-7.03	ZAL	48.27	ZAP	13.72	ETS	146.43	ZAE	141.85	ETE	192.32	ZAC	24.03	ETC	114.57	CLP	11.81

PLANETOCENTRIC CONIC

C3 78.651 VHL 8.869 DLA -16.61 RAL 311.62 RAD 6569.5 VEL 14.142 PTH 2.58 VHP 15.255 DPA -31.49 RAP 277.28 ECC 2.2944

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 22 43	2007.39	-14.06	28.77	192.93	114.83	10 56 11	1407.4	-10.60	21.81
90.00	17 52 38	5739.82	27.28	272.30	204.84	97.89	19 28 18	5139.8	28.09	263.73
100.00	11 34 40	1775.23	-15.69	10.91	192.13	115.77	12 4 16	1175.2	-12.10	3.96
100.00	19 23 23	5447.22	29.07	251.05	205.11	97.29	20 54 10	4847.2	29.77	242.32
110.00	12 22 9	1626.47	-19.90	357.37	189.87	118.39	12 49 16	1026.5	-15.95	350.47
110.00	20 52 23	5168.74	33.76	230.53	205.74	95.69	22 18 32	4568.7	34.18	221.31

DIFFERENTIAL CORRECTIONS

TDE	-.6307	TRA	-2.2345	TC3	-.2408	BAU	.2560												
RDE	-.6192	RRA	.4149	RC3	-.0359	FAU	.01414												
FDE	.4667	FRA	1.2861	FC3	-.1557	BSP	4993												
BDE	.8838	BRA	2.2727	BC3	.2434	FSP	-212												

MID-COURSE EXECUTION ACCURACY

SGT	1617.9	SGR	492.2	SG3	82.8														
RRT	-.2903	RRF	.2955	RTF	-.8453														
SGB	1691.2	R23	-.0289	R13	.8465														
SG1	1624.8	SG2	469.1	THA	174.49														

ORBIT DETERMINATION ACCURACY

ST	608.6	SR	408.7	SS	525.0														
CRT	.5029	CRS	.6067	CST	.9913														
LSA	838.8	MSA	330.6	SSA	16.6														
EL1	655.7	EL2	327.9	ALF	25.45														

LAUNCH DATE SEP 21 1965 FLIGHT TIME 104.00 ARRIVAL DATE JAN 3 1966

HELIOCENTRIC CONIC DISTANCE 233.914

RL	150.19	LAL	-.00	LOL	357.80	VL	23.965	GAL	12.65	AZL	89.31	HCA	90.30	SMA	111.24	ECC	.40578	INC	.6905	VI	29.668
RP	107.67	LAP	.69	LOP	88.10	VP	35.668	GAP	-23.87	AZP	90.00	TAL	159.98	TAP	250.28	RCA	66.10	APO	156.39	V2	35.196
RC	50.062	GL	1.90	GP	-7.43	ZAL	47.65	ZAP	12.80	ETS	141.80	ZAE	143.13	ETE	194.34	ZAC	25.30	ETC	117.96	CLP	10.46

PLANETOCENTRIC CONIC

C3 72.405 VHL 8.509 DLA -15.87 RAL 312.09 RAD 6569.4 VEL 13.920 PTH 2.54 VHP 14.637 DPA -31.88 RAP 279.47 ECC 2.1916

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 17 33	2015.33	-14.29	29.24	192.14	114.71	10 51 9	1415.3	-10.84	22.27
90.00	18 1 34	5693.43	27.67	268.96	203.55	96.26	19 36 27	5093.4	28.25	260.35
100.00	11 30 6	1781.24	-15.87	11.26	191.37	115.67	11 59 48	1181.2	-12.29	4.31
100.00	19 31 42	5402.75	29.41	247.79	203.75	95.60	21 1 45	4802.8	29.88	239.02
110.00	12 18 50	1628.61	-19.97	357.49	189.18	118.34	12 45 58	1028.6	-16.03	350.59
110.00	20 59 28	5128.15	33.99	227.38	204.20	93.84	22 24 56	4528.1	34.15	218.14

DIFFERENTIAL CORRECTIONS

TDE	-.6364	TRA	-2.2464	TC3	-.2451	BAU	.2409												
RDE	-.5765	RRA	.4156	RC3	-.0430	FAU	.01456												
FDE	.4958	FRA	1.3367	FC3	-.1741	BSP	5228												
BDE	.8587	BRA	2.2845	BC3	.2489	FSP	-232												

MID-COURSE EXECUTION ACCURACY

SGT	1682.4	SGR	490.6	SG3	89.6														
RRT	-.3157	RRF	.3231	RTF	-.8548														
SGB	1752.5	R23	-.0328	R13	.8560														
SG1	1690.1	SG2	463.4	THA	174.31														

ORBIT DETERMINATION ACCURACY

ST	637.4	SR	397.9	SS	551.7														
CRT	.4936	CRS	.6053	CST	.9902														
LSA	872.9	MSA	326.7	SSA	16.7														
EL1	677.1	EL2	325.7	ALF	22.64														

LAUNCH DATE SEP 21 1965 FLIGHT TIME 106.00 ARRIVAL DATE JAN 5 1966

HELIOCENTRIC CONIC DISTANCE 240.626

RL	150.19	LAL	-.00	LOL	357.80	VL	24.233	GAL	12.10	AZL	89.12	HCA	93.53	SMA	112.47	ECC	.38921	INC	.8787	VI	29.668
RP	107.64	LAP	.88	LOP	91.33	VP	35.858	GAP	-22.78	AZP	90.05	TAL	159.52	TAP	253.05	RCA	68.69	APO	156.24	V2	35.204
RC	48.537	GL	2.55	GP	-7.87	ZAL	47.09	ZAP	12.01	ETS	136.33	ZAE	144.48	ETE	196.69	ZAC	26.67	ETC	120.99	CLP	9.10

PLANETOCENTRIC CONIC

C3 66.705 VHL 8.167 DLA -15.08 RAL 312.50 RAD 6569.3 VEL 13.713 PTH 2.51 VHP 14.039 DPA -32.28 RAP 281.68 ECC 2.0978

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 11 52	2024.26	-14.54	29.78	191.29	114.57	10 45 37	1424.3	-11.11	22.78
90.00	18 10 28	5645.67	27.98	265.50	202.12	94.55	19 44 34	5045.7	28.32	256.85
100.00	11 25 1	1788.23	-16.08	11.68	190.54	115.55	11 54 50	1188.2	-12.51	4.71
100.00	19 40 0	5356.94	29.67	244.41	202.26	93.84	21 9 17	4756.9	29.88	235.61
110.00	12 15 0	1631.67	-20.07	357.68	188.41	118.27	12 42 12	1031.7	-16.13	350.76
110.00	21 6 31	5086.25	34.14	224.12	202.53	91.91	22 31 17	4486.3	34.02	214.87

DIFFERENTIAL CORRECTIONS

TDE	-.6413	TRA	-2.2567	TC3	-.2479	BAU	.2257												
RDE	-.5342	RRA	.4168	RC3	-.0513	FAU	.01502												
FDE	.5268	FRA	1.3903	FC3	-.1949	BSP	5475												
BDE	.8347	BRA	2.2949	BC3	.2531	FSP	-253												

MID-COURSE EXECUTION ACCURACY

SGT	1747.8	SGR	489.1	SG3	96.9														
RRT	-.3439	RRF	.3537	RTF	-.8638														
SGB	1814.9	R23	-.0371	R13	.8651														
SG1	1756.4	SG2	457.0	THA	174.10														

ORBIT DETERMINATION ACCURACY

ST	666.7	SR	385.6	SS	579.9														
CRT	.4821	CRS	.6019	CST	.9890														
LSA	908.5	MSA	322.1	SSA	16.8														
EL1	699.7	EL2	321.9	ALF	19.98														

LAUNCH DATE SEP 21 1965 FLIGHT TIME 108.00 ARRIVAL DATE JAN 7 1966

HELIOCENTRIC CONIC DISTANCE 247.365

RL	150.19	LAL	-.00	LOL	357.80	VL	24.485	GAL	11.56	AZL	88.93	HCA	96.76	SMA	113.65	ECC	.37339	INC	1.0682	VI	29.668
RP	107.62	LAP	1.06	LOP	94.57	VP	36.036	GAP	-21.72	AZP	90.13	TAL	159.10	TAP	255.86	RCA	71.21	APO	156.08	V2	35.213
RC	47.108	GL	3.27	GP	-8.36	ZAL	46.59	ZAP	11.37	ETS	129.97	ZAE	145.90	ETE	199.42	ZAC	28.15	ETC	123.67	CLP	7.74

PLANETOCENTRIC CONIC

C3 61.511 VHL 7.843 DLA -14.25 RAL 312.83 RAD 6569.1 VEL 13.523 PTH 2.47 VHP 13.461 DPA -32.70 RAP 283.90 ECC 2.0123

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 5 38	2034.42	-14.83	30.39	190.37	114.40	10 39 32	1434.4	-11.41	23.37
90.00	18 19 23	5596.50	28.19	261.92	200.57	92.77	19 52 40	4996.5	28.28	253.26
100.00	11 19 23	1796.44	-16.32	12.17	189.66	115.40	11 49 20	1196.4	-12.76	5.18
100.00	19 48 19	5309.70	29.83	240.91	200.65	92.00	21 16 49	4709.7	29.79	232.10
110.00	12 10 39	1635.89	-20.20	357.93	187.59	118.18	12 37 55	1035.9	-16.28	351.00
110.00	21 13 33	5043.02	34.18	220.74	200.73	89.92	22 37 36	4443.0	33.79	211.52

DIFFERENTIAL CORRECTIONS

TDE	-.6461	TRA	-2.2664	TC3	-.2493	BAU	.2110												
RDE	-.4924	RRA	.4188	RC3	-.0607	FAU	.01552												
FDE	.5603	FRA	1.4474	FC3	-.2184	BSP	5717												
BDE	.8123	BRA	2.3048	BC3	.2566	FSP	-277												

MID-COURSE EXECUTION ACCURACY

SGT	1814.9	SGR	488.0	SG3	104.9														
RRT	-.3752	RRF	.3877	RTF	-.8723														
SGB	1879.4	R23	-.0421	R13	.8737														
SG1	1824.7	SG2	449.9	THA	173.87														

ORBIT DETERMINATION ACCURACY

ST	696.8	SR	372.0	SS	609.6														
CRT	.4679	CRS	.5960	CST	.9878														
LSA	946.1	MSA	316.6	SSA	16.9														
EL1	723.7	EL2	316.5	ALF	17.47														

LAUNCH DATE SEP 21 1965 FLIGHT TIME 110.00 ARRIVAL DATE JAN 9 1966

HELIOCENTRIC CONIC DISTANCE 254.127

RL 150.19 LAL -.00 LOL 357.80 VL 24.720 GAL 11.05 AZL 88.74 HCA 100.00 SMA 114.78 ECC .35833 INC 1.2604 V1 29.668
RP 107.60 LAP 1.24 LOP 97.80 VP 36.204 GAP -20.70 AZP 90.22 TAL 158.71 TAP 258.71 RCA 73.65 APO 155.91 V2 35.220
RC 45.785 GL 4.06 GP -8.90 ZAL 46.15 ZAP 10.93 ETS 122.74 ZAE 147.35 ETE 202.60 ZAC 29.71 ETC 126.03 CLP 6.36

PLANETOCENTRIC CONIC

C3 56.786 VHL 7.536 DLA -13.35 RAL 313.10 RAD 6569.0 VEL 13.347 PTH 2.44 VHP 12.902 DPA -33.15 RAP 286.13 ECC 1.9346

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 58 47	2046.08	-15.16	31.09	189.41	114.21	10 32 53	1446.1	-11.76	24.05
90.00	18 28 21	5545.82	28.30	258.22	198.90	90.92	20 0 47	4945.8	28.13	249.56
100.00	11 13 9	1806.14	-16.60	12.76	188.72	115.22	11 43 15	1206.1	-13.07	5.75
100.00	19 56 40	5261.00	29.89	237.29	198.92	90.10	21 24 21	4661.0	29.59	228.49
110.00	12 5 43	1641.51	-20.38	358.27	186.71	118.05	12 33 5	1041.5	-16.47	351.32
110.00	21 20 35	4998.39	34.12	217.26	198.83	87.86	22 43 54	4398.4	33.45	208.08

DIFFERENTIAL CORRECTIONS

TDE -.6504 TRA-2.2748 TC3 -.2489 BAU .1966
RDE -.4508 RRA .4219 RC3 -.0715 FAU .01607
FDE .5965 FRA 1.5083 FC3 -.2449 BSP 5962
BDE .7913 BRA 2.3136 BC3 .2590 FSP -302

MID-COURSE EXECUTION ACCURACY

SGT 1882.9 SGR 487.6 SG3 113.7
RRT -.4098 RRF .4254 RTF -.8804
SGB 1945.0 R23 -.0478 R13 .8819
SG1 1894.1 SG2 442.2 THA 173.59

ORBIT DETERMINATION ACCURACY

ST 727.4 SR 356.7 SS 641.2
CRT .4500 CRS .5869 CST .9865
LSA 985.3 MSA 310.4 SSA 17.0
EL1 748.7 EL2 309.5 ALF 15.08

LAUNCH DATE SEP 21 1965 FLIGHT TIME 112.00 ARRIVAL DATE JAN 11 1966

HELIOCENTRIC CONIC DISTANCE 260.908

RL 150.19 LAL -.00 LOL 357.80 VL 24.940 GAL 10.56 AZL 88.54 HCA 103.23 SMA 115.88 ECC .34400 INC 1.4565 V1 29.668
RP 107.57 LAP 1.42 LOP 101.04 VP 36.361 GAP -19.71 AZP 90.33 TAL 158.36 TAP 261.59 RCA 76.02 APO 155.74 V2 35.227
RC 44.580 GL 4.93 GP -9.50 ZAL 45.77 ZAP 10.72 ETS 114.82 ZAE 148.79 ETE 206.32 ZAC 31.35 ETC 128.09 CLP 4.98

PLANETOCENTRIC CONIC

C3 52.496 VHL 7.245 DLA -12.39 RAL 313.29 RAD 6568.9 VEL 13.185 PTH 2.41 VHP 12.362 DPA -33.63 RAP 288.37 ECC 1.8640

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 51 17	2059.56	-15.53	31.90	188.39	113.98	10 25 37	1459.6	-12.16	24.84
90.00	18 37 23	5493.57	28.30	254.40	197.13	89.00	20 8 57	4893.6	27.86	245.76
100.00	11 6 16	1817.63	-16.93	13.45	187.73	115.01	11 36 34	1217.6	-13.42	6.41
100.00	20 5 5	5210.74	29.84	233.55	197.08	88.14	21 31 56	4610.7	29.26	224.79
110.00	12 0 11	1648.81	-20.62	358.70	185.79	117.89	12 27 40	1048.8	-16.72	351.74
110.00	21 27 40	4952.32	33.95	213.67	196.82	85.74	22 50 12	4352.3	32.99	204.56

DIFFERENTIAL CORRECTIONS

TDE -.6546 TRA-2.2820 TC3 -.2463 BAU .1826
RDE -.4093 RRA .4264 RC3 -.0837 FAU .01666
FDE .6359 FRA 1.5733 FC3 -.2748 BSP 6213
BDE .7720 BRA 2.3215 BC3 .2601 FSP -331

MID-COURSE EXECUTION ACCURACY

SGT 1951.7 SGR 488.5 SG3 123.2
RRT -.4479 RRF .4669 RTF -.8880
SGB 2011.9 R23 -.0542 R13 .8897
SG1 1964.5 SG2 433.9 THA 173.27

ORBIT DETERMINATION ACCURACY

ST 758.5 SR 339.9 SS 674.7
CRT .4274 CRS .5736 CST .9851
LSA 1026.5 MSA 303.4 SSA 17.0
EL1 774.8 EL2 300.8 ALF 12.80

LAUNCH DATE SEP 21 1965 FLIGHT TIME 114.00 ARRIVAL DATE JAN 13 1966

HELIOCENTRIC CONIC DISTANCE 267.705

RL 150.19 LAL -.00 LOL 357.80 VL 25.145 GAL 10.10 AZL 88.34 HCA 106.47 SMA 116.93 ECC .33040 INC 1.6580 V1 29.668
RP 107.55 LAP 1.59 LOP 104.28 VP 36.508 GAP -18.76 AZP 90.47 TAL 158.05 TAP 264.52 RCA 78.29 APO 155.56 V2 35.234
RC 43.503 GL 5.90 GP -10.18 ZAL 45.47 ZAP 10.78 ETS 106.54 ZAE 150.19 ETE 210.67 ZAC 33.07 ETC 129.88 CLP 3.58

PLANETOCENTRIC CONIC

C3 48.611 VHL 6.972 DLA -11.35 RAL 313.41 RAD 6568.8 VEL 13.037 PTH 2.38 VHP 11.842 DPA -34.15 RAP 290.62 ECC 1.8000

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 43 5	2075.20	-15.96	32.85	187.35	113.70	10 17 40	1475.2	-12.62	25.76
90.00	18 46 33	5439.64	28.17	250.46	195.26	87.03	20 17 12	4839.6	27.46	241.86
100.00	10 58 42	1831.23	-17.32	14.27	186.71	114.75	11 29 13	1231.2	-13.84	7.21
100.00	20 13 37	5158.84	29.66	229.70	195.16	86.12	21 39 35	4558.8	28.81	221.00
110.00	11 53 59	1658.10	-20.91	359.26	184.84	117.68	12 21 37	1058.1	-17.04	352.27
110.00	21 34 49	4904.74	33.65	209.99	194.73	83.58	22 56 34	4304.7	32.39	200.98

DIFFERENTIAL CORRECTIONS

TDE -.6591 TRA-2.2883 TC3 -.2417 BAU .1694
RDE -.3678 RRA .4326 RC3 -.0976 FAU .01731
FDE .6789 FRA 1.6430 FC3 -.3083 BSP 6454
BDE .7548 BRA 2.3289 BC3 .2606 FSP -362

MID-COURSE EXECUTION ACCURACY

SGT 2021.4 SGR 491.2 SG3 133.6
RRT -.4893 RRF .5121 RTF -.8951
SGB 2080.2 R23 -.0618 R13 .8970
SG1 2036.3 SG2 425.3 THA 172.91

ORBIT DETERMINATION ACCURACY

ST 790.3 SR 321.2 SS 710.4
CRT .3984 CRS .5543 CST .9837
LSA 1069.9 MSA 295.8 SSA 17.1
EL1 802.2 EL2 290.3 ALF 10.60

LAUNCH DATE SEP 21 1965 FLIGHT TIME 116.00 ARRIVAL DATE JAN 15 1966

HELIOCENTRIC CONIC DISTANCE 274.514

RL 150.19 LAL -.00 LOL 357.80 VL 25.337 GAL 9.65 AZL 88.13 HCA 109.71 SMA 117.93 ECC .31751 INC 1.8664 V1 29.668
RP 107.54 LAP 1.76 LOP 107.52 VP 36.646 GAP -17.83 AZP 90.63 TAL 157.79 TAP 267.49 RCA 80.49 APO 155.38 V2 35.239
RC 42.563 GL 6.96 GP -10.93 ZAL 45.24 ZAP 11.14 ETS 98.36 ZAE 151.46 ETE 215.70 ZAC 34.85 ETC 131.42 CLP 2.16

PLANETOCENTRIC CONIC

C3 45.103 VHL 6.716 DLA -10.24 RAL 313.45 RAD 6568.7 VEL 12.902 PTH 2.35 VHP 11.341 DPA -34.72 RAP 292.88 ECC 1.7423

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 34 6	2093.37	-16.45	33.95	186.28	113.37	10 8 59	1493.4	-13.15	26.83
90.00	18 55 52	5383.91	27.91	246.40	193.31	85.01	20 25 36	4783.9	26.93	237.87
100.00	10 50 22	1847.32	-17.78	15.25	185.67	114.43	11 21 9	1247.3	-14.33	8.15
100.00	20 22 18	5105.20	29.35	225.75	193.15	84.06	21 47 23	4505.2	28.22	217.13
110.00	11 47 5	1669.72	-21.28	359.97	183.86	117.41	12 14 55	1069.7	-17.44	352.94
110.00	21 42 4	4855.57	33.21	206.22	192.57	81.39	23 2 59	4255.6	31.66	197.33

DIFFERENTIAL CORRECTIONS

TDE -.6640 TRA-2.2934 TC3 -.2346 BAU .1571
RDE -.3259 RRA .4409 RC3 -.1132 FAU .01801
FDE .7264 FRA 1.7176 FC3 -.3457 BSP 6704
BDE .7396 BRA 2.3354 BC3 .2605 FSP -395

MID-COURSE EXECUTION ACCURACY

SGT 2091.2 SGR 496.5 SG3 145.0
RRT -.5340 RRF .5609 RTF -.9018
SGB 2149.4 R23 -.0703 R13 .9040
SG1 2108.7 SG2 416.3 THA 172.48

ORBIT DETERMINATION ACCURACY

ST 822.6 SR 300.8 SS 748.7
CRT .3603 CRS .5266 CST .9822
LSA 1115.7 MSA 287.6 SSA 17.1
EL1 830.7 EL2 277.9 ALF 8.46

LAUNCH DATE SEP 21 1965 FLIGHT TIME 118.00 ARRIVAL DATE JAN 17 1966

HELIOCENTRIC CONIC DISTANCE 281.331

RL	150.19	LAL	-.00	LOL	357.80	VL	25.515	GAL	9.22	AZL	87.92	HCA	112.95	SMA	118.89	ECC	.30532	INC	2.0836	V1	29.668
RP	107.52	LAP	1.92	LOP	110.76	VP	36.774	GAP	-16.94	AZP	90.81	TAL	157.56	TAP	270.50	RCA	82.59	APO	155.19	V2	35.244
RC	41.769	GL	8.13	GP	-11.78	ZAL	45.10	ZAP	11.80	ETS	90.69	ZAE	152.54	ETE	221.47	ZAC	36.71	ETC	132.74	CLP	.73

PLANETOCENTRIC CONIC

C3	41.948	VHL	6.477	DLA	-9.03	RAL	313.42	RAD	6568.6	VEL	12.779	PTH	2.32	VHP	10.859	DPA	-35.36	RAP	295.15	ECC	1.6904

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 24 16	2114.51	-17.02	35.24	185.20	112.98	9 59 31	1514.5	-13.76	28.08
90.00	19 5 26	5326.26	27.50	242.23	191.29	82.96	20 34 12	4726.3	26.24	233.79
100.00	10 41 12	1866.31	-18.31	16.41	184.61	114.05	11 12 18	1266.3	-14.90	9.27
100.00	20 31 11	5049.69	28.89	221.68	191.08	81.97	21 55 20	4449.7	27.48	213.17
110.00	11 39 24	1684.06	-21.72	.84	182.87	117.07	12 7 29	1084.1	-17.92	353.77
110.00	21 49 28	4804.71	32.62	202.36	190.36	79.18	23 9 32	4204.7	30.79	193.62

DIFFERENTIAL CORRECTIONS

TDE	-.6662	TRA	-2.2897	TC3	-.2223	BAU	.1447
RDE	-.2834	RRA	.4519	RC3	-.1309	FAU	.01877
FDE	.7788	FRA	1.7976	FC3	-.3873	BSP	6968
BDE	.7240	BRA	2.3339	BC3	.2580	FSP	-433

MID-COURSE EXECUTION ACCURACY

SGT	2153.4	SGR	505.4	SG3	157.4		
RRT	-.5822	RRF	.6127	RTF	-.9085		
SGB	2211.9	R23	-.0785	R13	.9109		
SG1	2174.1	SG2	407.0	THA	171.93		

ORBIT DETERMINATION ACCURACY

ST	852.1	SR	278.6	SS	789.6		
CRT	.3078	CRS	.4861	CST	.9806		
LSA	1161.5	MSA	278.9	SSA	17.0		
EL1	856.8	EL2	263.6	ALF	6.35		

LAUNCH DATE SEP 21 1965 FLIGHT TIME 120.00 ARRIVAL DATE JAN 19 1966

HELIOCENTRIC CONIC DISTANCE 288.153

RL	150.19	LAL	-.00	LOL	357.80	VL	25.681	GAL	8.82	AZL	87.69	HCA	116.18	SMA	119.80	ECC	.29380	INC	2.3114	V1	29.668
RP	107.51	LAP	2.07	LOP	114.01	VP	36.894	GAP	-16.07	AZP	91.02	TAL	157.36	TAP	273.55	RCA	84.61	APO	155.00	V2	35.249
RC	41.131	GL	9.42	GP	-12.74	ZAL	45.04	ZAP	12.76	ETS	83.87	ZAE	153.33	ETE	227.95	ZAC	38.63	ETC	133.84	CLP	-.74

PLANETOCENTRIC CONIC

C3	39.126	VHL	6.255	DLA	-7.72	RAL	313.30	RAD	6568.5	VEL	12.669	PTH	2.30	VHP	10.398	DPA	-36.08	RAP	297.44	ECC	1.6439

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 13 31	2139.08	-17.67	36.76	184.12	112.49	9 49 10	1539.1	-14.47	29.54
90.00	19 15 16	5266.51	26.93	237.96	189.23	80.89	20 43 2	4666.5	25.39	229.62
100.00	10 31 8	1888.66	-18.92	17.78	183.55	113.58	11 2 37	1288.7	-15.57	10.59
100.00	20 40 19	4992.17	28.27	217.52	188.97	79.86	22 3 32	4392.2	26.58	209.13
110.00	11 30 54	1701.54	-22.26	1.91	181.88	116.64	11 59 15	1101.5	-18.51	354.79
110.00	21 57 3	4752.05	31.88	198.43	188.12	76.96	23 16 15	4152.1	29.76	189.87

DIFFERENTIAL CORRECTIONS

TDE	-.6752	TRA	-2.3004	TC3	-.2111	BAU	.1357
RDE	-.2397	RRA	.4659	RC3	-.1508	FAU	.01957
FDE	.8373	FRA	1.8835	FC3	-.4330	BSP	7210
BDE	.7165	BRA	2.3471	BC3	.2594	FSP	-473

MID-COURSE EXECUTION ACCURACY

SGT	2230.2	SGR	518.9	SG3	170.9		
RRT	-.6310	RRF	.6659	RTF	-.9143		
SGB	2289.8	R23	-.0903	R13	.9170		
SG1	2254.9	SG2	398.2	THA	171.38		

ORBIT DETERMINATION ACCURACY

ST	888.5	SR	254.9	SS	833.8		
CRT	.2360	CRS	.4264	CST	.9791		
LSA	1215.1	MSA	270.0	SSA	17.0		
EL1	890.7	EL2	247.1	ALF	4.20		

LAUNCH DATE SEP 21 1965 FLIGHT TIME 122.00 ARRIVAL DATE JAN 21 1966

HELIOCENTRIC CONIC DISTANCE 294,978

RL	150.19	LAL	-.00	LOL	357.80	VL	25.836	GAL	8.43	AZL	87.45	HCA	119.42	SMA	120.67	ECC	.28295	INC	2.5523	V1	29.668
RP	107.50	LAP	2.22	LOP	117.25	VP	37.005	GAP	-15.22	AZP	91.25	TAL	157.21	TAP	276.63	RCA	86.53	APO	154.82	V2	35.252
RC	40.657	GL	10.84	GP	-13.83	ZAL	45.10	ZAP	14.00	ETS	78.02	ZAE	153.73	ETE	235.01	ZAC	40.62	ETC	134.74	CLP	-2.22

PLANETOCENTRIC CONIC

C3	36.618	VHL	6.051	DLA	-6.30	RAL	313.10	RAD	6568.4	VEL	12.569	PTH	2.28	VHP	9.957	DPA	-36.89	RAP	299.75	ECC	1.6026

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 1 44	2167.63	-18.40	38.53	183.05	111.91	9 37 51	1567.6	-15.27	31.26
90.00	19 25 28	5204.49	26.18	233.57	187.14	78.81	20 52 12	4604.5	24.38	225.37
100.00	10 20 5	1914.88	-19.63	19.41	182.52	113.01	10 52 0	1314.9	-16.34	12.16
100.00	20 49 48	4932.48	27.48	213.26	186.84	77.75	22 12 0	4332.5	25.52	205.01
110.00	11 21 28	1722.66	-22.90	3.22	180.92	116.10	11 50 11	1122.7	-19.20	356.03
110.00	22 4 54	4697.47	30.98	194.44	185.86	74.76	23 23 11	4097.5	28.57	186.06

DIFFERENTIAL CORRECTIONS

TDE	-.6830	TRA	-2.3029	TC3	-.1947	BAU	.1275
RDE	-.1944	RRA	.4840	RC3	-.1730	FAU	.02042
FDE	.9027	FRA	1.9753	FC3	-.4827	BSP	7462
BDE	.7101	BRA	2.3532	BC3	.2605	FSP	-517

MID-COURSE EXECUTION ACCURACY

SGT	2299.1	SGR	538.8	SG3	185.6		
RRT	-.6806	RRF	.7195	RTF	-.9200		
SGB	2361.4	R23	-.1021	R13	.9232		
SG1	2329.0	SG2	389.7	THA	170.68		

ORBIT DETERMINATION ACCURACY

ST	922.7	SR	230.3	SS	881.3		
CRT	.1321	CRS	.3354	CST	.9776		
LSA	1269.9	MSA	260.8	SSA	16.9		
EL1	923.2	EL2	228.2	ALF	2.01		

LAUNCH DATE SEP 21 1965 FLIGHT TIME 124.00 ARRIVAL DATE JAN 23 1966

HELIOCENTRIC CONIC DISTANCE 301.801

RL	150.19	LAL	-.00	LOL	357.80	VL	25.980	GAL	8.07	AZL	87.19	HCA	122.66	SMA	121.49	ECC	.27274	INC	2.8091	V1	29.668
RP	107.49	LAP	2.36	LOP	120.50	VP	37.108	GAP	-14.41	AZP	91.52	TAL	157.09	TAP	279.76	RCA	88.36	APO	154.63	V2	35.255
RC	40.351	GL	12.41	GP	-15.06	ZAL	45.27	ZAP	15.51	ETS	73.18	ZAE	153.66	ETE	242.39	ZAC	42.69	ETC	135.46	CLP	-3.74

PLANETOCENTRIC CONIC

C3	34.413	VHL	5.866	DLA	-4.75	RAL	312.82	RAD	6568.4	VEL	12.481	PTH	2.26	VHP	9.537	DPA	-37.83	RAP	302.08	ECC	1.5663

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 48 48	2200.78	-19.23	40.61	182.03	111.19	9 25 29	1600.8	-16.18	33.26
90.00	19 36 6	5139.96	25.25	229.07	185.04	76.74	21 1 46	4540.0	23.18	221.02
100.00	10 7 55	1945.58	-20.43	21.33	181.52	112.31	10 40 20	1345.6	-17.23	14.00
100.00	20 59 41	4870.40	26.51	208.90	184.70	75.65	22 20 51	4270.4	24.28	200.82
110.00	11 11 2	1747.94	-23.65	4.80	179.99	115.43	11 40 10	1147.9	-20.03	357.53
110.00	22 13 3	4640.80	29.89	190.38	183.61	72.59	23 30 23	4040.8	27.22	182.21

DIFFERENTIAL CORRECTIONS

TDE	-.6900	TRA	-2.3020	TC3	-.1726	BAU	.1208
RDE	-.1468	RRA	.5066	RC3	-.1979	FAU	.02135
FDE	.9750	FRA	2.0722	FC3	-.5372	BSP	7772
BDE	.7055	BRA	2.3571	BC3	.2626	FSP	-567

MID-COURSE EXECUTION ACCURACY

SGT	2363.3	SGR	566.6	SG3	201.3		
RRT	-.7293	RRF	.7713	RTF	-.9255		
SGB	2430.3	R23	-.1143	R13	.9291		
SG1	2400.1	SG2	381.7	THA	169.82		

ORBIT DETERMINATION ACCURACY

ST	955.2	SR	206.9	SS	931.7		
CRT	-.0208	CRS	.1953	CST	.9760		
LSA	1326.4	MSA	252.1	SSA	16.7		
EL1	955.2	EL2	206.9	ALF	179.73		

LAUNCH DATE SEP 21 1965 FLIGHT TIME 126.00 ARRIVAL DATE JAN 25 1966

HELIOCENTRIC CONIC DISTANCE 308.622

RL 150.19 LAL -.00 LOL 357.80 VL 26.113 GAL 7.72 AZL 86.91 HCA 125.90 SMA 122.27 ECC .26315 INC 3.0854 V1 29.668
RP 107.48 LAP 2.50 LOP 123.75 VP 37.204 GAP -13.62 AZP 91.81 TAL 157.01 TAP 282.92 RCA 90.10 APO 154.45 V2 35.257
RC 40.219 GL 14.14 GP -16.47 ZAL 45.56 ZAP 17.27 ETS 69.26 ZAE 153.05 ETE 249.76 ZAC 44.85 ETC 136.00 CLP -5.29

PLANETOCENTRIC CONIC

C3 32.500 VHL 5.701 DLA -3.05 RAL 312.44 RAD 6568.3 VEL 12.405 PTH 2.24 VHP 9.141 DPA -38.91 RAP 304.46 ECC 1.5349

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 34 36	2239.23	-20.16	43.05	181.07	110.32	9 11 55	1639.2	-17.21	35.61
90.00	19 47 18	5072.67	24.12	224.47	182.96	74.70	21 11 51	4472.7	21.79	216.57
100.00	9 54 31	1981.43	-21.34	23.61	180.59	111.44	10 27 32	1381.4	-18.24	16.19
100.00	21 10 4	4805.70	25.34	204.45	182.58	73.59	22 30 10	4205.7	22.85	196.54
110.00	10 59 30	1778.02	-24.51	6.71	179.12	114.60	11 29 8	1178.0	-20.99	359.34
110.00	22 21 35	4581.87	28.62	186.27	181.39	70.45	23 37 57	3981.9	25.69	178.32

DIFFERENTIAL CORRECTIONS
TDE -.7027 TRA-2.3033 TC3 -.1507 BAU .1177
RDE -.0956 RRA .5352 RC3 -.2251 FAU .02226
FDE 1.0579 FRA 2.1760 FC3 -.5930 BSP 8017
BDE .7092 BRA 2.3647 BC3 .2709 FSP -618

MID-COURSE EXECUTION ACCURACY
SGT 2429.5 SGR 604.4 SG3 218.3
RRT -.7742 RRF .8192 RTF -.9305
SGB 2503.5 R23 -.1283 R13 .9347
SG1 2475.2 SG2 375.5 THA 168.84

ORBIT DETERMINATION ACCURACY
ST 991.2 SR 188.2 SS 987.3
CRT -.2384 CRS -.0176 CST .9747
LSA 1390.3 MSA 243.4 SSA 16.3
EL1 992.2 EL2 182.6 ALF 177.32

LAUNCH DATE SEP 21 1965 FLIGHT TIME 128.00 ARRIVAL DATE JAN 27 1966

HELIOCENTRIC CONIC DISTANCE 315.436

RL 150.19 LAL -.00 LOL 357.80 VL 26.237 GAL 7.40 AZL 86.61 HCA 129.14 SMA 123.01 ECC .25417 INC 3.3852 V1 29.668
RP 107.48 LAP 2.62 LOP 126.99 VP 37.292 GAP -12.85 AZP 92.14 TAL 156.97 TAP 286.11 RCA 91.74 APO 154.27 V2 35.259
RC 40.263 GL 16.05 GP -18.08 ZAL 46.01 ZAP 19.30 ETS 66.16 ZAE 151.89 ETE 256.76 ZAC 47.10 ETC 136.38 CLP -6.87

PLANETOCENTRIC CONIC

C3 30.876 VHL 5.557 DLA -1.20 RAL 311.97 RAD 6568.2 VEL 12.339 PTH 2.22 VHP 8.769 DPA -40.17 RAP 306.90 ECC 1.5081

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 18 57	2283.82	-21.19	45.92	180.20	109.24	8 57 1	1683.8	-18.37	38.37
90.00	19 59 11	5002.29	22.78	219.75	180.93	72.71	21 22 33	4402.3	20.20	212.03
100.00	9 39 44	2023.23	-22.36	26.30	179.75	110.37	10 13 27	1423.2	-19.38	18.77
100.00	21 21 5	4738.11	23.96	199.90	180.51	71.57	22 40 3	4138.1	21.22	192.18
110.00	10 46 42	1813.62	-25.50	9.00	178.36	113.57	11 16 55	1213.6	-22.09	1.50
110.00	22 30 36	4520.49	27.15	182.10	179.23	68.38	23 45 57	3920.5	23.97	174.38

DIFFERENTIAL CORRECTIONS
TDE -.7187 TRA-2.3045 TC3 -.1267 BAU .1175
RDE -.0396 RRA .5708 RC3 -.2549 FAU .02315
FDE 1.1519 FRA 2.2853 FC3 -.6492 BSP 8252
BDE .7198 BRA 2.3741 BC3 .2847 FSP -673

MID-COURSE EXECUTION ACCURACY
SGT 2493.6 SGR 654.6 SG3 236.4
RRT -.8142 RRF .8617 RTF -.9352
SGB 2578.1 R23 -.1429 R13 .9402
SG1 2551.1 SG2 371.5 THA 167.67

ORBIT DETERMINATION ACCURACY
ST 1028.4 SR 181.5 SS 1047.4
CRT -.5123 CRS -.3051 CST .9737
LSA 1460.1 MSA 235.4 SSA 15.9
EL1 1032.7 EL2 155.2 ALF 174.72

LAUNCH DATE SEP 21 1965 FLIGHT TIME 130.00 ARRIVAL DATE JAN 29 1966

HELIOCENTRIC CONIC DISTANCE 322.243

RL 150.19 LAL -.00 LOL 357.80 VL 26.351 GAL 7.09 AZL 86.29 HCA 132.38 SMA 123.69 ECC .24577 INC 3.7141 V1 29.668
RP 107.48 LAP 2.74 LOP 130.24 VP 37.373 GAP -12.10 AZP 92.51 TAL 156.96 TAP 289.34 RCA 93.29 APO 154.09 V2 35.259
RC 40.482 GL 18.16 GP -19.93 ZAL 46.62 ZAP 21.59 ETS 63.76 ZAE 150.18 ETE 263.08 ZAC 49.48 ETC 136.60 CLP -8.50

PLANETOCENTRIC CONIC

C3 29.544 VHL 5.435 DLA .83 RAL 311.39 RAD 6568.2 VEL 12.285 PTH 2.21 VHP 8.425 DPA -41.64 RAP 309.42 ECC 1.4862

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 1 39	2335.55	-22.31	49.29	179.46	107.91	8 40 34	1735.5	-19.65	41.63
90.00	20 11 54	4928.44	21.20	214.91	178.97	70.78	21 34 2	4328.4	18.38	207.37
100.00	9 23 22	2071.93	-23.48	29.48	179.03	109.05	9 57 54	1471.9	-20.66	21.82
100.00	21 32 52	4667.29	22.36	195.25	178.52	69.63	22 50 39	4067.3	19.38	187.72
110.00	10 32 30	1855.56	-26.62	11.75	177.73	112.29	11 3 25	1255.6	-23.36	4.11
110.00	22 40 13	4456.42	25.47	177.87	177.14	66.39	23 54 30	3856.4	22.06	170.38

DIFFERENTIAL CORRECTIONS
TDE -.7388 TRA-2.3052 TC3 -.1003 BAU .1201
RDE .0229 RRA .6148 RC3 -.2871 FAU .02401
FDE 1.2579 FRA 2.3982 FC3 -.7037 BSP 8499
BDE .7391 BRA 2.3858 BC3 .3041 FSP -731

MID-COURSE EXECUTION ACCURACY
SGT 2554.3 SGR 719.8 SG3 255.4
RRT -.8484 RRF .8975 RTF -.9396
SGB 2653.8 R23 -.1572 R13 .9456
SG1 2627.8 SG2 370.3 THA 166.28

ORBIT DETERMINATION ACCURACY
ST 1066.8 SR 196.2 SS 1112.1
CRT -.7671 CRS -.5996 CST .9728
LSA 1536.4 MSA 228.6 SSA 15.3
EL1 1077.5 EL2 124.6 ALF 171.86

LAUNCH DATE SEP 21 1965 FLIGHT TIME 132.00 ARRIVAL DATE JAN 31 1966

HELIOCENTRIC CONIC DISTANCE 329.039

RL 150.19 LAL -.00 LOL 357.80 VL 26.457 GAL 6.80 AZL 85.92 HCA 135.62 SMA 124.34 ECC .23795 INC 4.0787 V1 29.668
RP 107.48 LAP 2.85 LOP 133.49 VP 37.447 GAP -11.38 AZP 92.92 TAL 156.97 TAP 292.59 RCA 94.75 APO 153.93 V2 35.259
RC 40.875 GL 20.48 GP -22.06 ZAL 47.42 ZAP 24.18 ETS 61.96 ZAE 147.95 ETE 268.55 ZAC 51.99 ETC 136.67 CLP -10.16

PLANETOCENTRIC CONIC

C3 28.515 VHL 5.340 DLA 3.05 RAL 310.71 RAD 6568.1 VEL 12.243 PTH 2.20 VHP 8.111 DPA -43.35 RAP 312.07 ECC 1.4693

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 42 24	2395.63	-23.51	53.29	178.88	106.25	8 22 20	1795.6	-21.06	45.47
90.00	20 25 40	4850.63	19.37	209.93	177.12	68.94	21 46 31	4250.6	16.34	202.57
100.00	9 5 10	2128.67	-24.69	33.26	178.49	107.41	9 40 39	1528.7	-22.07	25.44
100.00	21 45 36	4592.82	20.52	190.49	176.64	67.77	23 2 8	3992.8	17.32	183.15
110.00	10 16 41	1904.86	-27.85	15.06	177.27	110.68	10 48 26	1304.9	-24.78	7.23
110.00	22 50 35	4389.39	23.57	173.59	175.18	64.50	24 3 44	3789.4	19.94	166.33

DIFFERENTIAL CORRECTIONS
TDE -.7618 TRA-2.3037 TC3 -.0692 BAU .1254
RDE .0941 RRA .6688 RC3 -.3216 FAU .02484
FDE 1.3762 FRA 2.5108 FC3 -.7543 BSP 8815
BDE .7676 BRA 2.3988 BC3 .3289 FSP -794

MID-COURSE EXECUTION ACCURACY
SGT 2607.8 SGR 802.9 SG3 274.7
RRT -.8769 RRF .9263 RTF -.9438
SGB 2728.6 R23 -.1694 R13 .9510
SG1 2703.1 SG2 372.3 THA 164.59

ORBIT DETERMINATION ACCURACY
ST 1104.3 SR 238.3 SS 1180.2
CRT -.9219 CRS -.8069 CST .9721
LSA 1618.4 MSA 223.5 SSA 14.4
EL1 1126.1 EL2 90.5 ALF 168.68

LAUNCH DATE SEP 21 1965 FLIGHT TIME 134.00 ARRIVAL DATE FEB 2 1966

HELIOCENTRIC CONIC DISTANCE 335.822

RL	150.19	LAL	-.00	LOL	357.80	VL	26.554	GAL	6.52	AZL	85.51	HCA	138.85	SMA	124.94	ECC	.23066	INC	4.4880
RP	107.48	LAP	2.95	LOP	136.74	VP	37.515	GAP	-10.68	AZP	93.38	TAL	157.01	TAP	295.87	RCA	96.12	APO	153.76
RC	41.437	GL	23.04	GP	-24.52	ZAL	48.43	ZAP	27.08	ETS	60.66	ZAE	145.23	ETE	273.09	ZAC	54.68	ETC	136.61

VI	29.668																		
V2	35.258																		
CLP	-11.85																		

PLANETOCENTRIC CONIC

C3	27.813	VHL	5.274	DLA	5.48	RAL	309.90	RAD	6568.1	VEL	12.214	PTH	2.19	VHP	7.834	DPA	-45.36	RAP	314.89

ECC	1.4577																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 20 53	2465.58	-24.76	58.03	178.52	104.19	8 1 59	1865.6	-22.57	50.05
90.00	20 40 47	4768.26	17.28	204.79	175.42	67.21	22 0 15	4168.3	14.04	197.61
100.00	8 44 49	2194.86	-25.96	37.77	178.17	105.37	9 21 24	1594.9	-23.60	29.77
100.00	21 59 32	4514.21	18.41	185.60	174.91	66.03	23 14 46	3914.2	15.02	178.45
110.00	9 59 0	1962.71	-29.17	19.04	177.06	108.66	10 31 42	1362.7	-26.35	10.99
110.00	23 1 50	4319.12	21.44	169.25	173.36	62.72	24 13 50	3719.1	17.62	162.21

DIFFERENTIAL CORRECTIONS

TDE	-.7947	TRA	-2.3056	TC3	-.0422	BAU	.1335												
RDE	.1777	RRA	.7354	RC3	-.3565	FAU	.02543												
FDE	1.5106	FRA	2.6217	FC3	-.7915	BSP	9065												
BDE	.8143	BRA	2.4201	BC3	.3590	FSP	-854												

MID-COURSE EXECUTION ACCURACY

SGT	2660.7	SGR	907.2	SG3	294.0														
RRT	-.8989	RRF	.9484	RTF	-.9477														
SGB	2811.1	R23	-.1797	R13	.9562														
SG1	2785.4	SG2	379.7	THA	162.63														

ORBIT DETERMINATION ACCURACY

ST	1146.9	SR	308.9	SS	1253.7														
CRT	-.9838	CRS	-.9157	CST	.9720														
LSA	1712.9	MSA	219.7	SSA	13.4														
EL1	1186.5	EL2	53.6	ALF	165.13														

LAUNCH DATE SEP 21 1965 FLIGHT TIME 136.00 ARRIVAL DATE FEB 4 1966

HELIOCENTRIC CONIC DISTANCE 342.591

RL	150.19	LAL	-.00	LOL	357.80	VL	26.644	GAL	6.27	AZL	85.05	HCA	142.09	SMA	125.51	ECC	.22391	INC	4.9540
RP	107.49	LAP	3.04	LOP	140.00	VP	37.577	GAP	-10.00	AZP	93.91	TAL	157.08	TAP	299.17	RCA	97.41	APO	153.61
RC	42.162	GL	25.87	GP	-27.38	ZAL	49.69	ZAP	30.33	ETS	59.77	ZAE	142.05	ETE	276.74	ZAC	57.59	ETC	136.44

VI	29.668																		
V2	35.256																		
CLP	-13.58																		

PLANETOCENTRIC CONIC

C3	27.482	VHL	5.242	DLA	8.15	RAL	308.97	RAD	6568.1	VEL	12.201	PTH	2.19	VHP	7.601	DPA	-47.70	RAP	317.98

ECC	1.4523																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 56 35	2547.36	-26.01	63.70	178.43	101.62	7 39 3	1947.4	-24.14	55.52
90.00	20 57 36	4680.50	14.89	199.46	173.94	65.63	22 15 36	4080.5	11.47	192.45
100.00	8 21 52	2272.30	-27.24	43.17	178.14	102.81	8 59 44	1672.3	-25.21	34.96
100.00	22 15 0	4430.79	16.03	180.55	173.39	64.43	23 28 51	3830.8	12.46	173.58
110.00	9 39 6	2030.61	-30.55	23.84	177.16	106.13	10 12 57	1430.6	-28.04	15.54
110.00	23 14 15	4245.25	19.07	164.83	171.75	61.08	24 25 1	3645.2	15.07	158.00

DIFFERENTIAL CORRECTIONS

TDE	-.8339	TRA	-2.3083	TC3	-.0129	BAU	.1438												
RDE	.2777	RRA	.8163	RC3	-.3912	FAU	.02580												
FDE	1.6578	FRA	2.7212	FC3	-.8127	BSP	9401												
BDE	.8790	BRA	2.4465	BC3	.3914	FSP	-916												

MID-COURSE EXECUTION ACCURACY

SGT	2704.6	SGR	1035.8	SG3	311.9														
RRT	-.9161	RRF	.9647	RTF	-.9514														
SGB	2896.2	R23	-.1855	R13	.9616														
SG1	2869.6	SG2	391.5	THA	160.29														

ORBIT DETERMINATION ACCURACY

ST	1189.3	SR	406.7	SS	1329.0														
CRT	-.9991	CRS	-.9647	CST	.9722														
LSA	1816.1	MSA	218.3	SSA	12.2														
EL1	1256.8	EL2	16.5	ALF	161.13														

LAUNCH DATE SEP 21 1965 FLIGHT TIME 138.00 ARRIVAL DATE FEB 6 1966

HELIOCENTRIC CONIC DISTANCE 349.343

RL	150.19	LAL	-.00	LOL	357.80	VL	26.726	GAL	6.03	AZL	84.51	HCA	145.32	SMA	126.03	ECC	.21767	INC	5.4927
RP	107.49	LAP	3.12	LOP	143.25	VP	37.633	GAP	-9.34	AZP	94.52	TAL	157.17	TAP	302.49	RCA	98.60	APO	153.46
RC	43.042	GL	28.97	GP	-30.69	ZAL	51.21	ZAP	33.97	ETS	59.23	ZAE	138.41	ETE	279.59	ZAC	60.75	ETC	136.18

VI	29.668																		
V2	35.254																		
CLP	-15.33																		

PLANETOCENTRIC CONIC

C3	27.590	VHL	5.253	DLA	11.07	RAL	307.88	RAD	6568.1	VEL	12.205	PTH	2.19	VHP	7.421	DPA	-50.43	RAP	321.47

ECC	1.4541																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 28 48	2643.63	-27.15	70.51	178.69	98.38	7 12 52	2043.6	-25.71	62.14
90.00	21 16 42	4586.18	12.16	193.88	172.75	64.23	22 33 8	3986.2	8.60	187.01
100.00	7 55 42	2363.37	-28.45	49.67	178.46	99.59	8 35 6	1763.4	-26.83	41.24
100.00	22 32 29	4341.68	13.34	175.30	172.15	63.00	23 44 51	3741.7	9.62	168.49
110.00	9 16 32	2110.43	-31.92	29.66	177.66	102.94	9 51 43	1510.4	-29.81	21.08
110.00	23 28 9	4167.38	16.45	160.31	170.39	59.60	24 37 36	3567.4	12.29	153.68

DIFFERENTIAL CORRECTIONS

TDE	-.8851	TRA	-2.3094	TC3	.0131	BAU	.1560												
RDE	.4004	RRA	.9143	RC3	-.4227	FAU	.02574												
FDE	1.8174	FRA	2.8008	FC3	-.8076	BSP	9760												
BDE	.9715	BRA	2.4838	BC3	.4229	FSP	-971												

MID-COURSE EXECUTION ACCURACY

SGT	2742.5	SGR	1191.9	SG3	327.2														
RRT	-.9289	RRF	.9762	RTF	-.9548														
SGB	2990.3	R23	-.1863	R13	.9670														
SG1	2962.2	SG2	408.7	THA	157.57														

ORBIT DETERMINATION ACCURACY

ST	1235.0	SR	532.8	SS	1405.2														
CRT	-.9977	CRS	-.9857	CST	.9729														
LSA	1932.8	MSA	218.6	SSA	10.9														
EL1	1344.6	EL2	33.5	ALF	156.70														

LAUNCH DATE SEP 21 1965 FLIGHT TIME 140.00 ARRIVAL DATE FEB 8 1966

HELIOCENTRIC CONIC DISTANCE 356.077

RL	150.19	LAL	-.00	LOL	357.80	VL	26.801	GAL	5.81	AZL	83.87	HCA	148.55	SMA	126.52	ECC	.21192	INC	6.1270
RP	107.50	LAP	3.19	LOP	146.50	VP	37.684	GAP	-8.69	AZP	95.23	TAL	157.27	TAP	305.82	RCA	99.71	APO	153.33
RC	44.068	GL	32.37	GP	-34.52	ZAL	53.04	ZAP	38.04	ETS	58.97	ZAE	134.29	ETE	281.75	ZAC	64.23	ETC	135.89

VI	29.668																		
V2	35.250																		
CLP	-17.08																		

PLANETOCENTRIC CONIC

C3	28.253	VHL	5.315	DLA	14.26	RAL	306.62	RAD	6568.1	VEL	12.232	PTH	2.20	VHP	7.311	DPA	-53.58	RAP	325.58

ECC	1.4650																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 56 29	2758.21	-28.01	78.78	179.33	94.33	6 42 27	2158.2	-27.12	70.23
90.00	21 38 58	4483.44	9.06	187.93	171.96	63.06	22 53 42	3883.4	5.37	181.19
100.00	7 25 25	2471.39	-29.42	57.54	179.19	95.55	8 6 36	1871.4	-28.34	48.91
100.00	22 52 43	4245.48	10.31	169.77	171.29	61.79	24 3 29	3645.5	6.46	163.10
110.00	8 50 39	2204.66	-33.14	36.74	178.64	98.91	9 27 24	1604.7	-31.55	27.87
110.00	23 43 58	4084.99	13.56	155.68	169.38	58.32	24 52 3	3485.0	9.27	149.21

DIFFERENTIAL CORRECTIONS

TDE	-.9535	TRA	-2.3178	TC3	.0325	BAU	.1692												
RDE	.5547	RRA	1.0319	RC3	-.4467	FAU	.02503												
FDE	1.9855	FRA	2.8480	FC3	-.7670	BSP	10151												
BDE	1.1031	BRA	2.5371	BC3	.4479	FSP	-1013												

MID-COURSE EXECUTION ACCURACY

SGT	2775.4	SGR	1378.5	SG3	337.7														
RRT	-.9382	RRF	.9840	RTF	-.9581														
SGB	3098.9	R23	-.1814	R13	.9724														
SG1	3068.7	SG2	431.4	THA	154.47														

ORBIT DETERMINATION ACCURACY

ST	1286.3	SR	690.1	SS	1479.3														
CRT	-.9923	CRS	-.9945	CST	.9743														
LSA	2066.5	MSA	220.3	SSA	9.5														
EL1	1457.7	EL2	75.4	ALF	151.89														

LAUNCH DATE SEP 21 1965 FLIGHT TIME 142.00 ARRIVAL DATE FEB 10 1966

DISTANCE 362.787

HELIOCENTRIC CONIC

RL 150.19 LAL -.00 LOL 357.80 VL 26.870 GAL 5.61 AZL 83.11 HCA 151.77 SMA 126.96 ECC .20663 INC 6.8900 V1 29.668
RP 107.51 LAP 3.25 LOP 149.75 VP 37.729 GAP -8.07 AZP 96.08 TAL 157.38 TAP 309.15 RCA 100.73 APO 153.20 V2 35.247
RC 45.230 GL 36.09 GP -38.94 ZAL 55.20 ZAP 42.57 ETS 58.95 ZAE 129.67 ETE 283.39 ZAC 68.09 ETC 135.65 CLP -18.79

PLANETOCENTRIC CONIC

C3 29.657 VHL 5.446 DLA 17.72 RAL 305.15 RAD 6568.2 VEL 12.289 PTH 2.21 VHP 7.294 DPA -57.14 RAP 330.66 ECC 1.4881

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 17 47	2897.14	-28.31	88.93	180.36	89.25	6 6 4	2297.1	-28.11	80.27
90.00	22 5 56	4368.77	5.46	181.42	171.73	62.17	23 18 44	3768.8	1.69	174.77
100.00	6 49 30	2601.37	-29.89	67.17	180.36	90.51	7 32 52	2001.4	-29.50	58.39
100.00	23 16 54	4139.77	6.85	163.83	170.97	60.83	24 25 53	3539.8	2.91	157.26
110.00	8 20 30	2316.68	-33.99	45.37	180.18	93.88	8 59 7	1716.7	-33.08	36.25
110.00	0 6 19	3997.23	10.37	150.88	168.84	57.24	1 12 57	3397.2	5.98	144.54

DIFFERENTIAL CORRECTIONS

TDE-1.0259 TRA-2.3146 TC3 .0704 BAU .1864
RDE .7470 RRA 1.1654 RC3 -.4647 FAU .02417
FDE 2.1371 FRA 2.8300 FC3 -.7056 BSP 11062
BDE 1.2690 BRA 2.5915 BC3 .4700 FSP -1066

MID-COURSE EXECUTION ACCURACY

SGT 2776.0 SGR 1590.8 SG3 339.2
RRT -.9460 RRF .9893 RTF -.9612
SGB 3199.5 R23 -.1700 R13 .9777
SG1 3167.5 SG2 451.9 THA 150.89

ORBIT DETERMINATION ACCURACY

ST 1324.1 SR 875.8 SS 1535.2
CRT -.9869 CRS -.9981 CST .9753
LSA 2196.9 MSA 224.5 SSA 8.0
EL1 1583.1 EL2 118.0 ALF 146.65

LAUNCH DATE SEP 21 1965 FLIGHT TIME 144.00 ARRIVAL DATE FEB 12 1966

DISTANCE 369.482

HELIOCENTRIC CONIC

RL 150.19 LAL -.00 LOL 357.80 VL 26.933 GAL 5.42 AZL 82.17 HCA 154.99 SMA 127.37 ECC .20182 INC 7.8314 V1 29.668
RP 107.53 LAP 3.30 LOP 153.00 VP 37.769 GAP -7.46 AZP 97.10 TAL 157.49 TAP 312.48 RCA 101.67 APO 153.08 V2 35.242
RC 46.516 GL 40.12 GP -43.98 ZAL 57.71 ZAP 47.58 ETS 59.13 ZAE 124.50 ETE 284.69 ZAC 72.38 ETC 135.58 CLP -20.36

PLANETOCENTRIC CONIC

C3 32.137 VHL 5.669 DLA 21.44 RAL 303.43 RAD 6568.3 VEL 12.390 PTH 2.24 VHP 7.403 DPA -61.05 RAP 337.34 ECC 1.5289

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 29 18	3071.74	-27.50	101.62	181.63	82.95	5 20 30	2471.7	-28.19	93.02
90.00	22 40 43	4234.51	1.15	173.91	172.37	61.70	23 51 18	3634.5	-2.64	167.28
100.00	6 5 24	2761.88	-29.39	79.07	181.87	84.28	6 51 26	2161.9	-29.87	70.30
100.00	23 47 19	4019.61	2.82	157.19	171.45	60.23	24 54 18	3419.6	-1.16	150.66
110.00	7 44 38	2451.43	-34.11	55.88	182.26	87.66	8 25 30	1851.4	-34.06	46.64
110.00	0 28 30	3902.82	6.85	145.84	168.95	56.43	1 33 33	3302.8	2.39	139.59

DIFFERENTIAL CORRECTIONS

TDE-1.2203 TRA-2.4123 TC3 -.0158 BAU .1848
RDE 1.0261 RRA 1.3483 RC3 -.4299 FAU .01906
FDE 2.3423 FRA 2.8154 FC3 -.5135 BSP 9886
BDE 1.5944 BRA 2.7635 BC3 .4302 FSP -948

MID-COURSE EXECUTION ACCURACY

SGT 2895.3 SGR 1859.2 SG3 337.8
RRT -.9484 RRF .9924 RTF -.9643
SGB 3440.8 R23 -.1558 R13 .9828
SG1 3404.1 SG2 501.3 THA 147.88

ORBIT DETERMINATION ACCURACY

ST 1462.4 SR 1126.4 SS 1623.9
CRT -.9861 CRS -.9995 CST .9805
LSA 2448.5 MSA 222.2 SSA 7.0
EL1 1839.9 EL2 149.0 ALF 142.50

LAUNCH DATE SEP 21 1965 FLIGHT TIME 146.00 ARRIVAL DATE FEB 14 1966

DISTANCE 376.141

HELIOCENTRIC CONIC

RL 150.19 LAL -.00 LOL 357.80 VL 26.990 GAL 5.26 AZL 80.97 HCA 158.20 SMA 127.75 ECC .19744 INC 9.0300 V1 29.668
RP 107.55 LAP 3.34 LOP 156.25 VP 37.805 GAP -6.87 AZP 98.39 TAL 157.61 TAP 315.81 RCA 102.53 APO 152.97 V2 35.236
RC 47.916 GL 44.47 GP -49.69 ZAL 60.62 ZAP 53.03 ETS 59.57 ZAE 118.76 ETE 285.91 ZAC 77.16 ETC 135.90 CLP -21.65

PLANETOCENTRIC CONIC

C3 36.260 VHL 6.022 DLA 25.42 RAL 301.39 RAD 6568.4 VEL 12.555 PTH 2.28 VHP 7.692 DPA -65.11 RAP 346.71 ECC 1.5968

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	3 21 2	3313.38	-24.33	118.58	182.48	75.04	4 16 15	2713.4	-26.15	110.38
90.00	23 32 41	4053.78	-4.67	163.81	174.55	62.04	24 40 15	3453.8	-8.37	157.09
100.00	5 6 47	2972.45	-27.00	94.24	183.23	76.65	5 56 19	2372.5	-28.57	85.79
100.00	0 33 33	3869.94	-2.25	148.97	173.22	60.18	1 38 3	3269.9	-6.21	142.41
110.00	7 0 19	2617.23	-32.91	68.66	184.62	80.20	7 43 56	2017.2	-33.92	59.56
110.00	0 56 30	3797.93	2.87	140.32	170.02	55.92	1 59 48	3197.9	-1.62	134.12

DIFFERENTIAL CORRECTIONS

TDE-1.3790 TRA-2.4430 TC3 .0079 BAU .1947
RDE 1.3618 RRA 1.5207 RC3 -.4015 FAU .01604
FDE 2.4396 FRA 2.6438 FC3 -.3831 BSP 11047
BDE 1.9381 BRA 2.8776 BC3 .4016 FSP -941

MID-COURSE EXECUTION ACCURACY

SGT 2888.8 SGR 2116.4 SG3 315.8
RRT -.9532 RRF .9945 RTF -.9678
SGB 3581.1 R23 -.1345 R13 .9875
SG1 3542.9 SG2 521.8 THA 144.17

ORBIT DETERMINATION ACCURACY

ST 1522.4 SR 1382.1 SS 1639.7
CRT -.9844 CRS -.9999 CST .9827
LSA 2620.2 MSA 226.3 SSA 5.6
EL1 2048.2 EL2 180.9 ALF 137.81

LAUNCH DATE SEP 21 1965 FLIGHT TIME 148.00 ARRIVAL DATE FEB 16 1966

DISTANCE 382.769

HELIOCENTRIC CONIC

RL 150.19 LAL -.00 LOL 357.80 VL 27.041 GAL 5.11 AZL 79.38 HCA 161.40 SMA 128.09 ECC .19348 INC10.6180 V1 29.668
RP 107.56 LAP 3.37 LOP 159.50 VP 37.836 GAP -6.30 AZP 100.07 TAL 157.72 TAP 319.12 RCA 103.31 APO 152.88 V2 35.230
RC 49.420 GL 49.07 GP -56.01 ZAL 63.91 ZAP 58.85 ETS 60.49 ZAE 112.43 ETE 287.50 ZAC 82.46 ETC 137.02 CLP -22.29

PLANETOCENTRIC CONIC

C3 43.156 VHL 6.569 DLA 29.56 RAL 298.93 RAD 6568.6 VEL 12.827 PTH 2.33 VHP 8.251 DPA -68.79 RAP .51 ECC 1.7102

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
81.15	0 6 37	3961.31	-15.20	162.45	180.33	64.34	1 12 39	3361.3	-18.53	155.27
98.85	2 31 25	3493.77	-15.18	128.10	180.32	64.33	3 29 38	2893.8	-18.51	120.92
100.00	3 17 56	3344.94	-18.79	118.80	182.06	66.32	4 13 41	2744.9	-21.83	111.32
100.00	2 2 47	3585.37	-11.65	133.07	178.50	62.28	3 2 33	2985.4	-15.27	126.15
110.00	6 1 47	2831.47	-29.33	84.30	186.49	71.60	6 48 58	2231.5	-31.56	75.80
110.00	1 35 26	3671.61	-1.96	133.73	172.66	55.87	2 36 37	3071.6	-6.42	127.49

DIFFERENTIAL CORRECTIONS

TDE-1.6600 TRA-2.5440 TC3 -.0070 BAU .1913
RDE 1.8197 RRA 1.7065 RC3 -.3316 FAU .01102
FDE 2.4976 FRA 2.4038 FC3 -.2211 BSP 11735
BDE 2.4632 BRA 3.0634 BC3 .3316 FSP -857

MID-COURSE EXECUTION ACCURACY

SGT 2933.1 SGR 2374.1 SG3 281.8
RRT -.9562 RRF .9954 RTF -.9720
SGB 3773.5 R23 -.1105 R13 .9916
SG1 3733.8 SG2 545.9 THA 141.28

ORBIT DETERMINATION ACCURACY

ST 1637.6 SR 1668.1 SS 1636.3
CRT -.9850 CRS-1.0000 CST .9863
LSA 2844.3 MSA 227.5 SSA 4.4
EL1 2328.8 EL2 202.6 ALF 134.46

LAUNCH DATE SEP 21 1965 FLIGHT TIME 150.00 ARRIVAL DATE FEB 18 1966

HELIOCENTRIC CONIC DISTANCE 389.355

RL 150.19 LAL -.00 LOL 357.80 VL 27.088 GAL 4.97 AZL 77.17 HCA 164.57 SMA 128.41 ECC .18995 INC12.8346 VI 29.668
RP 107.58 LAP 3.39 LOP 162.74 VP 37.863 GAP -5.75 AZP 102.39 TAL 157.81 TAP 322.39 RCA 104.01 APO 152.80 V2 35.224
RC 51.018 GL 53.80 GP -62.86 ZAL 67.60 ZAP 64.88 ETS 62.64 ZAE 105.52 ETE 290.39 ZAC 88.32 ETC 139.89 CLP -21.46

PLANETOCENTRIC CONIC

C3 55.187 VHL 7.429 DLA 33.72 RAL 295.92 RAD 6569.0 VEL 13.287 PTH 2.43 VHP 9.236 DPA -71.07 RAP 20.38 ECC 1.9082

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
70.88	22 38 53	4248.39	-15.07	184.08	182.15	59.47	23 49 42	3648.4	-19.01	177.22
109.12	3 31 10	3329.46	-15.05	115.63	182.14	59.46	4 26 40	2729.5	-18.99	108.76
70.88	22 38 53	4248.39	-15.07	184.08	182.15	59.47	23 49 42	3648.4	-19.01	177.22
109.12	3 31 10	3329.46	-15.05	115.63	182.14	59.46	4 26 40	2729.5	-18.99	108.76
110.00	4 19 13	3182.59	-19.66	106.93	184.87	61.45	5 12 15	2582.6	-23.31	99.70
110.00	2 53 57	3443.26	-10.56	121.65	179.30	57.30	3 51 20	2843.3	-14.79	115.11

DIFFERENTIAL CORRECTIONS

TOE-2.1563 TRA-2.7545 TC3 -.0366 BAU .1693
ROE 2.4250 RRA 1.8614 RC3 -.2266 FAU .00480
FOE 2.4900 FRA 2.0978 FC3 -.0753 BSP 12345
BOE 3.2451 BRA 3.3245 BC3 .2295 FSP -728

MID-COURSE EXECUTION ACCURACY

SGT 3048.4 SGR 2567.2 SG3 236.4
RRT -.9585 RRF .9948 RTF -.9780
SGB 3985.3 R23 -.0836 R13 .9950
SG1 3945.0 SG2 565.8 THA 140.11

ORBIT DETERMINATION ACCURACY

ST 1831.1 SR 1940.7 SS 1601.7
CRT -.9869 CRS -.9997 CST .9907
LSA 3103.8 MSA 226.3 SSA 3.4
EL1 2659.5 EL2 215.2 ALF 133.31

LAUNCH DATE SEP 21 1965 FLIGHT TIME 152.00 ARRIVAL DATE FEB 20 1966

HELIOCENTRIC CONIC DISTANCE 395.882

RL 150.19 LAL -.00 LOL 357.80 VL 27.129 GAL 4.87 AZL 73.84 HCA 167.72 SMA 128.69 ECC .18685 INC16.1581 VI 29.668
RP 107.61 LAP 3.39 LOP 165.99 VP 37.886 GAP -5.23 AZP 105.81 TAL 157.87 TAP 325.58 RCA 104.64 APO 152.73 V2 35.216
RC 52.701 GL 58.39 GP -69.99 ZAL 71.63 ZAP 70.88 ETS 68.75 ZAE 97.99 ETE 297.41 ZAC 94.85 ETC 147.35 CLP -16.77

PLANETOCENTRIC CONIC

C3 78.027 VHL 8.833 DLA 37.59 RAL 292.16 RAD 6569.5 VEL 14.120 PTH 2.57 VHP 10.953 DPA -70.51 RAP 44.15 ECC 2.2841

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
64.17	21 46 19	4443.80	-13.37	198.48	184.19	54.54	23 0 23	3843.8	-17.91	192.06
115.83	3 53 44	3299.74	-13.35	112.13	184.18	54.53	4 48 44	2699.7	-17.90	105.71
64.17	21 46 19	4443.80	-13.37	198.48	184.19	54.54	23 0 23	3843.8	-17.91	192.06
115.83	3 53 44	3299.74	-13.35	112.13	184.18	54.53	4 48 44	2699.7	-17.90	105.71
64.17	21 46 19	4443.80	-13.37	198.48	184.19	54.54	23 0 23	3843.8	-17.91	192.06
115.83	3 53 44	3299.74	-13.35	112.13	184.18	54.53	4 48 44	2699.7	-17.90	105.71

DIFFERENTIAL CORRECTIONS

TOE-3.2107 TRA-3.2224 TC3 -.0755 BAU .1346
ROE 3.0830 RRA 1.8122 RC3 -.1047 FAU-.00205
FOE 2.4224 FRA 1.7636 FC3 .0227 BSP 13058
BOE 4.4512 BRA 3.6970 BC3 .1290 FSP -580

MID-COURSE EXECUTION ACCURACY

SGT 3363.4 SGR 2496.7 SG3 184.4
RRT -.9590 RRF .9902 RTF -.9871
SGB 4188.8 R23 -.0534 R13 .9976
SG1 4149.3 SG2 573.9 THA 143.75

ORBIT DETERMINATION ACCURACY

ST 2227.8 SR 2048.7 SS 1542.4
CRT -.9896 CRS -.9987 CST .9956
LSA 3389.8 MSA 220.7 SSA 2.6
EL1 3018.8 EL2 217.3 ALF 137.42

LAUNCH DATE SEP 21 1965 FLIGHT TIME 154.00 ARRIVAL DATE FEB 22 1966

HELIOCENTRIC CONIC DISTANCE 402.309

RL 150.19 LAL -.00 LOL 357.80 VL 27.167 GAL 4.79 AZL 68.31 HCA 170.79 SMA 128.94 ECC .18421 INC21.6855 VI 29.668
RP 107.63 LAP 3.39 LOP 169.24 VP 37.905 GAP -4.73 AZP 111.43 TAL 157.85 TAP 328.65 RCA 105.19 APO 152.69 V2 35.208
RC 54.462 GL 62.17 GP -76.55 ZAL 75.93 ZAP 76.55 ETS 91.05 ZAE 89.62 ETE 320.79 ZAC 102.42 ETC 171.71 CLP .06

PLANETOCENTRIC CONIC

C3 127.945 VHL 11.311 DLA 40.48 RAL 287.41 RAD 6570.4 VEL 15.789 PTH 2.80 VHP 14.085 DPA -66.22 RAP 64.73 ECC 3.1056

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
59.77	21 6 20	4609.56	-9.73	209.46	185.83	50.51	22 23 9	4009.6	-14.75	203.50
120.23	3 55 52	3344.93	-9.72	113.05	185.82	50.50	4 51 37	2744.9	-14.74	107.09
59.77	21 6 20	4609.56	-9.73	209.46	185.83	50.51	22 23 9	4009.6	-14.75	203.50
120.23	3 55 52	3344.93	-9.72	113.05	185.82	50.50	4 51 37	2744.9	-14.74	107.09
59.77	21 6 20	4609.56	-9.73	209.46	185.83	50.51	22 23 9	4009.6	-14.75	203.50
120.23	3 55 52	3344.93	-9.72	113.05	185.82	50.50	4 51 37	2744.9	-14.74	107.09

DIFFERENTIAL CORRECTIONS

TOE-6.1330 TRA-4.2848 TC3 -.1462 BAU .2553
ROE 2.0517 RRA .4213 RC3 -.0301 FAU-.00999
FOE 2.3629 FRA 1.4782 FC3 .0676 BSP 13603
BOE 6.4670 BRA 4.3055 BC3 .1493 FSP -431

MID-COURSE EXECUTION ACCURACY

SGT 4231.2 SGR 1078.6 SG3 134.5
RRT -.8779 RRF .8988 RTF -.9983
SGB 4366.5 R23 -.0204 R13 .9992
SG1 4337.4 SG2 503.8 THA 167.21

ORBIT DETERMINATION ACCURACY

ST 3222.4 SR 1042.6 SS 1500.3
CRT -.9824 CRS -.9870 CST .9996
LSA 3699.6 MSA 186.3 SSA 1.9
EL1 3381.8 EL2 185.8 ALF 162.31

LAUNCH DATE SEP 21 1965 FLIGHT TIME 156.00 ARRIVAL DATE FEB 24 1966

HELIOCENTRIC CONIC DISTANCE 408.521

RL 150.19 LAL -.00 LOL 357.80 VL 27.199 GAL 4.76 AZL 57.56 HCA 173.70 SMA 129.16 ECC .18218 INC32.4423 VI 29.668
RP 107.66 LAP 3.38 LOP 172.48 VP 37.921 GAP -4.30 AZP 122.29 TAL 157.69 TAP 331.39 RCA 105.63 APO 152.69 V2 35.200
RC 56.291 GL 63.28 GP -77.81 ZAL 80.32 ZAP 81.56 ETS 151.55 ZAE 79.47 ETE 22.12 ZAC 112.33 ETC 234.95 CLP 45.97

PLANETOCENTRIC CONIC

C3 265.011 VHL 16.279 DLA 40.63 RAL 281.56 RAD 6571.5 VEL 19.655 PTH 3.12 VHP 20.457 DPA -57.63 RAP 78.27 ECC 5.3614

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
59.55	20 42 1	4730.26	-4.59	215.42	186.20	49.59	22 0 51	4130.3	-9.74	209.66
120.45	3 33 28	3460.25	-4.58	118.55	186.19	49.59	4 31 9	2860.2	-9.73	112.80
59.55	20 42 1	4730.26	-4.59	215.42	186.20	49.59	22 0 51	4130.3	-9.74	209.66
120.45	3 33 28	3460.25	-4.58	118.55	186.19	49.59	4 31 9	2860.2	-9.73	112.80
59.55	20 42 1	4730.26	-4.59	215.42	186.20	49.59	22 0 51	4130.3	-9.74	209.66
120.45	3 33 28	3460.25	-4.58	118.55	186.19	49.59	4 31 9	2860.2	-9.73	112.80

DIFFERENTIAL CORRECTIONS

TOE-6.7611 TRA-2.7715 TC3 -.1625 BAU .8972
ROE-7.5401 RRA-4.7515 RC3 -.1942 FAU-.02226
FOE 2.4843 FRA 1.3648 FC3 .0727 BSP 13858
BOE10.1275 BRA 5.5007 BC3 .2532 FSP -309

MID-COURSE EXECUTION ACCURACY

SGT 2755.8 SGR 3506.8 SG3 95.5
RRT .9811 RRF -.9973 RTF -.9915
SGB 4460.1 R23 -.0066 R13 -.9995
SG1 4440.2 SG2 420.9 THA 51.96

ORBIT DETERMINATION ACCURACY

ST 2410.7 SR 2734.9 SS 1581.6
CRT .9965 CRS .9995 CST .9986
LSA 3971.1 MSA 151.2 SSA 1.7
EL1 3642.6 EL2 150.9 ALF 48.62

LAUNCH DATE SEP 21 1965 FLIGHT TIME 158.00 ARRIVAL DATE FEB 26 1966

HELIOCENTRIC CONIC DISTANCE 414.066

RL 150.19 LAL -.00 LOL 357.80 VL 27.228 GAL 4.85 AZL 31.83 HCA 176.06 SMA 129.36 ECC .18138 INC58.1744 V1 29.668
RP 107.69 LAP 3.35 LOP 175.72 VP 37.933 GAP -4.04 AZP 148.11 TAL 157.04 TAP 333.10 RCA 105.90 APO 152.82 V2 35.191
RC 58.184 GL 55.90 GP -64.60 ZAL 84.26 ZAP 85.39 ETS 178.12 ZAE 64.25 ETE 47.01 ZAC 129.11 ETC 264.76 CLP 79.21

PLANETOCENTRIC CONIC

C3 774.974 VHL 27.838 DLA 32.61 RAL 275.37 RAD 6572.8 VEL 29.938 PTH 3.45 VHP 35.352 DPA -41.16 RAP 85.46 ECC13.7541

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
73.12	21 31 5	4607.74	-.26	202.41	184.98	57.39	22 47 53	4007.7	-4.56	196.07
106.88	1 55 4	3776.08	-.24	140.69	184.97	57.39	2 58 0	3176.1	-4.54	134.35
73.12	21 31 5	4607.74	-.26	202.41	184.98	57.39	22 47 53	4007.7	-4.56	196.07
106.88	1 55 4	3776.08	-.24	140.69	184.97	57.39	2 58 0	3176.1	-4.54	134.35
110.00	5 32 57	3474.40	-9.41	123.32	190.89	56.98	4 30 51	2874.4	-13.69	116.84
110.00	0 56 19	3957.41	8.89	148.74	179.06	56.86	2 2 16	3357.4	4.47	142.45

DIFFERENTIAL CORRECTIONS

TDE-6.1472 TRA -.5776 TC3 -.1137 BAU 3.2169
RD-14.8630 RRA-8.2174 RC3 -.2889 FAU-.05803
FDE 3.1316 FRA 1.7290 FC3 .0648 BSP 13183
BDE16.0840 BRA 8.2376 BC3 .3105 FSP -238

MID-COURSE EXECUTION ACCURACY

SGT 1421.8 SGR 3997.0 SG3 73.5
RRT .9101 RRF -.9997 RTF -.9121
SGB 4242.4 R23 -.0384 R13 -.9990
SG1 4205.2 SG2 560.0 THA 71.73

ORBIT DETERMINATION ACCURACY

ST 1266.0 SR 3118.1 SS 2006.6
CRT .9871 CRS 1.0000 CST .9871
LSA 3913.5 MSA 192.1 SSA 1.8
EL1 3360.1 EL2 188.3 ALF 68.09

LAUNCH DATE SEP 21 1965 FLIGHT TIME 160.00 ARRIVAL DATE FEB 28 1966

HELIOCENTRIC CONIC DISTANCE 425.553

RL 150.19 LAL -.00 LOL 357.80 VL 27.253 GAL 3.90 AZL 160.75 HCA 183.51 SMA 129.53 ECC .17304 INC70.7491 V1 29.668
RP 107.72 LAP 3.31 LOP 178.96 VP 37.942 GAP -2.31 AZP 19.28 TAL 160.74 TAP 344.25 RCA 107.12 APO 151.95 V2 35.181
RC 60.133 GL -50.94 GP 57.18 ZAL 85.95 ZAP 87.72 ETS 189.80 ZAE 71.78 ETE 313.97 ZAC 108.60 ETC 96.95 CLP 85.79

PLANETOCENTRIC CONIC

C31092.852 VHL 33.058 DLA -74.24 RAL 279.89 RAD 6573.0 VEL 34.844 PTH 3.51 VHP 42.772 DPA 79.73 RAP 56.56 ECC18.9856

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
17.97	6 36 55	2453.09	-.66	80.65	190.06	164.24	7 17 48	1853.1	7.04	78.88
162.03	17 25 17	676.48	-.65	285.56	190.09	164.24	17 36 33	76.5	7.05	283.80
17.97	6 36 55	2453.09	-.66	80.65	190.06	164.24	7 17 48	1853.1	7.04	78.88
162.03	17 25 17	676.48	-.65	285.56	190.09	164.24	17 36 33	76.5	7.05	283.80
17.97	6 36 55	2453.09	-.66	80.65	190.06	164.24	7 17 48	1853.1	7.04	78.88
162.03	17 25 17	676.48	-.65	285.56	190.09	164.24	17 36 33	76.5	7.05	283.80

DIFFERENTIAL CORRECTIONS

TDE 9.6766 TRA -.8591 TC3 -.1570 BAU 4.5962
RD-12.6521 RRA 3.2355 RC3 .2726 FAU-.07962
FDE-3.2962 FRA .7278 FC3 .0631 BSP 12269
BDE15.9284 BRA 3.3476 BC3 .3146 FSP -224

MID-COURSE EXECUTION ACCURACY

SGT 2047.2 SGR 3509.9 SG3 73.1
RRT -.9297 RRF .9977 RTF -.9500
SGB 4063.3 R23 -.0314 R13 .9991
SG1 4009.3 SG2 660.0 THA 119.34

ORBIT DETERMINATION ACCURACY

ST 1685.5 SR 2279.3 SS 2173.6
CRT -.9843 CRS -.9993 CST .9900
LSA 3563.8 MSA 244.5 SSA 2.5
EL1 2824.6 EL2 240.2 ALF 126.35

LAUNCH DATE SEP 21 1965 FLIGHT TIME 162.00 ARRIVAL DATE MAR 2 1966

HELIOCENTRIC CONIC DISTANCE 430.607

RL 150.19 LAL -.00 LOL 357.80 VL 27.275 GAL 4.11 AZL 126.67 HCA 185.47 SMA 129.68 ECC .17325 INC36.6653 V1 29.668
RP 107.75 LAP 3.27 LOP 182.20 VP 37.948 GAP -2.18 AZP 53.46 TAL 159.67 TAP 345.14 RCA 107.22 APO 152.15 V2 35.171
RC 62.133 GL -63.18 GP 77.00 ZAL 82.30 ZAP 86.06 ETS 212.00 ZAE 89.18 ETE 331.25 ZAC 88.55 ETC 115.32 CLP 72.20

PLANETOCENTRIC CONIC

C3 331.339 VHL 18.203 DLA -82.79 RAL 339.19 RAD 6571.9 VEL 21.275 PTH 3.20 VHP 23.673 DPA 76.59 RAP 300.20 ECC 6.4530

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
8.20	10 14 9	2380.65	5.17	84.95	248.52	172.76	10 53 50	1780.7	13.11	84.33
171.80	21 41 7	5863.76	5.18	258.21	248.54	172.76	23 18 51	5263.8	13.11	257.60
8.20	10 14 9	2380.65	5.17	84.95	248.52	172.76	10 53 50	1780.7	13.11	84.33
171.80	21 41 7	5863.76	5.18	258.21	248.54	172.76	23 18 51	5263.8	13.11	257.60
8.20	10 14 9	2380.65	5.17	84.95	248.52	172.76	10 53 50	1780.7	13.11	84.33
171.80	21 41 7	5863.76	5.18	258.21	248.54	172.76	23 18 51	5263.8	13.11	257.60

DIFFERENTIAL CORRECTIONS

TDE .4732 TRA-1.3442 TC3 -.2093 BAU 1.3210
RDE 2.1398 RRA 1.2435 RC3 .2124 FAU-.02404
FDE .3151 FRA .4200 FC3 .0628 BSP 14720
BDE 2.1915 BRA 1.8312 BC3 .2982 FSP -294

MID-COURSE EXECUTION ACCURACY

SGT 3459.5 SGR 3283.1 SG3 93.5
RRT -.9688 RRF .9930 RTF -.9909
SGB 4769.4 R23 -.0151 R13 .9997
SG1 4732.1 SG2 595.1 THA 136.55

ORBIT DETERMINATION ACCURACY

ST 1022.6 SR 1153.1 SS 677.5
CRT -.7179 CRS -.9493 CST .9003
LSA 1582.7 MSA 573.9 SSA 1.2
EL1 1430.4 EL2 573.8 ALF 130.24

LAUNCH DATE SEP 21 1965 FLIGHT TIME 164.00 ARRIVAL DATE MAR 4 1966

HELIOCENTRIC CONIC DISTANCE 436.612

RL 150.19 LAL -.00 LOL 357.80 VL 27.293 GAL 4.16 AZL 112.89 HCA 188.27 SMA 129.81 ECC .17257 INC22.8853 V1 29.668
RP 107.78 LAP 3.21 LOP 185.43 VP 37.952 GAP -1.82 AZP 67.33 TAL 159.30 TAP 347.58 RCA 107.41 APO 152.21 V2 35.160
RC 64.180 GL -63.82 GP 84.52 ZAL 77.95 ZAP 84.78 ETS 266.14 ZAE 98.72 ETE 22.65 ZAC 78.37 ETC 165.10 CLP 17.75

PLANETOCENTRIC CONIC

C3 139.148 VHL 11.796 DLA -78.83 RAL 358.04 RAD 6570.5 VEL 16.139 PTH 2.84 VHP 15.365 DPA 66.48 RAP 291.30 ECC 3.2900

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
12.72	11 38 9	2246.52	13.72	81.20	265.26	168.49	12 15 35	1646.5	21.56	79.90
167.28	22 47 31	5739.95	13.73	258.82	265.28	168.49	24 23 11	5140.0	21.56	257.53
12.72	11 38 9	2246.52	13.72	81.20	265.26	168.49	12 15 35	1646.5	21.56	79.90
167.28	22 47 31	5739.95	13.73	258.82	265.28	168.49	24 23 11	5140.0	21.56	257.53
12.72	11 38 9	2246.52	13.72	81.20	265.26	168.49	12 15 35	1646.5	21.56	79.90
167.28	22 47 31	5739.95	13.73	258.82	265.28	168.49	24 23 11	5140.0	21.56	257.53

DIFFERENTIAL CORRECTIONS

TDE-4.1517 TRA-1.7508 TC3 -.1768 BAU .3311
RDE .3681 RRA -.3926 RC3 .0201 FAU-.00560
FDE 1.2976 FRA .5579 FC3 .0348 BSP 15480
BDE 4.1679 BRA 1.7943 BC3 .1780 FSP -422

MID-COURSE EXECUTION ACCURACY

SGT 4848.0 SGR 1001.4 SG3 132.7
RRT .8114 RRF -.8189 RTF -.9994
SGB 4950.3 R23 .0063 R13 -.9995
SG1 4916.5 SG2 577.2 THA 9.65

ORBIT DETERMINATION ACCURACY

ST 2408.4 SR 345.2 SS 1005.1
CRT .0339 CRS .0427 CST 1.0000
LSA 2609.7 MSA 345.1 SSA 1.8
EL1 2408.4 EL2 345.0 ALF .28

LAUNCH DATE SEP 21 1965 FLIGHT TIME 166.00 ARRIVAL DATE MAR 6 1966

HELIOCENTRIC CONIC DISTANCE 442.864

RL 150.19 LAL -.00 LOL 357.80 VL 27.308 GAL 4.17 AZL 106.23 HCA 191.30 SMA 129.92 ECC .17182 INC16.2321 V1 29.668
RP 107.81 LAP 3.14 LOP 188.67 VP 37.952 GAP -1.40 AZP 74.07 TAL 159.11 TAP 350.42 RCA 107.59 APO 152.24 V2 35.149
RC 66.268 GL -60.57 GP 82.04 ZAL 73.59 ZAP 84.29 ETS 307.82 ZAE 105.04 ETE 62.08 ZAC 71.81 ETC 202.29 CLP -44.05

PLANETOCENTRIC CONIC

C3 76.404 VHL 8.741 DLA -74.41 RAL 353.18 RAD 6569.5 VEL 14.063 PTH 2.56 VHP 11.341 DPA 59.62 RAP 289.59 ECC 2.2574

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
17.78	11 28 55	2111.58	21.72	75.60	256.79	163.18	12 4 7	1511.6	29.35	73.37
162.22	22 18 2	5622.26	21.72	258.23	256.81	163.18	23 51 45	5022.3	29.36	256.00
17.78	11 28 55	2111.58	21.72	75.60	256.79	163.18	12 4 7	1511.6	29.35	73.37
162.22	22 18 2	5622.26	21.72	258.23	256.81	163.18	23 51 45	5022.3	29.36	256.00
17.78	11 28 55	2111.58	21.72	75.60	256.79	163.18	12 4 7	1511.6	29.35	73.37
162.22	22 18 2	5622.26	21.72	258.23	256.81	163.18	23 51 45	5022.3	29.36	256.00

DIFFERENTIAL CORRECTIONS
TDE-2.1716 TRA-1.1108 TC3 -.0661 BAU .1161
RDE-1.5857 RRA-1.5737 RC3 .0924 FAU .00531
FDE 1.1780 FRA .8375 FC3 -.0602 BSP 15756
BDE 2.6889 BRA 1.9262 BC3 .1136 FSP -604

MID-COURSE EXECUTION ACCURACY
SGT 3062.2 SGR 3978.9 SG3 188.9
RRT .9730 RRF -.9953 RTF -.9889
SGB 5020.8 R23 .0026 R13 -.9992
SG1 4989.1 SG2 563.5 THA 52.61

ORBIT DETERMINATION ACCURACY
ST 1639.1 SR 1551.0 SS 965.9
CRT .9500 CRS .9863 CST .9885
LSA 2428.6 MSA 356.4 SSA 2.5
EL1 2228.3 EL2 356.4 ALF 43.34

LAUNCH DATE SEP 21 1965 FLIGHT TIME 168.00 ARRIVAL DATE MAR 8 1966

HELIOCENTRIC CONIC DISTANCE 449.193

RL 150.19 LAL -.00 LOL 357.80 VL 27.321 GAL 4.18 AZL 102.39 HCA 194.42 SMA 130.00 ECC .17120 INC12.3946 V1 29.668
RP 107.85 LAP 3.06 LOP 191.90 VP 37.950 GAP -.97 AZP 77.98 TAL 158.96 TAP 353.38 RCA 107.74 APO 152.26 V2 35.138
RC 68.394 GL -56.11 GP 77.53 ZAL 69.43 ZAP 84.63 ETS 326.75 ZAE 109.84 ETE 79.18 ZAC 66.72 ETC 216.83 CLP -64.33

PLANETOCENTRIC CONIC

C3 49.640 VHL 7.046 DLA -69.90 RAL 346.70 RAD 6568.8 VEL 13.077 PTH 2.39 VHP 9.057 DPA 54.25 RAP 288.71 ECC 1.8169

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
22.98	11 13 54	1995.06	27.72	68.66	245.60	157.16	11 47 9	1395.1	35.04	65.30
157.02	21 41 19	5530.24	27.73	256.63	245.62	157.15	23 13 29	4930.2	35.05	253.27
22.98	11 13 54	1995.06	27.72	68.66	245.60	157.16	11 47 9	1395.1	35.04	65.30
157.02	21 41 19	5530.24	27.73	256.63	245.62	157.15	23 13 29	4930.2	35.05	253.27
22.98	11 13 54	1995.06	27.72	68.66	245.60	157.16	11 47 9	1395.1	35.04	65.30
157.02	21 41 19	5530.24	27.73	256.63	245.62	157.15	23 13 29	4930.2	35.05	253.27

DIFFERENTIAL CORRECTIONS
TDE-1.1101 TRA -.5982 TC3 -.0671 BAU .2206
RDE-1.2487 RRA-1.9560 RC3 .3256 FAU .01472
FDE 1.0113 FRA 1.2070 FC3 -.2566 BSP 15852
BDE 1.6708 BRA 2.0454 BC3 .3325 FSP -830

MID-COURSE EXECUTION ACCURACY
SGT 1681.6 SGR 4760.6 SG3 258.7
RRT .9275 RRF -.9977 RTF -.9437
SGB 5048.9 R23 .0096 R13 -.9988
SG1 5013.5 SG2 596.9 THA 71.59

ORBIT DETERMINATION ACCURACY
ST 997.7 SR 1720.3 SS 929.4
CRT .8777 CRS .9911 CST .9336
LSA 2153.9 MSA 423.5 SSA 3.3
EL1 1943.1 EL2 423.3 ALF 61.55

LAUNCH DATE SEP 21 1965 FLIGHT TIME 170.00 ARRIVAL DATE MAR 10 1966

HELIOCENTRIC CONIC DISTANCE 455.546

RL 150.19 LAL -.00 LOL 357.80 VL 27.330 GAL 4.20 AZL 99.91 HCA 197.57 SMA 130.07 ECC .17078 INC 9.9054 V1 29.668
RP 107.89 LAP 2.98 LOP 195.13 VP 37.946 GAP -.53 AZP 80.55 TAL 158.81 TAP 356.38 RCA 107.85 APO 152.28 V2 35.126
RC 70.553 GL -51.33 GP 73.32 ZAL 65.58 ZAP 85.76 ETS 338.18 ZAE 113.73 ETE 89.28 ZAC 62.33 ETC 224.06 CLP -75.07

PLANETOCENTRIC CONIC

C3 36.064 VHL 6.005 DLA -65.35 RAL 341.36 RAD 6568.4 VEL 12.547 PTH 2.27 VHP 7.615 DPA 49.68 RAP 287.85 ECC 1.5935

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
28.28	11 4 21	1898.13	31.56	60.83	234.97	150.69	11 35 59	1298.1	38.44	56.26
151.72	21 8 15	5466.29	31.57	254.55	234.99	150.69	22 39 21	4866.3	38.45	249.98
28.28	11 4 21	1898.13	31.56	60.83	234.97	150.69	11 35 59	1298.1	38.44	56.26
151.72	21 8 15	5466.29	31.57	254.55	234.99	150.69	22 39 21	4866.3	38.45	249.98
28.28	11 4 21	1898.13	31.56	60.83	234.97	150.69	11 35 59	1298.1	38.44	56.26
151.72	21 8 15	5466.29	31.57	254.55	234.99	150.69	22 39 21	4866.3	38.45	249.98

DIFFERENTIAL CORRECTIONS
TDE -.6658 TRA -.2276 TC3 -.1537 BAU .2951
RDE -.8710 RRA-2.1244 RC3 .5925 FAU .02383
FDE .8986 FRA 1.6433 FC3 -.5721 BSP 15863
BDE 1.0963 BRA 2.1366 BC3 .6121 FSP -1090

MID-COURSE EXECUTION ACCURACY
SGT 841.8 SGR 4980.7 SG3 338.3
RRT .6979 RRF -.9980 RTF -.7204
SGB 5051.4 R23 .0190 R13 -.9984
SG1 5015.8 SG2 598.6 THA 83.17

ORBIT DETERMINATION ACCURACY
ST 654.2 SR 1678.1 SS 932.1
CRT .6882 CRS .9913 CST .7776
LSA 1975.3 MSA 459.5 SSA 4.1
EL1 1742.1 EL2 457.2 ALF 73.84

LAUNCH DATE SEP 21 1965 FLIGHT TIME 172.00 ARRIVAL DATE MAR 12 1966

HELIOCENTRIC CONIC DISTANCE 461.900

RL 150.19 LAL -.00 LOL 357.80 VL 27.337 GAL 4.22 AZL 98.16 HCA 200.74 SMA 130.12 ECC .17057 INC 8.1567 V1 29.668
RP 107.92 LAP 2.88 LOP 198.35 VP 37.940 GAP -.09 AZP 82.37 TAL 158.64 TAP 359.38 RCA 107.92 APO 152.31 V2 35.114
RC 72.741 GL -46.59 GP 69.45 ZAL 62.05 ZAP 87.59 ETS 346.74 ZAE 116.95 ETE 97.07 ZAC 58.30 ETC 228.71 CLP -83.14

PLANETOCENTRIC CONIC

C3 28.353 VHL 5.325 DLA -60.86 RAL 337.26 RAD 6568.1 VEL 12.236 PTH 2.20 VHP 6.640 DPA 45.56 RAP 286.84 ECC 1.4666

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
33.58	11 0 36	1816.61	33.57	52.67	225.53	144.24	11 30 53	1216.6	39.92	47.00
146.42	20 39 16	5426.81	33.58	252.54	225.54	144.23	22 9 43	4826.8	39.93	246.87
33.58	11 0 36	1816.61	33.57	52.67	225.53	144.24	11 30 53	1216.6	39.92	47.00
146.42	20 39 16	5426.81	33.58	252.54	225.54	144.23	22 9 43	4826.8	39.93	246.87
33.58	11 0 36	1816.61	33.57	52.67	225.53	144.24	11 30 53	1216.6	39.92	47.00
146.42	20 39 16	5426.81	33.58	252.54	225.54	144.23	22 9 43	4826.8	39.93	246.87

DIFFERENTIAL CORRECTIONS
TDE -.4424 TRA .0939 TC3 -.3096 BAU .3432
RDE -.6351 RRA-2.2041 RC3 .8509 FAU .03286
FDE .8501 FRA 2.1256 FC3-1.0033 BSP 15866
BDE .7740 BRA 2.2061 BC3 .9055 FSP -1374

MID-COURSE EXECUTION ACCURACY
SGT 615.1 SGR 5001.1 SG3 423.7
RRT -.3199 RRF -.9980 RTF .2956
SGB 5038.8 R23 .0296 R13 -.9978
SG1 5005.0 SG2 582.3 THA 92.28

ORBIT DETERMINATION ACCURACY
ST 480.2 SR 1613.3 SS 964.0
CRT .3022 CRS .9905 CST .4306
LSA 1883.3 MSA 464.6 SSA 5.0
EL1 1620.4 EL2 455.7 ALF 84.42

LAUNCH DATE SEP 21 1965 FLIGHT TIME 174.00 ARRIVAL DATE MAR 14 1966

HELIOCENTRIC CONIC DISTANCE 468.246

RL	150.19	LAL	-.00	LOL	357.80	VL	27.342	GAL	4.26	AZL	96.86	HCA	203.92	SMA	130.15	ECC	.17058	INC	6.8560	VI	29.668
RP	107.96	LAP	2.77	LOP	201.57	VP	37.932	GAP	.34	AZP	83.73	TAL	158.45	TAP	2.37	RCA	107.95	APO	152.35	V2	35.101
RC	74.954	GL	-42.04	GP	65.79	ZAL	58.87	ZAP	90.04	ETS	353.81	ZAE	119.64	ETE	104.00	ZAC	54.46	ETC	232.21	CLP	-90.11

PLANETOCENTRIC CONIC

C3 23.629 VHL 4.861 DLA -56.53 RAL 334.13 RAD 6568.0 VEL 12.042 PTH 2.15 VHP 5.951 DPA 41.73 RAP 285.69 ECC 1.3889

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
38.79	11 1 37	1745.71	34.19	44.61	217.43	138.19	11 30 43	1145.7	39.96	38.08
141.21	20 13 17	5407.60	34.20	251.03	217.44	138.18	21 43 24	4807.6	39.97	244.50
38.79	11 1 37	1745.71	34.19	44.61	217.43	138.19	11 30 43	1145.7	39.96	38.08
141.21	20 13 17	5407.60	34.20	251.03	217.44	138.18	21 43 24	4807.6	39.97	244.50
38.79	11 1 37	1745.71	34.19	44.61	217.43	138.19	11 30 43	1145.7	39.96	38.08
141.21	20 13 17	5407.60	34.20	251.03	217.44	138.18	21 43 24	4807.6	39.97	244.50

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-.3052	TRA	.3970	TC3	-.5243	BAU	.3765	SGT	1053.3	SGR	4912.3	SG3	510.4	ST	441.0	SR	1547.2	SS	1013.5
RDE	-.5020	RRA	-2.2290	RC3	1.0703	FAU	.04149	RRT	-.8428	RRF	-.9978	RTF	.8300	CRT	-.2221	CRS	.9889	CST	-.0751
FDE	.8615	FRA	2.6335	FC3	-1.5202	BSP	15805	SGB	5024.0	R23	.0406	R13	-.9972	LSA	1847.1	MSA	451.4	SSA	5.8
BDE	.5875	BRA	2.2641	BC3	1.1918	FSP	-1663	SGI	4992.9	SG2	557.8	THA	100.37	ELI	1550.6	EL2	429.0	ALF	93.92

LAUNCH DATE SEP 21 1965 FLIGHT TIME 176.00 ARRIVAL DATE MAR 16 1966

HELIOCENTRIC CONIC DISTANCE 474.578

RL	150.19	LAL	-.00	LOL	357.80	VL	27.344	GAL	4.31	AZL	95.85	HCA	207.11	SMA	130.17	ECC	.17081	INC	5.8460	VI	29.668
RP	108.00	LAP	2.66	LOP	204.79	VP	37.922	GAP	.78	AZP	84.79	TAL	158.22	TAP	5.33	RCA	107.93	APO	152.40	V2	35.089
RC	77.191	GL	-37.74	GP	62.27	ZAL	56.02	ZAP	93.00	ETS	359.90	ZAE	121.85	ETE	110.53	ZAC	50.72	ETC	235.03	CLP	-96.47

PLANETOCENTRIC CONIC

C3 20.590 VHL 4.538 DLA -52.42 RAL 331.72 RAD 6567.8 VEL 11.915 PTH 2.12 VHP 5.455 DPA 38.07 RAP 284.45 ECC 1.3389

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
43.86	11 6 31	1681.36	33.82	36.89	210.67	132.76	11 34 32	1081.4	39.03	29.75
136.14	19 49 11	5405.30	33.83	250.32	210.68	132.76	21 19 16	4805.3	39.04	243.18
43.86	11 6 31	1681.36	33.82	36.89	210.67	132.76	11 34 32	1081.4	39.03	29.75
136.14	19 49 11	5405.30	33.83	250.32	210.68	132.76	21 19 16	4805.3	39.04	243.18
43.86	11 6 31	1681.36	33.82	36.89	210.67	132.76	11 34 32	1081.4	39.03	29.75
136.14	19 49 11	5405.30	33.83	250.32	210.68	132.76	21 19 16	4805.3	39.04	243.18

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-.2024	TRA	.6905	TC3	-.7830	BAU	.4014	SGT	1616.8	SGR	4748.8	SG3	594.3	ST	499.7	SR	1479.2	SS	1073.2
RDE	-.4310	RRA	-2.2140	RC3	1.2302	FAU	.04931	RRT	-.9386	RRF	-.9976	RTF	.9305	CRT	-.6106	CRS	.9869	CST	-.4750
FDE	.9252	FRA	3.1458	FC3	-2.0732	BSP	15702	SGB	5016.5	R23	.0513	R13	-.9964	LSA	1845.1	MSA	430.5	SSA	6.6
BDE	.4762	BRA	2.3192	BC3	1.4583	FSP	-1940	SGI	4988.3	SG2	530.8	THA	107.93	ELI	1512.6	EL2	387.0	ALF	102.49

LAUNCH DATE SEP 21 1965 FLIGHT TIME 178.00 ARRIVAL DATE MAR 18 1966

HELIOCENTRIC CONIC DISTANCE 480.893

RL	150.19	LAL	-.00	LOL	357.80	VL	27.345	GAL	4.37	AZL	95.03	HCA	210.30	SMA	130.17	ECC	.17125	INC	5.0349	VI	29.668
RP	108.04	LAP	2.54	LOP	208.01	VP	37.910	GAP	1.20	AZP	85.65	TAL	157.95	TAP	8.25	RCA	107.88	APO	152.46	V2	35.076
RC	79.446	GL	-33.72	GP	58.83	ZAL	53.47	ZAP	96.37	ETS	5.18	ZAE	123.60	ETE	116.83	ZAC	47.06	ETC	237.37	CLP	-102.38

PLANETOCENTRIC CONIC

C3 18.576 VHL 4.310 DLA -48.54 RAL 329.85 RAD 6567.8 VEL 11.830 PTH 2.10 VHP 5.094 DPA 34.53 RAP 283.18 ECC 1.3057

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
48.78	11 14 44	1620.21	32.79	29.56	205.14	128.03	11 41 44	1020.2	37.47	22.04
131.22	19 26 3	5417.68	32.80	250.54	205.15	128.02	20 56 20	4817.7	37.48	243.02
48.78	11 14 44	1620.21	32.79	29.56	205.14	128.03	11 41 44	1020.2	37.47	22.04
131.22	19 26 3	5417.68	32.80	250.54	205.15	128.02	20 56 20	4817.7	37.48	243.02
48.78	11 14 44	1620.21	32.79	29.56	205.14	128.03	11 41 44	1020.2	37.47	22.04
131.22	19 26 3	5417.68	32.80	250.54	205.15	128.02	20 56 20	4817.7	37.48	243.02

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-.1115	TRA	.9753	TC3	-1.0670	BAU	.4242	SGT	2168.4	SGR	4520.7	SG3	669.7	ST	606.5	SR	1402.0	SS	1133.4
RDE	-.3896	RRA	-2.1624	RC3	1.3338	FAU	.05636	RRT	-.9672	RRF	-.9972	RTF	.9609	CRT	-.8106	CRS	.9843	CST	-.6946
FDE	1.0219	FRA	3.6300	FC3	-2.6267	BSP	15690	SGB	5013.9	R23	.0611	R13	-.9955	LSA	1858.1	MSA	406.7	SSA	7.4
BDE	.4052	BRA	2.3722	BC3	1.7081	FSP	-2203	SGI	4988.9	SG2	499.1	THA	115.16	ELI	1490.6	EL2	334.1	ALF	110.39

LAUNCH DATE SEP 21 1965 FLIGHT TIME 180.00 ARRIVAL DATE MAR 20 1966

HELIOCENTRIC CONIC DISTANCE 487.188

RL	150.19	LAL	-.00	LOL	357.80	VL	27.343	GAL	4.44	AZL	94.37	HCA	213.50	SMA	130.16	ECC	.17191	INC	4.3656	VI	29.668
RP	108.08	LAP	2.41	LOP	211.22	VP	37.897	GAP	1.63	AZP	86.36	TAL	157.65	TAP	11.15	RCA	107.78	APO	152.53	V2	35.063
RC	81.719	GL	-29.99	GP	55.45	ZAL	51.20	ZAP	100.04	ETS	9.77	ZAE	124.93	ETE	122.89	ZAC	43.48	ETC	239.25	CLP	-107.90

PLANETOCENTRIC CONIC

C3 17.231 VHL 4.151 DLA -44.90 RAL 328.39 RAD 6567.7 VEL 11.773 PTH 2.08 VHP 4.836 DPA 31.08 RAP 281.94 ECC 1.2836

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
53.57	11 26 3	1559.41	31.34	22.54	200.70	123.97	11 52 2	959.4	35.55	14.80
126.43	19 3 5	5443.47	31.35	251.75	200.71	123.96	20 33 48	4843.5	35.57	244.01
53.57	11 26 3	1559.41	31.34	22.54	200.70	123.97	11 52 2	959.4	35.55	14.80
126.43	19 3 5	5443.47	31.35	251.75	200.71	123.96	20 33 48	4843.5	35.57	244.01
53.57	11 26 3	1559.41	31.34	22.54	200.70	123.97	11 52 2	959.4	35.55	14.80
126.43	19 3 5	5443.47	31.35	251.75	200.71	123.96	20 33 48	4843.5	35.57	244.01

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-.0229	TRA	1.2506	TC3	-1.3585	BAU	.4453	SGT	2685.4	SGR	4251.9	SG3	733.5	ST	732.5	SR	1319.7	SS	1193.4
RDE	-.3649	RRA	-2.0859	RC3	1.3752	FAU	.06215	RRT	-.9789	RRF	-.9968	RTF	.9735	CRT	-.9069	CRS	.9812	CST	-.8086
FDE	1.1442	FRA	4.0689	FC3	-3.1223	BSP	15714	SGB	5028.9	R23	.0688	R13	-.9945	LSA	1885.6	MSA	383.5	SSA	8.2
BDE	.3656	BRA	2.4321	BC3	1.9331	FSP	-2432	SGI	5007.2	SG2	466.2	THA	122.04	ELI	1484.2	EL2	274.5	ALF	117.75

LAUNCH DATE SEP 21 1965 FLIGHT TIME 182.00 ARRIVAL DATE MAR 22 1966

HELIOCENTRIC CONIC DISTANCE 493.461

RL 150.19 LAL -.00 LOL 357.80 VL 27.340 GAL 4.53 AZL 93.80 HCA 216.69 SMA 130.13 ECC .17278 INC 3.8008 V1 29.668
RP 108.12 LAP 2.27 LOP 214.43 VP 37.883 GAP 2.05 AZP 86.95 TAL 157.31 TAP 14.00 RCA 107.65 APO 152.62 V2 35.050
RC 84.008 GL -26.54 GP 52.13 ZAL 49.18 ZAP 103.91 ETS 13.72 ZAE 125.85 ETE 128.68 ZAC 39.99 ETC 240.69 CLP-113.05

PLANETOCENTRIC CONIC

C3 16.348 VHL 4.043 DLA -41.51 RAL 327.25 RAD 6567.7 VEL 11.736 PTH 2.07 VHP 4.657 DPA 27.72 RAP 280.78 ECC 1.2690

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
58.28	11 40 33	1496.16	29.65	15.67	197.20	120.49	12 5 29	896.2	33.45	7.82
121.72	18 39 29	5482.54	29.66	254.00	197.21	120.48	20 10 51	4882.5	33.47	246.15
58.28	11 40 33	1496.16	29.65	15.67	197.20	120.49	12 5 29	896.2	33.45	7.82
121.72	18 39 29	5482.54	29.66	254.00	197.21	120.48	20 10 51	4882.5	33.47	246.15
58.28	11 40 33	1496.16	29.65	15.67	197.20	120.49	12 5 29	896.2	33.45	7.82
121.72	18 39 29	5482.54	29.66	254.00	197.21	120.48	20 10 51	4882.5	33.47	246.15

DIFFERENTIAL CORRECTIONS
TDE .0678 TRA 1.5154 TC3-1.6409 BAU .4658
RDE -.3468 RRA-1.9920 RC3 1.3603 FAU .06639
FDE 1.2788 FRA 4.4448 FC3-3.5156 BSP 15794
BDE .3533 BRA 2.5029 BC3 2.1314 FSP -2615

MID-COURSE EXECUTION ACCURACY
SGT 3161.1 SGR 3957.3 SG3 782.9
RRT -.9845 RRF -.9962 RTF .9798
SGB 5064.8 R23 .0738 R13 -.9935
SG1 5046.2 SG2 434.5 THA 128.52

ORBIT DETERMINATION ACCURACY
ST 866.5 SR 1233.4 SS 1250.6
CRT -.9556 CRS .9774 CST -.8720
LSA 1924.8 MSA 362.3 SSA 9.0
EL1 1492.5 EL2 211.0 ALF 124.67

LAUNCH DATE SEP 21 1965 FLIGHT TIME 184.00 ARRIVAL DATE MAR 24 1966

HELIOCENTRIC CONIC DISTANCE 499.713

RL 150.19 LAL -.00 LOL 357.80 VL 27.335 GAL 4.64 AZL 93.32 HCA 219.88 SMA 130.10 ECC .17387 INC 3.3151 V1 29.668
RP 108.16 LAP 2.13 LOP 217.64 VP 37.867 GAP 2.47 AZP 87.45 TAL 156.93 TAP 16.82 RCA 107.48 APO 152.72 V2 35.036
RC 86.309 GL -23.35 GP 48.90 ZAL 47.38 ZAP 107.88 ETS 17.09 ZAE 126.40 ETE 134.11 ZAC 36.63 ETC 241.63 CLP-117.84

PLANETOCENTRIC CONIC

C3 15.799 VHL 3.975 DLA -38.35 RAL 326.36 RAD 6567.6 VEL 11.713 PTH 2.06 VHP 4.543 DPA 24.46 RAP 279.76 ECC 1.2600

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
62.98	11 58 37	1427.31	27.84	8.70	194.47	117.52	12 22 25	827.3	31.28	.81
117.02	18 14 19	5535.85	27.85	257.36	194.48	117.51	19 46 35	4935.8	31.29	249.47
62.98	11 58 37	1427.31	27.84	8.70	194.47	117.52	12 22 25	827.3	31.28	.81
117.02	18 14 19	5535.85	27.85	257.36	194.48	117.51	19 46 35	4935.8	31.29	249.47
62.98	11 58 37	1427.31	27.84	8.70	194.47	117.52	12 22 25	827.3	31.28	.81
117.02	18 14 19	5535.85	27.85	257.36	194.48	117.51	19 46 35	4935.8	31.29	249.47

DIFFERENTIAL CORRECTIONS
TDE .1618 TRA 1.7686 TC3-1.9023 BAU .4872
RDE -.3294 RRA-1.8863 RC3 1.3048 FAU .06918
FDE 1.4132 FRA 4.7432 FC3-3.7910 BSP 15968
BDE .3670 BRA 2.5857 BC3 2.3068 FSP -2752

MID-COURSE EXECUTION ACCURACY
SGT 3592.9 SGR 3649.9 SG3 816.2
RRT -.9875 RRF -.9954 RTF .9833
SGB 5121.6 R23 .0752 R13 -.9925
SG1 5105.6 SG2 404.7 THA 134.54

ORBIT DETERMINATION ACCURACY
ST 1003.8 SR 1143.8 SS 1301.7
CRT -.9812 CRS .9729 CST -.9102
LSA 1972.8 MSA 343.9 SSA 9.8
EL1 1514.7 EL2 146.3 ALF 131.20

LAUNCH DATE SEP 21 1965 FLIGHT TIME 186.00 ARRIVAL DATE MAR 26 1966

HELIOCENTRIC CONIC DISTANCE 505.942

RL 150.19 LAL -.00 LOL 357.80 VL 27.328 GAL 4.75 AZL 92.89 HCA 223.08 SMA 130.05 ECC .17517 INC 2.8906 V1 29.668
RP 108.20 LAP 1.97 LOP 220.84 VP 37.849 GAP 2.89 AZP 87.89 TAL 156.52 TAP 19.60 RCA 107.27 APO 152.83 V2 35.023
RC 88.623 GL -20.41 GP 45.78 ZAL 45.77 ZAP 111.86 ETS 19.95 ZAE 126.60 ETE 139.13 ZAC 33.44 ETC 242.05 CLP-122.27

PLANETOCENTRIC CONIC

C3 15.505 VHL 3.938 DLA -35.41 RAL 325.68 RAD 6567.6 VEL 11.700 PTH 2.06 VHP 4.481 DPA 21.33 RAP 278.90 ECC 1.2552

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
67.79	12 21 13	1348.45	25.97	1.29	192.40	114.96	12 43 41	748.5	29.11	353.41
112.21	17 46 16	5606.22	25.99	262.02	192.41	114.95	19 19 43	5006.2	29.12	254.13
67.79	12 21 13	1348.45	25.97	1.29	192.40	114.96	12 43 41	748.5	29.11	353.41
112.21	17 46 16	5606.22	25.99	262.02	192.41	114.95	19 19 43	5006.2	29.12	254.13
67.79	12 21 13	1348.45	25.97	1.29	192.40	114.96	12 43 41	748.5	29.11	353.41
112.21	17 46 16	5606.22	25.99	262.02	192.41	114.95	19 19 43	5006.2	29.12	254.13

DIFFERENTIAL CORRECTIONS
TDE .2616 TRA 2.0136 TC3-2.1276 BAU .5076
RDE -.3127 RRA-1.7777 RC3 1.2120 FAU .07011
FDE 1.5452 FRA 4.9678 FC3-3.9148 BSP 16144
BDE .4077 BRA 2.6860 BC3 2.4486 FSP -2823

MID-COURSE EXECUTION ACCURACY
SGT 3984.4 SGR 3345.4 SG3 834.2
RRT -.9890 RRF -.9943 RTF .9853
SGB 5202.6 R23 .0732 R13 -.9917
SG1 5188.7 SG2 380.7 THA 140.04

ORBIT DETERMINATION ACCURACY
ST 1144.8 SR 1055.7 SS 1349.2
CRT -.9942 CRS .9675 CST -.9350
LSA 2034.1 MSA 328.4 SSA 10.5
EL1 1555.0 EL2 83.6 ALF 137.33

LAUNCH DATE SEP 21 1965 FLIGHT TIME 188.00 ARRIVAL DATE MAR 28 1966

HELIOCENTRIC CONIC DISTANCE 512.146

RL 150.19 LAL -.00 LOL 357.80 VL 27.320 GAL 4.89 AZL 92.51 HCA 226.27 SMA 129.99 ECC .17669 INC 2.5141 V1 29.668
RP 108.24 LAP 1.82 LOP 224.05 VP 37.831 GAP 3.30 AZP 88.26 TAL 156.07 TAP 22.34 RCA 107.02 APO 152.96 V2 35.010
RC 90.946 GL -17.71 GP 42.80 ZAL 44.32 ZAP 115.79 ETS 22.36 ZAE 126.52 ETE 143.69 ZAC 30.45 ETC 241.87 CLP-126.37

PLANETOCENTRIC CONIC

C3 15.415 VHL 3.926 DLA -32.68 RAL 325.16 RAD 6567.6 VEL 11.696 PTH 2.06 VHP 4.464 DPA 18.34 RAP 278.24 ECC 1.2537

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
72.96	12 50 30	1251.51	24.12	352.83	190.88	112.75	13 11 21	651.5	26.99	344.97
107.04	17 12 54	5700.54	24.14	268.47	190.88	112.73	18 47 55	5100.5	27.00	260.60
72.96	12 50 30	1251.51	24.12	352.83	190.88	112.75	13 11 21	651.5	26.99	344.97
107.04	17 12 54	5700.54	24.14	268.47	190.88	112.73	18 47 55	5100.5	27.00	260.60
110.00	16 14 51	5879.59	17.90	278.99	187.60	119.62	17 52 51	5279.6	21.71	271.93
110.00	18 47 43	5408.50	30.68	248.50	193.46	105.88	20 17 51	4808.5	32.55	239.78

DIFFERENTIAL CORRECTIONS
TDE .3637 TRA 2.2473 TC3-2.3197 BAU .5298
RDE -.2914 RRA-1.6689 RC3 1.1078 FAU .06998
FDE 1.6560 FRA 5.1083 FC3-3.9304 BSP 16471
BDE .4661 BRA 2.7980 BC3 2.5707 FSP -2861

MID-COURSE EXECUTION ACCURACY
SGT 4333.8 SGR 3048.0 SG3 836.8
RRT -.9895 RRF -.9928 RTF .9866
SGB 5298.3 R23 .0672 R13 -.9910
SG1 5286.0 SG2 360.4 THA 144.98

ORBIT DETERMINATION ACCURACY
ST 1284.9 SR 966.1 SS 1385.8
CRT -.9994 CRS .9605 CST -.9517
LSA 2098.8 MSA 315.6 SSA 11.2
EL1 1607.4 EL2 25.9 ALF 143.07

LAUNCH DATE SEP 21 1965 FLIGHT TIME 190.00 ARRIVAL DATE MAR 30 1966

HELIOCENTRIC CONIC DISTANCE 518.326

RL 150.19 LAL -.00 LOL 357.80 VL 27.310 GAL 5.03 AZL 92.18 HCA 229.46 SMA 129.93 ECC .17842 INC 2.1760 VI 29.668
RP 108.29 LAP 1.65 LOP 227.24 VP 37.812 GAP 3.72 AZP 88.59 TAL 155.58 TAP 25.04 RCA 106.74 APO 153.11 V2 34.996
RC 93.279 GL -15.21 GP 39.97 ZAL 43.01 ZAP 119.62 ETS 24.39 ZAE 126.21 ETE 147.76 ZAC 27.70 ETC 241.03 CLP-130.16

PLANETOCENTRIC CONIC

C3 15.496 VHL 3.936 DLA -30.15 RAL 324.79 RAD 6567.6 VEL 11.700 PTH 2.06 VHP 4.485 DPA 15.52 RAP 277.78 ECC 1.2550

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
79.20	13 32 44	1115.15	22.31	341.75	189.81	110.82	13 51 19	515.1	24.94	333.92
100.80	16 27 42	5839.25	22.33	278.15	189.82	110.80	18 5 2	5239.2	24.95	270.32
79.20	13 32 44	1115.15	22.31	341.75	189.81	110.82	13 51 19	515.1	24.94	333.92
100.80	16 27 42	5839.25	22.33	278.15	189.82	110.80	18 5 2	5239.2	24.95	270.32
110.00	15 25 14	748.42	12.41	309.92	184.66	122.11	15 37 43	148.4	16.56	303.28
110.00	19 34 22	5253.97	33.00	237.06	193.07	99.48	21 1 56	4654.0	33.95	227.95

DIFFERENTIAL CORRECTIONS
TDE .4698 TRA 2.4736 TC3-2.4705 BAU .5516
RDE -.2680 RRA-1.5600 RC3 .9934 FAU .06855
FDE 1.7484 FRA 5.1794 FC3-3.8296 BSP 16832
BDE .5409 BRA 2.9245 BC3 2.6627 FSP -2851

MID-COURSE EXECUTION ACCURACY
SGT 4646.1 SGR 2767.4 SG3 826.8
RRT -.9893 RRF -.9909 RTF .9875
SGB 5407.8 R23 .0584 R13 -.9904
SG1 5396.7 SG2 346.9 THA 149.35

ORBIT DETERMINATION ACCURACY
ST 1425.2 SR 879.3 SS 1414.4
CRT -.9991 CRS .9517 CST -.9635
LSA 2170.6 MSA 305.4 SSA 11.8
EL1 1674.3 EL2 32.6 ALF 148.34

LAUNCH DATE SEP 21 1965 FLIGHT TIME 192.00 ARRIVAL DATE APR 1 1966

HELIOCENTRIC CONIC DISTANCE 524.479

RL 150.19 LAL -.00 LOL 357.80 VL 27.299 GAL 5.20 AZL 91.87 HCA 232.65 SMA 129.85 ECC .18038 INC 1.8689 VI 29.668
RP 108.33 LAP 1.49 LOP 230.44 VP 37.792 GAP 4.14 AZP 88.87 TAL 155.05 TAP 27.70 RCA 106.43 APO 153.27 V2 34.983
RC 95.621 GL -12.92 GP 37.33 ZAL 41.82 ZAP 123.30 ETS 26.12 ZAE 125.73 ETE 151.35 ZAC 25.21 ETC 239.47 CLP-133.66

PLANETOCENTRIC CONIC

C3 15.725 VHL 3.965 DLA -27.79 RAL 324.54 RAD 6567.6 VEL 11.709 PTH 2.06 VHP 4.538 DPA 12.87 RAP 277.53 ECC 1.2588

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	14 11 21	992.21	17.10	330.50	187.73	112.92	14 27 53	392.2	20.06	323.08
90.00	15 47 6	680.79	24.12	310.40	190.33	105.29	15 58 27	80.8	25.99	302.23
100.00	14 46 42	877.92	13.63	320.45	186.06	116.86	15 1 20	277.9	17.13	313.40
100.00	17 54 26	5558.35	27.84	259.08	191.31	101.34	19 27 4	4958.3	29.12	250.51
110.00	14 52 50	858.67	8.35	315.88	182.95	123.27	15 7 8	258.7	12.67	309.45
110.00	20 4 48	5150.36	33.88	229.10	192.31	94.86	21 30 38	4550.4	34.18	219.87

DIFFERENTIAL CORRECTIONS
TDE .5791 TRA 2.6940 TC3-2.5812 BAU .5732
RDE -.2425 RRA-1.4594 RC3 .8781 FAU .06611
FDE 1.8201 FRA 5.1911 FC3-3.6399 BSP 17234
BDE .6278 BRA 3.0639 BC3 2.7265 FSP -2802

MID-COURSE EXECUTION ACCURACY
SGT 4924.5 SGR 2507.9 SG3 806.5
RRT -.9884 RRF -.9885 RTF .9880
SGB 5526.3 R23 .0483 R13 -.9900
SG1 5515.8 SG2 340.1 THA 153.17

ORBIT DETERMINATION ACCURACY
ST 1564.0 SR 796.6 SS 1434.8
CRT -.9939 CRS .9406 CST -.9719
LSA 2247.4 MSA 297.6 SSA 12.3
EL1 1753.5 EL2 78.1 ALF 153.09

LAUNCH DATE SEP 21 1965 FLIGHT TIME 194.00 ARRIVAL DATE APR 3 1966

HELIOCENTRIC CONIC DISTANCE 530.606

RL 150.19 LAL -.00 LOL 357.80 VL 27.287 GAL 5.38 AZL 91.59 HCA 235.84 SMA 129.77 ECC .18257 INC 1.5871 VI 29.668
RP 108.37 LAP 1.31 LOP 233.63 VP 37.771 GAP 4.55 AZP 89.11 TAL 154.49 TAP 30.33 RCA 106.08 APO 153.46 V2 34.970
RC 97.969 GL -10.81 GP 34.87 ZAL 40.73 ZAP 126.80 ETS 27.59 ZAE 125.13 ETE 154.49 ZAC 23.02 ETC 237.10 CLP-136.89

PLANETOCENTRIC CONIC

C3 16.089 VHL 4.011 DLA -25.60 RAL 324.40 RAD 6567.6 VEL 11.725 PTH 2.07 VHP 4.619 DPA 10.41 RAP 277.49 ECC 1.2648

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	13 10 5	1199.44	11.21	342.87	185.61	116.17	13 30 5	599.4	14.64	335.87
90.00	16 47 12	5771.98	26.96	274.60	190.87	99.00	18 23 23	5172.0	27.93	266.07
100.00	14 6 13	1018.18	9.18	328.49	184.54	118.57	14 23 12	418.2	12.93	321.70
100.00	18 33 44	5428.48	29.22	249.68	191.22	96.58	20 4 13	4828.5	29.83	240.93
110.00	14 28 13	949.18	4.94	320.68	181.95	123.87	14 44 2	349.2	9.36	314.37
110.00	20 28 14	5070.24	34.17	222.87	191.62	91.18	21 52 44	4470.2	33.95	213.63

DIFFERENTIAL CORRECTIONS
TDE .6916 TRA 2.9101 TC3-2.6534 BAU .5942
RDE -.2157 RRA-1.3665 RC3 .7676 FAU .06293
FDE 1.8723 FRA 5.1548 FC3-3.3862 BSP 17671
BDE .7245 BRA 3.2150 BC3 2.7622 FSP -2726

MID-COURSE EXECUTION ACCURACY
SGT 5172.5 SGR 2271.4 SG3 778.6
RRT -.9867 RRF -.9855 RTF .9882
SGB 5649.2 R23 .0380 R13 -.9896
SG1 5639.0 SG2 338.7 THA 156.48

ORBIT DETERMINATION ACCURACY
ST 1700.7 SR 719.0 SS 1447.7
CRT -.9843 CRS .9264 CST -.9782
LSA 2328.0 MSA 291.8 SSA 12.7
EL1 1842.7 EL2 117.2 ALF 157.31

LAUNCH DATE SEP 21 1965 FLIGHT TIME 196.00 ARRIVAL DATE APR 5 1966

HELIOCENTRIC CONIC DISTANCE 536.706

RL 150.19 LAL -.00 LOL 357.80 VL 27.274 GAL 5.57 AZL 91.33 HCA 239.02 SMA 129.68 ECC .18499 INC 1.3260 VI 29.668
RP 108.41 LAP 1.14 LOP 236.82 VP 37.750 GAP 4.97 AZP 89.32 TAL 153.90 TAP 32.92 RCA 105.69 APO 153.67 V2 34.957
RC 100.323 GL -8.87 GP 32.59 ZAL 39.73 ZAP 130.11 ETS 28.87 ZAE 124.45 ETE 157.21 ZAC 21.15 ETC 233.87 CLP-139.89

PLANETOCENTRIC CONIC

C3 16.581 VHL 4.072 DLA -23.57 RAL 324.34 RAD 6567.7 VEL 11.746 PTH 2.07 VHP 4.725 DPA 8.14 RAP 277.65 ECC 1.2729

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 35 3	1326.62	7.30	350.16	184.65	117.44	12 57 10	726.6	10.92	343.36
90.00	17 21 46	5658.56	27.91	266.44	190.90	95.02	18 56 5	5058.6	28.31	257.80
100.00	13 37 40	1124.48	5.67	334.42	183.76	119.40	13 56 25	524.5	9.54	327.78
100.00	19 1 50	5335.93	29.75	242.85	191.05	93.03	20 30 46	4735.9	29.86	234.05
110.00	14 8 25	1028.08	1.94	324.81	181.45	124.13	14 25 33	428.1	6.40	318.57
110.00	20 47 35	5005.09	34.14	217.78	191.11	88.16	22 11 0	4405.1	33.51	208.59

DIFFERENTIAL CORRECTIONS
TDE .8100 TRA 3.1271 TC3-2.6834 BAU .6126
RDE -.1896 RRA-1.2835 RC3 .6614 FAU .05893
FDE 1.9124 FRA 5.0885 FC3-3.0767 BSP 18042
BDE .8319 BRA 3.3803 BC3 2.7637 FSP -2615

MID-COURSE EXECUTION ACCURACY
SGT 5396.3 SGR 2060.0 SG3 745.9
RRT -.9841 RRF -.9817 RTF .9883
SGB 5776.1 R23 .0291 R13 -.9892
SG1 5766.0 SG2 342.1 THA 159.33

ORBIT DETERMINATION ACCURACY
ST 1837.8 SR 648.8 SS 1457.0
CRT -.9700 CRS .9089 CST -.9829
LSA 2416.3 MSA 287.3 SSA 13.0
EL1 1943.2 EL2 149.2 ALF 160.98

LAUNCH DATE SEP 21 1965 FLIGHT TIME 198.00 ARRIVAL DATE APR 7 1966

HELIOCENTRIC CONIC DISTANCE 542.776

RL 150.19 LAL -.00 LOL 357.80 VL 27.260 GAL 5.79 AZL 91.08 HCA 242.21 SMA 129.58 ECC .18766 INC 1.0819 V1 29.668
RP 108.44 LAP .96 LOP 240.01 VP 37.728 GAP 5.40 AZP 89.50 TAL 153.27 TAP 35.48 RCA 105.26 APO 153.90 V2 34.945
RC 102.682 GL -7.09 GP 30.51 ZAL 38.80 ZAP 133.24 ETS 30.01 ZAE 123.72 ETE 159.55 ZAC 19.63 ETC 229.79 CLP-142.67

PLANETOCENTRIC CONIC

C3 17.197 VHL 4.147 DLA -21.68 RAL 324.36 RAD 6567.7 VEL 11.772 PTH 2.08 VHP 4.853 DPA 6.06 RAP 278.00 ECC 1.2830

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 9 8	1427.64	4.09	355.86	184.27	118.04	12 32 55	827.6	7.81	349.15
90.00	17 47 51	5574.33	28.25	260.30	190.95	91.96	19 20 46	4974.3	28.23	251.64
100.00	13 15 21	1213.91	2.66	339.36	183.48	119.78	13 35 35	613.9	6.60	332.79
100.00	19 24 19	5263.29	29.89	237.46	190.99	90.19	20 52 2	4663.3	29.60	228.66
110.00	13 51 59	1099.10	-.78	328.51	181.33	124.18	14 10 18	499.1	3.71	322.30
110.00	21 4 11	4950.86	33.94	213.56	190.82	85.67	22 26 42	4350.9	32.97	204.45

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE .9290 TRA 3.3410 TC3-2.6875 BAU .6316 SGT 5593.9 SGR 1870.2 SG3 709.5 ST 1967.9 SR 583.4 SS 1456.8
RDE -.1617 RRA-1.2078 RC3 .5695 FAU .05493 RRT -.9807 RRF -.9770 RTF .9882 CRT -.9499 CRS .8861 CST -.9865
FDE 1.9301 FRA 4.9907 FC3-2.7653 BSP 18487 SGB 5898.2 R23 .0207 R13 -.9888 LSA 2500.9 MSA 283.8 SSA 13.2
BDE .9430 BRA 3.5526 BC3 2.7472 FSP -2502 SG1 5888.0 SG2 347.3 THA 161.78 EL1 2045.1 EL2 175.4 ALF 164.15

LAUNCH DATE SEP 21 1965 FLIGHT TIME 200.00 ARRIVAL DATE APR 9 1966

HELIOCENTRIC CONIC DISTANCE 548.815

RL 150.19 LAL -.00 LOL 357.80 VL 27.245 GAL 6.02 AZL 90.85 HCA 245.39 SMA 129.48 ECC .19058 INC .8519 V1 29.668
RP 108.48 LAP .77 LOP 243.19 VP 37.706 GAP 5.83 AZP 89.65 TAL 152.62 TAP 38.01 RCA 104.80 APO 154.15 V2 34.932
RC 105.043 GL -5.46 GP 28.60 ZAL 37.93 ZAP 136.17 ETS 31.06 ZAE 122.99 ETE 161.55 ZAC 18.48 ETC 224.91 CLP-145.25

PLANETOCENTRIC CONIC

C3 17.938 VHL 4.235 DLA -19.92 RAL 324.45 RAD 6567.7 VEL 11.803 PTH 2.09 VHP 5.001 DPA 4.15 RAP 278.53 ECC 1.2952

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 48 27	1514.27	1.31	.70	184.29	118.29	12 13 41	914.3	5.08	354.05
90.00	18 9 14	5507.26	28.31	255.40	191.13	89.50	19 41 1	4907.3	27.94	246.75
100.00	12 57 5	1292.77	-.01	343.69	183.55	119.89	13 18 38	692.8	3.96	337.16
100.00	19 43 17	5203.99	29.82	233.05	191.09	87.87	21 10 1	4604.0	29.21	224.30
110.00	13 38 4	1164.33	-3.27	331.92	181.52	124.05	13 57 28	564.3	1.22	325.71
110.00	21 18 47	4905.19	33.65	210.02	190.75	83.60	22 40 32	4305.2	32.40	201.01

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE 1.0507 TRA 3.5556 TC3-2.6638 BAU .6495 SGT 5769.5 SGR 1701.7 SG3 671.3 ST 2093.0 SR 524.6 SS 1451.2
RDE -.1339 RRA-1.1402 RC3 .4882 FAU .05078 RRT -.9762 RRF -.9713 RTF .9881 CRT -.9232 CRS .8573 CST -.9892
FDE 1.9343 FRA 4.8753 FC3-2.4510 BSP 18934 SGB 6015.2 R23 .0139 R13 -.9885 LSA 2585.1 MSA 281.2 SSA 13.3
BDE 1.0592 BRA 3.7339 BC3 2.7082 FSP -2382 SG1 6004.8 SG2 354.2 THA 163.88 EL1 2148.8 EL2 196.3 ALF 166.86

LAUNCH DATE SEP 21 1965 FLIGHT TIME 202.00 ARRIVAL DATE APR 11 1966

HELIOCENTRIC CONIC DISTANCE 554.823

RL 150.19 LAL -.00 LOL 357.80 VL 27.229 GAL 6.27 AZL 90.63 HCA 248.57 SMA 129.37 ECC .19377 INC .6335 V1 29.668
RP 108.52 LAP .59 LOP 246.37 VP 37.683 GAP 6.26 AZP 89.77 TAL 151.94 TAP 40.51 RCA 104.30 APO 154.43 V2 34.920
RC 107.406 GL -3.96 GP 26.87 ZAL 37.11 ZAP 138.91 ETS 32.04 ZAE 122.25 ETE 163.27 ZAC 17.72 ETC 219.41 CLP-147.66

PLANETOCENTRIC CONIC

C3 18.807 VHL 4.337 DLA -18.29 RAL 324.59 RAD 6567.8 VEL 11.840 PTH 2.10 VHP 5.167 DPA 2.42 RAP 279.23 ECC 1.3095

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 31 19	1591.47	-1.18	5.01	184.62	118.29	11 57 50	991.5	2.61	358.38
90.00	18 27 31	5452.20	28.21	251.37	191.46	87.49	19 58 24	4852.2	27.57	242.77
100.00	12 41 44	1364.24	-2.44	347.61	183.93	119.80	13 4 28	764.2	1.55	341.09
100.00	19 59 47	5154.67	29.64	229.39	191.36	85.96	21 25 42	4554.7	28.77	220.70
110.00	13 26 8	1225.10	-5.58	335.11	181.98	123.78	13 46 33	625.1	-1.10	328.88
110.00	21 31 52	4866.57	33.32	207.06	190.91	81.88	22 52 59	4266.6	31.84	198.14

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE 1.1760 TRA 3.7734 TC3-2.6147 BAU .6657 SGT 5926.8 SGR 1553.1 SG3 632.8 ST 2213.5 SR 472.8 SS 1441.7
RDE -.1066 RRA-1.0808 RC3 .4168 FAU .04657 RRT -.9707 RRF -.9645 RTF .9879 CRT -.8889 CRS .8216 CST -.9914
FDE 1.9285 FRA 4.7508 FC3-2.1438 BSP 19356 SGB 6126.9 R23 .0085 R13 -.9881 LSA 2669.0 MSA 279.0 SSA 13.4
BDE 1.1808 BRA 3.9252 BC3 2.6477 FSP -2256 SG1 6116.2 SG2 361.8 THA 165.68 EL1 2253.5 EL2 212.7 ALF 169.15

LAUNCH DATE SEP 21 1965 FLIGHT TIME 204.00 ARRIVAL DATE APR 13 1966

HELIOCENTRIC CONIC DISTANCE 560.797

RL 150.19 LAL -.00 LOL 357.80 VL 27.212 GAL 6.55 AZL 90.42 HCA 251.75 SMA 129.25 ECC .19724 INC .4245 V1 29.668
RP 108.56 LAP .40 LOP 249.55 VP 37.660 GAP 6.70 AZP 89.87 TAL 151.23 TAP 42.98 RCA 103.76 APO 154.74 V2 34.909
RC 109.770 GL -2.58 GP 25.29 ZAL 36.34 ZAP 141.48 ETS 33.00 ZAE 121.54 ETE 164.74 ZAC 17.34 ETC 213.54 CLP-149.92

PLANETOCENTRIC CONIC

C3 19.809 VHL 4.451 DLA -16.77 RAL 324.79 RAD 6567.8 VEL 11.882 PTH 2.11 VHP 5.351 DPA .85 RAP 280.08 ECC 1.3260

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 16 48	1661.90	-3.45	8.94	185.21	118.12	11 44 30	1061.9	.34	2.31
90.00	18 43 36	5406.34	28.03	248.03	191.95	85.82	20 13 42	4806.3	27.16	239.47
100.00	12 28 37	1430.18	-4.66	351.24	184.55	119.56	12 52 27	830.2	-.69	344.70
100.00	20 14 28	5113.30	29.41	226.34	191.82	84.37	21 39 41	4513.3	28.31	217.71
110.00	13 15 49	1282.29	-7.73	338.13	182.65	123.40	13 37 12	682.3	-3.29	331.87
110.00	21 43 45	4833.94	32.98	204.57	191.26	80.44	23 4 19	4233.9	31.31	195.74

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE 1.3047 TRA 3.9955 TC3-2.5445 BAU .6804 SGT 6067.0 SGR 1422.2 SG3 595.0 ST 2328.7 SR 427.6 SS 1429.0
RDE -.0800 RRA-1.0286 RC3 .3548 FAU .04240 RRT -.9639 RRF -.9566 RTF .9876 CRT -.8459 CRS .7777 CST -.9931
FDE 1.9149 FRA 4.6223 FC3-1.8529 BSP 19763 SGB 6231.5 R23 .0043 R13 -.9878 LSA 2751.5 MSA 277.1 SSA 13.5
BDE 1.3071 BRA 4.1258 BC3 2.5691 FSP -2130 SG1 6220.5 SG2 369.4 THA 167.22 EL1 2356.9 EL2 225.3 ALF 171.09

LAUNCH DATE SEP 21 1965 FLIGHT TIME 206.00 ARRIVAL DATE APR 15 1966

HELIOCENTRIC CONIC DISTANCE 566.735
RL 150.19 LAL -.00 LOL 357.80 VL 27.195 GAL 6.84 AZL 90.22 HCA 254.93 SMA 129.13 ECC .20102 INC .2232 VI 29.668
RP 108.59 LAP .22 LOP 252.73 VP 37.637 GAP 7.15 AZP 89.94 TAL 150.50 TAP 45.42 RCA 103.17 APO 155.09 V2 34.897
RC 112.133 GL -1.32 GP 23.85 ZAL 35.60 ZAP 143.89 ETS 33.96 ZAE 120.86 ETE 166.00 ZAC 17.34 ETC 207.62 CLP-152.04

PLANETOCENTRIC CONIC
C3 20.955 VHL 4.578 DLA -15.35 RAL 325.03 RAD 6567.9 VEL 11.930 PTH 2.12 VHP 5.550 DPA -.56 RAP 281.08 ECC 1.3449

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 4 20	1727.17	-5.54	12.60	186.02	117.81	11 33 7	1127.2	-1.77	5.95
90.00	18 57 58	5367.92	27.81	245.24	192.61	84.44	20 27 26	4767.9	26.75	236.74
100.00	12 17 17	1491.79	-6.72	354.66	185.38	119.20	12 42 9	891.8	-2.77	348.09
100.00	20 27 42	5078.53	29.15	223.79	192.44	83.05	21 52 21	4478.5	27.88	215.22
110.00	13 6 50	1336.56	-9.75	341.03	183.53	122.93	13 29 7	736.6	-5.35	334.71
110.00	21 54 38	4806.52	32.65	202.50	191.81	79.26	23 14 45	4206.5	30.82	193.75

DIFFERENTIAL CORRECTIONS
TDE 1.4404 TRA 4.2268 TC3-2.4505 BAU .6916
RDE -.0549 RRA -.9837 RC3 .2997 FAU .03812
FDE 1.8993 FRA 4.4978 FC3-1.5748 BSP 20069
BDE 1.4414 BRA 4.3398 BC3 2.4688 FSP -1996

MID-COURSE EXECUTION ACCURACY
SGT 6195.4 SGR 1307.7 SG3 558.7
RRT -.9559 RRF -.9476 RTF .9872
SGB 6331.9 R23 .0015 R13 -.9873
SG1 6320.7 SG2 376.7 THA 168.55

ORBIT DETERMINATION ACCURACY
ST 2442.1 SR 389.2 SS 1416.1
CRT -.7942 CRS .7261 CST -.9944
LSA 2836.3 MSA 275.1 SSA 13.5
EL1 2461.7 EL2 234.7 ALF 172.72

LAUNCH DATE SEP 21 1965 FLIGHT TIME 208.00 ARRIVAL DATE APR 17 1966

HELIOCENTRIC CONIC DISTANCE 572.635
RL 150.19 LAL -.00 LOL 357.80 VL 27.177 GAL 7.16 AZL 90.03 HCA 258.10 SMA 129.01 ECC .20511 INC .0271 VI 29.668
RP 108.63 LAP .03 LOP 255.91 VP 37.613 GAP 7.61 AZP 89.99 TAL 149.74 TAP 47.85 RCA 102.55 APO 155.47 V2 34.886
RC 114.493 GL -.16 GP 22.55 ZAL 34.90 ZAP 146.14 ETS 34.95 ZAE 120.20 ETE 167.08 ZAC 17.68 ETC 201.96 CLP-154.04

PLANETOCENTRIC CONIC
C3 22.254 VHL 4.717 DLA -14.04 RAL 325.30 RAD 6567.9 VEL 11.985 PTH 2.14 VHP 5.766 DPA -1.84 RAP 282.20 ECC 1.3662

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 53 31	1788.36	-7.47	16.06	187.03	117.39	11 23 19	1188.4	-3.74	9.37
90.00	19 11 0	5335.75	27.58	242.92	193.42	83.30	20 39 56	4735.8	26.36	234.46
100.00	12 7 25	1549.92	-8.63	357.91	186.40	118.73	12 33 15	949.9	-4.73	351.29
100.00	20 39 47	5049.43	28.89	221.67	193.22	81.96	22 3 57	4449.4	27.47	213.15
110.00	12 58 59	1388.39	-11.66	343.84	184.59	122.36	13 22 7	788.4	-7.30	337.45
110.00	22 4 42	4783.72	32.35	200.79	192.52	78.29	23 24 26	4183.7	30.39	192.12

DIFFERENTIAL CORRECTIONS
TDE 1.5766 TRA 4.4610 TC3-2.3493 BAU .7030
RDE -.0296 RRA -.9434 RC3 .2545 FAU .03426
FDE 1.8747 FRA 4.3705 FC3-1.3326 BSP 20434
BDE 1.5768 BRA 4.5596 BC3 2.3630 FSP -1876

MID-COURSE EXECUTION ACCURACY
SGT 6306.3 SGR 1205.8 SG3 523.4
RRT -.9465 RRF -.9372 RTF .9869
SGB 6420.6 R23 -.0011 R13 -.9869
SG1 6409.1 SG2 382.9 THA 169.70

ORBIT DETERMINATION ACCURACY
ST 2545.2 SR 356.2 SS 1398.5
CRT -.7313 CRS .6638 CST -.9955
LSA 2913.0 MSA 273.3 SSA 13.5
EL1 2558.6 EL2 241.7 ALF 174.10

LAUNCH DATE SEP 21 1965 FLIGHT TIME 210.00 ARRIVAL DATE APR 19 1966

HELIOCENTRIC CONIC DISTANCE 578.493
RL 150.19 LAL -.00 LOL 357.80 VL 27.158 GAL 7.50 AZL 89.84 HCA 261.28 SMA 128.88 ECC .20955 INC .1619 VI 29.668
RP 108.66 LAP -.16 LOP 259.08 VP 37.590 GAP 8.09 AZP 90.02 TAL 148.97 TAP 50.25 RCA 101.87 APO 155.89 V2 34.875
RC 116.852 GL .90 GP 21.37 ZAL 34.22 ZAP 148.25 ETS 35.99 ZAE 119.59 ETE 168.01 ZAC 18.33 ETC 196.77 CLP-155.94

PLANETOCENTRIC CONIC
C3 23.723 VHL 4.871 DLA -12.81 RAL 325.61 RAD 6568.0 VEL 12.046 PTH 2.15 VHP 5.997 DPA -2.97 RAP 283.44 ECC 1.3904

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 44 3	1846.24	-9.27	19.37	188.20	116.88	11 14 49	1246.2	-5.59	12.62
90.00	19 22 56	5308.99	27.35	240.99	194.37	82.36	20 51 25	4709.0	26.01	232.58
100.00	11 58 46	1605.16	-10.43	1.03	187.58	118.17	12 25 31	1005.2	-6.58	354.35
100.00	20 50 54	5025.29	28.64	219.91	194.15	81.07	22 14 39	4425.3	27.11	211.45
110.00	12 52 5	1438.17	-13.46	346.58	185.80	121.72	13 16 3	838.2	-9.16	340.11
110.00	22 14 4	4765.06	32.08	199.40	193.40	77.50	23 33 29	4165.1	30.03	190.79

DIFFERENTIAL CORRECTIONS
TDE 1.7170 TRA 4.7036 TC3-2.2370 BAU .7128
RDE -.0050 RRA -.9083 RC3 .2158 FAU .03057
FDE 1.8472 FRA 4.2483 FC3-1.1157 BSP 20779
BDE 1.7170 BRA 4.7905 BC3 2.2474 FSP -1761

MID-COURSE EXECUTION ACCURACY
SGT 6405.2 SGR 1115.8 SG3 490.0
RRT -.9358 RRF -.9255 RTF .9865
SGB 6501.7 R23 -.0029 R13 -.9865
SG1 6490.1 SG2 388.2 THA 170.71

ORBIT DETERMINATION ACCURACY
ST 2642.3 SR 328.9 SS 1379.4
CRT -.6583 CRS .5923 CST -.9964
LSA 2986.5 MSA 271.3 SSA 13.5
EL1 2651.2 EL2 246.7 ALF 175.28

LAUNCH DATE SEP 21 1965 FLIGHT TIME 212.00 ARRIVAL DATE APR 21 1966

HELIOCENTRIC CONIC DISTANCE 584.306
RL 150.19 LAL -.00 LOL 357.80 VL 27.139 GAL 7.87 AZL 89.65 HCA 264.45 SMA 128.75 ECC .21436 INC .3496 VI 29.668
RP 108.69 LAP -.35 LOP 262.25 VP 37.567 GAP 8.57 AZP 90.03 TAL 148.18 TAP 52.63 RCA 101.15 APO 156.35 V2 34.865
RC 119.206 GL 1.87 GP 20.29 ZAL 33.57 ZAP 150.23 ETS 37.12 ZAE 119.01 ETE 168.81 ZAC 19.23 ETC 192.19 CLP-157.74

PLANETOCENTRIC CONIC
C3 25.377 VHL 5.038 DLA -11.67 RAL 325.95 RAD 6568.0 VEL 12.114 PTH 2.17 VHP 6.245 DPA -3.98 RAP 284.77 ECC 1.4176

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 35 44	1901.38	-10.95	22.55	189.52	116.28	11 7 25	1301.4	-7.33	15.74
90.00	19 33 55	5286.98	27.14	239.42	195.45	81.59	21 2 2	4687.0	25.70	231.05
100.00	11 51 9	1658.02	-12.11	4.05	188.92	117.54	12 18 47	1058.0	-8.33	357.30
100.00	21 1 11	5005.57	28.43	218.49	195.22	80.35	22 24 36	4405.6	26.80	210.06
110.00	12 46 2	1486.18	-15.16	349.26	187.16	121.01	13 10 48	886.2	-10.94	342.70
110.00	22 22 48	4750.17	31.85	198.30	194.43	76.89	23 41 58	4150.2	29.72	189.73

DIFFERENTIAL CORRECTIONS
TDE 1.8625 TRA 4.9564 TC3-2.1145 BAU .7200
RDE .0188 RRA -.8777 RC3 .1825 FAU .02704
FDE 1.8185 FRA 4.1329 FC3 -.9226 BSP 21088
BDE 1.8626 BRA 5.0335 BC3 2.1223 FSP -1651

MID-COURSE EXECUTION ACCURACY
SGT 6493.2 SGR 1036.0 SG3 458.7
RRT -.9238 RRF -.9127 RTF .9861
SGB 6575.3 R23 -.0042 R13 -.9861
SG1 6563.6 SG2 392.5 THA 171.59

ORBIT DETERMINATION ACCURACY
ST 2733.9 SR 306.6 SS 1359.9
CRT -.5765 CRS .5129 CST -.9971
LSA 3056.9 MSA 269.1 SSA 13.4
EL1 2739.6 EL2 250.0 ALF 176.27

LAUNCH DATE SEP 21 1965 FLIGHT TIME 214.00 ARRIVAL DATE APR 23 1966

HELIOCENTRIC CONIC DISTANCE 590.070

RL 150.19 LAL -.00 LOL 357.80 VL 27.119 GAL 8.26 AZL 89.47 HCA 267.62 SMA 128.62 ECC .21956 INC .5348 V1 29.668
RP 108.72 LAP -.53 LOP 265.42 VP 37.543 GAP 9.07 AZP 90.02 TAL 147.38 TAP 54.99 RCA 100.38 APO 156.86 V2 34.856
RC 121.557 GL 2.75 GP 19.32 ZAL 32.95 ZAP 152.09 ETS 38.34 ZAE 118.46 ETE 169.51 ZAC 20.34 ETC 188.24 CLP-159.45

PLANETOCENTRIC CONIC

C3 27.238 VHL 5.219 DLA -10.61 RAL 326.30 RAD 6568.1 VEL 12.191 PTH 2.19 VHP 6.509 DPA -4.88 RAP 286.20 ECC 1.4483

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 28 23	1954.20	-12.52	25.63	190.99	115.61	11 0 58	1354.2	-8.97	18.75
90.00	19 44 7	5269.23	26.96	238.15	196.67	80.98	21 11 56	4669.2	25.43	229.81
100.00	11 44 27	1708.83	-13.69	7.00	190.39	116.84	12 12 56	1108.8	-9.98	.17
100.00	21 10 45	4989.83	28.24	217.35	196.42	79.78	22 33 54	4389.8	26.54	209.96
110.00	12 40 42	1532.69	-16.77	351.90	188.66	120.23	13 6 14	932.7	-12.63	345.23
110.00	22 30 59	4738.74	31.67	197.45	195.59	76.42	23 49 58	4138.7	29.48	188.93

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE 2.0173 TRA 5.2240 TC3-1.9799 BAU .7231 SGT 6574.3 SGR 965.2 SG3 429.6 ST 2823.5 SR 288.8 SS 1342.3
RDE .0412 RRA -.8512 RC3 .1530 FAU .02354 RRT -.9105 RRF -.8987 RTF .9857 CRT -.4896 CRS .4292 CST -.9976
FDE 1.7932 FRA 4.0277 FC3 -.7482 BSP 21284 SGB 6644.7 R23 -.0051 R13 -.9857 LSA 3128.3 MSA 266.4 SSA 13.3
BDE 2.0177 BRA 5.2929 BC3 1.9858 FSP -1539 SG1 6632.9 SG2 395.5 THA 172.36 EL1 2827.1 EL2 251.5 ALF 177.11

LAUNCH DATE SEP 21 1965 FLIGHT TIME 216.00 ARRIVAL DATE APR 25 1966

HELIOCENTRIC CONIC DISTANCE 595.779

RL 150.19 LAL -.00 LOL 357.80 VL 27.099 GAL 8.69 AZL 89.28 HCA 270.78 SMA 128.48 ECC .22521 INC .7191 V1 29.668
RP 108.75 LAP -.72 LOP 268.59 VP 37.520 GAP 9.60 AZP 89.99 TAL 146.56 TAP 57.35 RCA 99.55 APO 157.41 V2 34.846
RC 123.903 GL 3.56 GP 18.43 ZAL 32.34 ZAP 153.83 ETS 39.69 ZAE 117.95 ETE 170.11 ZAC 21.62 ETC 184.90 CLP-161.10

PLANETOCENTRIC CONIC

C3 29.332 VHL 5.416 DLA -9.62 RAL 326.68 RAD 6568.2 VEL 12.276 PTH 2.21 VHP 6.790 DPA -5.66 RAP 287.72 ECC 1.4827

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 21 54	2005.04	-14.00	28.63	192.57	114.87	10 55 19	1405.0	-10.53	21.67
90.00	19 53 36	5255.34	26.80	237.16	198.00	80.51	21 21 11	4655.3	25.22	228.85
100.00	11 38 31	1757.89	-15.18	9.88	191.99	116.07	12 7 49	1157.9	-11.55	2.96
100.00	21 19 40	4977.73	28.09	216.49	197.74	79.34	22 42 38	4377.7	26.34	208.12
110.00	12 36 0	1577.89	-18.30	354.51	190.28	119.39	13 2 17	977.9	-14.25	347.74
110.00	22 38 41	4730.49	31.54	196.85	196.87	76.08	23 57 31	4130.5	29.31	188.35

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE 2.1731 TRA 5.4994 TC3-1.8477 BAU .7263 SGT 6641.7 SGR 901.0 SG3 402.0 ST 2902.2 SR 274.8 SS 1322.0
RDE .0640 RRA -.8271 RC3 .1289 FAU .02045 RRT -.8959 RRF -.8834 RTF .9854 CRT -.3961 CRS .3395 CST -.9981
FDE 1.7633 FRA 3.9258 FC3 -.6035 BSP 21561 SGB 6702.5 R23 -.0058 R13 -.9854 LSA 3190.0 MSA 263.7 SSA 13.2
BDE 2.1741 BRA 5.5612 BC3 1.8722 FSP -1443 SG1 6690.7 SG2 397.4 THA 173.05 EL1 2904.3 EL2 252.1 ALF 177.84

LAUNCH DATE SEP 21 1965 FLIGHT TIME 218.00 ARRIVAL DATE APR 27 1966

HELIOCENTRIC CONIC DISTANCE 601.428

RL 150.19 LAL -.00 LOL 357.80 VL 27.078 GAL 9.15 AZL 89.10 HCA 273.95 SMA 128.34 ECC .23132 INC .9035 V1 29.668
RP 108.78 LAP -.90 LOP 271.75 VP 37.498 GAP 10.14 AZP 89.94 TAL 145.74 TAP 59.69 RCA 98.65 APO 158.03 V2 34.838
RC 126.245 GL 4.30 GP 17.63 ZAL 31.76 ZAP 155.48 ETS 41.19 ZAE 117.46 ETE 170.64 ZAC 23.03 ETC 182.11 CLP-162.68

PLANETOCENTRIC CONIC

C3 31.688 VHL 5.629 DLA -8.71 RAL 327.07 RAD 6568.3 VEL 12.372 PTH 2.23 VHP 7.090 DPA -6.34 RAP 289.30 ECC 1.5215

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 16 9	2054.17	-15.38	31.57	194.28	114.07	10 50 23	1454.2	-12.00	24.53
90.00	20 2 26	5244.99	26.69	236.43	199.44	80.16	21 29 51	4645.0	25.05	228.14
100.00	11 33 16	1805.42	-16.58	12.71	193.71	115.24	12 3 21	1205.4	-13.04	5.70
100.00	21 28 1	4968.98	27.98	215.86	199.17	79.03	22 50 50	4369.0	26.18	207.52
110.00	12 31 51	1621.95	-19.75	357.10	192.02	118.48	12 58 53	1021.9	-15.79	350.21
110.00	22 45 55	4725.21	31.45	196.46	198.28	75.87	24 4 40	4125.2	29.19	187.98

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE 2.3354 TRA 5.7886 TC3-1.7124 BAU .7269 SGT 6700.4 SGR 842.9 SG3 376.4 ST 2975.1 SR 263.9 SS 1302.1
RDE .0863 RRA -.8055 RC3 .1080 FAU .01753 RRT -.8799 RRF -.8669 RTF .9851 CRT -.3009 CRS .2486 CST -.9985
FDE 1.7344 FRA 3.8321 FC3 -.4788 BSP 21811 SGB 6753.2 R23 -.0063 R13 -.9851 LSA 3247.8 MSA 260.5 SSA 13.1
BDE 2.3369 BRA 5.8444 BC3 1.7158 FSP -1352 SG1 6741.5 SG2 398.1 THA 173.66 EL1 2976.1 EL2 251.6 ALF 178.46

LAUNCH DATE SEP 21 1965 FLIGHT TIME 220.00 ARRIVAL DATE APR 29 1966

HELIOCENTRIC CONIC DISTANCE 607.010

RL 150.19 LAL -.00 LOL 357.80 VL 27.057 GAL 9.64 AZL 88.91 HCA 277.12 SMA 128.20 ECC .23796 INC 1.0893 V1 29.668
RP 108.80 LAP -1.08 LOP 274.92 VP 37.475 GAP 10.71 AZP 89.87 TAL 144.92 TAP 62.04 RCA 97.70 APO 158.71 V2 34.830
RC 128.581 GL 4.96 GP 16.90 ZAL 31.20 ZAP 157.03 ETS 42.87 ZAE 117.00 ETE 171.10 ZAC 24.55 ETC 179.79 CLP-164.20

PLANETOCENTRIC CONIC

C3 34.341 VHL 5.860 DLA -7.86 RAL 327.47 RAD 6568.4 VEL 12.478 PTH 2.26 VHP 7.410 DPA -6.93 RAP 290.94 ECC 1.5652

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 11 4	2101.81	-16.68	34.47	196.09	113.22	10 46 5	1501.8	-13.40	27.33
90.00	20 10 42	5237.89	26.60	235.92	200.98	79.92	21 38 0	4637.9	24.94	227.65
100.00	11 28 37	1851.61	-17.90	15.51	195.53	114.35	11 59 28	1251.6	-14.46	8.40
100.00	21 35 50	4963.32	27.91	215.45	200.70	78.83	22 58 33	4363.3	26.08	207.13
110.00	12 28 13	1664.99	-21.13	359.68	193.87	117.52	12 55 58	1065.0	-17.28	352.67
110.00	22 52 43	4722.71	31.41	196.28	199.79	75.77	24 11 26	4122.7	29.14	187.81

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE 2.5049 TRA 6.0940 TC3-1.5747 BAU .7241 SGT 6751.3 SGR 790.0 SG3 352.6 ST 3042.5 SR 255.7 SS 1283.2
RDE .1083 RRA -.7860 RC3 .0900 FAU .01474 RRT -.8627 RRF -.8493 RTF .9849 CRT -.2068 CRS .1592 CST -.9988
FDE 1.7072 FRA 3.7469 FC3 -.3717 BSP 22030 SGB 6797.4 R23 -.0065 R13 -.9849 LSA 3301.9 MSA 257.0 SSA 12.9
BDE 2.5073 BRA 6.1445 BC3 1.5772 FSP -1266 SG1 6785.8 SG2 397.5 THA 174.22 EL1 3043.0 EL2 250.1 ALF 179.00

LAUNCH DATE SEP 22 1965 FLIGHT TIME 70.00 ARRIVAL DATE DEC 1 1965

HELIOCENTRIC CONIC DISTANCE 129.251

RL 150.15 LAL -.00 LOL 358.78 VL 15.642 GAL 26.27 AZL 93.79 HCA 36.33 SMA 87.13 ECC .78515 INC 3.7867 V1 29.676
RP 108.29 LAP -2.24 LOP 35.06 VP 30.465 GAP -50.33 AZP 93.05 TAL 171.96 TAP 208.29 RCA 18.72 APO 155.55 V2 34.996
RC 82.926 GL -3.06 GP -3.88 ZAL 64.74 ZAP 34.17 ETS 170.89 ZAE 134.04 ETE 179.25 ZAC 24.35 ETC 44.98 CLP 33.97

PLANETOCENTRIC CONIC

C3 301.493 VHL 17.364 DLA -24.31 RAL 296.55 RAD 6571.7 VEL 20.562 PTH 3.17 VHP 28.054 DPA -25.16 RAP 246.45 ECC 5.9618

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 51 51	1904.89	-11.05	22.75	194.77	116.24	11 23 36	1304.9	-7.44	15.94
90.00	15 15 25	1029.70	16.09	332.79	207.23	113.62	15 32 35	429.7	19.15	325.45
100.00	11 52 34	1708.87	-13.69	7.00	193.42	116.83	12 21 3	1108.9	-9.98	.17
100.00	16 57 23	700.95	18.79	309.85	208.47	113.68	17 9 4	101.0	21.83	302.37
110.00	12 20 31	1621.25	-19.73	357.06	190.12	118.50	12 47 32	1021.3	-15.77	350.17
110.00	18 45 56	5649.38	25.02	264.93	211.44	114.08	20 20 6	5049.4	28.06	257.07

DIFFERENTIAL CORRECTIONS

TDE -.4317 TRA-1.9425 TC3 -.1137 BAU .4583
RDE-1.3376 RRA .3597 RC3 .0026 FAU .01142
FDE .1513 FRA .7168 FC3 -.0328 BSP 1946
BDE 1.4055 BRA 1.9755 BC3 .1137 FSP -50

MID-COURSE EXECUTION ACCURACY

SGT 819.0 SGR 460.3 SG3 24.9
RRT -.0858 RRF .0810 RTF -.6139
SGB 939.5 R23 -.0044 R13 .6145
SGI 820.4 SG2 457.8 THA 175.99

ORBIT DETERMINATION ACCURACY

ST 254.9 SR 443.1 SS 224.3
CRT .4837 CRS .4631 CST .9962
LSA 487.7 MSA 271.2 SSA 14.1
EL1 464.8 EL2 212.6 ALF 70.13

LAUNCH DATE SEP 22 1965 FLIGHT TIME 72.00 ARRIVAL DATE DEC 3 1965

HELIOCENTRIC CONIC DISTANCE 134.755

RL 150.15 LAL -.00 LOL 358.78 VL 16.420 GAL 25.09 AZL 93.30 HCA 39.52 SMA 88.59 ECC .75889 INC 3.2960 V1 29.676
RP 108.24 LAP -2.10 LOP 38.26 VP 30.887 GAP -48.10 AZP 92.54 TAL 171.12 TAP 210.64 RCA 21.36 APO 155.81 V2 35.010
RC 80.714 GL -2.95 GP -3.98 ZAL 63.37 ZAP 32.67 ETS 170.39 ZAE 133.97 ETE 179.59 ZAC 23.35 ETC 48.13 CLP 32.45

PLANETOCENTRIC CONIC

C3 275.970 VHL 16.612 DLA -23.95 RAL 298.01 RAD 6571.6 VEL 19.932 PTH 3.13 VHP 27.025 DPA -25.61 RAP 248.24 ECC 5.5418

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 51 58	1913.91	-11.32	23.27	195.36	116.13	11 23 51	1313.9	-7.72	16.45
90.00	15 26 57	998.95	16.92	330.92	208.11	113.05	15 43 36	398.9	19.90	323.51
100.00	11 53 39	1714.79	-13.87	7.34	194.06	116.75	12 22 13	1114.8	-10.17	.51
100.00	17 7 57	673.30	19.54	308.13	209.29	113.08	17 19 10	73.3	22.49	300.59
110.00	12 22 59	1622.80	-19.78	357.15	190.83	118.46	12 50 2	1022.8	-15.82	350.26
110.00	18 55 6	5626.10	25.66	263.42	212.13	113.40	20 28 52	5026.1	28.60	255.48

DIFFERENTIAL CORRECTIONS

TDE -.4541 TRA-1.9620 TC3 -.1220 BAU .4501
RDE-1.2902 RRA .3699 RC3 .0023 FAU .01144
FDE .1672 FRA .7448 FC3 -.0359 BSP 2012
BDE 1.3678 BRA 1.9966 BC3 .1220 FSP -54

MID-COURSE EXECUTION ACCURACY

SGT 858.5 SGR 466.4 SG3 26.8
RRT -.0917 RRF .0876 RTF -.6329
SGB 977.0 R23 -.0056 R13 .6336
SGI 860.0 SG2 463.7 THA 175.98

ORBIT DETERMINATION ACCURACY

ST 272.1 SR 446.9 SS 238.7
CRT .4966 CRS .4843 CST .9967
LSA 501.9 MSA 280.4 SSA 14.3
EL1 473.4 EL2 223.0 ALF 68.08

LAUNCH DATE SEP 22 1965 FLIGHT TIME 74.00 ARRIVAL DATE DEC 5 1965

HELIOCENTRIC CONIC DISTANCE 140.378

RL 150.15 LAL -.00 LOL 358.78 VL 17.151 GAL 23.98 AZL 92.87 HCA 42.71 SMA 90.06 ECC .73264 INC 2.8671 V1 29.676
RP 108.20 LAP -1.94 LOP 41.46 VP 31.296 GAP -45.98 AZP 92.11 TAL 170.29 TAP 213.00 RCA 24.08 APO 156.04 V2 35.023
RC 78.516 GL -2.83 GP -4.08 ZAL 62.04 ZAP 31.19 ETS 169.83 ZAE 133.97 ETE 179.98 ZAC 22.41 ETC 51.62 CLP 30.95

PLANETOCENTRIC CONIC

C3 252.736 VHL 15.898 DLA -23.58 RAL 299.41 RAD 6571.5 VEL 19.340 PTH 3.10 VHP 26.033 DPA -26.05 RAP 250.07 ECC 5.1594

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 51 46	1922.62	-11.58	23.78	195.85	116.02	11 23 49	1322.6	-7.99	16.94
90.00	15 38 16	967.32	17.75	328.97	208.87	112.43	15 54 23	367.3	20.64	321.49
100.00	11 54 22	1720.54	-14.05	7.68	194.60	116.66	12 23 3	1120.5	-10.36	.83
100.00	17 18 21	644.64	20.29	306.34	209.98	112.43	17 29 6	44.6	23.16	298.71
110.00	12 25 5	1624.23	-19.83	357.23	191.45	118.43	12 52 9	1024.2	-15.87	350.34
110.00	19 4 7	5601.75	26.31	261.83	212.70	112.65	20 37 29	5001.8	29.14	253.79

DIFFERENTIAL CORRECTIONS

TDE -.4757 TRA-1.9824 TC3 -.1306 BAU .4413
RDE-1.2427 RRA .3789 RC3 .0018 FAU .01147
FDE .1835 FRA .7735 FC3 -.0393 BSP 2082
BDE 1.3306 BRA 2.0183 BC3 .1306 FSP -59

MID-COURSE EXECUTION ACCURACY

SGT 899.7 SGR 472.0 SG3 29.0
RRT -.0982 RRF .0947 RTF -.6514
SGB 1016.0 R23 -.0070 R13 .6521
SGI 901.4 SG2 468.9 THA 175.96

ORBIT DETERMINATION ACCURACY

ST 290.3 SR 450.1 SS 253.6
CRT .5078 CRS .5034 CST .9971
LSA 517.0 MSA 289.2 SSA 14.6
EL1 482.0 EL2 233.5 ALF 65.87

LAUNCH DATE SEP 22 1965 FLIGHT TIME 76.00 ARRIVAL DATE DEC 7 1965

HELIOCENTRIC CONIC DISTANCE 146.103

RL 150.15 LAL -.00 LOL 358.78 VL 17.838 GAL 22.92 AZL 92.49 HCA 45.91 SMA 91.55 ECC .70653 INC 2.4867 V1 29.676
RP 108.16 LAP -1.79 LOP 44.66 VP 31.692 GAP -43.98 AZP 91.73 TAL 169.47 TAP 215.38 RCA 26.87 APO 156.24 V2 35.036
RC 76.333 GL -2.69 GP -4.20 ZAL 60.76 ZAP 29.74 ETS 169.22 ZAE 134.05 ETE 180.40 ZAC 21.57 ETC 55.47 CLP 29.47

PLANETOCENTRIC CONIC

C3 231.512 VHL 15.216 DLA -23.19 RAL 300.73 RAD 6571.3 VEL 18.784 PTH 3.06 VHP 25.072 DPA -26.49 RAP 251.93 ECC 4.8101

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 51 18	1930.88	-11.83	24.26	196.25	115.92	11 23 28	1330.9	-8.25	17.41
90.00	15 49 20	934.88	18.58	326.95	209.49	111.76	16 4 55	334.9	21.37	319.39
100.00	11 54 46	1725.99	-14.21	8.00	195.04	116.58	12 23 32	1126.0	-10.53	1.14
100.00	17 28 33	615.01	21.05	304.46	210.54	111.73	17 38 48	15.0	23.81	296.76
110.00	12 26 50	1625.43	-19.86	357.31	191.97	118.41	12 53 56	1025.4	-15.92	350.41
110.00	19 12 58	5576.37	26.97	260.15	213.13	111.85	20 45 54	4976.4	29.68	252.01

DIFFERENTIAL CORRECTIONS

TDE -.4151 TRA-1.9220 TC3 -.1255 BAU .3884
RDE-1.1964 RRA .3651 RC3 .0008 FAU .01197
FDE .1905 FRA .7930 FC3 -.0448 BSP 4104
BDE 1.2664 BRA 1.9602 BC3 .1255 FSP -85

MID-COURSE EXECUTION ACCURACY

SGT 888.9 SGR 477.4 SG3 31.1
RRT -.1290 RRF .1083 RTF -.6727
SGB 1009.0 R23 .0126 R13 .6729
SGI 891.9 SG2 471.8 THA 174.49

ORBIT DETERMINATION ACCURACY

ST 283.5 SR 453.0 SS 262.0
CRT .4614 CRS .5051 CST .9960
LSA 515.7 MSA 297.1 SSA 14.2
EL1 478.4 EL2 238.2 ALF 68.25

LAUNCH DATE SEP 22 1965 FLIGHT TIME 78.00 ARRIVAL DATE DEC 9 1965

HELIOCENTRIC CONIC DISTANCE 151.947

RL	150.15	LAL	-.00	LOL	358.78	VL	18.482	GAL	21.93	AZL	92.15	HCA	49.10	SMA	93.06	ECC	.68075	INC	2.1452	V1	29.676
RP	108.12	LAP	-1.62	LOP	47.87	VP	32.074	GAP	-42.07	AZP	91.40	TAL	168.66	TAP	217.76	RCA	29.71	APO	156.40	V2	35.049
RC	74.169	GL	-2.53	GP	-4.33	ZAL	59.53	ZAP	28.32	ETS	168.53	ZAE	134.21	ETE	180.87	ZAC	20.83	ETC	59.69	CLP	28.02

PLANETOCENTRIC CONIC

C3	212.216	VHL	14.568	DLA	-22.77	RAL	302.01	RAD	6571.2	VEL	18.263	PTH	3.03	VHP	24.146	DPA	-26.92	RAP	253.83	ECC	4.4925

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 50 32	1938.91	-12.07	24.73	196.56	115.81	11 22 51	1338.9	-8.50	17.87
90.00	16 0 15	901.52	19.41	324.85	209.99	111.03	16 15 17	301.5	22.10	317.21
100.00	11 54 51	1731.32	-14.38	8.31	195.40	116.49	12 23 42	1131.3	-10.70	1.45
100.00	17 38 37	5872.38	21.81	280.41	210.98	110.96	19 16 30	5272.4	24.47	272.62
110.00	12 28 16	1626.56	-19.90	357.37	192.40	118.38	12 55 22	1026.6	-15.96	350.47
110.00	19 21 42	5549.91	27.62	258.37	213.43	110.99	20 54 12	4949.9	30.22	250.14

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TDE	-.4915	TRA	-2.0000	TC3	-.1440	BAU	.4086	SGT	970.2	SGR	481.6	SG3	33.7	ST	321.0	SR	454.3	SS	283.2
RDE	-1.1480	RRA	.3927	RC3	.0002	FAU	.01172	RRT	-.1196	RRF	.1125	RTF	-.6874	CRT	.5103	CRS	.5317	CST	.9972
FDE	.2147	FRA	.8299	FC3	-.0478	BSP	2836	SGB	1083.1	R23	-.0041	R13	.6880	LSA	544.4	MSA	304.9	SSA	14.8
BDE	1.2487	BRA	2.0382	BC3	.1440	FSP	-76	SG1	972.4	SG2	477.0	THA	175.53	EL1	495.3	EL2	253.2	ALF	62.39

LAUNCH DATE SEP 22 1965 FLIGHT TIME 80.00 ARRIVAL DATE DEC 11 1965

HELIOCENTRIC CONIC DISTANCE 157.885

RL	150.15	LAL	-.00	LOL	358.78	VL	19.088	GAL	20.99	AZL	91.84	HCA	52.31	SMA	94.56	ECC	.65533	INC	1.8350	V1	29.676
RP	108.08	LAP	-1.45	LOP	51.07	VP	32.441	GAP	-40.25	AZP	91.12	TAL	167.86	TAP	220.16	RCA	32.59	APO	156.54	V2	35.063
RC	72.025	GL	-2.34	GP	-4.46	ZAL	58.34	ZAP	26.92	ETS	167.75	ZAE	134.44	ETE	181.39	ZAC	20.22	ETC	64.27	CLP	26.58

PLANETOCENTRIC CONIC

C3	194.562	VHL	13.949	DLA	-22.34	RAL	303.21	RAD	6571.1	VEL	17.773	PTH	2.99	VHP	23.249	DPA	-27.35	RAP	255.77	ECC	4.2020

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 49 30	1946.48	-12.29	25.17	196.78	115.71	11 21 56	1346.5	-8.73	18.30
90.00	16 10 56	867.33	20.23	322.68	210.35	110.25	16 25 23	267.3	22.81	314.96
100.00	11 54 37	1736.32	-14.53	8.61	195.65	116.41	12 23 33	1136.3	-10.86	1.73
100.00	17 48 30	5840.76	22.57	278.37	211.27	110.14	19 25 51	5240.8	25.11	270.49
110.00	12 29 20	1627.45	-19.93	357.43	192.72	118.36	12 56 28	1027.4	-15.99	350.52
110.00	19 30 15	5522.40	28.28	256.50	213.59	110.05	21 2 18	4922.4	30.74	248.17

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TDE	-.5123	TRA	-2.0237	TC3	-.1535	BAU	.3992	SGT	1017.5	SGR	485.4	SG3	36.3	ST	342.3	SR	455.1	SS	300.1
RDE	-1.1005	RRA	.3982	RC3	-.0009	FAU	.01179	RRT	-.1271	RRF	.1213	RTF	-.7039	CRT	.5188	CRS	.5461	CST	.9972
FDE	.2327	FRA	.8609	FC3	-.0525	BSP	2878	SGB	1127.4	R23	-.0062	R13	.7046	LSA	563.0	MSA	311.7	SSA	15.1
BDE	1.2139	BRA	2.0625	BC3	.1535	FSP	-82	SG1	1019.9	SG2	480.3	THA	175.54	EL1	504.6	EL2	263.9	ALF	59.55

LAUNCH DATE SEP 22 1965 FLIGHT TIME 82.00 ARRIVAL DATE DEC 13 1965

HELIOCENTRIC CONIC DISTANCE 163.914

RL	150.15	LAL	-.00	LOL	358.78	VL	19.657	GAL	20.09	AZL	91.55	HCA	55.51	SMA	96.07	ECC	.63038	INC	1.5502	V1	29.676
RP	108.04	LAP	-1.28	LOP	54.28	VP	32.793	GAP	-38.52	AZP	90.88	TAL	167.08	TAP	222.59	RCA	35.51	APO	156.64	V2	35.076
RC	69.906	GL	-2.14	GP	-4.61	ZAL	57.20	ZAP	25.55	ETS	166.88	ZAE	134.75	ETE	181.96	ZAC	19.76	ETC	69.17	CLP	25.15

PLANETOCENTRIC CONIC

C3	178.419	VHL	13.357	DLA	-21.90	RAL	304.36	RAD	6570.9	VEL	17.313	PTH	2.95	VHP	22.380	DPA	-27.77	RAP	257.73	ECC	3.9363

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 48 11	1953.66	-12.50	25.60	196.90	115.61	11 20 44	1353.7	-8.95	18.72
90.00	16 21 23	832.25	21.04	320.43	210.57	109.40	16 35 15	232.3	23.50	312.62
100.00	11 54 3	1741.04	-14.67	8.88	195.81	116.34	12 23 4	1141.0	-11.01	2.00
100.00	17 58 11	5808.14	23.32	276.23	211.43	109.26	19 34 59	5208.1	25.73	268.26
110.00	12 30 5	1628.11	-19.95	357.47	192.95	118.35	12 57 13	1028.1	-16.01	350.56
110.00	19 38 39	5493.84	28.93	254.53	213.60	109.06	21 10 13	4893.8	31.25	246.10

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TDE	-.5290	TRA	-2.0440	TC3	-.1625	BAU	.3875	SGT	1064.3	SGR	488.7	SG3	39.2	ST	363.3	SR	455.2	SS	317.3
RDE	-1.0532	RRA	.4026	RC3	-.0022	FAU	.01189	RRT	-.1363	RRF	.1312	RTF	-.7199	CRT	.5241	CRS	.5585	CST	.9971
FDE	.2510	FRA	.8925	FC3	-.0577	BSP	3008	SGB	1171.1	R23	-.0077	R13	.7206	LSA	582.1	MSA	317.6	SSA	15.2
BDE	1.1786	BRA	2.0833	BC3	.1625	FSP	-89	SG1	1066.9	SG2	482.9	THA	175.49	EL1	513.9	EL2	274.1	ALF	56.73

LAUNCH DATE SEP 22 1965 FLIGHT TIME 84.00 ARRIVAL DATE DEC 15 1965

HELIOCENTRIC CONIC DISTANCE 170.031

RL	150.15	LAL	-.00	LOL	358.78	VL	20.192	GAL	19.22	AZL	91.29	HCA	58.72	SMA	97.58	ECC	.60597	INC	1.2864	V1	29.676
RP	108.00	LAP	-1.10	LOP	57.49	VP	33.130	GAP	-36.86	AZP	90.67	TAL	166.31	TAP	225.03	RCA	38.45	APO	156.71	V2	35.089
RC	67.813	GL	-1.92	GP	-4.78	ZAL	56.11	ZAP	24.19	ETS	165.89	ZAE	135.14	ETE	182.60	ZAC	19.45	ETC	74.33	CLP	23.74

PLANETOCENTRIC CONIC

C3	163.652	VHL	12.793	DLA	-21.43	RAL	305.44	RAD	6570.8	VEL	16.881	PTH	2.91	VHP	21.539	DPA	-28.17	RAP	259.72	ECC	3.6933

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 46 34	1960.48	-12.70	26.00	196.92	115.52	11 19 15	1360.5	-9.16	19.11
90.00	16 31 37	796.27	21.84	318.09	210.65	108.49	16 44 54	196.3	24.16	310.19
100.00	11 53 11	1745.50	-14.81	9.15	195.87	116.27	12 22 17	1145.5	-11.16	2.26
100.00	18 7 42	5774.52	24.05	274.01	211.45	108.31	19 43 56	5174.5	26.33	265.95
110.00	12 30 29	1628.58	-19.97	357.49	193.08	118.34	12 57 38	1028.6	-16.03	350.59
110.00	19 46 53	5464.21	29.57	252.46	213.48	107.98	21 17 57	4864.2	31.74	243.93

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TDE	-.5440	TRA	-2.0637	TC3	-.1714	BAU	.3751	SGT	1112.5	SGR	491.3	SG3	42.2	ST	385.1	SR	454.5	SS	335.1
RDE	-1.0062	RRA	.4061	RC3	-.0037	FAU	.01202	RRT	-.1464	RRF	.1419	RTF	-.7353	CRT	.5277	CRS	.5693	CST	.9969
FDE	.2696	FRA	.9250	FC3	-.0636	BSP	3159	SGB	1216.1	R23	-.0091	R13	.7361	LSA	602.3	MSA	322.6	SSA	15.4
BDE	1.1439	BRA	2.1033	BC3	.1714	FSP	-97	SG1	1115.3	SG2	484.8	THA	175.44	EL1	523.7	EL2	283.8	ALF	53.75

LAUNCH DATE SEP 22 1965 FLIGHT TIME 86.00 ARRIVAL DATE DEC 17 1965

HELIOCENTRIC CONIC DISTANCE 176.228

RL 150.15 LAL -.00 LOL 358.78 VL 20.694 GAL 18.40 AZL 91.04 HCA 61.93 SMA 99.07 ECC .58216 INC 1.0398 V1 29.676
RP 107.96 LAP -.92 LOP 60.71 VP 33.452 GAP -35.28 AZP 90.49 TAL 165.57 TAP 227.50 RCA 41.40 APO 156.75 V2 35.101
RC 65.751 GL -1.67 GP -4.95 ZAL 55.07 ZAP 22.86 ETS 164.75 ZAE 135.62 ETE 183.31 ZAC 19.32 ETC 79.66 CLP 22.35

PLANETOCENTRIC CONIC

C3 150.136 VHL 12.253 DLA -20.94 RAL 306.46 RAD 6570.6 VEL 16.476 PTH 2.87 VHP 20.724 DPA -28.57 RAP 261.75 ECC 3.4709

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 44 41	1966.97	-12.89	26.38	196.86	115.43	11 17 28	1367.0	-9.36	19.48
90.00	16 41 40	759.36	22.61	315.66	210.59	107.51	16 54 19	159.4	24.80	307.67
100.00	11 52 0	1749.72	-14.93	9.40	195.84	116.20	12 21 9	1149.7	-11.29	2.50
100.00	18 17 2	5739.89	24.77	271.68	211.32	107.29	19 52 42	5139.9	26.90	263.53
110.00	12 30 33	1628.87	-19.98	357.51	193.12	118.33	12 57 42	1028.9	-16.04	350.61
110.00	19 54 58	5433.50	30.20	250.29	213.20	106.84	21 25 31	4833.5	32.20	241.65

DIFFERENTIAL CORRECTIONS
TDE -.5562 TRA-2.0812 TC3 -.1799 BAU .3612
RDE -.9596 RRA .4087 RC3 -.0056 FAU .01218
FDE .2887 FRA .9583 FC3 -.0702 BSP 3365
BDE 1.1091 BRA 2.1210 BC3 .1799 FSP -107

MID-COURSE EXECUTION ACCURACY
SGT 1160.9 SGR 493.3 SG3 45.6
RRT -.1579 RRF .1537 RTF -.7502
SGB 1261.4 R23 -.0102 R13 .7509
SG1 1164.1 SG2 485.8 THA 175.35

ORBIT DETERMINATION ACCURACY
ST 406.9 SR 452.9 SS 353.5
CRT .5293 CRS .5787 CST .9965
LSA 623.3 MSA 326.9 SSA 15.6
EL1 533.7 EL2 292.9 ALF 50.73

LAUNCH DATE SEP 22 1965 FLIGHT TIME 88.00 ARRIVAL DATE DEC 19 1965

HELIOCENTRIC CONIC DISTANCE 182.501

RL 150.15 LAL -.00 LOL 358.78 VL 21.166 GAL 17.61 AZL 90.81 HCA 65.14 SMA 100.56 ECC .55900 INC .8073 V1 29.676
RP 107.92 LAP -.73 LOP 63.92 VP 33.758 GAP -33.76 AZP 90.34 TAL 164.85 TAP 229.99 RCA 44.35 APO 156.77 V2 35.114
RC 63.722 GL -1.39 GP -5.15 ZAL 54.07 ZAP 21.56 ETS 163.45 ZAE 136.19 ETE 184.10 ZAC 19.38 ETC 85.07 CLP 20.96

PLANETOCENTRIC CONIC

C3 137.764 VHL 11.737 DLA -20.43 RAL 307.42 RAD 6570.5 VEL 16.096 PTH 2.83 VHP 19.934 DPA -28.97 RAP 263.80 ECC 3.2673

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 42 29	1973.20	-13.08	26.75	196.70	115.34	11 15 22	1373.2	-9.56	19.84
90.00	16 51 30	721.48	23.37	313.14	210.37	106.47	17 3 32	121.5	25.40	305.06
100.00	11 50 29	1753.75	-15.05	9.63	195.72	116.13	12 19 42	1153.8	-11.42	2.73
100.00	18 26 12	5704.20	25.47	269.26	211.05	106.20	20 1 16	5104.2	27.45	261.02
110.00	12 30 16	1629.02	-19.98	357.52	193.06	118.33	12 57 25	1029.0	-16.04	350.61
110.00	20 2 53	5401.70	30.80	248.01	212.77	105.61	21 32 55	4801.7	32.63	239.27

DIFFERENTIAL CORRECTIONS
TDE -.5700 TRA-2.1009 TC3 -.1889 BAU .3482
RDE -.9132 RRA .4106 RC3 -.0079 FAU .01235
FDE .3088 FRA .9932 FC3 -.0776 BSP 3514
BDE 1.0765 BRA 2.1406 BC3 .1691 FSP -116

MID-COURSE EXECUTION ACCURACY
SGT 1213.2 SGR 494.8 SG3 49.1
RRT -.1697 RRF .1664 RTF -.7642
SGB 1310.2 R23 -.0121 R13 .7650
SG1 1216.6 SG2 486.2 THA 175.29

ORBIT DETERMINATION ACCURACY
ST 430.6 SR 450.4 SS 372.8
CRT .5310 CRS .5872 CST .9961
LSA 646.5 MSA 330.1 SSA 15.7
EL1 545.4 EL2 301.3 ALF 47.42

LAUNCH DATE SEP 22 1965 FLIGHT TIME 90.00 ARRIVAL DATE DEC 21 1965

HELIOCENTRIC CONIC DISTANCE 188.844

RL 150.15 LAL -.00 LOL 358.78 VL 21.609 GAL 16.85 AZL 90.59 HCA 68.36 SMA 102.02 ECC .53653 INC .5864 V1 29.676
RP 107.89 LAP -.55 LOP 67.14 VP 34.051 GAP -32.30 AZP 90.22 TAL 164.15 TAP 232.51 RCA 47.28 APO 156.76 V2 35.126
RC 61.731 GL -1.08 GP -5.36 ZAL 53.12 ZAP 20.28 ETS 161.94 ZAE 136.85 ETE 184.98 ZAC 19.63 ETC 90.44 CLP 19.59

PLANETOCENTRIC CONIC

C3 126.436 VHL 11.244 DLA -19.90 RAL 308.32 RAD 6570.3 VEL 15.741 PTH 2.79 VHP 19.169 DPA -29.35 RAP 265.87 ECC 3.0808

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 39 57	1979.22	-13.25	27.10	196.45	115.26	11 12 57	1379.2	-9.74	20.18
90.00	17 1 10	682.61	24.09	310.52	210.02	105.35	17 12 33	82.6	25.97	302.36
100.00	11 48 37	1757.65	-15.17	9.86	195.50	116.07	12 17 55	1157.6	-11.54	2.95
100.00	18 35 12	5667.45	26.15	266.74	210.63	105.03	20 9 39	5067.5	27.95	258.41
110.00	12 29 39	1629.08	-19.98	357.52	192.90	118.33	12 56 48	1029.1	-16.04	350.62
110.00	20 10 40	5368.78	31.38	245.62	212.20	104.31	21 40 8	4768.8	33.03	236.78

DIFFERENTIAL CORRECTIONS
TDE -.5808 TRA-2.1179 TC3 -.1973 BAU .3340
RDE -.8673 RRA .4118 RC3 -.0105 FAU .01255
FDE .3294 FRA 1.0291 FC3 -.0859 BSP 3720
BDE 1.0438 BRA 2.1576 BC3 .1976 FSP -127

MID-COURSE EXECUTION ACCURACY
SGT 1265.6 SGR 495.7 SG3 53.0
RRT -.1830 RRF .1804 RTF -.7778
SGB 1359.2 R23 -.0137 R13 .7786
SG1 1269.4 SG2 485.8 THA 175.19

ORBIT DETERMINATION ACCURACY
ST 454.2 SR 447.0 SS 392.6
CRT .5307 CRS .5943 CST .9956
LSA 670.5 MSA 332.4 SSA 15.9
EL1 557.5 EL2 308.6 ALF 44.13

LAUNCH DATE SEP 22 1965 FLIGHT TIME 92.00 ARRIVAL DATE DEC 23 1965

HELIOCENTRIC CONIC DISTANCE 195.251

RL 150.15 LAL -.00 LOL 358.78 VL 22.025 GAL 16.12 AZL 90.38 HCA 71.58 SMA 103.47 ECC .51477 INC .3750 V1 29.676
RP 107.85 LAP -.36 LOP 70.36 VP 34.328 GAP -30.90 AZP 90.12 TAL 163.48 TAP 235.05 RCA 50.20 APO 156.73 V2 35.138
RC 59.781 GL -.74 GP -5.59 ZAL 52.22 ZAP 19.03 ETS 160.18 ZAE 137.60 ETE 185.98 ZAC 20.07 ETC 95.66 CLP 18.22

PLANETOCENTRIC CONIC

C3 116.064 VHL 10.773 DLA -19.35 RAL 309.15 RAD 6570.2 VEL 15.408 PTH 2.75 VHP 18.427 DPA -29.73 RAP 267.97 ECC 2.9101

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 37 6	1985.14	-13.42	27.45	196.11	115.17	11 10 11	1385.1	-9.92	20.52
90.00	17 10 40	642.69	24.78	307.80	209.51	104.15	17 21 23	42.7	26.49	299.55
100.00	11 46 25	1761.50	-15.28	10.09	195.19	116.01	12 15 46	1161.5	-11.67	3.17
100.00	18 44 3	5629.61	26.79	264.11	210.07	103.79	20 17 53	5029.6	28.42	255.69
110.00	12 28 39	1629.12	-19.98	357.53	192.66	118.33	12 55 48	1029.1	-16.04	350.62
110.00	20 18 18	5334.74	31.93	243.12	211.46	102.92	21 47 13	4734.7	33.37	234.19

DIFFERENTIAL CORRECTIONS
TDE -.5905 TRA-2.1342 TC3 -.2053 BAU .3192
RDE -.8219 RRA .4125 RC3 -.0137 FAU .01278
FDE .3508 FRA 1.0666 FC3 -.0953 BSP 3935
BDE 1.0120 BRA 2.1737 BC3 .2057 FSP -139

MID-COURSE EXECUTION ACCURACY
SGT 1319.6 SGR 496.0 SG3 57.2
RRT -.1977 RRF .1958 RTF -.7907
SGB 1409.7 R23 -.0154 R13 .7916
SG1 1323.8 SG2 484.6 THA 175.09

ORBIT DETERMINATION ACCURACY
ST 478.6 SR 442.6 SS 413.2
CRT .5292 CRS .6002 CST .9950
LSA 695.7 MSA 333.9 SSA 16.0
EL1 570.8 EL2 314.9 ALF 40.80

LAUNCH DATE SEP 22 1965 FLIGHT TIME 94.00 ARRIVAL DATE DEC 25 1965

HELIOCENTRIC CONIC DISTANCE 201.717

RL	150.15	LAL	-.00	LOL	358.78	VL	22.415	GAL	15.42	AZL	90.17	HCA	74.80	SMA	104.88	ECC	.49375	INC	.1710	V1	29.676
RP	107.81	LAP	-.17	LOP	73.58	VP	34.592	GAP	-29.55	AZP	90.04	TAL	162.83	TAP	237.63	RCA	53.10	APO	156.67	V2	35.149
RC	57.879	GL	-.36	GP	-5.85	ZAL	51.37	ZAP	17.82	ETS	158.11	ZAE	138.44	ETE	187.10	ZAC	20.68	ETC	100.64	CLP	16.86

PLANETOCENTRIC CONIC

C3	106.570	VHL	10.323	DLA	-18.77	RAL	309.92	RAD	6570.0	VEL	15.097	PTH	2.71	VHP	17.708	DPA	-30.10	RAP	270.09	ECC	2.7539

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 33 54	1991.05	-13.59	27.80	195.68	115.08	11 7 5	1391.0	-10.10	20.86
90.00	17 20 1	601.70	25.44	304.98	208.86	102.88	17 30 3	1.7	26.96	296.64
100.00	11 43 50	1765.38	-15.40	10.32	194.79	115.94	12 13 15	1165.4	-11.79	3.39
100.00	18 52 46	5590.64	27.39	261.37	209.35	102.47	20 25 57	4990.6	28.83	252.87
110.00	12 27 17	1629.23	-19.99	357.53	192.32	118.33	12 54 26	1029.2	-16.05	350.63
110.00	20 25 48	5299.56	32.43	240.50	210.58	101.44	21 54 8	4699.6	33.67	231.48

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-.5990	TRA	-2.1495	TC3	-.2128	BAU	.3042	SGT	1375.2	SGR	495.8	SG3	61.8	ST	503.6	SR	437.3	SS	434.7
RDE	-.7770	RRA	.4128	RC3	-.0174	FAU	.01305	RRT	-.2137	RRF	.2127	RTF	-.8031	CRT	.5265	CRS	.6051	CST	.9942
FDE	.3731	FRA	1.1056	FC3	-.1060	BSP	4162	SGB	1461.8	R23	-.0173	R13	.8040	LSA	722.3	MSA	334.4	SSA	16.1
BDE	.9811	BRA	2.1887	BC3	.2135	FSP	-152	SG1	1379.8	SG2	482.7	THA	174.98	EL1	585.2	EL2	319.9	ALF	37.47

LAUNCH DATE SEP 22 1965 FLIGHT TIME 96.00 ARRIVAL DATE DEC 27 1965

HELIOCENTRIC CONIC DISTANCE 208.238

RL	150.15	LAL	-.00	LOL	358.78	VL	22.782	GAL	14.75	AZL	89.97	HCA	78.02	SMA	106.28	ECC	.47349	INC	.0210	V1	29.676
RP	107.78	LAP	.03	LOP	76.80	VP	34.842	GAP	-28.25	AZP	89.99	TAL	162.22	TAP	240.24	RCA	55.96	APO	156.60	V2	35.160
RC	56.028	GL	.06	GP	-6.12	ZAL	50.56	ZAP	16.64	ETS	155.68	ZAE	139.39	ETE	188.36	ZAC	21.47	ETC	105.30	CLP	15.51

PLANETOCENTRIC CONIC

C3	97.883	VHL	9.894	DLA	-18.16	RAL	310.63	RAD	6569.9	VEL	14.806	PTH	2.68	VHP	17.011	DPA	-30.47	RAP	272.23	ECC	2.6109

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 30 19	1997.08	-13.77	28.16	195.16	114.99	11 3 36	1397.1	-10.28	21.21
90.00	17 29 14	5847.63	26.04	279.95	208.06	101.53	19 6 41	5247.6	27.37	271.53
100.00	11 40 52	1769.44	-15.52	10.56	194.30	115.87	12 10 22	1169.4	-11.92	3.63
100.00	19 1 22	5550.51	27.95	258.52	208.48	101.06	20 33 53	4950.5	29.19	249.94
110.00	12 25 32	1629.51	-20.00	357.55	191.90	118.32	12 52 41	1029.5	-16.06	350.64
110.00	20 33 12	5263.20	32.89	237.76	209.54	99.89	22 0 55	4663.2	33.90	228.67

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-.6097	TRA	-2.1670	TC3	-.2210	BAU	.2905	SGT	1435.3	SGR	495.1	SG3	66.7	ST	530.9	SR	430.9	SS	457.5
RDE	-.7325	RRA	.4128	RC3	-.0216	FAU	.01332	RRT	-.2305	RRF	.2312	RTF	-.8146	CRT	.5241	CRS	.6090	CST	.9936
FDE	.3969	FRA	1.1470	FC3	-.1178	BSP	4327	SGB	1518.3	R23	-.0203	R13	.8156	LSA	751.7	MSA	333.8	SSA	16.3
BDE	.9530	BRA	2.2060	BC3	.2220	FSP	-165	SG1	1440.4	SG2	480.0	THA	174.88	EL1	602.4	EL2	323.4	ALF	34.07

LAUNCH DATE SEP 22 1965 FLIGHT TIME 98.00 ARRIVAL DATE DEC 29 1965

HELIOCENTRIC CONIC DISTANCE 214.808

RL	150.15	LAL	-.00	LOL	358.78	VL	23.126	GAL	14.11	AZL	89.78	HCA	81.25	SMA	107.64	ECC	.45400	INC	.2185	V1	29.676
RP	107.75	LAP	.22	LOP	80.03	VP	35.078	GAP	-27.00	AZP	89.97	TAL	161.64	TAP	242.88	RCA	58.77	APO	156.50	V2	35.171
RC	54.237	GL	.52	GP	-6.43	ZAL	49.81	ZAP	15.52	ETS	152.80	ZAE	140.43	ETE	189.80	ZAC	22.42	ETC	109.60	CLP	14.15

PLANETOCENTRIC CONIC

C3	89.936	VHL	9.483	DLA	-17.52	RAL	311.27	RAD	6569.8	VEL	14.536	PTH	2.64	VHP	16.336	DPA	-30.84	RAP	274.38	ECC	2.4801

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 26 21	2003.37	-13.95	28.53	194.57	114.90	10 59 44	1403.4	-10.48	21.57
90.00	17 38 20	5804.36	26.60	276.90	207.11	100.10	19 15 4	5204.4	27.72	268.42
100.00	11 37 30	1773.78	-15.65	10.82	193.73	115.80	12 7 4	1173.8	-12.05	3.88
100.00	19 9 32	5509.19	28.45	255.55	207.47	99.58	20 41 41	4909.2	29.48	246.90
110.00	12 23 22	1630.07	-20.01	357.58	191.39	118.31	12 50 32	1030.1	-16.08	350.67
110.00	20 40 29	5225.66	33.29	234.90	208.36	98.24	22 7 35	4625.7	34.07	225.75

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-.6174	TRA	-2.1813	TC3	-.2277	BAU	.2756	SGT	1495.1	SGR	494.0	SG3	72.1	ST	557.8	SR	423.4	SS	481.0
RDE	-.6886	RRA	.4127	RC3	-.0266	FAU	.01364	RRT	-.2496	RRF	.2518	RTF	-.8257	CRT	.5194	CRS	.6116	CST	.9927
FDE	.4217	FRA	1.1902	FC3	-.1313	BSP	4546	SGB	1574.6	R23	-.0231	R13	.8268	LSA	781.7	MSA	332.5	SSA	16.4
BDE	.9249	BRA	2.2200	BC3	.2292	FSP	-181	SG1	1500.8	SG2	476.5	THA	174.75	EL1	620.1	EL2	325.5	ALF	30.87

LAUNCH DATE SEP 22 1965 FLIGHT TIME 100.00 ARRIVAL DATE DEC 31 1965

HELIOCENTRIC CONIC DISTANCE 221.422

RL	150.15	LAL	-.00	LOL	358.78	VL	23.448	GAL	13.49	AZL	89.59	HCA	84.47	SMA	108.96	ECC	.43529	INC	.4087	V1	29.676
RP	107.72	LAP	.41	LOP	83.26	VP	35.302	GAP	-25.80	AZP	89.96	TAL	161.09	TAP	245.56	RCA	61.53	APO	156.40	V2	35.181
RC	52.511	GL	1.03	GP	-6.76	ZAL	49.10	ZAP	14.45	ETS	149.38	ZAE	141.57	ETE	191.45	ZAC	23.51	ETC	113.52	CLP	12.80

PLANETOCENTRIC CONIC

C3	82.671	VHL	9.092	DLA	-16.84	RAL	311.84	RAD	6569.6	VEL	14.284	PTH	2.60	VHP	15.682	DPA	-31.21	RAP	276.55	ECC	2.3606

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 21 56	2010.09	-14.14	28.93	193.89	114.79	10 55 26	1410.1	-10.68	21.96
90.00	17 47 20	5759.89	27.09	273.74	206.02	98.59	19 23 20	5159.9	28.00	265.19
100.00	11 33 41	1778.57	-15.79	11.11	193.08	115.71	12 3 20	1178.6	-12.20	4.15
100.00	19 18 16	5466.65	28.89	252.47	206.32	98.01	20 49 22	4866.6	29.70	243.76
110.00	12 20 46	1631.07	-20.05	357.64	190.81	118.29	12 47 57	1031.1	-16.11	350.73
110.00	20 47 40	5186.91	33.63	231.93	207.02	96.51	22 14 7	4586.9	34.17	222.73

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-.6237	TRA	-2.1940	TC3	-.2333	BAU	.2604	SGT	1556.0	SGR	492.6	SG3	77.9	ST	585.2	SR	414.7	SS	505.6
RDE	-.6453	RRA	.4126	RC3	-.0324	FAU	.01400	RRT	-.2709	RRF	.2746	RTF	-.8363	CRT	.5131	CRS	.6129	CST	.9917
FDE	.4478	FRA	1.2355	FC3	-.1466	BSP	4779	SGB	1632.1	R23	-.0261	R13	.8374	LSA	812.8	MSA	330.3	SSA	16.5
BDE	.8975	BRA	2.2325	BC3	.2356	FSP	-197	SG1	1562.3	SG2	472.3	THA	174.60	EL1	638.8	EL2	326.1	ALF	27.81

LAUNCH DATE SEP 22 1965 FLIGHT TIME 102.00 ARRIVAL DATE JAN 2 1966

HELIOCENTRIC CONIC DISTANCE 228.075

RL 150.15 LAL -.00 LOL 358.78 VL 23.750 GAL 12.89 AZL 89.40 HCA 87.70 SMA 110.26 ECC .41735 INC .5969 V1 29.676
RP 107.69 LAP .60 LOP 86.48 VP 35.513 GAP -24.63 AZP 89.98 TAL 160.57 TAP 248.28 RCA 64.24 APO 156.27 V2 35.191
RC 50.858 GL 1.59 GP -7.13 ZAL 48.45 ZAP 13.46 ETS 145.30 ZAE 142.81 ETE 193.34 ZAC 24.72 ETC 117.05 CLP 11.45

PLANETOCENTRIC CONIC

C3 76.035 VHL 8.720 DLA -16.12 RAL 312.35 RAD 6569.5 VEL 14.049 PTH 2.56 VHP 15.049 DPA -31.58 RAP 278.74 ECC 2.2513

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 17 5	2017.42	-14.35	29.37	193.14	114.68	10 50 42	1417.4	-10.90	22.39
90.00	17 56 16	5714.16	27.51	270.46	204.79	97.00	19 31 30	5114.2	28.19	261.86
100.00	11 29 25	1783.98	-15.95	11.43	192.36	115.62	11 59 9	1184.0	-12.37	4.46
100.00	19 26 36	5422.84	29.27	249.27	205.02	96.37	20 56 59	4822.8	29.84	240.51
110.00	12 17 44	1632.67	-20.10	357.74	190.15	118.25	12 44 56	1032.7	-16.17	350.82
110.00	20 54 47	5146.91	33.90	228.84	205.55	94.70	22 20 34	4546.9	34.18	219.60

DIFFERENTIAL CORRECTIONS

TDE -.6296 TRA-2.2062 TC3 -.2382 BAU .2453
RDE -.6026 RRA .4127 RC3 -.0390 FAU .01439
FDE .4755 FRA 1.2834 FC3 -.1638 BSP 5011
BDE .8715 BRA 2.2445 BC3 .2413 FSP -216

MID-COURSE EXECUTION ACCURACY

SGT 1618.9 SGR 491.0 SG3 84.2
RRT -.2943 RRF .3000 RTF -.8463
SGB 1691.7 R23 -.0296 R13 .8475
SG1 1625.9 SG2 467.2 THA 174.44

ORBIT DETERMINATION ACCURACY

ST 613.4 SR 404.9 SS 531.4
CRT .5053 CRS .6127 CST .9907
LSA 845.7 MSA 327.2 SSA 16.6
EL1 659.1 EL2 325.2 ALF 24.88

LAUNCH DATE SEP 22 1965 FLIGHT TIME 104.00 ARRIVAL DATE JAN 4 1966

HELIOCENTRIC CONIC DISTANCE 234.763

RL 150.15 LAL -.00 LOL 358.78 VL 24.034 GAL 12.32 AZL 89.22 HCA 90.93 SMA 111.51 ECC .40018 INC .7841 V1 29.676
RP 107.66 LAP .78 LOP 89.72 VP 35.712 GAP -23.51 AZP 90.01 TAL 160.09 TAP 251.03 RCA 66.89 APO 156.13 V2 35.200
RC 49.288 GL 2.20 GP -7.54 ZAL 47.85 ZAP 12.57 ETS 140.45 ZAE 144.12 ETE 195.52 ZAC 26.05 ETC 120.22 CLP 10.09

PLANETOCENTRIC CONIC

C3 69.978 VHL 8.365 DLA -15.36 RAL 312.80 RAD 6569.3 VEL 13.832 PTH 2.53 VHP 14.436 DPA -31.97 RAP 280.94 ECC 2.1517

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 11 43	2025.57	-14.58	29.86	192.32	114.55	10 45 29	1425.6	-11.15	22.86
90.00	18 5 9	5667.13	27.85	267.06	203.42	95.32	19 39 36	5067.1	28.30	258.42
100.00	11 24 40	1790.22	-16.13	11.80	191.57	115.51	11 54 30	1190.2	-12.57	4.82
100.00	19 34 54	5377.72	29.56	245.94	203.59	94.64	21 4 31	4777.7	29.89	237.15
110.00	12 14 12	1635.05	-20.18	357.88	189.41	118.20	12 41 27	1035.0	-16.25	350.96
110.00	21 1 51	5105.65	34.08	225.63	203.94	92.81	22 26 56	4505.7	34.09	216.38

DIFFERENTIAL CORRECTIONS

TDE -.6351 TRA-2.2173 TC3 -.2418 BAU .2304
RDE -.5603 RRA .4132 RC3 -.0466 FAU .01482
FDE .5051 FRA 1.3342 FC3 -.1834 BSP 5246
BDE .8469 BRA 2.2555 BC3 .2462 FSP -236

MID-COURSE EXECUTION ACCURACY

SGT 1683.3 SGR 489.4 SG3 91.1
RRT -.3202 RRF .3281 RTF -.8558
SGB 1753.0 R23 -.0336 R13 .8570
SG1 1691.1 SG2 461.5 THA 174.25

ORBIT DETERMINATION ACCURACY

ST 642.3 SR 393.7 SS 558.6
CRT .4956 CRS .6108 CST .9896
LSA 880.3 MSA 323.3 SSA 16.7
EL1 680.8 EL2 322.6 ALF 22.11

LAUNCH DATE SEP 22 1965 FLIGHT TIME 106.00 ARRIVAL DATE JAN 6 1966

HELIOCENTRIC CONIC DISTANCE 241.481

RL 150.15 LAL -.00 LOL 358.78 VL 24.299 GAL 11.78 AZL 89.03 HCA 94.17 SMA 112.72 ECC .38379 INC .9718 V1 29.676
RP 107.63 LAP .97 LOP 92.95 VP 35.899 GAP -22.43 AZP 90.07 TAL 159.65 TAP 253.82 RCA 69.46 APO 155.98 V2 35.209
RC 47.809 GL 2.88 GP -7.99 ZAL 47.31 ZAP 11.81 ETS 134.73 ZAE 145.51 ETE 198.06 ZAC 27.48 ETC 123.03 CLP 8.73

PLANETOCENTRIC CONIC

C3 64.458 VHL 8.029 DLA -14.56 RAL 313.17 RAD 6569.2 VEL 13.631 PTH 2.49 VHP 13.842 DPA -32.36 RAP 283.15 ECC 2.0608

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 5 50	2034.77	-14.84	30.41	191.43	114.40	10 39 45	1434.8	-11.42	23.40
90.00	18 14 1	5618.74	28.11	263.54	201.92	93.58	19 47 40	5018.7	28.31	254.88
100.00	11 19 23	1797.50	-16.35	12.24	190.71	115.38	11 49 20	1197.5	-12.80	5.25
100.00	19 43 10	5331.24	29.77	242.50	202.03	92.84	21 12 1	4731.2	29.85	233.70
110.00	12 10 10	1638.41	-20.28	358.08	188.62	118.12	12 37 28	1038.4	-16.37	351.15
110.00	21 8 52	5063.09	34.17	222.31	202.20	90.85	22 33 15	4463.1	33.91	213.07

DIFFERENTIAL CORRECTIONS

TDE -.6397 TRA-2.2270 TC3 -.2438 BAU .2154
RDE -.5184 RRA .4143 RC3 -.0554 FAU .01530
FDE .5368 FRA 1.3880 FC3 -.2055 BSP 5490
BDE .8234 BRA 2.2652 BC3 .2500 FSP -258

MID-COURSE EXECUTION ACCURACY

SGT 1748.7 SGR 488.0 SG3 98.6
RRT -.3491 RRF .3595 RTF -.8648
SGB 1815.5 R23 -.0381 R13 .8661
SG1 1757.5 SG2 455.0 THA 174.04

ORBIT DETERMINATION ACCURACY

ST 671.7 SR 381.2 SS 587.3
CRT .4835 CRS .6068 CST .9884
LSA 916.3 MSA 318.6 SSA 16.8
EL1 703.6 EL2 318.6 ALF 19.49

LAUNCH DATE SEP 22 1965 FLIGHT TIME 108.00 ARRIVAL DATE JAN 8 1966

HELIOCENTRIC CONIC DISTANCE 248.226

RL 150.15 LAL -.00 LOL 358.78 VL 24.547 GAL 11.25 AZL 88.84 HCA 97.40 SMA 113.89 ECC .36816 INC 1.1611 V1 29.676
RP 107.61 LAP 1.15 LOP 96.18 VP 36.075 GAP -21.38 AZP 90.15 TAL 159.25 TAP 256.65 RCA 71.96 APO 155.83 V2 35.217
RC 46.433 GL 3.63 GP -8.49 ZAL 46.84 ZAP 11.22 ETS 128.11 ZAE 146.95 ETE 201.01 ZAC 29.00 ETC 125.52 CLP 7.36

PLANETOCENTRIC CONIC

C3 59.433 VHL 7.709 DLA -13.69 RAL 313.48 RAD 6569.1 VEL 13.446 PTH 2.46 VHP 13.269 DPA -32.78 RAP 285.37 ECC 1.9781

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 59 23	2045.28	-15.13	31.04	190.49	114.22	10 33 28	1445.3	-11.74	24.01
90.00	18 22 54	5568.91	28.27	259.91	200.31	91.76	19 55 43	4968.9	28.21	251.24
100.00	11 13 31	1806.08	-16.60	12.75	189.79	115.22	11 43 37	1206.1	-13.06	5.74
100.00	19 51 27	5283.34	29.88	238.95	200.35	90.97	21 19 31	4683.3	29.69	230.15
110.00	12 5 35	1643.00	-20.43	358.36	187.76	118.02	12 32 58	1043.0	-16.52	351.41
110.00	21 15 52	5019.19	34.17	218.88	200.34	88.82	22 39 32	4419.2	33.62	209.68

DIFFERENTIAL CORRECTIONS

TDE -.6441 TRA-2.2358 TC3 -.2443 BAU .2009
RDE -.4770 RRA .4162 RC3 -.0654 FAU .01583
FDE .5710 FRA 1.4454 FC3 -.2305 BSP 5730
BDE .8015 BRA 2.2742 BC3 .2529 FSP -282

MID-COURSE EXECUTION ACCURACY

SGT 1815.5 SGR 487.0 SG3 106.8
RRT -.3810 RRF .3943 RTF -.8732
SGB 1879.7 R23 -.0432 R13 .8747
SG1 1825.6 SG2 447.8 THA 173.79

ORBIT DETERMINATION ACCURACY

ST 701.8 SR 367.1 SS 617.6
CRT .4685 CRS .6002 CST .9871
LSA 954.2 MSA 313.1 SSA 16.9
EL1 727.6 EL2 312.8 ALF 17.01

LAUNCH DATE SEP 22 1965 FLIGHT TIME 110.00 ARRIVAL DATE JAN 10 1966

HELIOCENTRIC CONIC DISTANCE 254.992

RL	150.15	LAL	-.00	LOL	358.78	VL	24.779	GAL	10.75	AZL	88.65	HCA	100.64	SMA	115.02	ECC	.35328	INC	1.3533	V1	29.676
RP	107.58	LAP	1.33	LOP	99.42	VP	36.241	GAP	-20.37	AZP	90.25	TAL	158.88	TAP	259.52	RCA	74.39	APO	155.66	V2	35.224
RC	45.168	GL	4.45	GP	-9.05	ZAL	46.42	ZAP	10.83	ETS	120.65	ZAE	148.41	ETE	204.46	ZAC	30.61	ETC	127.70	CLP	5.98

PLANETOCENTRIC CONIC

C3	54.866	VHL	7.407	DLA	-12.77	RAL	313.71	RAD	6569.0	VEL	13.275	PTH	2.43	VHP	12.715	DPA	-33.22	RAP	287.60	ECC	1.9030

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 52 19	2057.39	-15.47	31.77	189.50	114.02	10 26 36	1457.4	-12.10	24.72
90.00	18 31 50	5517.59	28.32	256.15	198.58	89.88	20 3 48	4917.6	28.00	247.50
100.00	11 7 3	1816.24	-16.89	13.36	188.82	115.03	11 37 20	1216.2	-13.38	6.33
100.00	19 59 47	5233.97	29.88	235.28	198.56	89.04	21 27 1	4634.0	29.43	226.50
110.00	12 0 26	1649.07	-20.62	358.72	186.86	117.88	12 27 55	1049.1	-16.73	351.76
110.00	21 22 54	4973.90	34.05	215.35	198.38	86.73	22 45 47	4373.9	33.22	206.20

DIFFERENTIAL CORRECTIONS

TDE	-.6483	TRA	-2.2434	TC3	-.2428	BAU	.1868												
RDE	-.4357	RRA	.4193	RC3	-.0767	FAU	.01640												
FDE	.6081	FRA	1.5066	FC3	-.2587	BSP	5977												
BDE	.7811	BRA	2.2822	BC3	.2546	FSP	-308												

MID-COURSE EXECUTION ACCURACY

SGT	1883.3	SGR	486.9	SG3	115.8														
RRT	-.4163	RRF	.4327	RTF	-.8812														
SGB	1945.2	R23	-.0491	R13	.8828														
SG1	1894.8	SG2	440.0	THA	173.50														

ORBIT DETERMINATION ACCURACY

ST	732.5	SR	351.5	SS	649.8														
CRT	.4498	CRS	.5903	CST	.9858														
LSA	994.0	MSA	306.8	SSA	16.9														
EL1	752.8	EL2	305.5	ALF	14.64														

LAUNCH DATE SEP 22 1965 FLIGHT TIME 112.00 ARRIVAL DATE JAN 12 1966

HELIOCENTRIC CONIC DISTANCE 261.777

RL	150.15	LAL	-.00	LOL	358.78	VL	24.995	GAL	10.27	AZL	88.45	HCA	103.87	SMA	116.11	ECC	.33914	INC	1.5497	V1	29.676
RP	107.56	LAP	1.50	LOP	102.66	VP	36.395	GAP	-19.39	AZP	90.37	TAL	158.55	TAP	262.42	RCA	76.73	APO	155.48	V2	35.231
RC	44.025	GL	5.36	GP	-9.67	ZAL	46.07	ZAP	10.69	ETS	112.56	ZAE	149.84	ETE	208.50	ZAC	32.28	ETC	129.61	CLP	4.58

PLANETOCENTRIC CONIC

C3	50.725	VHL	7.122	DLA	-11.78	RAL	313.87	RAD	6568.9	VEL	13.118	PTH	2.39	VHP	12.180	DPA	-33.69	RAP	289.84	ECC	1.8348

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 44 34	2071.41	-15.86	32.62	188.46	113.77	10 19 6	1471.4	-12.51	25.54
90.00	18 40 51	5464.67	28.25	252.29	196.75	87.94	20 11 56	4864.7	27.66	243.67
100.00	10 59 56	1828.28	-17.24	14.09	187.81	114.81	11 30 24	1228.3	-13.75	7.04
100.00	20 8 11	5183.04	29.76	231.50	196.67	87.06	21 34 34	4583.0	29.03	222.77
110.00	11 54 39	1656.91	-20.87	359.19	185.92	117.71	12 22 16	1056.9	-17.00	352.21
110.00	21 29 57	4927.16	33.80	211.72	196.33	84.59	22 52 4	4327.2	32.69	202.66

DIFFERENTIAL CORRECTIONS

TDE	-.6528	TRA	-2.2500	TC3	-.2391	BAU	.1731												
RDE	-.3946	RRA	.4237	RC3	-.0896	FAU	.01702												
FDE	.6486	FRA	1.5720	FC3	-.2905	BSP	6222												
BDE	.7628	BRA	2.2895	BC3	.2753	FSP	-337												

MID-COURSE EXECUTION ACCURACY

SGT	1952.1	SGR	488.2	SG3	125.6														
RRT	-.4551	RRF	.4751	RTF	-.8888														
SGB	2012.2	R23	-.0558	R13	.8906														
SG1	1965.3	SG2	431.7	THA	173.18														

ORBIT DETERMINATION ACCURACY

ST	763.9	SR	334.2	SS	684.1														
CRT	.4261	CRS	.5758	CST	.9844														
LSA	1035.9	MSA	299.7	SSA	17.0														
EL1	779.4	EL2	296.3	ALF	12.38														

LAUNCH DATE SEP 22 1965 FLIGHT TIME 114.00 ARRIVAL DATE JAN 14 1966

HELIOCENTRIC CONIC DISTANCE 268.576

RL	150.15	LAL	-.00	LOL	358.78	VL	25.197	GAL	9.81	AZL	88.25	HCA	107.11	SMA	117.15	ECC	.32572	INC	1.7517	V1	29.676
RP	107.55	LAP	1.67	LOP	105.90	VP	36.540	GAP	-18.44	AZP	90.52	TAL	158.26	TAP	265.37	RCA	78.99	APO	155.31	V2	35.237
RC	43.015	GL	6.36	GP	-10.36	ZAL	45.80	ZAP	10.83	ETS	104.23	ZAE	151.19	ETE	213.21	ZAC	34.03	ETC	131.26	CLP	3.18

PLANETOCENTRIC CONIC

C3	46.981	VHL	6.854	DLA	-10.72	RAL	313.95	RAD	6568.8	VEL	12.975	PTH	2.37	VHP	11.665	DPA	-34.21	RAP	292.08	ECC	1.7732

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 36 6	2087.70	-16.30	33.60	187.40	113.48	10 10 54	1487.7	-12.99	26.50
90.00	18 50 0	5410.06	28.05	248.30	194.83	85.96	20 20 10	4810.1	27.19	239.74
100.00	10 52 5	1842.54	-17.64	14.96	186.77	114.53	11 22 48	1242.5	-14.18	7.87
100.00	20 16 42	5130.46	29.51	227.61	194.70	85.02	21 42 13	4530.5	28.51	218.95
110.00	11 48 12	1666.84	-21.19	359.79	184.94	117.48	12 15 59	1066.8	-17.34	352.78
110.00	21 37 5	4878.92	33.43	208.00	194.19	82.42	22 58 24	4278.9	32.02	199.05

DIFFERENTIAL CORRECTIONS

TDE	-.6574	TRA	-2.2554	TC3	-.2333	BAU	.1605												
RDE	-.3533	RRA	.4300	RC3	-.1042	FAU	.01769												
FDE	.6929	FRA	1.6421	FC3	-.3260	BSP	6465												
BDE	.7460	BRA	2.2961	BC3	.2555	FSP	-369												

MID-COURSE EXECUTION ACCURACY

SGT	2021.4	SGR	491.4	SG3	136.3														
RRT	-.4975	RRF	.5213	RTF	-.8959														
SGB	2080.3	R23	-.0636	R13	.8979														
SG1	2036.8	SG2	423.1	THA	172.79														

ORBIT DETERMINATION ACCURACY

ST	795.7	SR	315.1	SS	720.7														
CRT	.3951	CRS	.5548	CST	.9829														
LSA	1079.9	MSA	292.1	SSA	17.0														
EL1	806.8	EL2	285.4	ALF	10.18														

LAUNCH DATE SEP 22 1965 FLIGHT TIME 116.00 ARRIVAL DATE JAN 16 1966

HELIOCENTRIC CONIC DISTANCE 275.385

RL	150.15	LAL	-.00	LOL	358.78	VL	25.386	GAL	9.38	AZL	88.04	HCA	110.35	SMA	118.14	ECC	.31302	INC	1.9610	V1	29.676
RP	107.53	LAP	1.84	LOP	109.14	VP	36.676	GAP	-17.52	AZP	90.68	TAL	158.01	TAP	268.36	RCA	81.16	APO	155.12	V2	35.242
RC	42.147	GL	7.46	GP	-11.14	ZAL	45.60	ZAP	11.27	ETS	96.11	ZAE	152.39	ETE	218.64	ZAC	35.84	ETC	132.67	CLP	1.75

PLANETOCENTRIC CONIC

C3	43.605	VHL	6.603	DLA	-9.57	RAL	313.96	RAD	6568.7	VEL	12.844	PTH	2.34	VHP	11.169	DPA	-34.79	RAP	294.34	ECC	1.7176

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 26 50	2106.64	-16.81	34.76	186.31	113.13	10 1 57	1506.6	-13.54	27.61
90.00	18 59 20	5353.65	27.71	244.21	192.84	83.93	20 28 34	4753.7	26.58	235.73
100.00	10 43 28	1859.40	-18.12	15.98	185.71	114.19	11 14 28	1259.4	-14.70	8.86
100.00	20 25 23	5076.13	29.13	223.61	192.66	82.96	21 49 59	4476.1	27.85	215.05
110.00	11 41 1	1679.21	-21.57	.54	183.94	117.18	12 9 0	1079.2	-17.76	353.49
110.00	21 44 20	4829.08	32.92	204.20	192.00	80.23	23 4 49	4229.1	31.22	195.39

DIFFERENTIAL CORRECTIONS

TDE	-.6622	TRA	-2.2599	TC3	-.2246	BAU	.1486												
RDE	-.3115	RRA	.4385	RC3	-.1208	FAU	.01842												
FDE	.7418	FRA	1.7171	FC3	-.3658	BSP	6709												
BDE	.7318	BRA	2.3021	BC3	.2550	FSP	-404												

MID-COURSE EXECUTION ACCURACY

SGT	2091.0	SGR	497.4	SG3	147.9														
RRT	-.5429	RRF	.5708	RTF	-.9026														
SGB	2149.4	R23	-.0723	R13	.9049														
SG1	2109.1	SG2	414.1	THA	172.34														

ORBIT DETERMINATION ACCURACY

ST	828.3	SR	294.1	SS	759.8														
CRT	.3543	CRS	.5245	CST	.9815														
LSA	1126.5	MSA	283.9	SSA	17.0														
EL1	835.6	EL2	272.6	ALF	8.03														

LAUNCH DATE SEP 22 1965 FLIGHT TIME 118.00 ARRIVAL DATE JAN 18 1966

HELIOCENTRIC CONIC DISTANCE 282.202

RL 150.15 LAL -.00 LOL 358.78 VL 25.561 GAL 8.96 AZL 87.82 HCA 113.59 SMA 119.09 ECC .30102 INC 2.1792 VI 29.676
RP 107.51 LAP 2.00 LOP 112.38 VP 36.802 GAP -16.63 AZP 90.87 TAL 157.80 TAP 271.39 RCA 83.24 APO 154.94 V2 35.0[illegible]
RC 41.430 GL 8.67 GP -12.01 ZAL 45.50 ZAP 12.01 ETS 88.62 ZAE 153.35 ETE 224.82 ZAC 37.71 ETC 133.87 CLP [illegible]

PLANETOCENTRIC CONIC

C3 40.575 VHL 6.370 DLA -8.33 RAL 313.89 RAD 6568.6 VEL 12.726 PTH 2.31 VHP 10.693 DPA -35.43 RAP 296.61 ECC 1.667[illegible]

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 16 42	2128.69	-17.40	36.12	185.22	112.70	9 52 11	1528.7	-14.17	28.92
90.00	19 8 54	5295.29	27.22	240.01	190.80	81.88	20 37 9	4695.3	25.82	231.62
100.00	10 34 0	1879.29	-18.67	17.20	184.64	113.78	11 5 20	1279.3	-15.29	10.04
100.00	20 34 17	5019.92	28.59	219.52	190.56	80.87	21 57 57	4419.9	27.03	211.07
110.00	11 33 3	1694.42	-22.04	1.47	182.94	116.81	12 1 17	1094.4	-18.27	354.38
110.00	21 51 44	4777.56	32.26	200.33	189.77	78.03	23 11 21	4177.6	30.27	191.68

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.6671 TRA-2.2621 TC3 -.2121 BAU .1377 SGT 2159.1 SGR 507.2 SG3 160.6 ST 860.6 SR 271.3 SS 801.9
RDE -.2690 RRA .4497 RC3 -.1393 FAU .01921 RRT -.5914 RRF .6231 RTF -.9091 CRT .2979 CRS .4801 CST .9799
FDE .7962 FRA 1.7976 FC3 -.4098 BSP 6966 SGB 2217.9 R23 -.0817 R13 .9116 LSA 1175.3 MSA 275.3 SSA 17.0
BDE .7193 BRA 2.3063 BC3 .2538 FSP -442 SG1 2180.6 SG2 405.0 THA 171.81 EL1 864.8 EL2 257.8 ALF 5.89

LAUNCH DATE SEP 22 1965 FLIGHT TIME 120.00 ARRIVAL DATE JAN 20 1966

HELIOCENTRIC CONIC DISTANCE 289.024

RL 150.15 LAL -.00 LOL 358.78 VL 25.725 GAL 8.56 AZL 87.59 HCA 116.83 SMA 119.99 ECC .28969 INC 2.4087 VI 29.676
RP 107.50 LAP 2.15 LOP 115.63 VP 36.920 GAP -15.77 AZP 91.09 TAL 157.63 TAP 274.46 RCA 85.23 APO 154.76 V2 35.251
RC 40.873 GL 10.00 GP -13.00 ZAL 45.49 ZAP 13.05 ETS 82.03 ZAE 153.97 ETE 231.67 ZAC 39.65 ETC 134.88 CLP -1.17

PLANETOCENTRIC CONIC

C3 37.872 VHL 6.154 DLA -6.99 RAL 313.74 RAD 6568.5 VEL 12.619 PTH 2.29 VHP 10.237 DPA -36.16 RAP 298.90 ECC 1.6233

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 5 37	2154.32	-18.06	37.70	184.13	112.19	9 41 31	1554.3	-14.90	30.46
90.00	19 18 46	5234.82	26.57	235.71	188.71	79.82	20 46 1	4634.8	24.89	227.44
100.00	10 23 37	1902.68	-19.30	18.65	183.58	113.28	10 55 19	1302.7	-15.99	11.43
100.00	20 43 27	4961.69	27.89	215.34	188.43	78.77	22 6 9	4361.7	26.05	207.02
110.00	11 24 13	1712.90	-22.61	2.61	181.94	116.35	11 52 46	1112.9	-18.88	355.46
110.00	21 59 20	4724.23	31.44	196.39	187.51	75.83	23 18 4	4124.2	29.17	187.92

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.6741 TRA-2.2653 TC3 -.1975 BAU .1287 SGT 2228.9 SGR 522.0 SG3 174.4 ST 894.6 SR 247.2 SS 847.2
RDE -.2253 RRA .4643 RC3 -.1602 FAU .02005 RRT -.6409 RRF .6769 RTF -.9151 CRT .2189 CRS .4137 CST .9784
FDE .8567 FRA 1.8838 FC3 -.4582 BSP 7224 SGB 2289.2 R23 -.0927 R13 .9180 LSA 1227.9 MSA 266.4 SSA 16.9
BDE .7107 BRA 2.3124 BC3 .2543 FSP -483 SG1 2254.7 SG2 396.1 THA 171.19 EL1 896.3 EL2 240.7 ALF 3.73

LAUNCH DATE SEP 22 1965 FLIGHT TIME 122.00 ARRIVAL DATE JAN 22 1966

HELIOCENTRIC CONIC DISTANCE 295.847

RL 150.15 LAL -.00 LOL 358.78 VL 25.877 GAL 8.19 AZL 87.35 HCA 120.07 SMA 120.85 ECC .27902 INC 2.6516 VI 29.676
RP 107.49 LAP 2.29 LOP 118.87 VP 37.029 GAP -14.94 AZP 91.33 TAL 157.50 TAP 277.57 RCA 87.13 APO 154.57 V2 35.254
RC 40.482 GL 11.48 GP -14.12 ZAL 45.58 ZAP 14.36 ETS 76.44 ZAE 154.16 ETE 239.00 ZAC 41.66 ETC 135.69 CLP -2.67

PLANETOCENTRIC CONIC

C3 35.478 VHL 5.956 DLA -5.52 RAL 313.50 RAD 6568.4 VEL 12.524 PTH 2.27 VHP 9.801 DPA -37.00 RAP 301.21 ECC 1.5839

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 53 28	2184.09	-18.82	39.56	183.07	111.56	9 29 52	1584.1	-15.72	32.25
90.00	19 29 1	5172.05	25.73	231.30	186.61	77.76	20 55 13	4572.1	23.79	223.17
100.00	10 12 12	1930.10	-20.03	20.36	182.54	112.66	10 44 22	1330.1	-16.79	13.07
100.00	20 52 58	4901.27	27.01	211.06	186.29	76.68	22 14 39	4301.3	24.91	202.89
110.00	11 14 28	1735.16	-23.27	4.00	180.98	115.77	11 43 23	1135.2	-19.61	356.77
110.00	22 7 11	4668.98	30.45	192.39	185.25	73.65	23 25 0	4069.0	27.91	184.11

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.6828 TRA-2.2668 TC3 -.1798 BAU .1218 SGT 2297.1 SGR 543.5 SG3 189.5 ST 929.2 SR 222.5 SS 896.2
RDE -.1796 RRA .4829 RC3 -.1835 FAU .02092 RRT -.6904 RRF .7303 RTF -.9207 CRT .1041 CRS .3117 CST .9770
FDE .9247 FRA 1.9762 FC3 -.5106 BSP 7468 SGB 2360.5 R23 -.1050 R13 .9240 LSA 1284.3 MSA 257.3 SSA 16.8
BDE .7060 BRA 2.3177 BC3 .2569 FSP -528 SG1 2328.4 SG2 387.9 THA 170.45 EL1 929.5 EL2 221.2 ALF 1.51

LAUNCH DATE SEP 22 1965 FLIGHT TIME 124.00 ARRIVAL DATE JAN 24 1966

HELIOCENTRIC CONIC DISTANCE 302.668

RL 150.15 LAL -.00 LOL 358.78 VL 26.018 GAL 7.83 AZL 87.09 HCA 123.31 SMA 121.66 ECC .26899 INC 2.9111 VI 29.676
RP 107.48 LAP 2.43 LOP 122.12 VP 37.130 GAP -14.13 AZP 91.60 TAL 157.41 TAP 280.71 RCA 88.94 APO 154.39 V2 35.256
RC 40.263 GL 13.10 GP -15.39 ZAL 45.80 ZAP 15.94 ETS 71.84 ZAE 153.85 ETE 246.50 ZAC 43.75 ETC 136.33 CLP -4.21

PLANETOCENTRIC CONIC

C3 33.381 VHL 5.778 DLA -3.93 RAL 313.17 RAD 6568.3 VEL 12.440 PTH 2.25 VHP 9.388 DPA -37.95 RAP 303.55 ECC 1.5494

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 40 9	2218.63	-19.67	41.74	182.05	110.79	9 17 7	1618.6	-16.66	34.35
90.00	19 39 44	5106.75	24.71	226.79	184.51	75.72	21 4 50	4506.8	22.51	218.81
100.00	9 59 39	1962.17	-20.86	22.38	181.55	111.91	10 32 21	1362.2	-17.70	15.01
100.00	21 2 55	4838.45	25.95	206.69	184.15	74.62	22 23 33	4238.4	23.59	198.69
110.00	11 3 40	1761.74	-24.05	5.67	180.05	115.06	11 33 2	1161.7	-20.47	358.36
110.00	22 15 23	4611.64	29.28	188.33	183.01	71.51	23 32 14	4011.6	26.47	180.27

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.6935 TRA-2.2676 TC3 -.1591 BAU .1173 SGT 2363.9 SGR 573.4 SG3 205.7 ST 964.5 SR 199.5 SS 949.1
RDE -.1313 RRA .5064 RC3 -.2093 FAU .02184 RRT -.7382 RRF .7816 RTF -.9260 CRT -.0650 CRS .1531 CST .9757
FDE 1.0014 FRA 2.0745 FC3 -.5664 BSP 7716 SGB 2432.4 R23 -.1183 R13 .9299 LSA 1345.0 MSA 248.4 SSA 16.6
BDE .7059 BRA 2.3235 BC3 .2629 FSP -577 SG1 2402.4 SG2 380.6 THA 169.58 EL1 964.6 EL2 199.1 ALF 179.20

LAUNCH DATE SEP 22 1965 FLIGHT TIME 126.00 ARRIVAL DATE JAN 26 1966

HELIOCENTRIC CONIC DISTANCE 309.485

RL	150.15	LAL	-.00	LOL	358.78	VL	26.149	GAL	7.49	AZL	86.81	HCA	126.55	SMA	122.43	ECC	.25959	INC	3.1907	V1	29.676
RP	107.48	LAP	2.56	LOP	125.37	VP	37.223	GAP	-13.34	AZP	91.90	TAL	157.35	TAP	283.89	RCA	90.65	APO	154.21	V2	35.258
RC	40.219	GL	14.88	GP	-16.84	ZAL	46.15	ZAP	17.78	ETS	68.15	ZAE	153.00	ETE	253.80	ZAC	45.92	ETC	136.80	CLP	-5.77

PLANETOCENTRIC CONIC

C3	31.573	VHL	5.619	DLA	-2.19	RAL	312.75	RAD	6568.3	VEL	12.367	PTH	2.23	VHP	8.998	DPA	-39.07	RAP	305.93	ECC	1.5196

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 25 30	2258.69	-20.61	44.29	181.10	109.85	9 3 9	1658.7	-17.72	36.81
90.00	19 51 1	5038.64	23.49	222.17	182.45	73.72	21 15 0	4438.6	21.04	214.36
100.00	9 45 49	1999.59	-21.79	24.77	180.63	110.99	10 19 9	1399.6	-18.74	17.30
100.00	21 13 23	4772.98	24.69	202.24	182.05	72.59	22 32 56	4173.0	22.08	194.42
110.00	10 51 44	1793.29	-24.94	7.69	179.21	114.17	11 21 37	1193.3	-21.47	.26
110.00	22 23 58	4552.04	27.92	184.23	180.81	69.43	23 39 50	3952.0	24.87	176.39

DIFFERENTIAL CORRECTIONS

TDE	-.7047	TRA	-2.2656	TC3	-.1325	BAU	.1150												
RDE	-.0794	RRA	.5356	RC3	-.2380	FAU	.02282												
FDE	1.0868	FRA	2.1774	FC3	-.6258	BSP	8013												
BDE	.7092	BRA	2.3281	BC3	.2724	FSP	-632												

MID-COURSE EXECUTION ACCURACY

SGT	2425.6	SGR	613.9	SG3	223.0														
RRT	-.7829	RRF	.8287	RTF	-.9311														
SGB	2502.1	R23	-.1317	R13	.9356														
SG1	2473.9	SG2	374.5	THA	168.53														

ORBIT DETERMINATION ACCURACY

ST	998.7	SR	183.0	SS	1005.5														
CRT	-.3038	CRS	-.0835	CST	.9743														
LSA	1408.5	MSA	240.3	SSA	16.2														
EL1	1000.3	EL2	174.1	ALF	176.71														

LAUNCH DATE SEP 22 1965 FLIGHT TIME 128.00 ARRIVAL DATE JAN 28 1966

HELIOCENTRIC CONIC DISTANCE 316.296

RL	150.15	LAL	-.00	LOL	358.78	VL	26.270	GAL	7.17	AZL	86.51	HCA	129.79	SMA	123.15	ECC	.25079	INC	3.4947	V1	29.676
RP	107.48	LAP	2.68	LOP	128.62	VP	37.309	GAP	-12.58	AZP	92.24	TAL	157.32	TAP	287.11	RCA	92.27	APO	154.03	V2	35.259
RC	40.350	GL	16.85	GP	-18.51	ZAL	46.64	ZAP	19.88	ETS	65.24	ZAE	151.60	ETE	260.55	ZAC	48.19	ETC	137.11	CLP	-7.38

PLANETOCENTRIC CONIC

C3	30.051	VHL	5.482	DLA	-.29	RAL	312.24	RAD	6568.2	VEL	12.305	PTH	2.22	VHP	8.633	DPA	-40.36	RAP	308.38	ECC	1.4946

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 9 22	2305.12	-21.66	47.30	180.26	108.70	8 47 47	1705.1	-18.90	39.71
90.00	20 3 2	4967.40	22.05	217.45	180.43	71.77	21 25 50	4367.4	19.36	209.81
100.00	9 30 34	2043.18	-22.83	27.60	179.82	109.84	10 4 38	1443.2	-19.91	20.01
100.00	21 24 31	4704.58	23.22	197.69	180.00	70.63	22 42 55	4104.6	20.37	190.05
110.00	10 38 30	1830.54	-25.96	10.10	178.46	113.06	11 9 1	1230.5	-22.61	2.55
110.00	22 33 4	4489.98	26.37	180.07	178.67	67.41	23 47 54	3890.0	23.07	172.46

DIFFERENTIAL CORRECTIONS

TDE	-.7218	TRA	-2.2657	TC3	-.1065	BAU	.1162												
RDE	-.0221	RRA	.5723	RC3	-.2690	FAU	.02375												
FDE	1.1848	FRA	2.2864	FC3	-.6841	BSP	8255												
BDE	.7222	BRA	2.3369	BC3	.2893	FSP	-688												

MID-COURSE EXECUTION ACCURACY

SGT	2488.2	SGR	667.3	SG3	241.4														
RRT	-.8219	RRF	.8700	RTF	-.9358														
SGB	2576.1	R23	-.1462	R13	.9411														
SG1	2549.2	SG2	371.0	THA	167.30														

ORBIT DETERMINATION ACCURACY

ST	1036.3	SR	181.1	SS	1067.4														
CRT	-.5862	CRS	-.3868	CST	.9734														
LSA	1480.4	MSA	232.7	SSA	15.7														
EL1	1041.8	EL2	146.0	ALF	174.03														

LAUNCH DATE SEP 22 1965 FLIGHT TIME 130.00 ARRIVAL DATE JAN 30 1966

HELIOCENTRIC CONIC DISTANCE 323.097

RL	150.15	LAL	-.00	LOL	358.78	VL	26.382	GAL	6.87	AZL	86.17	HCA	133.02	SMA	123.83	ECC	.24257	INC	3.8289	V1	29.676
RP	107.48	LAP	2.80	LOP	131.87	VP	37.388	GAP	-11.85	AZP	92.61	TAL	157.33	TAP	290.35	RCA	93.79	APO	153.86	V2	35.259
RC	40.657	GL	19.01	GP	-20.42	ZAL	47.31	ZAP	22.25	ETS	63.01	ZAE	149.67	ETE	266.52	ZAC	50.59	ETC	137.27	CLP	-9.02

PLANETOCENTRIC CONIC

C3	28.821	VHL	5.368	DLA	1.78	RAL	311.62	RAD	6568.2	VEL	12.255	PTH	2.20	VHP	8.296	DPA	-41.87	RAP	310.93	ECC	1.4743

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 51 31	2358.96	-22.79	50.84	179.55	107.28	8 30 50	1759.0	-20.21	43.12
90.00	20 15 56	4892.63	20.38	212.60	178.51	69.90	21 37 29	4292.6	17.46	205.14
100.00	9 13 41	2093.92	-23.96	30.94	179.14	108.43	9 48 35	1493.9	-21.22	23.21
100.00	21 36 27	4632.91	21.53	193.04	178.05	68.74	22 53 40	4032.9	18.45	185.60
110.00	10 23 50	1874.36	-27.09	13.00	177.87	111.69	10 55 4	1274.4	-23.91	5.29
110.00	22 42 48	4425.23	24.60	175.86	176.63	65.49	23 56 33	3825.2	21.09	168.48

DIFFERENTIAL CORRECTIONS

TDE	-.7438	TRA	-2.2655	TC3	-.0790	BAU	.1204												
RDE	.0423	RRA	.6177	RC3	-.3023	FAU	.02463												
FDE	1.2957	FRA	2.3984	FC3	-.7397	BSP	8500												
BDE	.7450	BRA	2.3482	BC3	.3125	FSP	-747												

MID-COURSE EXECUTION ACCURACY

SGT	2547.4	SGR	736.5	SG3	260.7														
RRT	-.8548	RRF	.9043	RTF	-.9402														
SGB	2651.7	R23	-.1603	R13	.9465														
SG1	2625.7	SG2	370.8	THA	165.83														

ORBIT DETERMINATION ACCURACY

ST	1075.5	SR	203.2	SS	1134.0														
CRT	-.8210	CRS	-.6679	CST	.9727														
LSA	1559.7	MSA	226.2	SSA	15.0														
EL1	1088.6	EL2	114.6	ALF	171.08														

LAUNCH DATE SEP 22 1965 FLIGHT TIME 132.00 ARRIVAL DATE FEB 1 1966

HELIOCENTRIC CONIC DISTANCE 329.888

RL	150.15	LAL	-.00	LOL	358.78	VL	26.486	GAL	6.59	AZL	85.80	HCA	136.26	SMA	124.46	ECC	.23491	INC	4.2002	V1	29.676
RP	107.48	LAP	2.90	LOP	135.12	VP	37.461	GAP	-11.13	AZP	93.04	TAL	157.36	TAP	293.62	RCA	95.23	APO	153.70	V2	35.258
RC	41.135	GL	21.40	GP	-22.63	ZAL	48.17	ZAP	24.91	ETS	61.34	ZAE	147.25	ETE	271.57	ZAC	53.12	ETC	137.29	CLP	-10.70

PLANETOCENTRIC CONIC

C3	27.895	VHL	5.282	DLA	4.05	RAL	310.88	RAD	6568.1	VEL	12.218	PTH	2.20	VHP	7.991	DPA	-43.65	RAP	313.60	ECC	1.4591

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 31 39	2421.48	-23.99	55.03	179.02	105.51	8 12 1	1821.5	-21.63	47.15
90.00	20 29 58	4813.81	18.46	207.62	176.71	68.14	21 50 11	4213.8	15.33	200.34
100.00	8 54 54	2152.99	-25.17	34.91	178.64	106.68	9 30 47	1553.0	-22.65	27.02
100.00	21 49 24	4557.54	19.59	188.28	176.22	66.96	23 5 22	3957.5	16.30	181.03
110.00	10 7 30	1925.77	-28.34	16.48	177.47	109.97	10 39 35	1325.8	-25.36	8.58
110.00	22 53 18	4357.52	22.62	171.60	174.72	63.66	24 5 55	3757.5	18.90	164.45

DIFFERENTIAL CORRECTIONS

TDE	-.7692	TRA	-2.2636	TC3	-.0479	BAU	.1272												
RDE	.1162	RRA	.6733	RC3	-.3376	FAU	.02543												
FDE	1.4196	FRA	2.5096	FC3	-.7893	BSP	8805												
BDE	.7780	BRA	2.3616	BC3	.3410	FSP	-811												

MID-COURSE EXECUTION ACCURACY

SGT	2599.9	SGR	824.2	SG3	280.2														
RRT	-.8820	RRF	.9317	RTF	-.9444														
SGB	2727.4	R23	-.1721	R13	.9519														
SG1	2701.6	SG2	373.8	THA	164.07														

ORBIT DETERMINATION ACCURACY

ST	1114.4	SR	253.5	SS	1204.3														
CRT	-.9467	CRS	-.8464	CST	.9722														
LSA	1645.3	MSA	221.6	SSA	14.1														
EL1	1140.0	EL2	79.9	ALF	167.78														

LAUNCH DATE SEP 22 1965 FLIGHT TIME 134.00 ARRIVAL DATE FEB 3 1966

HELIOCENTRIC CONIC DISTANCE 336.666

RL 150.15 LAL -.00 LOL 358.78 VL 26.581 GAL 6.32 AZL 85.38 HCA 139.50 SMA 125.06 ECC .22780 INC 4.6182 V1 29.676
RP 107.48 LAP 3.00 LOP 138.37 VP 37.527 GAP -10.43 AZP 93.51 TAL 157.42 TAP 296.92 RCA 96.57 APO 153.54 V2 35.257
RC 41.780 GL 24.02 GP -25.18 ZAL 49.25 ZAP 27.90 ETS 60.15 ZAE 144.38 ETE 275.68 ZAC 55.84 ETC 137.18 CLP -12.42

PLANETOCENTRIC CONIC

C3 27.302 VHL 5.225 DLA 6.54 RAL 310.03 RAD 6568.1 VEL 12.193 PTH 2.19 VHP 7.724 DPA -45.72 RAP 316.47 ECC 1.4493

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 9 24	2494.28	-25.23	60.00	178.72	103.31	7 50 58	1894.3	-23.15	51.95
90.00	20 45 24	4730.31	16.26	202.47	175.09	66.50	22 4 14	4130.3	12.95	195.36
100.00	8 33 51	2221.88	-26.43	39.64	178.39	104.49	9 10 53	1621.9	-24.18	31.56
100.00	22 3 38	4477.94	17.40	183.39	174.56	65.30	23 18 16	3877.9	13.92	176.32
110.00	9 49 13	1986.02	-29.67	20.67	177.33	107.81	10 22 19	1386.0	-26.95	12.54
110.00	23 4 45	4286.56	20.42	167.28	172.98	61.97	24 16 12	3686.6	16.51	160.34

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.8043 TRA-2.2643 TC3 -.0199 BAU .1364 SGT 2650.3 SGR 934.0 SG3 299.5 ST 1157.5 SR 332.1 SS 1279.5
RDE .2036 RRA .7418 RC3 -.3733 FAU .02601 RRT -.9029 RRF .9524 RTF -.9482 CRT -.9911 CRS -.9343 CST .9723
FDE 1.5596 FRA 2.6174 FC3 -.8247 BSP 9071 SGB 2810.0 R23 -.1815 R13 .9573 LSA 1743.4 MSA 218.3 SSA 13.1
BDE .8296 BRA 2.3827 BC3 .3738 FSP -872 SG1 2783.9 SG2 382.2 THA 162.00 EL1 1203.5 EL2 42.5 ALF 164.11

LAUNCH DATE SEP 22 1965 FLIGHT TIME 136.00 ARRIVAL DATE FEB 5 1966

HELIOCENTRIC CONIC DISTANCE 343.428

RL 150.15 LAL -.00 LOL 358.78 VL 26.668 GAL 6.07 AZL 84.90 HCA 142.73 SMA 125.61 ECC .22121 INC 5.0954 V1 29.676
RP 107.49 LAP 3.08 LOP 141.62 VP 37.587 GAP -9.76 AZP 94.06 TAL 157.50 TAP 300.23 RCA 97.82 APO 153.39 V2 35.255
RC 42.583 GL 26.91 GP -28.14 ZAL 50.57 ZAP 31.24 ETS 59.36 ZAE 141.06 ETE 278.93 ZAC 58.77 ETC 136.97 CLP -14.17

PLANETOCENTRIC CONIC

C3 27.087 VHL 5.205 DLA 9.26 RAL 309.04 RAD 6568.1 VEL 12.185 PTH 2.19 VHP 7.502 DPA -48.14 RAP 319.63 ECC 1.4458

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 44 13	2579.46	-26.43	65.95	178.71	100.56	7 27 12	1979.5	-24.70	57.71
90.00	21 2 42	4641.22	13.77	197.12	173.70	65.01	22 20 3	4041.2	10.29	190.17
100.00	8 10 5	2302.50	-27.68	45.30	178.43	101.76	8 48 28	1702.5	-25.78	37.02
100.00	22 19 30	4393.41	14.92	178.33	173.13	63.80	23 32 44	3793.4	11.28	171.43
110.00	9 28 39	2056.67	-31.03	25.72	177.51	105.11	10 2 55	1456.7	-28.65	17.33
110.00	23 17 26	4212.00	17.97	162.88	171.45	60.42	24 27 38	3612.0	13.89	156.14

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.8473 TRA-2.2646 TC3 .0084 BAU .1478 SGT 2692.7 SGR 1068.9 SG3 317.2 ST 1201.8 SR 438.1 SS 1356.6
RDE .3088 RRA .8250 RC3 -.4079 FAU .02631 RRT -.9190 RRF .9676 RTF -.9519 CRT -.9996 CRS -.9727 CST .9727
FDE 1.7130 FRA 2.7122 FC3 -.8408 BSP 9393 SGB 2897.1 R23 -.1863 R13 .9627 LSA 1851.8 MSA 217.1 SSA 11.9
BDE .9018 BRA 2.4102 BC3 .4080 FSP -932 SG1 2870.0 SG2 395.4 THA 159.55 EL1 1279.1 EL2 11.9 ALF 159.98

LAUNCH DATE SEP 22 1965 FLIGHT TIME 138.00 ARRIVAL DATE FEB 7 1966

HELIOCENTRIC CONIC DISTANCE 350.173

RL 150.15 LAL -.00 LOL 358.78 VL 26.749 GAL 5.84 AZL 84.35 HCA 145.96 SMA 126.12 ECC .21513 INC 5.6490 V1 29.676
RP 107.50 LAP 3.16 LOP 144.87 VP 37.642 GAP -9.10 AZP 94.69 TAL 157.60 TAP 303.56 RCA 98.99 APO 153.25 V2 35.252
RC 43.538 GL 30.07 GP -31.56 ZAL 52.16 ZAP 34.98 ETS 58.89 ZAE 137.31 ETE 281.42 ZAC 61.98 ETC 136.69 CLP -15.94

PLANETOCENTRIC CONIC

C3 27.330 VHL 5.228 DLA 12.22 RAL 307.90 RAD 6568.1 VEL 12.194 PTH 2.19 VHP 7.337 DPA -50.96 RAP 323.23 ECC 1.4498

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 15 20	2679.88	-27.48	73.11	179.05	97.12	7 0 0	2079.9	-26.21	64.67
90.00	21 22 28	4545.23	10.94	191.49	172.62	63.72	22 38 13	3945.2	7.32	184.68
100.00	7 42 55	2397.38	-28.81	52.13	178.84	98.34	8 22 53	1797.4	-27.36	43.63
100.00	22 37 33	4302.96	12.14	173.06	172.00	62.47	23 49 16	3703.0	8.36	166.31
110.00	9 5 17	2139.68	-32.34	31.83	178.12	101.71	9 40 56	1539.7	-30.39	23.16
110.00	23 31 41	4133.42	15.27	158.39	170.20	59.04	24 40 35	3533.4	11.05	151.82

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.9069 TRA-2.2719 TC3 .0263 BAU .1601 SGT 2734.8 SGR 1233.0 SG3 332.0 ST 1253.8 SR 573.9 SS 1435.9
RDE .4395 RRA .9264 RC3 -.4373 FAU .02599 RRT -.9306 RRF .9782 RTF -.9552 CRT -.9964 CRS -.9891 CST .9739
FDE 1.8812 FRA 2.7879 FC3 -.8234 BSP 9653 SGB 2999.9 R23 -.1863 R13 .9681 LSA 1978.9 MSA 217.2 SSA 10.6
BDE 1.0078 BRA 2.4535 BC3 .4381 FSP -978 SG1 2971.0 SG2 415.5 THA 156.76 EL1 1378.2 EL2 44.1 ALF 155.46

LAUNCH DATE SEP 22 1965 FLIGHT TIME 140.00 ARRIVAL DATE FEB 9 1966

HELIOCENTRIC CONIC DISTANCE 356.898

RL 150.15 LAL -.00 LOL 358.78 VL 26.822 GAL 5.63 AZL 83.70 HCA 149.19 SMA 126.59 ECC .20954 INC 6.3035 V1 29.676
RP 107.51 LAP 3.22 LOP 148.12 VP 37.691 GAP -8.46 AZP 95.42 TAL 157.72 TAP 306.91 RCA 100.07 APO 153.12 V2 35.249
RC 44.633 GL 33.53 GP -35.52 ZAL 54.05 ZAP 39.16 ETS 58.68 ZAE 133.09 ETE 283.27 ZAC 65.51 ETC 136.40 CLP -17.70

PLANETOCENTRIC CONIC

C3 28.154 VHL 5.306 DLA 15.45 RAL 306.58 RAD 6568.1 VEL 12.228 PTH 2.20 VHP 7.245 DPA -54.19 RAP 327.51 ECC 1.4633

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 41 31	2799.79	-28.19	81.81	179.77	92.82	6 28 11	2199.8	-27.50	73.21
90.00	21 45 44	4440.11	7.71	185.46	171.99	62.67	22 59 44	3840.1	3.99	178.75
100.00	7 11 19	2510.17	-29.64	60.41	179.67	94.06	7 53 9	1910.2	-28.76	51.71
100.00	22 58 37	4204.96	8.99	167.48	171.30	61.37	24 8 42	3605.0	5.10	160.85
110.00	8 38 25	2237.68	-33.46	39.26	179.22	97.45	9 15 42	1637.7	-32.07	30.31
110.00	23 48 1	4050.22	12.30	153.77	169.32	57.85	24 55 31	3450.2	7.97	147.35

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.9751 TRA-2.2746 TC3 .0509 BAU .1744 SGT 2757.7 SGR 1426.1 SG3 340.8 ST 1301.2 SR 739.4 SS 1506.8
RDE .6024 RRA 1.0454 RC3 -.4606 FAU .02530 RRT -.9397 RRF .9854 RTF -.9584 CRT -.9910 CRS -.9959 CST .9751
FDE 2.0490 FRA 2.8202 FC3 -.7780 BSP 10173 SGB 3104.6 R23 -.1795 R13 .9735 LSA 2112.4 MSA 219.6 SSA 9.1
BDE 1.1462 BRA 2.5033 BC3 .4635 FSP -1025 SG1 3073.7 SG2 437.5 THA 153.50 EL1 1494.1 EL2 86.1 ALF 150.50

LAUNCH DATE SEP 22 1965 FLIGHT TIME 142.00 ARRIVAL DATE FEB 11 1966

HELIOCENTRIC CONIC DISTANCE 363.602

RL	150.15	LAL	-.00	LOL	358.78	VL	26.889	GAL	5.43	AZL	82.91	HCA	152.41	SMA	127.03	ECC	.20441	INC	7.0942
RP	107.52	LAP	3.28	LOP	151.37	VP	37.734	GAP	-7.85	AZP	96.29	TAL	157.84	TAP	310.25	RCA	101.06	APO	153.00
RC	45.858	GL	37.29	GP	-40.07	ZAL	56.27	ZAP	43.80	ETS	58.69	ZAE	128.37	ETE	284.66	ZAC	69.42	ETC	136.17

V1	29.676	V2	35.244	CLP	-19.41														

PLANETOCENTRIC CONIC

C3	29.770	VHL	5.456	DLA	18.94	RAL	305.04	RAD	6568.2	VEL	12.294	PTH	2.21	VHP	7.251	DPA	-57.83	RAP	332.86

ECC	1.4899																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 0 39	2946.24	-28.21	92.51	180.84	87.46	5 49 46	2346.2	-28.27	83.85
90.00	22 14 21	4321.58	3.95	178.77	171.98	61.94	23 26 23	3721.6	.17	172.13
100.00	6 33 36	2646.54	-29.87	70.53	180.91	88.74	7 17 42	2046.5	-29.72	61.73
100.00	23 24 6	4096.51	5.41	161.43	171.18	60.56	24 32 22	3496.5	1.44	154.88
110.00	8 6 59	2354.34	-34.12	48.30	180.87	92.15	8 46 14	1754.3	-33.45	39.12
110.00	0 11 7	3961.47	9.04	148.96	168.95	56.89	1 17 9	3361.5	4.62	142.66

DIFFERENTIAL CORRECTIONS

TDE	-1.0694	TRA	-2.2866	TC3	.0652	BAU	.1887												

RDE	.8122	RRA	1.1854	RC3	-.4695	FAU	.02368												
FDE	2.2133	FRA	2.8001	FC3	-.6886	BSP	10733												
BDE	1.3429	BRA	2.5757	BC3	.4740	FSP	-1048												

MID-COURSE EXECUTION ACCURACY

SGT	2776.9	SGR	1649.9	SG3	341.6														

RRT	-.9463	RRF	.9902	RTF	-.9615														

SGB	3230.0	R23	-.1673	R13	.9789														
SG1	3196.6	SG2	463.4	THA	149.96														

ORBIT DETERMINATION ACCURACY

ST	1356.9	SR	940.0	SS	1569.0														

CRT	-.9867	CRS	-.9986	CST	.9771														

LSA	2266.5	MSA	222.3	SSA	7.7														

EL1	1645.9	EL2	125.8	ALF	145.41														

LAUNCH DATE SEP 22 1965 FLIGHT TIME 144.00 ARRIVAL DATE FEB 13 1966

HELIOCENTRIC CONIC DISTANCE 370.289

RL	150.15	LAL	-.00	LOL	358.78	VL	26.951	GAL	5.26	AZL	81.92	HCA	155.63	SMA	127.43	ECC	.19975	INC	8.0756
RP	107.54	LAP	3.32	LOP	154.62	VP	37.773	GAP	-7.25	AZP	97.36	TAL	157.96	TAP	313.59	RCA	101.98	APO	152.89
RC	47.202	GL	41.36	GP	-45.25	ZAL	58.83	ZAP	48.90	ETS	58.90	ZAE	123.11	ETE	285.78	ZAC	73.76	ETC	136.15

V1	29.676	V2	35.239	CLP	-20.97														

PLANETOCENTRIC CONIC

C3	32.547	VHL	5.705	DLA	22.69	RAL	303.25	RAD	6568.3	VEL	12.406	PTH	2.24	VHP	7.393	DPA	-61.78	RAP	339.99

ECC	1.5356																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 8 22	3133.48	-26.90	106.04	182.04	80.81	5 0 35	2533.5	-27.90	97.52
90.00	22 52 23	4179.15	-.63	170.82	172.96	61.69	24 2 2	3579.2	-4.41	164.18
100.00	5 46 34	2816.82	-28.95	83.09	182.39	82.20	6 33 31	2216.8	-29.73	74.37
100.00	0 0 47	3971.04	1.17	154.52	171.96	60.13	1 6 58	3371.0	-2.81	148.00
110.00	7 29 23	2495.17	-33.94	59.28	183.01	85.65	8 10 58	1895.2	-34.17	50.05
110.00	0 34 28	3865.46	5.44	143.87	169.31	56.20	1 38 53	3265.5	.96	137.64

DIFFERENTIAL CORRECTIONS

TDE	-1.2818	TRA	-2.3941	TC3	-.0322	BAU	.1852												

RDE	1.1143	RRA	1.3746	RC3	-.4244	FAU	.01798												
FDE	2.4213	FRA	2.7753	FC3	-.4783	BSP	9363												
BDE	1.6985	BRA	2.7607	BC3	.4256	FSP	-908												

MID-COURSE EXECUTION ACCURACY

SGT	2907.0	SGR	1930.2	SG3	338.4														

RRT	-.9485	RRF	.9929	RTF	-.9648														

SGB	3489.5	R23	-.1514	R13	.9840														
SG1	3451.3	SG2	514.8	THA	146.97														

ORBIT DETERMINATION ACCURACY

ST	1506.2	SR	1205.9	SS	1657.8														

CRT	-.9864	CRS	-.9997	CST	.9822														

LSA	2534.3	MSA	220.2	SSA	6.7														

EL1	1923.2	EL2	155.0	ALF	141.40														

LAUNCH DATE SEP 22 1965 FLIGHT TIME 146.00 ARRIVAL DATE FEB 15 1966

HELIOCENTRIC CONIC DISTANCE 376.935

RL	150.15	LAL	-.00	LOL	358.78	VL	27.006	GAL	5.09	AZL	80.67	HCA	158.84	SMA	127.80	ECC	.19550	INC	9.3338
RP	107.55	LAP	3.36	LOP	157.87	VP	37.807	GAP	-6.66	AZP	98.71	TAL	158.09	TAP	316.92	RCA	102.81	APO	152.78
RC	48.656	GL	45.73	GP	-51.09	ZAL	61.78	ZAP	54.44	ETS	59.39	ZAE	117.28	ETE	286.90	ZAC	78.60	ETC	136.59

V1	29.676	V2	35.234	CLP	-22.20														

PLANETOCENTRIC CONIC

C3	37.125	VHL	6.093	DLA	26.66	RAL	301.12	RAD	6568.4	VEL	12.589	PTH	2.28	VHP	7.729	DPA	-65.80	RAP	350.09

ECC	1.6110																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	2 48 45	3411.38	-22.45	125.14	182.35	72.27	3 45 37	2811.4	-24.66	117.17
90.00	23 54 57	3967.69	-7.39	158.95	175.90	62.59	25 1 5	3367.7	-11.01	152.14
100.00	4 41 27	3048.10	-25.70	99.49	183.42	74.18	5 32 15	2448.1	-27.62	91.21
100.00	0 48 53	3806.19	-4.41	145.46	174.27	60.40	1 52 19	3206.2	-8.31	138.85
110.00	6 42 17	2669.97	-32.23	72.62	185.28	77.95	7 26 47	2070.0	-33.56	63.64
110.00	1 4 32	3757.10	1.31	138.19	170.72	55.84	2 7 9	3157.1	-3.18	131.99

DIFFERENTIAL CORRECTIONS

TDE	-1.4328	TRA	-2.4050	TC3	.0163	BAU	.1977												

RDE	1.4668	RRA	1.5378	RC3	-.3979	FAU	.01551												
FDE	2.4897	FRA	2.5658	FC3	-.3618	BSP	11117												
BDE	2.0505	BRA	2.8546	BC3	.3983	FSP	-930												

MID-COURSE EXECUTION ACCURACY

SGT	2867.0	SGR	2180.8	SG3	311.1														

RRT	-.9537	RRF	.9948	RTF	-.9683														

SGB	3602.1	R23	-.1289	R13	.9886														
SG1	3563.3	SG2	527.8	THA	143.10														

ORBIT DETERMINATION ACCURACY

ST	1546.5	SR	1462.3	SS	1654.4														

CRT	-.9847	CRS	-1.0000	CST	.9838														

LSA	2686.3	MSA	225.0	SSA	5.3														

EL1	2120.3	EL2	185.7	ALF	136.63														

LAUNCH DATE SEP 22 1965 FLIGHT TIME 148.00 ARRIVAL DATE FEB 17 1966

HELIOCENTRIC CONIC DISTANCE 383.552

RL	150.15	LAL	-.00	LOL	358.78	VL	27.056	GAL	4.95	AZL	78.98	HCA	162.03	SMA	128.13	ECC	.19169	INC	11.0164
RP	107.57	LAP	3.38	LOP	161.12	VP	37.837	GAP	-6.10	AZP	100.49	TAL	158.20	TAP	320.23	RCA	103.57	APO	152.69
RC	50.208	GL	50.31	GP	-57.53	ZAL	65.10	ZAP	60.31	ETS	60.43	ZAE	110.87	ETE	288.54	ZAC	83.95	ETC	137.95

V1	29.676	V2	35.227	CLP	-22.67														

PLANETOCENTRIC CONIC

C3	44.801	VHL	6.693	DLA	30.76	RAL	298.56	RAD	6568.7	VEL	12.891	PTH	2.35	VHP	8.358	DPA	-69.28	RAP	4.96

ECC	1.7373																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
77.44	23 29 26	4059.42	-15.48	169.91	180.85	63.08	24 37 5	3459.4	-18.97	162.79
102.56	2 53 50	3414.50	-15.47	122.34	180.84	63.07	3 50 45	2814.5	-18.95	115.22
77.44	23 29 26	4059.42	-15.48	169.91	180.85	63.08	24 37 5	3459.4	-18.97	162.79
102.56	2 53 50	3414.50	-15.47	122.34	180.84	63.07	3 50 45	2814.5	-18.95	115.22
110.00	5 38 0	2901.97	-27.72	89.15	186.66	69.15	6 26 22	2302.0	-30.30	80.91
110.00	1 48 22	3619.94	-3.93	131.03	173.97	56.02	2 48 42	3019.9	-8.36	124.75

DIFFERENTIAL CORRECTIONS

TDE	-1.7445	TRA	-2.5178	TC3	-.0041	BAU	.1910												

RDE	1.9584	RRA	1.7189	RC3	-.3189	FAU	.01016												
FDE	2.5328	FRA	2.3111	FC3	-.1963	BSP	11780												
BDE	2.6227	BRA	3.0486	BC3	.3190	FSP	-834												

MID-COURSE EXECUTION ACCURACY

SGT	2919.1	SGR	2434.1	SG3	274.2														

RRT	-.9565	RRF	.9955	RTF	-.9727														

SGB	3800.8	R23	-.1042	R13	.9925														
SG1	3760.6	SG2	551.4	THA	140.41														

ORBIT DETERMINATION ACCURACY

ST	1672.2	SR	1753.4	SS	1643.1														

CRT	-.9857	CRS	-.9999	CST	.9875														

LSA	2918.8	MSA	225.6	SSA	4.2														

EL1	2414.3	EL2	204.9	ALF	133.62														

LAUNCH DATE SEP 22 1965 FLIGHT TIME 150.00 ARRIVAL DATE FEB 19 1966

HELIOCENTRIC CONIC DISTANCE 390.125

RL 150.15 LAL -.00 LOL 358.78 VL 27.101 GAL 4.83 AZL 76.61 HCA 165.20 SMA 128.43 ECC .18830 INC13.3941 V1 29.676
RP 107.60 LAP 3.39 LOP 164.37 VP 37.863 GAP -5.56 AZP 102.97 TAL 158.29 TAP 323.49 RCA 104.25 APO 152.62 V2 35.220
RC 51.850 GL 54.98 GP -64.45 ZAL 68.79 ZAP 66.32 ETS 63.02 ZAE 103.88 ETE 291.83 ZAC 89.87 ETC 141.40 CLP -21.38

PLANETOCENTRIC CONIC

C3 58.343 VHL 7.638 DLA 34.83 RAL 295.42 RAD 6569.1 VEL 13.405 PTH 2.45 VHP 9.456 DPA -71.09 RAP 25.82 ECC 1.9602

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
68.81	22 20 36	4299.70	-15.02	188.07	182.75	58.20	23 32 15	3699.7	-19.12	181.29
111.19	3 37 37	3305.46	-15.01	113.73	182.74	58.19	4 32 43	2705.5	-19.11	106.95
68.81	22 20 36	4299.70	-15.02	188.07	182.75	58.20	23 32 15	3699.7	-19.12	181.29
111.19	3 37 37	3305.46	-15.01	113.73	182.74	58.19	4 32 43	2705.5	-19.11	106.95
68.81	22 20 36	4299.70	-15.02	188.07	182.75	58.20	23 32 15	3699.7	-19.12	181.29
111.19	3 37 37	3305.46	-15.01	113.73	182.74	58.19	4 32 43	2705.5	-19.11	106.95

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE-2.3090 TRA-2.7553 TC3 -.0370 BAU .1635 SGT 3056.7 SGR 2602.3 SG3 226.6 ST 1889.6 SR 2015.2 SS 1600.3
RDE 2.5996 RRA 1.8537 RC3 -.2063 FAU .00371 RRT -.9586 RRF .9945 RTF -.9793 CRT -.9878 CRS -.9996 CST .9918
FDE 2.5071 FRA 1.9978 FC3 -.0550 BSP 12379 SGB 4014.4 R23 -.0766 R13 .9957 LSA 3184.7 MSA 224.0 SSA 3.2
BDE 3.4770 BRA 3.3209 BC3 .2096 FSP -697 SG1 3973.8 SG2 569.7 THA 139.79 EL1 2754.1 EL2 215.4 ALF 133.14

LAUNCH DATE SEP 22 1965 FLIGHT TIME 152.00 ARRIVAL DATE FEB 21 1966

HELIOCENTRIC CONIC DISTANCE 396.632

RL 150.15 LAL -.00 LOL 358.78 VL 27.141 GAL 4.72 AZL 72.98 HCA 168.33 SMA 128.71 ECC .18533 INC17.0223 V1 29.676
RP 107.62 LAP 3.39 LOP 167.61 VP 37.884 GAP -5.04 AZP 106.69 TAL 158.34 TAP 326.68 RCA 104.85 APO 152.56 V2 35.212
RC 53.572 GL 59.42 GP -71.57 ZAL 72.80 ZAP 72.25 ETS 70.74 ZAE 96.25 ETE 300.47 ZAC 96.48 ETC 150.66 CLP -15.31

PLANETOCENTRIC CONIC

C3 84.597 VHL 9.198 DLA 38.51 RAL 291.50 RAD 6569.7 VEL 14.351 PTH 2.61 VHP 11.376 DPA -69.83 RAP 49.31 ECC 2.3923

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
62.73	21 32 34	4483.14	-12.91	201.37	184.78	53.39	22 47 17	3883.1	-17.58	195.06
117.27	3 54 24	3297.25	-12.89	111.58	184.77	53.39	4 49 22	2697.3	-17.57	105.27
62.73	21 32 34	4483.14	-12.91	201.37	184.78	53.39	22 47 17	3883.1	-17.58	195.06
117.27	3 54 24	3297.25	-12.89	111.58	184.77	53.39	4 49 22	2697.3	-17.57	105.27
62.73	21 32 34	4483.14	-12.91	201.37	184.78	53.39	22 47 17	3883.1	-17.58	195.06
117.27	3 54 24	3297.25	-12.89	111.58	184.77	53.39	4 49 22	2697.3	-17.57	105.27

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE-3.5812 TRA-3.3003 TC3 -.0801 BAU .1311 SGT 3449.9 SGR 2417.7 SG3 173.9 ST 2366.0 SR 2037.2 SS 1536.3
RDE 3.2045 RRA 1.7023 RC3 -.0838 FAU-.00327 RRT -.9581 RRF .9878 RTF -.9893 CRT -.9904 CRS -.9984 CST .9966
FDE 2.4263 FRA 1.6680 FC3 .0335 BSP 13120 SGB 4212.7 R23 -.0457 R13 .9981 LSA 3473.0 MSA 216.4 SSA 2.4
BDE 4.8056 BRA 3.7134 BC3 .1159 FSP -549 SG1 4173.6 SG2 572.4 THA 145.38 EL1 3114.9 EL2 214.1 ALF 139.31

LAUNCH DATE SEP 22 1965 FLIGHT TIME 154.00 ARRIVAL DATE FEB 23 1966

HELIOCENTRIC CONIC DISTANCE 403.028

RL 150.15 LAL -.00 LOL 358.78 VL 27.177 GAL 4.65 AZL 66.78 HCA 171.39 SMA 128.95 ECC .18285 INC23.2166 V1 29.676
RP 107.64 LAP 3.38 LOP 170.86 VP 37.902 GAP -4.56 AZP 112.98 TAL 158.31 TAP 329.70 RCA 105.37 APO 152.53 V2 35.204
RC 55.368 GL 62.82 GP -77.70 ZAL 77.05 ZAP 77.77 ETS 100.59 ZAE 87.68 ETE 331.36 ZAC 104.28 ETC 182.75 CLP 6.36

PLANETOCENTRIC CONIC

C3 144.084 VHL 12.003 DLA 40.99 RAL 286.59 RAD 6570.6 VEL 16.292 PTH 2.85 VHP 14.934 DPA -64.80 RAP 68.47 ECC 3.3713

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
59.03	20 55 50	4641.20	-8.85	211.42	186.28	49.81	22 13 12	4041.2	-13.95	205.56
120.97	3 51 58	3358.19	-8.84	113.44	186.27	49.81	4 47 56	2758.2	-13.94	107.57
59.03	20 55 50	4641.20	-8.85	211.42	186.28	49.81	22 13 12	4041.2	-13.95	205.56
120.97	3 51 58	3358.19	-8.84	113.44	186.27	49.81	4 47 56	2758.2	-13.94	107.57
59.03	20 55 50	4641.20	-8.85	211.42	186.28	49.81	22 13 12	4041.2	-13.95	205.56
120.97	3 51 58	3358.19	-8.84	113.44	186.27	49.81	4 47 56	2758.2	-13.94	107.57

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE-7.0200 TRA-4.3645 TC3 -.1604 BAU .3184 SGT 4358.2 SGR 466.6 SG3 125.5 ST 3451.7 SR 384.9 SS 1504.8
RDE .7900 RRA -.4075 RC3 -.0399 FAU-.01168 RRT -.2535 RRF .2691 RTF -.9993 CRT -.9028 CRS -.9075 CST .9939
FDE 2.3782 FRA 1.4086 FC3 .0702 BSP 13540 SGB 4383.1 R23 -.0134 R13 .9994 LSA 3781.4 MSA 164.9 SSA 1.8
BDE 7.0644 BRA 4.3835 BC3 .1653 FSP -400 SG1 4359.8 SG2 451.2 THA 178.43 EL1 3469.1 EL2 164.7 ALF 174.24

LAUNCH DATE SEP 22 1965 FLIGHT TIME 156.00 ARRIVAL DATE FEB 25 1966

HELIOCENTRIC CONIC DISTANCE 409.164

RL 150.15 LAL -.00 LOL 358.78 VL 27.208 GAL 4.64 AZL 54.24 HCA 174.24 SMA 129.17 ECC .18101 INC35.7627 V1 29.676
RP 107.67 LAP 3.36 LOP 174.10 VP 37.917 GAP -4.14 AZP 125.63 TAL 158.09 TAP 332.33 RCA 105.78 APO 152.55 V2 35.195
RC 57.230 GL 62.86 GP -76.64 ZAL 81.33 ZAP 82.55 ETS 161.10 ZAE 76.92 ETE 32.51 ZAC 114.93 ETC 246.20 CLP 55.86

PLANETOCENTRIC CONIC

C3 317.186 VHL 17.810 DLA 40.09 RAL 280.67 RAD 6571.8 VEL 20.940 PTH 3.19 VHP 22.389 DPA -55.17 RAP 80.68 ECC 6.2201

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
60.35	20 38 7	4742.24	-3.58	215.58	186.42	50.04	21 57 9	4142.2	-8.69	209.80
119.65	3 22 26	3492.27	-3.56	120.42	186.41	50.04	4 20 38	2892.3	-8.67	114.64
60.35	20 38 7	4742.24	-3.58	215.58	186.42	50.04	21 57 9	4142.2	-8.69	209.80
119.65	3 22 26	3492.27	-3.56	120.42	186.41	50.04	4 20 38	2892.3	-8.67	114.64
60.35	20 38 7	4742.24	-3.58	215.58	186.42	50.04	21 57 9	4142.2	-8.69	209.80
119.65	3 22 26	3492.27	-3.56	120.42	186.41	50.04	4 20 38	2892.3	-8.67	114.64

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE-6.2051 TRA-2.0413 TC3 -.1453 BAU 1.1451 SGT 2233.7 SGR 3848.3 SG3 89.5 ST 2012.8 SR 3077.7 SS 1632.9
RDE-9.3297 RRA-5.3931 RC3 -.2276 FAU-.02608 RRT .9723 RRF -.9985 RTF -.9814 CRT .9955 CRS .9998 CST .9971
FDE 2.5693 FRA 1.3573 FC3 .0712 BSP 13488 SGB 4449.6 R23 -.0133 R13 -.9995 LSA 4020.5 MSA 159.9 SSA 1.7
BDE11.2048 BRA 5.7665 BC3 .2700 FSP -283 SG1 4426.4 SG2 454.0 THA 60.22 EL1 3674.0 EL2 159.3 ALF 56.86

LAUNCH DATE SEP 22 1965 FLIGHT TIME 158.00 ARRIVAL DATE FEB 27 1966

HELIOCENTRIC CONIC DISTANCE 414,436

RL 150.15 LAL -.00 LOL 358.78 VL 27.236 GAL 4.79 AZL 23.34 HCA 176.37 SMA 129.35 ECC .18067 INC66.6598 VI 29.676
RP 107.70 LAP 3.33 LOP 177.34 VP 37.928 GAP -3.95 AZP 156.62 TAL 157.25 TAP 333.62 RCA 105.98 APO 152.72 V2 35.186
RC 59.152 GL 52.50 GP -59.97 ZAL 84.96 ZAP 86.00 ETS 179.76 ZAE 59.95 ETE 48.20 ZAC 134.03 ETC 268.49 CLP 81.98

PLANETOCENTRIC CONIC

C3 986.551 VHL 31.409 DLA 29.18 RAL 274.93 RAD 6572.9 VEL 33.284 PTH 3.50 VHP 39.917 DPA -36.24 RAP 86.94 ECC17.2361

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
82.64	22 34 44	4400.50	.17	186.62	185.26	60.82	23 48 4	3800.5	-3.72	180.04
97.36	0 40 2	4008.09	.19	157.82	185.25	60.82	1 46 50	3408.1	-3.70	151.24
100.00	1 55 24	3766.43	-5.74	143.26	188.58	60.61	2 58 11	3166.4	-9.61	136.62
100.00	0 5 59	4117.40	6.10	162.59	181.94	60.68	1 14 36	3517.4	2.15	156.03
110.00	4 27 18	3290.67	-16.02	113.20	194.61	59.39	5 22 9	2690.7	-19.96	106.30
110.00	23 46 38	4165.93	16.40	160.23	175.92	59.58	24 56 4	3565.9	12.24	153.60

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE-6.4442 TRA -.3031 TC3 -.1123 BAU 4.0650 SGT 1372.3 SGR 3865.2 SG3 71.3 ST 1175.9 SR 2930.1 SS 2127.6
RD-15.7700 RRA-8.8429 RC3 -.2870 FAU-.07245 RRT .8993 RRF -.9998 RTF -.8995 CRT .9849 CRS 1.0000 CST .9845
FDE 3.3189 FRA 1.8811 FC3 .0636 BSP 11948 SGB 4101.6 R23 -.0451 R13 -.9988 LSA 3802.2 MSA 194.8 SSA 1.7
BDE17.0358 BRA 8.8480 BC3 .3082 FSP -216 SG1 4061.7 SG2 571.1 THA 71.92 EL1 3151.6 EL2 189.4 ALF 68.35

LAUNCH DATE SEP 22 1965 FLIGHT TIME 160.00 ARRIVAL DATE MAR 1 1966

HELIOCENTRIC CONIC DISTANCE 425,827

RL 150.15 LAL -.00 LOL 358.78 VL 27.260 GAL 3.86 AZL 151.36 HCA 183.75 SMA 129.52 ECC .17259 INC61.3630 VI 29.676
RP 107.73 LAP 3.29 LOP 180.58 VP 37.936 GAP -2.24 AZP 28.69 TAL 160.90 TAP 344.64 RCA 107.17 APO 151.87 V2 35.176
RC 61.127 GL -54.87 GP 62.37 ZAL 85.44 ZAP 87.48 ETS 192.16 ZAE 75.83 ETE 314.22 ZAC 103.40 ETC 97.62 CLP 84.55

PLANETOCENTRIC CONIC

C3 852.000 VHL 29.189 DLA -77.87 RAL 288.70 RAD 6572.8 VEL 31.198 PTH 3.47 VHP 37.828 DPA 83.79 RAP 33.07 ECC15.0218

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
13.81	6 59 46	2448.77	.11	82.55	198.67	167.87	7 40 35	1848.8	7.93	81.28
166.19	18 4 50	657.36	.12	283.33	198.68	167.87	18 15 47	57.4	7.94	282.06
13.81	6 59 46	2448.77	.11	82.55	198.67	167.87	7 40 35	1848.8	7.93	81.28
166.19	18 4 50	657.36	.12	283.33	198.68	167.87	18 15 47	57.4	7.94	282.06
13.81	6 59 46	2448.77	.11	82.55	198.67	167.87	7 40 35	1848.8	7.93	81.28
166.19	18 4 50	657.36	.12	283.33	198.68	167.87	18 15 47	57.4	7.94	282.06

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE 9.1166 TRA -.9814 TC3 -.1640 BAU 3.6587 SGT 2227.0 SGR 3635.8 SG3 75.5 ST 1810.8 SR 2200.9 SS 1893.1
RD-10.5273 RRA 2.6965 RC3 .2762 FAU-.06223 RRT -.9327 RRF .9967 RTF -.9573 CRT -.9804 CRS -.9986 CST .9894
FDE-2.8201 FRA .6071 FC3 .0632 BSP 13026 SGB 4263.6 R23 -.0205 R13 .9995 LSA 3410.0 MSA 279.9 SSA 2.1
BDE13.9261 BRA 2.8695 BC3 .3212 FSP -234 SG1 4206.7 SG2 694.1 THA 120.66 EL1 2836.6 EL2 276.6 ALF 129.34

LAUNCH DATE SEP 22 1965 FLIGHT TIME 162.00 ARRIVAL DATE MAR 3 1966

HELIOCENTRIC CONIC DISTANCE 431,188

RL 150.15 LAL -.00 LOL 358.78 VL 27.281 GAL 4.02 AZL 122.81 HCA 185.98 SMA 129.66 ECC .17250 INC32.8059 VI 29.676
RP 107.76 LAP 3.24 LOP 183.82 VP 37.941 GAP -2.04 AZP 57.34 TAL 160.05 TAP 346.03 RCA 107.29 APO 152.03 V2 35.166
RC 63.151 GL -63.95 GP 79.42 ZAL 81.60 ZAP 85.87 ETS 220.06 ZAE 91.31 ETE 338.05 ZAC 86.02 ETC 121.60 CLP 66.89

PLANETOCENTRIC CONIC

C3 269.352 VHL 16.412 DLA -81.98 RAL 349.51 RAD 6571.6 VEL 19.765 PTH 3.13 VHP 21.391 DPA 74.32 RAP 295.71 ECC 5.4329

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
9.12	10 53 12	2354.94	6.84	84.30	258.53	171.92	11 32 27	1754.9	14.76	83.56
170.88	22 16 36	5839.77	6.84	258.44	258.56	171.92	23 53 56	5239.8	14.76	257.70
9.12	10 53 12	2354.94	6.84	84.30	258.53	171.92	11 32 27	1754.9	14.76	83.56
170.88	22 16 36	5839.77	6.84	258.44	258.56	171.92	23 53 56	5239.8	14.76	257.70
9.12	10 53 12	2354.94	6.84	84.30	258.53	171.92	11 32 27	1754.9	14.76	83.56
170.88	22 16 36	5839.77	6.84	258.44	258.56	171.92	23 53 56	5239.8	14.76	257.70

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE-1.5835 TRA-1.5075 TC3 -.2148 BAU .9968 SGT 3877.9 SGR 2840.4 SG3 99.5 ST 1259.8 SR 1355.2 SS 809.1
RDE 3.2054 RRA 1.0177 RC3 .1746 FAU-.01859 RRT -.9653 RRF .9877 RTF -.9939 CRT -.8691 CRS -.9685 CST .9649
FDE .8267 FRA .4383 FC3 .0597 BSP 14898 SGB 4806.9 R23 -.0171 R13 .9996 LSA 1963.5 MSA 472.0 SSA 1.3
BDE 3.5752 BRA 1.8189 BC3 .2768 FSP -314 SG1 4768.9 SG2 603.2 THA 144.07 EL1 1789.1 EL2 471.9 ALF 132.60

LAUNCH DATE SEP 22 1965 FLIGHT TIME 164.00 ARRIVAL DATE MAR 5 1966

HELIOCENTRIC CONIC DISTANCE 437,267

RL 150.15 LAL -.00 LOL 358.78 VL 27.298 GAL 4.06 AZL 111.09 HCA 188.85 SMA 129.78 ECC .17180 INC21.0949 VI 29.676
RP 107.80 LAP 3.18 LOP 187.05 VP 37.943 GAP -1.67 AZP 69.13 TAL 159.74 TAP 348.59 RCA 107.48 APO 152.08 V2 35.155
RC 65.219 GL -63.42 GP 84.79 ZAL 77.27 ZAP 84.79 ETS 278.03 ZAE 99.99 ETE 33.45 ZAC 76.90 ETC 175.17 CLP .18

PLANETOCENTRIC CONIC

C3 120.089 VHL 10.959 DLA -77.75 RAL 358.47 RAD 6570.3 VEL 15.538 PTH 2.77 VHP 14.306 DPA 65.02 RAP 290.42 ECC 2.9764

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
13.95	11 38 23	2216.25	15.56	80.01	265.00	167.28	12 15 19	1616.2	23.35	78.52
166.05	22 42 53	5713.31	15.56	258.84	265.01	167.28	24 18 7	5113.3	23.36	257.34
13.95	11 38 23	2216.25	15.56	80.01	265.00	167.28	12 15 19	1616.2	23.35	78.52
166.05	22 42 53	5713.31	15.56	258.84	265.01	167.28	24 18 7	5113.3	23.36	257.34
13.95	11 38 23	2216.25	15.56	80.01	265.00	167.28	12 15 19	1616.2	23.35	78.52
166.05	22 42 53	5713.31	15.56	258.84	265.01	167.28	24 18 7	5113.3	23.36	257.34

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE-3.8046 TRA-1.6666 TC3 -.1424 BAU .2291 SGT 4573.6 SGR 1920.6 SG3 142.4 ST 2339.8 SR 633.4 SS 999.1
RDE -.5278 RRA -.7713 RC3 .0083 FAU-.00281 RRT .9504 RRF -.9618 RTF -.9986 CRT .8443 CRS .8640 CST .9993
FDE 1.2826 FRA .6106 FC3 .0203 BSP 15443 SGB 4960.5 R23 .0047 R13 -.9995 LSA 2600.9 MSA 330.8 SSA 1.9
BDE 3.8410 BRA 1.8364 BC3 .1427 FSP -451 SG1 4929.4 SG2 554.4 THA 22.05 EL1 2401.4 EL2 330.7 ALF 13.13

LAUNCH DATE SEP 22 1965 FLIGHT TIME 166.00 ARRIVAL DATE MAR 7 1966

HELIOCENTRIC CONIC DISTANCE 443.538

RL 150.15 LAL -.00 LOL 358.78 VL 27.312 GAL 4.07 AZL 105.21 HCA 191.91 SMA 129.88 ECC .17110 INC15.2115 V1 29.676
RP 107.83 LAP 3.10 LOP 190.28 VP 37.943 GAP -1.24 AZP 75.10 TAL 159.55 TAP 351.46 RCA 107.66 APO 152.10 V2 35.143
RC 67.327 GL -59.79 GP 81.25 ZAL 72.96 ZAP 84.51 ETS 313.81 ZAE 105.95 ETE 67.11 ZAC 70.74 ETC 206.48 CLP -51.05

PLANETOCENTRIC CONIC

C3 68.415 VHL 8.271 DLA -73.34 RAL 352.57 RAD 6569.3 VEL 13.776 PTH 2.52 VHP 10.755 DPA 58.52 RAP 289.20 ECC 2.1259

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
19.00	11 25 3	2083.09	23.27	74.08	255.17	161.82	11 59 46	1483.1	30.85	71.60
161.00	22 9 9	5598.90	23.28	257.95	255.19	161.82	23 42 28	4998.9	30.85	255.46
19.00	11 25 3	2083.09	23.27	74.08	255.17	161.82	11 59 46	1483.1	30.85	71.60
161.00	22 9 9	5598.90	23.28	257.95	255.19	161.82	23 42 28	4998.9	30.85	255.46
19.00	11 25 3	2083.09	23.27	74.08	255.17	161.82	11 59 46	1483.1	30.85	71.60
161.00	22 9 9	5598.90	23.28	257.95	255.19	161.82	23 42 28	4998.9	30.85	255.46

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE-1.8163 TRA -.9553 TC3 -.0542 BAU .1386 SGT 2630.9 SGR 4277.8 SG3 201.6 ST 1436.2 SR 1649.5 SS 948.9
RDE-1.5719 RRA-1.7090 RC3 .1415 FAU .00758 RRT .9672 RRF -.9964 RTF -.9825 CRT .9405 CRS .9888 CST .9807
FDE 1.1274 FRA .9074 FC3 -.0960 BSP 15654 SGB 5022.1 R23 .0050 R13 -.9991 LSA 2354.7 MSA 373.5 SSA 2.6
BDE 2.4020 BRA 1.9579 BC3 .1516 FSP -641 SG1 4989.3 SG2 573.2 THA 58.80 EL1 2155.0 EL2 373.5 ALF 49.20

LAUNCH DATE SEP 22 1965 FLIGHT TIME 168.00 ARRIVAL DATE MAR 9 1966

HELIOCENTRIC CONIC DISTANCE 449.870

RL 150.15 LAL -.00 LOL 358.78 VL 27.323 GAL 4.08 AZL 101.73 HCA 195.03 SMA 129.96 ECC .17055 INC11.7257 V1 29.676
RP 107.87 LAP 3.02 LOP 193.51 VP 37.941 GAP -.81 AZP 78.66 TAL 159.40 TAP 354.43 RCA 107.79 APO 152.12 V2 35.132
RC 69.470 GL -55.19 GP 76.72 ZAL 68.88 ZAP 85.07 ETS 330.46 ZAE 110.55 ETE 82.06 ZAC 65.82 ETC 218.77 CLP -68.02

PLANETOCENTRIC CONIC

C3 45.503 VHL 6.746 DLA -68.82 RAL 346.16 RAD 6568.7 VEL 12.918 PTH 2.35 VHP 8.690 DPA 53.33 RAP 288.44 ECC 1.7489

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
24.23	11 10 30	1969.77	28.86	66.85	243.82	155.64	11 43 20	1369.8	36.08	63.19
155.77	21 32 30	5511.96	28.87	256.15	243.84	155.64	23 4 22	4912.0	36.09	252.49
24.23	11 10 30	1969.77	28.86	66.85	243.82	155.64	11 43 20	1369.8	36.08	63.19
155.77	21 32 30	5511.96	28.87	256.15	243.84	155.64	23 4 22	4912.0	36.09	252.49
24.23	11 10 30	1969.77	28.86	66.85	243.82	155.64	11 43 20	1369.8	36.08	63.19
155.77	21 32 30	5511.96	28.87	256.15	243.84	155.64	23 4 22	4912.0	36.09	252.49

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.9539 TRA -.4748 TC3 -.0799 BAU .2465 SGT 1383.6 SGR 4843.7 SG3 273.3 ST 876.7 SR 1717.1 SS 917.5
RDE-1.1461 RRA-2.0052 RC3 .3972 FAU .01701 RRT .8944 RRF -.9978 RTF -.9121 CRT .8386 CRS .9914 CST .9025
FDE .9634 FRA 1.2865 FC3 -.3236 BSP 15787 SGB 5037.4 R23 .0129 R13 -.9987 LSA 2089.9 MSA 437.2 SSA 3.5
BDE 1.4912 BRA 2.0607 BC3 .4052 FSP -877 SG1 5001.6 SG2 599.3 THA 75.45 EL1 1877.8 EL2 436.7 ALF 65.40

LAUNCH DATE SEP 22 1965 FLIGHT TIME 170.00 ARRIVAL DATE MAR 11 1966

HELIOCENTRIC CONIC DISTANCE 456.220

RL 150.15 LAL -.00 LOL 358.78 VL 27.332 GAL 4.10 AZL 99.42 HCA 198.19 SMA 130.02 ECC .17020 INC 9.4237 V1 29.676
RP 107.90 LAP 2.93 LOP 196.74 VP 37.936 GAP -.37 AZP 81.04 TAL 159.24 TAP 357.43 RCA 107.89 APO 152.15 V2 35.120
RC 71.643 GL -50.37 GP 72.55 ZAL 65.10 ZAP 86.39 ETS 341.04 ZAE 114.30 ETE 91.46 ZAC 61.51 ETC 225.21 CLP -77.88

PLANETOCENTRIC CONIC

C3 33.534 VHL 5.796 DLA -64.26 RAL 341.00 RAD 6568.3 VEL 12.449 PTH 2.25 VHP 7.366 DPA 48.85 RAP 287.61 ECC 1.5529

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
29.56	11 1 58	1875.58	32.30	58.81	233.25	149.08	11 33 14	1275.6	39.05	53.95
150.44	20 59 56	5453.02	32.31	253.98	233.26	149.08	22 30 49	4853.0	39.06	249.11
29.56	11 1 58	1875.58	32.30	58.81	233.25	149.08	11 33 14	1275.6	39.05	53.95
150.44	20 59 56	5453.02	32.31	253.98	233.26	149.08	22 30 49	4853.0	39.06	249.11
29.56	11 1 58	1875.58	32.30	58.81	233.25	149.08	11 33 14	1275.6	39.05	53.95
150.44	20 59 56	5453.02	32.31	253.98	233.26	149.08	22 30 49	4853.0	39.06	249.11

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.5870 TRA -.1191 TC3 -.1896 BAU .3143 SGT 677.2 SGR 4991.1 SG3 354.4 ST 586.0 SR 1656.8 SS 926.2
RDE -.7916 RRA-2.1386 RC3 .6736 FAU .02619 RRT .4740 RRF -.9980 RTF -.4999 CRT .5899 CRS .9913 CST .6911
FDE .8603 FRA 1.7292 FC3 -.6749 BSP 15797 SGB 5036.8 R23 .0228 R13 -.9982 LSA 1931.1 MSA 465.9 SSA 4.3
BDE .9855 BRA 2.1419 BC3 .6997 FSP -1141 SG1 5001.6 SG2 595.0 THA 86.27 EL1 1695.4 EL2 462.4 ALF 77.25

LAUNCH DATE SEP 22 1965 FLIGHT TIME 172.00 ARRIVAL DATE MAR 13 1966

HELIOCENTRIC CONIC DISTANCE 462.569

RL 150.15 LAL -.00 LOL 358.78 VL 27.338 GAL 4.13 AZL 97.79 HCA 201.36 SMA 130.06 ECC .17007 INC 7.7860 V1 29.676
RP 107.94 LAP 2.83 LOP 199.96 VP 37.929 GAP .06 AZP 82.74 TAL 159.06 TAP .42 RCA 107.94 APO 152.18 V2 35.108
RC 73.845 GL -45.61 GP 68.69 ZAL 61.65 ZAP 88.39 ETS 349.17 ZAE 117.42 ETE 99.00 ZAC 57.51 ETC 229.50 CLP -85.58

PLANETOCENTRIC CONIC

C3 26.724 VHL 5.170 DLA -59.76 RAL 337.07 RAD 6568.1 VEL 12.170 PTH 2.18 VHP 6.462 DPA 44.77 RAP 286.61 ECC 1.4398

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
34.89	10 59 11	1795.91	33.96	50.54	223.94	142.62	11 29 7	1195.9	40.16	44.61
145.11	20 31 18	5418.05	33.97	252.00	223.96	142.61	22 1 36	4818.0	40.17	246.07
34.89	10 59 11	1795.91	33.96	50.54	223.94	142.62	11 29 7	1195.9	40.16	44.61
145.11	20 31 18	5418.05	33.97	252.00	223.96	142.61	22 1 36	4818.0	40.17	246.07
34.89	10 59 11	1795.91	33.96	50.54	223.94	142.62	11 29 7	1195.9	40.16	44.61
145.11	20 31 18	5418.05	33.97	252.00	223.96	142.61	22 1 36	4818.0	40.17	246.07

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.3964 TRA .1945 TC3 -.3686 BAU .3581 SGT 722.1 SGR 4972.2 SG3 440.1 ST 457.9 SR 1587.2 SS 962.0
RDE -.5807 RRA-2.1968 RC3 .9320 FAU .03520 RRT -.5999 RRF -.9979 RTF .5800 CRT .1323 CRS .9902 CST .2694
FDE .8226 FRA 2.2132 FC3-1.1403 BSP 15784 SGB 5024.4 R23 .0335 R13 -.9976 LSA 1854.1 MSA 465.3 SSA 5.1
BDE .7031 BRA 2.2054 BC3 1.0023 FSP -1427 SG1 4991.3 SG2 575.5 THA 95.05 EL1 1588.5 EL2 453.5 ALF 87.62

LAUNCH DATE SEP 22 1965 FLIGHT TIME 174.00 ARRIVAL DATE MAR 15 1966

HELIOCENTRIC CONIC DISTANCE 468.908

RL 150.15 LAL -.00 LOL 358.78 VL 27.342 GAL 4.17 AZL 96.56 HCA 204.54 SMA 130.09 ECC .17015 INC 6.5563 V1 29.676
RP 107.98 LAP 2.72 LOP 203.18 VP 37.920 GAP .49 AZP 84.03 TAL 158.85 TAP 3.39 RCA 107.95 APO 152.22 V2 35.095
RC 76.070 GL -41.06 GP 65.03 ZAL 58.54 ZAP 90.99 ETS 355.95 ZAE 120.03 ETE 105.80 ZAC 53.67 ETC 232.77 CLP -92.34

PLANETOCENTRIC CONIC

C3 22.475 VHL 4.741 DLA -55.44 RAL 334.06 RAD 6567.9 VEL 11.994 PTH 2.14 VHP 5.822 DPA 40.95 RAP 285.48 ECC 1.3693

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
40.12	11 1 7	1725.92	34.30	42.43	216.02	136.63	11 29 53	1125.9	39.91	35.69
139.88	20 5 24	5402.98	34.31	250.63	216.03	136.62	21 35 27	4803.0	39.92	243.89
40.12	11 1 7	1725.92	34.30	42.43	216.02	136.63	11 29 53	1125.9	39.91	35.69
139.88	20 5 24	5402.98	34.31	250.63	216.03	136.62	21 35 27	4803.0	39.92	243.89
40.12	11 1 7	1725.92	34.30	42.43	216.02	136.63	11 29 53	1125.9	39.91	35.69
139.88	20 5 24	5402.98	34.31	250.63	216.03	136.62	21 35 27	4803.0	39.92	243.89

DIFFERENTIAL CORRECTIONS

TDE -.2740 TRA .4912 TC3 -.6042 BAU .3895
RDE -.4641 RRA-2.2049 RC3 1.1468 FAU .04381
FDE .8434 FRA 2.7159 FC3-1.6874 BSP 15744
BDE .5390 BRA 2.2590 BC3 1.2962 FSP -1716

MID-COURSE EXECUTION ACCURACY

SGT 1238.2 SGR 4853.8 SG3 526.1
RRT -.8906 RRF -.9978 RTF .8799
SGB 5009.2 R23 .0445 R13 -.9969
SG1 4979.1 SG2 548.8 THA 102.96

ORBIT DETERMINATION ACCURACY

ST 456.7 SR 1517.0 SS 1012.8
CRT -.3712 CRS .9884 CST -.2264
LSA 1826.0 MSA 448.5 SSA 5.9
EL1 1527.2 EL2 421.2 ALF 96.90

LAUNCH DATE SEP 22 1965 FLIGHT TIME 176.00 ARRIVAL DATE MAR 17 1966

HELIOCENTRIC CONIC DISTANCE 475.232

RL 150.15 LAL -.00 LOL 358.78 VL 27.344 GAL 4.23 AZL 95.59 HCA 207.73 SMA 130.10 ECC .17045 INC 5.5946 V1 29.676
RP 108.02 LAP 2.60 LOP 206.40 VP 37.909 GAP .92 AZP 85.04 TAL 158.61 TAP 6.34 RCA 107.92 APO 152.27 V2 35.082
RC 78.316 GL -36.77 GP 61.49 ZAL 55.75 ZAP 94.07 ETS 1.80 ZAE 122.16 ETE 112.26 ZAC 49.94 ETC 235.40 CLP -98.55

PLANETOCENTRIC CONIC

C3 19.727 VHL 4.442 DLA -51.32 RAL 331.75 RAD 6567.8 VEL 11.879 PTH 2.11 VHP 5.359 DPA 37.28 RAP 284.26 ECC 1.3247

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
45.23	11 6 53	1661.65	33.71	34.68	209.45	131.30	11 34 35	1061.7	38.75	27.40
134.77	19 41 11	5404.62	33.72	250.13	209.47	131.29	21 11 16	4804.6	38.77	242.84
45.23	11 6 53	1661.65	33.71	34.68	209.45	131.30	11 34 35	1061.7	38.75	27.40
134.77	19 41 11	5404.62	33.72	250.13	209.47	131.29	21 11 16	4804.6	38.77	242.84
45.23	11 6 53	1661.65	33.71	34.68	209.45	131.30	11 34 35	1061.7	38.75	27.40
134.77	19 41 11	5404.62	33.72	250.13	209.47	131.29	21 11 16	4804.6	38.77	242.84

DIFFERENTIAL CORRECTIONS

TDE -.1776 TRA .7784 TC3 -.8800 BAU .4131
RDE -.4049 RRA-2.1777 RC3 1.2960 FAU .05148
FDE .9173 FRA 3.2183 FC3-2.2590 BSP 15637
BDE .4422 BRA 2.3127 BC3 1.5665 FSP -1986

MID-COURSE EXECUTION ACCURACY

SGT 1801.5 SGR 4669.7 SG3 608.2
RRT -.9514 RRF -.9975 RTF .9440
SGB 5005.1 R23 .0550 R13 -.9961
SG1 4978.0 SG2 520.6 THA 110.39

ORBIT DETERMINATION ACCURACY

ST 534.2 SR 1446.6 SS 1073.6
CRT -.6874 CRS .9862 CST -.5579
LSA 1830.1 MSA 425.9 SSA 6.7
EL1 1495.8 EL2 375.3 ALF 105.22

LAUNCH DATE SEP 22 1965 FLIGHT TIME 178.00 ARRIVAL DATE MAR 19 1966

HELIOCENTRIC CONIC DISTANCE 481.539

RL 150.15 LAL -.00 LOL 358.78 VL 27.343 GAL 4.29 AZL 94.82 HCA 210.92 SMA 130.10 ECC .17096 INC 4.8178 V1 29.676
RP 108.06 LAP 2.47 LOP 209.62 VP 37.897 GAP 1.35 AZP 85.86 TAL 158.33 TAP 9.25 RCA 107.86 APO 152.34 V2 35.069
RC 80.581 GL -32.76 GP 58.03 ZAL 53.27 ZAP 97.53 ETS 6.86 ZAE 123.84 ETE 118.48 ZAC 46.27 ETC 237.55 CLP-104.32

PLANETOCENTRIC CONIC

C3 17.908 VHL 4.232 DLA -47.45 RAL 329.96 RAD 6567.7 VEL 11.802 PTH 2.09 VHP 5.025 DPA 33.72 RAP 283.03 ECC 1.2947

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
50.19	11 16 3	1599.74	32.51	27.32	204.13	126.68	11 42 43	999.7	37.04	19.70
129.81	19 17 43	5421.00	32.53	250.62	204.14	126.67	20 48 4	4821.0	37.05	243.00
50.19	11 16 3	1599.74	32.51	27.32	204.13	126.68	11 42 43	999.7	37.04	19.70
129.81	19 17 43	5421.00	32.53	250.62	204.14	126.67	20 48 4	4821.0	37.05	243.00
50.19	11 16 3	1599.74	32.51	27.32	204.13	126.68	11 42 43	999.7	37.04	19.70
129.81	19 17 43	5421.00	32.53	250.62	204.14	126.67	20 48 4	4821.0	37.05	243.00

DIFFERENTIAL CORRECTIONS

TDE -.0892 TRA 1.0559 TC3-1.1768 BAU .4351
RDE -.3704 RRA-2.1173 RC3 1.3848 FAU .05825
FDE 1.0213 FRA 3.6874 FC3-2.8160 BSP 15629
BDE .3810 BRA 2.3660 BC3 1.8173 FSP -2239

MID-COURSE EXECUTION ACCURACY

SGT 2340.0 SGR 4426.8 SG3 680.9
RRT -.9720 RRF -.9971 RTF .9661
SGB 5007.2 R23 .0642 R13 -.9952
SG1 4983.3 SG2 488.6 THA 117.48

ORBIT DETERMINATION ACCURACY

ST 646.3 SR 1367.5 SS 1134.0
CRT -.8452 CRS .9834 CST -.7344
LSA 1847.3 MSA 401.3 SSA 7.5
EL1 1478.4 EL2 319.5 ALF 112.90

LAUNCH DATE SEP 22 1965 FLIGHT TIME 180.00 ARRIVAL DATE MAR 21 1966

HELIOCENTRIC CONIC DISTANCE 487.825

RL 150.15 LAL -.00 LOL 358.78 VL 27.341 GAL 4.37 AZL 94.17 HCA 214.12 SMA 130.08 ECC .17168 INC 4.1738 V1 29.676
RP 108.10 LAP 2.34 LOP 212.83 VP 37.883 GAP 1.77 AZP 86.54 TAL 158.01 TAP 12.13 RCA 107.75 APO 152.41 V2 35.056
RC 82.862 GL -29.05 GP 54.63 ZAL 51.05 ZAP 101.25 ETS 11.24 ZAE 125.10 ETE 124.46 ZAC 42.70 ETC 239.24 CLP-109.71

PLANETOCENTRIC CONIC

C3 16.698 VHL 4.086 DLA -43.82 RAL 328.56 RAD 6567.7 VEL 11.751 PTH 2.07 VHP 4.786 DPA 30.26 RAP 281.85 ECC 1.2748

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
55.04	11 28 28	1537.25	30.95	20.22	199.88	122.73	11 54 5	937.3	35.01	12.42
124.96	18 54 9	5451.16	30.96	252.15	199.89	122.72	20 25 0	4851.2	35.02	244.35
55.04	11 28 28	1537.25	30.95	20.22	199.88	122.73	11 54 5	937.3	35.01	12.42
124.96	18 54 9	5451.16	30.96	252.15	199.89	122.72	20 25 0	4851.2	35.02	244.35
55.04	11 28 28	1537.25	30.95	20.22	199.88	122.73	11 54 5	937.3	35.01	12.42
124.96	18 54 9	5451.16	30.96	252.15	199.89	122.72	20 25 0	4851.2	35.02	244.35

DIFFERENTIAL CORRECTIONS

TDE -.0013 TRA 1.3230 TC3-1.4769 BAU .4564
RDE -.3492 RRA-2.0343 RC3 1.4140 FAU .06380
FDE 1.1474 FRA 4.1054 FC3-3.3079 BSP 15693
BDE .3492 BRA 2.4266 BC3 2.0446 FSP -2460

MID-COURSE EXECUTION ACCURACY

SGT 2840.3 SGR 4147.9 SG3 741.0
RRT -.9811 RRF -.9967 RTF .9759
SGB 5027.2 R23 .0712 R13 -.9942
SG1 5006.5 SG2 455.4 THA 124.22

ORBIT DETERMINATION ACCURACY

ST 772.2 SR 1283.6 SS 1193.2
CRT -.9233 CRS .9800 CST -.8287
LSA 1877.4 MSA 377.9 SSA 8.3
EL1 1475.6 EL2 258.0 ALF 120.06

LAUNCH DATE SEP 22 1965 FLIGHT TIME 182.00 ARRIVAL DATE MAR 23 1966

DISTANCE 494.090

HELIOCENTRIC CONIC

RL 150.15 LAL -.00 LOL 358.78 VL 27.337 GAL 4.47 AZL 93.63 HCA 217.31 SMA 130.05 ECC .17262 INC 3.6282 V1 29.676
RP 108.14 LAP 2.20 LOP 216.04 VP 37.868 GAP 2.19 AZP 87.11 TAL 157.65 TAP 14.96 RCA 107.60 APO 152.50 V2 35.043
RC 85.157 GL -25.62 GP 51.31 ZAL 49.08 ZAP 105.15 ETS 15.00 ZAE 125.95 ETE 130.14 ZAC 39.23 ETC 240.45 CLP-114.72

PLANETOCENTRIC CONIC

C3 15.915 VHL 3.989 DLA -40.44 RAL 327.47 RAD 6567.6 VEL 11.717 PTH 2.06 VHP 4.624 DPA 26.90 RAP 280.77 ECC 1.2619

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
59.82	11 44 17	1471.20	29.17	13.20	196.55	119.36	12 8 48	871.2	32.83	5.32
120.18	18 29 39	5495.27	29.18	254.78	196.56	119.35	20 1 14	4895.3	32.84	246.89
59.82	11 44 17	1471.20	29.17	13.20	196.55	119.36	12 8 48	871.2	32.83	5.32
120.18	18 29 39	5495.27	29.18	254.78	196.56	119.35	20 1 14	4895.3	32.84	246.89
59.82	11 44 17	1471.20	29.17	13.20	196.55	119.36	12 8 48	871.2	32.83	5.32
120.18	18 29 39	5495.27	29.18	254.78	196.56	119.35	20 1 14	4895.3	32.84	246.89

DIFFERENTIAL CORRECTIONS

TDE .0898 TRA 1.5796 TC3-1.7626 BAU .4772
RDE -.3331 RRA-1.9367 RC3 1.3871 FAU .06775
FDE 1.2840 FRA 4.4580 FC3-3.6855 BSP 15797
BDE .3450 BRA 2.4992 BC3 2.2429 FSP -2631

MID-COURSE EXECUTION ACCURACY

SGT 3298.7 SGR 3848.6 SG3 786.3
RRT -.9857 RRF -.9960 RTF .9811
SGB 5068.8 R23 .0751 R13 -.9932
SG1 5051.1 SG2 423.7 THA 130.54

ORBIT DETERMINATION ACCURACY

ST 904.6 SR 1196.8 SS 1249.4
CRT -.9641 CRS .9760 CST -.8834
LSA 1919.4 MSA 356.7 SSA 9.2
EL1 1487.7 EL2 193.2 ALF 126.80

LAUNCH DATE SEP 22 1965 FLIGHT TIME 184.00 ARRIVAL DATE MAR 25 1966

DISTANCE 500.333

HELIOCENTRIC CONIC

RL 150.15 LAL -.00 LOL 358.78 VL 27.331 GAL 4.57 AZL 93.16 HCA 220.50 SMA 130.01 ECC .17377 INC 3.1575 V1 29.676
RP 108.18 LAP 2.05 LOP 219.24 VP 37.852 GAP 2.60 AZP 87.60 TAL 157.26 TAP 17.76 RCA 107.42 APO 152.60 V2 35.030
RC 87.465 GL -22.45 GP 48.08 ZAL 47.33 ZAP 109.13 ETS 18.19 ZAE 126.43 ETE 135.45 ZAC 35.90 ETC 241.15 CLP-119.38

PLANETOCENTRIC CONIC

C3 15.443 VHL 3.930 DLA -37.30 RAL 326.63 RAD 6567.6 VEL 11.697 PTH 2.06 VHP 4.524 DPA 23.64 RAP 279.82 ECC 1.2541

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
64.64	12 4 5	1397.93	27.29	5.97	193.98	116.48	12 27 23	797.9	30.61	358.07
115.36	18 3 7	5554.93	27.30	258.61	193.99	116.47	19 35 42	4954.9	30.62	250.70
64.64	12 4 5	1397.93	27.29	5.97	193.98	116.48	12 27 23	797.9	30.61	358.07
115.36	18 3 7	5554.93	27.30	258.61	193.99	116.47	19 35 42	4954.9	30.62	250.70
64.64	12 4 5	1397.93	27.29	5.97	193.98	116.48	12 27 23	797.9	30.61	358.07
115.36	18 3 7	5554.93	27.30	258.61	193.99	116.47	19 35 42	4954.9	30.62	250.70

DIFFERENTIAL CORRECTIONS

TDE .1849 TRA 1.8252 TC3-2.0223 BAU .4985
RDE -.3171 RRA-1.8297 RC3 1.3195 FAU .07014
FDE 1.4188 FRA 4.7326 FC3-3.9324 BSP 15990
BDE .3671 BRA 2.5845 BC3 2.4146 FSP -2754

MID-COURSE EXECUTION ACCURACY

SGT 3713.6 SGR 3540.6 SG3 815.4
RRT -.9881 RRF -.9951 RTF .9840
SGB 5131.0 R23 .0753 R13 -.9922
SG1 5115.8 SG2 395.0 THA 136.38

ORBIT DETERMINATION ACCURACY

ST 1040.3 SR 1107.7 SS 1299.8
CRT -.9857 CRS .9711 CST -.9174
LSA 1970.8 MSA 338.4 SSA 10.0
EL1 1514.2 EL2 128.1 ALF 133.18

LAUNCH DATE SEP 22 1965 FLIGHT TIME 186.00 ARRIVAL DATE MAR 27 1966

DISTANCE 506.553

HELIOCENTRIC CONIC

RL 150.15 LAL -.00 LOL 358.78 VL 27.324 GAL 4.70 AZL 92.74 HCA 223.70 SMA 129.96 ECC .17513 INC 2.7447 V1 29.676
RP 108.22 LAP 1.90 LOP 222.45 VP 37.834 GAP 3.02 AZP 88.01 TAL 156.83 TAP 20.52 RCA 107.20 APO 152.72 V2 35.016
RC 89.783 GL -19.53 GP 44.97 ZAL 45.76 ZAP 113.10 ETS 20.89 ZAE 126.59 ETE 140.33 ZAC 32.76 ETC 241.29 CLP-123.69

PLANETOCENTRIC CONIC

C3 15.211 VHL 3.900 DLA -34.38 RAL 325.98 RAD 6567.6 VEL 11.687 PTH 2.06 VHP 4.474 DPA 20.53 RAP 279.05 ECC 1.2503

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
69.64	12 29 12	1311.83	25.39	358.11	192.05	114.00	12 51 4	711.8	28.40	350.21
110.36	17 32 52	5634.21	25.40	263.93	192.06	113.99	19 6 46	5034.2	28.41	256.04
69.64	12 29 12	1311.83	25.39	358.11	192.05	114.00	12 51 4	711.8	28.40	350.21
110.36	17 32 52	5634.21	25.40	263.93	192.06	113.99	19 6 46	5034.2	28.41	256.04
69.64	12 29 12	1311.83	25.39	358.11	192.05	114.00	12 51 4	711.8	28.40	350.21
110.36	17 32 52	5634.21	25.40	263.93	192.06	113.99	19 6 46	5034.2	28.41	256.04

DIFFERENTIAL CORRECTIONS

TDE .2866 TRA 2.0633 TC3-2.2419 BAU .5187
RDE -.3017 RRA-1.7221 RC3 1.2170 FAU .07068
FDE 1.5510 FRA 4.9355 FC3-4.0225 BSP 16183
BDE .4161 BRA 2.6876 BC3 2.5510 FSP -2812

MID-COURSE EXECUTION ACCURACY

SGT 4089.6 SGR 3239.5 SG3 829.7
RRT -.9892 RRF -.9939 RTF .9857
SGB 5217.2 R23 .0722 R13 -.9914
SG1 5203.8 SG2 372.9 THA 141.69

ORBIT DETERMINATION ACCURACY

ST 1180.7 SR 1021.2 SS 1347.2
CRT -.9963 CRS .9654 CST -.9400
LSA 2036.5 MSA 323.2 SSA 10.7
EL1 1559.7 EL2 66.2 ALF 139.16

LAUNCH DATE SEP 22 1965 FLIGHT TIME 188.00 ARRIVAL DATE MAR 29 1966

DISTANCE 512.748

HELIOCENTRIC CONIC

RL 150.15 LAL -.00 LOL 358.78 VL 27.315 GAL 4.83 AZL 92.38 HCA 226.89 SMA 129.90 ECC .17671 INC 2.3778 V1 29.676
RP 108.26 LAP 1.74 LOP 225.65 VP 37.815 GAP 3.43 AZP 88.37 TAL 156.36 TAP 23.24 RCA 106.95 APO 152.85 V2 35.003
RC 92.112 GL -16.85 GP 42.02 ZAL 44.34 ZAP 117.00 ETS 23.16 ZAE 126.47 ETE 144.75 ZAC 29.83 ETC 240.82 CLP-127.67

PLANETOCENTRIC CONIC

C3 15.172 VHL 3.895 DLA -31.67 RAL 325.51 RAD 6567.6 VEL 11.686 PTH 2.06 VHP 4.467 DPA 17.56 RAP 278.48 ECC 1.2497

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
75.19	13 2 51	1201.42	23.50	348.74	190.66	111.86	13 22 53	601.4	26.26	340.87
104.81	16 55 25	5743.49	23.52	271.46	190.66	111.85	18 31 9	5143.5	26.27	263.60
75.19	13 2 51	1201.42	23.50	348.74	190.66	111.86	13 22 53	601.4	26.26	340.87
104.81	16 55 25	5743.49	23.52	271.46	190.66	111.85	18 31 9	5143.5	26.27	263.60
110.00	15 50 3	658.88	15.59	304.94	186.51	120.81	16 1 2	58.9	19.56	298.07
110.00	19 7 24	5334.02	31.94	243.06	193.63	102.89	20 36 18	4734.0	33.38	234.13

DIFFERENTIAL CORRECTIONS

TDE .3900 TRA 2.2906 TC3-2.4267 BAU .5409
RDE -.2808 RRA-1.6133 RC3 1.1061 FAU .07020
FDE 1.6593 FRA 5.0563 FC3-4.0058 BSP 16520
BDE .4806 BRA 2.8017 BC3 2.6669 FSP -2837

MID-COURSE EXECUTION ACCURACY

SGT 4424.3 SGR 2947.4 SG3 829.0
RRT -.9895 RRF -.9923 RTF .9869
SGB 5316.2 R23 .0653 R13 -.9908
SG1 5304.3 SG2 354.8 THA 146.44

ORBIT DETERMINATION ACCURACY

ST 1320.2 SR 933.2 SS 1382.8
CRT -.9998 CRS .9580 CST -.9554
LSA 2104.5 MSA 310.8 SSA 11.4
EL1 1616.7 EL2 13.4 ALF 144.74

LAUNCH DATE SEP 22 1965 FLIGHT TIME 190.00 ARRIVAL DATE MAR 31 1966

HELIOCENTRIC CONIC DISTANCE 518.918

RL 150.15 LAL -.00 LOL 358.78 VL 27.305 GAL 4.99 AZL 92.05 HCA 230.08 SMA 129.83 ECC .17850 INC 2.0475 V1 29.676
RP 108.31 LAP 1.57 LOP 228.84 VP 37.796 GAP 3.85 AZP 88.69 TAL 155.85 TAP 25.93 RCA 106.65 APO 153.00 V2 34.990
RC 94.449 GL -14.39 GP 39.23 ZAL 43.07 ZAP 120.78 ETS 25.08 ZAE 126.13 ETE 148.69 ZAC 27.16 ETC 239.66 CLP-131.35

PLANETOCENTRIC CONIC

C3 15.297 VHL 3.911 DLA -29.15 RAL 325.17 RAD 6567.6 VEL 11.691 PTH 2.06 VHP 4.496 DPA 14.77 RAP 278.11 ECC 1.2517

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
82.76	13 57 55	1023.85	21.68	334.73	189.71	109.99	14 14 59	423.8	24.20	326.90
97.24	15 57 40	636.69	21.69	306.33	189.71	109.97	16 8 17	36.7	24.21	298.50
100.00	15 23 21	746.88	17.51	312.66	187.90	114.62	15 35 48	146.9	20.69	305.30
100.00	17 14 56	5676.93	25.98	267.39	191.21	105.33	18 49 33	5076.9	27.83	259.08
110.00	15 8 38	793.21	10.78	312.37	184.11	122.64	15 21 51	193.2	15.01	305.81
110.00	19 46 8	5203.37	33.50	233.20	192.93	97.25	21 12 52	4603.4	34.14	224.01

DIFFERENTIAL CORRECTIONS

TDE .4974 TRA 2.5109 TC3-2.5690 BAU .5629
RDE -.2576 RRA-1.5091 RC3 .9881 FAU .06852
FDE 1.7483 FRA 5.1105 FC3-3.8779 BSP 16898
BDE .5601 BRA 2.9295 BC3 2.7525 FSP -2817

MID-COURSE EXECUTION ACCURACY

SGT 4723.3 SGR 2673.6 SG3 816.2
RRT -.9891 RRF -.9903 RTF .9876
SGB 5427.5 R23 .0559 R13 -.9902
SG1 5416.6 SG2 343.3 THA 150.63

ORBIT DETERMINATION ACCURACY

ST 1459.9 SR 848.3 SS 1410.2
CRT -.9980 CRS .9486 CST -.9662
LSA 2179.2 MSA 301.0 SSA 12.0
EL1 1687.8 EL2 46.6 ALF 149.86

LAUNCH DATE SEP 22 1965 FLIGHT TIME 192.00 ARRIVAL DATE APR 2 1966

HELIOCENTRIC CONIC DISTANCE 525.062

RL 150.15 LAL -.00 LOL 358.78 VL 27.294 GAL 5.15 AZL 91.75 HCA 233.27 SMA 129.75 ECC .18052 INC 1.7468 V1 29.676
RP 108.35 LAP 1.40 LOP 232.04 VP 37.776 GAP 4.26 AZP 88.96 TAL 155.31 TAP 28.57 RCA 106.33 APO 153.17 V2 34.977
RC 96.794 GL -12.12 GP 36.62 ZAL 41.90 ZAP 124.40 ETS 26.71 ZAE 125.63 ETE 152.15 ZAC 24.77 ETC 237.74 CLP-134.75

PLANETOCENTRIC CONIC

C3 15.565 VHL 3.945 DLA -26.82 RAL 324.95 RAD 6567.6 VEL 11.703 PTH 2.06 VHP 4.556 DPA 12.17 RAP 277.94 ECC 1.2562

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	13 36 11	1098.35	14.17	336.92	186.77	114.77	13 54 30	498.3	17.40	329.73
90.00	16 17 40	5858.06	25.90	280.68	190.89	101.87	17 55 18	5258.1	27.28	272.28
100.00	14 24 53	941.04	11.66	324.10	185.50	117.72	14 40 34	341.0	15.28	317.18
100.00	18 11 39	5490.60	28.65	254.21	191.46	98.90	19 43 10	4890.6	29.59	245.53
110.00	14 39 24	895.50	6.97	317.84	182.68	123.55	14 54 19	295.5	11.34	311.47
110.00	20 13 38	5108.91	34.07	225.88	192.12	92.96	21 38 47	4508.9	34.10	216.64

DIFFERENTIAL CORRECTIONS

TDE .6084 TRA 2.7266 TC3-2.6697 BAU .5843
RDE -.2326 RRA-1.4121 RC3 .8705 FAU .06587
FDE 1.8175 FRA 5.1105 FC3-3.6636 BSP 17307
BDE .6513 BRA 3.0706 BC3 2.8080 FSP -2762

MID-COURSE EXECUTION ACCURACY

SGT 4990.5 SGR 2422.1 SG3 794.2
RRT -.9879 RRF -.9876 RTF .9880
SGB 5547.2 R23 .0455 R13 -.9898
SG1 5536.9 SG2 338.3 THA 154.28

ORBIT DETERMINATION ACCURACY

ST 1598.9 SR 768.0 SS 1430.1
CRT -.9914 CRS .9367 CST -.9741
LSA 2259.4 MSA 293.6 SSA 12.4
EL1 1771.4 EL2 90.5 ALF 154.46

LAUNCH DATE SEP 22 1965 FLIGHT TIME 194.00 ARRIVAL DATE APR 4 1966

HELIOCENTRIC CONIC DISTANCE 531.180

RL 150.15 LAL -.00 LOL 358.78 VL 27.281 GAL 5.34 AZL 91.47 HCA 236.45 SMA 129.66 ECC .18276 INC 1.4704 V1 29.676
RP 108.39 LAP 1.23 LOP 235.23 VP 37.755 GAP 4.68 AZP 89.19 TAL 154.73 TAP 31.18 RCA 105.97 APO 153.36 V2 34.964
RC 99.145 GL -10.05 GP 34.21 ZAL 40.84 ZAP 127.85 ETS 28.11 ZAE 125.02 ETE 155.16 ZAC 22.70 ETC 235.01 CLP-137.89

PLANETOCENTRIC CONIC

C3 15.965 VHL 3.996 DLA -24.65 RAL 324.84 RAD 6567.6 VEL 11.720 PTH 2.06 VHP 4.644 DPA 9.75 RAP 277.99 ECC 1.2627

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 50 26	1257.61	9.44	346.23	185.27	116.82	13 11 23	657.6	12.97	339.32
90.00	17 2 30	5710.29	27.54	270.18	191.01	96.86	18 37 40	5110.3	28.20	261.58
100.00	13 50 7	1064.90	7.65	331.11	184.31	118.99	14 7 52	464.9	11.46	324.39
100.00	18 45 30	5378.23	29.56	245.98	191.25	94.66	20 15 8	4778.2	29.89	237.19
110.00	14 16 37	981.77	3.70	322.38	181.88	124.01	14 32 59	381.8	8.14	316.11
110.00	20 35 29	5034.13	34.18	220.05	191.44	89.51	21 59 23	4434.1	33.73	210.83

DIFFERENTIAL CORRECTIONS

TDE .7224 TRA 2.9387 TC3-2.7316 BAU .6051
RDE -.2063 RRA-1.3230 RC3 .7592 FAU .06254
FDE 1.8669 FRA 5.0662 FC3-3.3913 BSP 17750
BDE .7513 BRA 3.2228 BC3 2.8352 FSP -2681

MID-COURSE EXECUTION ACCURACY

SGT 5228.5 SGR 2193.9 SG3 765.0
RRT -.9860 RRF -.9843 RTF .9882
SGB 5670.1 R23 .0352 R13 -.9894
SG1 5660.0 SG2 338.3 THA 157.44

ORBIT DETERMINATION ACCURACY

ST 1735.6 SR 692.8 SS 1442.3
CRT -.9803 CRS .9215 CST -.9799
LSA 2343.0 MSA 288.0 SSA 12.8
EL1 1864.4 EL2 127.5 ALF 158.52

LAUNCH DATE SEP 22 1965 FLIGHT TIME 196.00 ARRIVAL DATE APR 6 1966

HELIOCENTRIC CONIC DISTANCE 537.270

RL 150.15 LAL -.00 LOL 358.78 VL 27.267 GAL 5.54 AZL 91.21 HCA 239.64 SMA 129.57 ECC .18524 INC 1.2138 V1 29.676
RP 108.43 LAP 1.05 LOP 238.42 VP 37.733 GAP 5.10 AZP 89.39 TAL 154.12 TAP 33.76 RCA 105.57 APO 153.57 V2 34.951
RC 101.502 GL -8.14 GP 31.98 ZAL 39.85 ZAP 131.10 ETS 29.33 ZAE 124.35 ETE 157.77 ZAC 20.96 ETC 231.44 CLP-140.81

PLANETOCENTRIC CONIC

C3 16.490 VHL 4.061 DLA -22.64 RAL 324.81 RAD 6567.7 VEL 11.742 PTH 2.07 VHP 4.755 DPA 7.53 RAP 278.23 ECC 1.2714

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 19 41	1372.41	5.85	352.75	184.57	117.75	12 42 34	772.4	9.52	346.00
90.00	17 33 1	5610.25	28.14	262.93	190.99	93.27	19 6 31	5010.3	28.30	254.26
100.00	13 24 15	1164.02	4.34	336.61	183.74	119.60	13 43 39	564.0	8.25	330.00
100.00	19 11 8	5293.88	29.86	239.73	191.07	91.39	20 39 22	4693.9	29.74	230.93
110.00	13 58 5	1057.98	.80	326.37	181.53	124.18	14 15 43	458.0	5.27	320.14
110.00	20 53 48	4972.68	34.04	215.25	190.99	86.67	22 16 41	4372.7	33.20	206.11

DIFFERENTIAL CORRECTIONS

TDE .8428 TRA 3.1527 TC3-2.7504 BAU .6232
RDE -.1808 RRA-1.2439 RC3 .6527 FAU .05841
FDE 1.9051 FRA 4.9955 FC3-3.0663 BSP 18110
BDE .8620 BRA 3.3892 BC3 2.8268 FSP -2565

MID-COURSE EXECUTION ACCURACY

SGT 5443.8 SGR 1990.5 SG3 731.9
RRT -.9831 RRF -.9803 RTF .9882
SGB 5796.3 R23 .0267 R13 -.9890
SG1 5786.1 SG2 342.8 THA 160.16

ORBIT DETERMINATION ACCURACY

ST 1873.3 SR 625.1 SS 1451.3
CRT -.9643 CRS .9029 CST -.9843
LSA 2434.3 MSA 283.7 SSA 13.1
EL1 1968.6 EL2 157.5 ALF 162.04

LAUNCH DATE SEP 22 1965 FLIGHT TIME 198.00 ARRIVAL DATE APR 8 1966

HELIOCENTRIC CONIC DISTANCE 543.330

RL 150.15 LAL -.00 LOL 358.78 VL 27.253 GAL 5.76 AZL 90.97 HCA 242.82 SMA 129.47 ECC .18797 INC .9736 V1 29.676
RP 108.46 LAP .87 LOP 241.60 VP 37.711 GAP 5.52 AZP 89.56 TAL 153.48 TAP 36.30 RCA 105.13 APO 153.81 V2 34.939
RC 103.862 GL -6.39 GP 29.94 ZAL 38.94 ZAP 134.16 ETS 30.42 ZAE 123.63 ETE 160.02 ZAC 19.58 ETC 227.04 CLP-143.51

PLANETOCENTRIC CONIC

C3 17.138 VHL 4.140 DLA -20.78 RAL 324.86 RAD 6567.7 VEL 11.770 PTH 2.08 VHP 4.888 DPA 5.49 RAP 278.65 ECC 1.2821

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 56 3	1467.24	2.82	358.08	184.36	118.19	12 20 31	867.2	6.57	351.40
90.00	17 57 1	5533.14	28.31	257.29	191.05	90.45	19 29 14	4933.1	28.08	248.63
100.00	13 3 36	1249.25	1.46	341.30	183.61	119.86	13 24 25	649.3	5.43	334.75
100.00	19 32 9	5226.36	29.87	234.71	191.04	88.75	20 59 16	4626.4	29.37	225.94
110.00	13 42 34	1127.11	-1.85	329.97	181.54	124.14	14 1 21	527.1	2.64	323.77
110.00	21 9 41	4921.26	33.77	211.26	190.76	84.33	22 31 42	4321.3	32.61	202.22

DIFFERENTIAL CORRECTIONS
TDE .9628 TRA 3.3634 TC3-2.7455 BAU .6421
RDE -.1532 RRA-1.1716 RC3 .5616 FAU .05437
FDE 1.9204 FRA 4.8948 FC3-2.7464 BSP 18563
BDE .9750 BRA 3.5616 BC3 2.8023 FSP -2453

MID-COURSE EXECUTION ACCURACY
SGT 5633.0 SGR 1807.9 SG3 695.1
RRT -.9793 RRF -.9753 RTF .9882
SGB 5916.0 R23 .0188 R13 -.9887
SG1 5905.7 SG2 348.8 THA 162.49

ORBIT DETERMINATION ACCURACY
ST 2002.8 SR 562.0 SS 1450.3
CRT -.9423 CRS .8785 CST -.9876
LSA 2520.2 MSA 280.5 SSA 13.3
EL1 2072.2 EL2 181.9 ALF 165.07

LAUNCH DATE SEP 22 1965 FLIGHT TIME 200.00 ARRIVAL DATE APR 10 1966

HELIOCENTRIC CONIC DISTANCE 549.360

RL 150.15 LAL -.00 LOL 358.78 VL 27.237 GAL 6.00 AZL 90.75 HCA 246.00 SMA 129.36 ECC .19095 INC .7468 V1 29.676
RP 108.50 LAP .68 LOP 244.78 VP 37.688 GAP 5.95 AZP 89.70 TAL 152.81 TAP 38.81 RCA 104.66 APO 154.06 V2 34.926
RC 106.225 GL -4.79 GP 28.08 ZAL 38.08 ZAP 137.03 ETS 31.43 ZAE 122.91 ETE 161.94 ZAC 18.59 ETC 221.94 CLP-146.03

PLANETOCENTRIC CONIC

C3 17.910 VHL 4.232 DLA -19.04 RAL 324.97 RAD 6567.7 VEL 11.802 PTH 2.09 VHP 5.040 DPA 3.64 RAP 279.25 ECC 1.2948

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 36 52	1550.05	.15	2.70	184.52	118.32	12 2 42	950.0	3.94	356.06
90.00	18 17 6	5470.76	28.26	252.73	191.26	88.17	19 48 17	4870.8	27.71	244.11
100.00	12 46 31	1325.32	-1.12	345.47	183.81	119.87	13 8 36	725.3	2.87	338.95
100.00	19 50 9	5170.72	29.71	230.58	191.19	86.58	21 16 20	4570.7	28.92	221.87
110.00	13 29 24	1190.93	-4.28	333.31	181.84	123.95	13 49 15	590.9	.21	327.10
110.00	21 23 45	4877.88	33.42	207.92	190.77	82.38	22 45 3	4277.9	32.01	198.98

DIFFERENTIAL CORRECTIONS
TDE 1.0864 TRA 3.5764 TC3-2.7117 BAU .6594
RDE -.1260 RRA-1.1076 RC3 .4808 FAU .05017
FDE 1.9238 FRA 4.7804 FC3-2.4249 BSP 18994
BDE 1.0937 BRA 3.7440 BC3 2.7539 FSP -2332

MID-COURSE EXECUTION ACCURACY
SGT 5802.4 SGR 1646.6 SG3 657.3
RRT -.9745 RRF -.9692 RTF .9880
SGB 6031.5 R23 .0124 R13 -.9883
SG1 6021.0 SG2 356.1 THA 164.49

ORBIT DETERMINATION ACCURACY
ST 2128.2 SR 505.7 SS 1444.6
CRT -.9134 CRS .8479 CST -.9902
LSA 2606.6 MSA 278.0 SSA 13.4
EL1 2178.2 EL2 201.2 ALF 167.65

LAUNCH DATE SEP 22 1965 FLIGHT TIME 202.00 ARRIVAL DATE APR 12 1966

HELIOCENTRIC CONIC DISTANCE 555.357

RL 150.15 LAL -.00 LOL 358.78 VL 27.221 GAL 6.26 AZL 90.53 HCA 249.18 SMA 129.25 ECC .19420 INC .5312 V1 29.676
RP 108.54 LAP .50 LOP 247.96 VP 37.665 GAP 6.38 AZP 89.81 TAL 152.11 TAP 41.29 RCA 104.35 APO 154.35 V2 34.914
RC 108.588 GL -3.32 GP 26.39 ZAL 37.27 ZAP 139.72 ETS 32.39 ZAE 122.19 ETE 163.59 ZAC 17.98 ETC 216.34 CLP-148.39

PLANETOCENTRIC CONIC

C3 18.810 VHL 4.337 DLA -17.43 RAL 325.14 RAD 6567.8 VEL 11.840 PTH 2.10 VHP 5.210 DPA 1.95 RAP 280.02 ECC 1.3096

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 20 49	1624.61	-2.25	6.86	184.97	118.23	11 47 54	1024.6	1.54	.23
90.00	18 34 30	5419.16	28.09	248.97	191.65	86.29	20 4 49	4819.2	27.28	240.39
100.00	12 32 3	1394.77	-3.47	349.29	184.29	119.71	12 55 18	794.8	.51	342.76
100.00	20 5 57	5124.24	29.48	227.15	191.52	84.79	21 31 22	4524.2	28.44	218.50
110.00	13 18 5	1250.58	-6.54	336.45	182.39	123.63	13 38 55	650.6	-2.08	330.21
110.00	21 36 25	4841.19	33.06	205.12	190.99	80.76	22 57 7	4241.2	31.43	196.27

DIFFERENTIAL CORRECTIONS
TDE 1.2132 TRA 3.7926 TC3-2.6543 BAU .6754
RDE -.0992 RRA-1.0512 RC3 .4104 FAU .04595
FDE 1.9173 FRA 4.6577 FC3-2.1149 BSP 19417
BDE 1.2173 BRA 3.9356 BC3 2.6858 FSP -2208

MID-COURSE EXECUTION ACCURACY
SGT 5953.7 SGR 1504.2 SG3 619.3
RRT -.9685 RRF -.9621 RTF .9878
SGB 6140.8 R23 .0074 R13 -.9880
SG1 6130.0 SG2 363.8 THA 166.20

ORBIT DETERMINATION ACCURACY
ST 2248.5 SR 456.0 SS 1434.9
CRT -.8765 CRS .8099 CST -.9922
LSA 2691.9 MSA 276.0 SSA 13.5
EL1 2284.0 EL2 216.2 ALF 169.83

LAUNCH DATE SEP 22 1965 FLIGHT TIME 204.00 ARRIVAL DATE APR 14 1966

HELIOCENTRIC CONIC DISTANCE 561.321

RL 150.15 LAL -.00 LOL 358.78 VL 27.204 GAL 6.54 AZL 90.32 HCA 252.36 SMA 129.13 ECC .19774 INC .3246 V1 29.676
RP 108.58 LAP .31 LOP 251.14 VP 37.642 GAP 6.82 AZP 89.90 TAL 151.39 TAP 43.75 RCA 103.60 APO 154.67 V2 34.903
RC 110.951 GL -1.97 GP 24.85 ZAL 36.50 ZAP 142.23 ETS 33.33 ZAE 121.50 ETE 165.01 ZAC 17.77 ETC 210.53 CLP-150.59

PLANETOCENTRIC CONIC

C3 19.845 VHL 4.455 DLA -15.93 RAL 325.36 RAD 6567.8 VEL 11.884 PTH 2.11 VHP 5.397 DPA .43 RAP 280.93 ECC 1.3266

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 7 9	1693.08	-4.45	10.69	185.66	117.99	11 35 22	1093.1	-.67	4.05
90.00	18 49 55	5376.03	27.86	245.83	192.19	84.73	20 19 31	4776.0	26.84	237.31
100.00	12 19 39	1459.15	-5.63	352.84	185.01	119.41	12 43 58	859.2	-1.67	346.29
100.00	20 20 6	5085.18	29.20	224.28	192.03	83.30	21 44 51	4485.2	27.96	215.69
110.00	13 8 16	1306.87	-8.65	339.44	183.16	123.20	13 30 3	706.9	-4.22	333.15
110.00	21 47 59	4810.24	32.69	202.78	191.42	79.42	23 8 9	4210.2	30.89	194.02

DIFFERENTIAL CORRECTIONS
TDE 1.3436 TRA 4.0137 TC3-2.5758 BAU .6897
RDE -.0730 RRA-1.0018 RC3 .3493 FAU .04178
FDE 1.9033 FRA 4.5322 FC3-1.8227 BSP 19811
BDE 1.3456 BRA 4.1369 BC3 2.5994 FSP -2083

MID-COURSE EXECUTION ACCURACY
SGT 6088.9 SGR 1378.9 SG3 582.0
RRT -.9612 RRF -.9537 RTF .9874
SGB 6243.1 R23 .0036 R13 -.9876
SG1 6232.0 SG2 371.4 THA 167.68

ORBIT DETERMINATION ACCURACY
ST 2363.3 SR 412.9 SS 1422.1
CRT -.8305 CRS .7634 CST -.9937
LSA 2775.4 MSA 274.2 SSA 13.5
EL1 2388.3 EL2 227.6 ALF 171.67

LAUNCH DATE SEP 22 1965 FLIGHT TIME 206.00 ARRIVAL DATE APR 16 1966

HELIOCENTRIC CONIC DISTANCE 567,249

RL 150.15 LAL -.00 LOL 358.78 VL 27.186 GAL 6.84 AZL 90.13 HCA 255.54 SMA 129.01 ECC .20158 INC .1245 V1 29.676
RP 108.61 LAP .12 LOP 254.32 VP 37.619 GAP 7.27 AZP 89.97 TAL 150.64 TAP 46.18 RCA 103.01 APO 155.02 V2 34.892
RC 113.313 GL -.74 GP 23.45 ZAL 35.76 ZAP 144.59 ETS 34.29 ZAE 120.83 ETE 166.22 ZAC 17.91 ETC 204.80 CLP-152.67

PLANETOCENTRIC CONIC

C3 21.024 VHL 4.585 DLA -14.54 RAL 325.62 RAD 6567.9 VEL 11.933 PTH 2.12 VHP 5.600 DPA -.94 RAP 281.97 ECC 1.3460

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 55 22	1756.83	-6.48	14.28	186.56	117.63	11 24 39	1156.8	-2.73	7.60
90.00	19 3 47	5339.86	27.61	243.21	192.90	83.44	20 32 47	4739.9	26.41	234.75
100.00	12 8 55	1519.53	-7.64	356.20	185.93	118.99	12 34 14	919.5	-3.71	349.61
100.00	20 32 56	5052.39	28.92	221.88	192.72	82.07	21 57 8	4452.4	27.52	213.36
110.00	12 59 43	1360.38	-10.63	342.32	184.12	122.68	13 22 24	760.4	-6.25	335.97
110.00	21 58 36	4784.30	32.35	200.83	192.03	78.31	23 18 21	4184.3	30.41	192.16

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE 1.4810 TRA 4.2440 TC3-2.4751 BAU .7006 SGT 6212.3 SGR 1269.1 SG3 546.4 ST 2476.1 SR 376.5 SS 1409.3
RDE -.0484 RRA -.9593 RC3 .2953 FAU .03755 RRT -.9527 RRF -.9442 RTF .9870 CRT -.7757 CRS .7091 CST -.9950
FDE 1.8880 FRA 4.4109 FC3-1.5461 BSP 20109 SGB 6340.6 R23 .0009 R13 -.9871 LSA 2860.9 MSA 272.3 SSA 13.6
BDE 1.4818 BRA 4.3510 BC3 2.4926 FSP -1951 SG1 6329.3 SG2 378.5 THA 168.95 EL1 2493.4 EL2 236.0 ALF 173.21

LAUNCH DATE SEP 22 1965 FLIGHT TIME 208.00 ARRIVAL DATE APR 18 1966

HELIOCENTRIC CONIC DISTANCE 573.137

RL 150.15 LAL -.00 LOL 358.78 VL 27.168 GAL 7.16 AZL 89.93 HCA 258.71 SMA 128.89 ECC .20574 INC .0664 V1 29.676
RP 108.64 LAP -.07 LOP 257.49 VP 37.596 GAP 7.73 AZP 90.01 TAL 149.87 TAP 48.58 RCA 102.37 APO 155.40 V2 34.881
RC 115.673 GL .39 GP 22.18 ZAL 35.06 ZAP 146.79 ETS 35.28 ZAE 120.20 ETE 167.26 ZAC 18.38 ETC 199.42 CLP-154.63

PLANETOCENTRIC CONIC

C3 22.359 VHL 4.729 DLA -13.25 RAL 325.91 RAD 6567.9 VEL 11.989 PTH 2.14 VHP 5.818 DPA -2.17 RAP 283.14 ECC 1.3680

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 45 7	1816.79	-8.35	17.68	187.64	117.15	11 15 23	1216.8	-4.65	10.96
90.00	19 16 25	5309.61	27.35	241.04	193.77	82.38	20 44 55	4709.6	26.02	232.63
100.00	11 59 33	1576.63	-9.50	359.41	187.03	118.47	12 25 49	976.6	-5.63	352.77
100.00	20 44 40	5025.00	28.64	219.89	193.56	81.05	22 8 25	4425.0	27.11	211.42
110.00	12 52 15	1411.55	-12.50	345.11	185.25	122.08	13 15 47	811.6	-8.17	338.68
110.00	22 8 27	4762.84	32.05	199.23	192.81	77.41	23 27 50	4162.8	29.98	190.63

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE 1.6188 TRA 4.4781 TC3-2.3676 BAU .7117 SGT 6319.5 SGR 1171.5 SG3 512.0 ST 2578.5 SR 345.3 SS 1391.6
RDE -.0234 RRA -.9213 RC3 .2508 FAU .03372 RRT -.9428 RRF -.9333 RTF .9867 CRT -.7093 CRS .6437 CST -.9960
FDE 1.8634 FRA 4.2880 FC3-1.3056 BSP 20470 SGB 6427.1 R23 -.0014 R13 -.9867 LSA 2937.9 MSA 270.5 SSA 13.5
BDE 1.6190 BRA 4.5719 BC3 2.3609 FSP -1834 SG1 6415.6 SG2 384.6 THA 170.05 EL1 2590.2 EL2 242.3 ALF 174.53

LAUNCH DATE SEP 22 1965 FLIGHT TIME 210.00 ARRIVAL DATE APR 20 1966

HELIOCENTRIC CONIC DISTANCE 578.984

RL 150.15 LAL -.00 LOL 358.78 VL 27.149 GAL 7.51 AZL 89.74 HCA 261.88 SMA 128.76 ECC .21025 INC .2564 V1 29.676
RP 108.68 LAP -.25 LOP 260.66 VP 37.572 GAP 8.21 AZP 90.04 TAL 149.08 TAP 50.97 RCA 101.69 APO 155.83 V2 34.870
RC 118.029 GL 1.42 GP 21.03 ZAL 34.38 ZAP 148.86 ETS 36.33 ZAE 119.60 ETE 168.16 ZAC 19.14 ETC 194.57 CLP-156.48

PLANETOCENTRIC CONIC

C3 23.865 VHL 4.885 DLA -12.05 RAL 326.24 RAD 6568.0 VEL 12.052 PTH 2.15 VHP 6.052 DPA -3.26 RAP 284.42 ECC 1.3928

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 36 8	1873.64	-10.10	20.94	188.89	116.59	11 7 22	1273.6	-6.45	14.16
90.00	19 28 1	5284.53	27.11	239.24	194.77	81.51	20 56 5	4684.5	25.66	230.87
100.00	11 51 20	1631.02	-11.25	2.50	188.29	117.88	12 18 31	1031.0	-7.44	355.79
100.00	20 55 30	5002.38	28.39	218.26	194.54	80.23	22 18 52	4402.4	26.75	209.84
110.00	12 45 42	1460.75	-14.26	347.83	186.53	121.40	13 10 3	860.8	-10.00	341.32
110.00	22 17 37	4745.42	31.78	197.94	193.74	76.69	23 36 43	4145.4	29.62	189.40

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE 1.7610 TRA 4.7212 TC3-2.2492 BAU .7208 SGT 6415.0 SGR 1085.2 SG3 479.4 ST 2675.0 SR 319.6 SS 1372.8
RDE .0008 RRA -.8881 RC3 .2128 FAU .03007 RRT -.9316 RRF -.9211 RTF .9863 CRT -.6330 CRS .5692 CST -.9967
FDE 1.8365 FRA 4.1706 FC3-1.0907 BSP 20800 SGB 6506.1 R23 -.0031 R13 -.9863 LSA 3011.6 MSA 268.6 SSA 13.5
BDE 1.7610 BRA 4.8040 BC3 2.2592 FSP -1722 SG1 6494.5 SG2 389.7 THA 171.01 EL1 2682.7 EL2 246.7 ALF 175.64

LAUNCH DATE SEP 22 1965 FLIGHT TIME 212.00 ARRIVAL DATE APR 22 1966

HELIOCENTRIC CONIC DISTANCE 584.785

RL 150.15 LAL -.00 LOL 358.78 VL 27.129 GAL 7.88 AZL 89.56 HCA 265.05 SMA 128.62 ECC .21513 INC .4429 V1 29.676
RP 108.71 LAP -.44 LOP 263.84 VP 37.549 GAP 8.69 AZP 90.04 TAL 148.28 TAP 53.33 RCA 100.95 APO 156.30 V2 34.860
RC 120.382 GL 2.36 GP 19.99 ZAL 33.73 ZAP 150.79 ETS 37.47 ZAE 119.03 ETE 168.93 ZAC 20.13 ETC 190.32 CLP-158.25

PLANETOCENTRIC CONIC

C3 25.561 VHL 5.056 DLA -10.93 RAL 326.60 RAD 6568.0 VEL 12.122 PTH 2.17 VHP 6.303 DPA -4.23 RAP 285.80 ECC 1.4207

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 28 14	1927.90	-11.74	24.09	190.28	115.95	11 0 22	1327.9	-8.16	17.24
90.00	19 38 44	5264.02	26.90	237.78	195.91	80.81	21 6 28	4664.0	25.35	229.45
100.00	11 44 6	1683.13	-12.89	5.50	189.69	117.20	12 12 10	1083.1	-9.15	358.72
100.00	21 5 33	4984.03	28.17	216.94	195.66	79.57	22 28 37	4384.0	26.44	208.56
110.00	12 39 57	1508.26	-15.93	350.50	187.96	120.65	13 5 5	908.3	-11.74	343.90
110.00	22 26 12	4731.66	31.56	196.93	194.82	76.13	23 45 4	4131.7	29.33	188.43

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE 1.9086 TRA 4.9744 TC3-2.1218 BAU .7277 SGT 6499.7 SGR 1008.5 SG3 448.8 ST 2765.7 SR 298.8 SS 1353.6
RDE .0243 RRA -.8591 RC3 .1799 FAU .02657 RRT -.9190 RRF -.9077 RTF .9859 CRT -.5483 CRS .4872 CST -.9974
FDE 1.8088 FRA 4.0596 FC3 -.8999 BSP 21103 SGB 6577.4 R23 -.0043 R13 -.9859 LSA 3082.2 MSA 266.4 SSA 13.4
BDE 1.9087 BRA 5.0480 BC3 2.1294 FSP -1614 SG1 6565.7 SG2 393.6 THA 171.86 EL1 2770.6 EL2 249.4 ALF 176.58

LAUNCH DATE SEP 22 1965 FLIGHT TIME 214.00 ARRIVAL DATE APR 24 1966

HELIOCENTRIC CONIC DISTANCE 590.536

RL 150.15 LAL -.00 LOL 358.78 VL 27.109 GAL 8.28 AZL 89.37 HCA 268.22 SMA 128.49 ECC .22042 INC .6271 V1 29.676
RP 108.74 LAP -.63 LOP 267.00 VP 37.526 GAP 9.20 AZP 90.02 TAL 147.46 TAP 55.69 RCA 100.17 APO 156.81 V2 34.851
RC 122.731 GL 3.21 GP 19.04 ZAL 33.10 ZAP 152.61 ETS 38.72 ZAE 118.50 ETE 169.60 ZAC 21.31 ETC 186.69 CLP-159.94

PLANETOCENTRIC CONIC

C3 27.467 VHL 5.241 DLA -9.89 RAL 326.97 RAD 6568.1 VEL 12.200 PTH 2.19 VHP 6.570 DPA -5.09 RAP 287.27 ECC 1.4520

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 21 16	1979.97	-13.27	27.15	191.81	115.24	10 54 16	1380.0	-9.76	20.22
90.00	19 48 42	5247.63	26.72	236.61	197.18	80.25	21 16 9	4647.6	25.10	228.32
100.00	11 37 44	1733.29	-14.44	8.43	191.23	116.46	12 6 37	1133.3	-10.77	1.56
100.00	21 14 55	4969.54	27.99	215.90	196.91	79.05	22 37 44	4369.5	26.19	207.56
110.00	12 34 53	1554.32	-17.51	353.14	189.52	119.84	13 0 48	954.3	-13.41	346.43
110.00	22 34 15	4721.27	31.39	196.17	196.04	75.71	23 52 56	4121.3	29.11	187.71

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE 2.0651 TRA 5.2427 TC3-1.9834 BAU .7304 SGT 6577.8 SGR 940.3 SG3 420.5 ST 2854.4 SR 282.3 SS 1336.1
RDE .0466 RRA -.8340 RC3 .1510 FAU .02312 RRT -.9051 RRF -.8931 RTF .9855 CRT -.4589 CRS .4012 CST -.9979
FDE 1.7839 FRA 3.9587 FC3 -.7286 BSP 21287 SGB 6644.7 R23 -.0051 R13 -.9855 LSA 3153.2 MSA 263.7 SSA 13.3
BDE 2.0657 BRA 5.3086 BC3 1.9891 FSP -1505 SG1 6632.9 SG2 396.4 THA 172.60 EL1 2857.3 EL2 250.6 ALF 177.38

LAUNCH DATE SEP 22 1965 FLIGHT TIME 216.00 ARRIVAL DATE APR 26 1966

HELIOCENTRIC CONIC DISTANCE 596.232

RL 150.15 LAL -.00 LOL 358.78 VL 27.089 GAL 8.72 AZL 89.19 HCA 271.39 SMA 128.35 ECC .22615 INC .8107 V1 29.676
RP 108.76 LAP -.81 LOP 270.17 VP 37.503 GAP 9.72 AZP 89.98 TAL 146.64 TAP 58.03 RCA 99.33 APO 157.38 V2 34.842
RC 125.075 GL 3.99 GP 18.18 ZAL 32.50 ZAP 154.33 ETS 40.10 ZAE 118.00 ETE 170.19 ZAC 22.65 ETC 183.62 CLP-161.56

PLANETOCENTRIC CONIC

C3 29.611 VHL 5.442 DLA -8.92 RAL 327.36 RAD 6568.2 VEL 12.288 PTH 2.21 VHP 6.854 DPA -5.83 RAP 288.81 ECC 1.4873

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 15 7	2030.14	-14.71	30.13	193.46	114.47	10 48 57	1430.1	-11.28	23.13
90.00	19 57 58	5234.98	26.57	235.72	198.55	79.82	21 25 13	4635.0	24.89	227.45
100.00	11 32 7	1781.76	-15.89	11.30	192.89	115.66	12 1 48	1181.8	-12.30	4.34
100.00	21 23 40	4958.59	27.84	215.12	198.28	78.66	22 46 18	4358.6	26.00	206.80
110.00	12 30 27	1599.10	-19.00	355.75	191.20	118.96	12 57 6	999.1	-15.00	348.92
110.00	22 41 49	4714.01	31.26	195.64	197.37	75.42	24 0 23	4114.0	28.95	187.21

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE 2.2230 TRA 5.5194 TC3-1.8473 BAU .7330 SGT 6642.8 SGR 878.5 SG3 393.7 ST 2932.0 SR 269.4 SS 1316.1
RDE .0693 RRA -.8110 RC3 .1272 FAU .02005 RRT -.8899 RRF -.8772 RTF .9852 CRT -.3636 CRS .3098 CST -.9983
FDE 1.7549 FRA 3.8613 FC3 -.5863 BSP 21555 SGB 6700.6 R23 -.0057 R13 -.9852 LSA 3214.5 MSA 261.0 SSA 13.2
BDE 2.2240 BRA 5.5786 BC3 1.8516 FSP -1411 SG1 6688.8 SG2 398.0 THA 173.26 EL1 2933.7 EL2 250.8 ALF 178.07

LAUNCH DATE SEP 22 1965 FLIGHT TIME 218.00 ARRIVAL DATE APR 28 1966

HELIOCENTRIC CONIC DISTANCE 601.867

RL 150.15 LAL -.00 LOL 358.78 VL 27.068 GAL 9.18 AZL 89.01 HCA 274.56 SMA 128.21 ECC .23236 INC .9947 V1 29.676
RP 108.79 LAP -.99 LOP 273.34 VP 37.480 GAP 10.27 AZP 89.92 TAL 145.81 TAP 60.36 RCA 98.42 APO 158.00 V2 34.834
RC 127.413 GL 4.70 GP 17.39 ZAL 31.91 ZAP 155.94 ETS 41.63 ZAE 117.53 ETE 170.70 ZAC 24.11 ETC 181.06 CLP-163.11

PLANETOCENTRIC CONIC

C3 32.022 VHL 5.659 DLA -8.03 RAL 327.77 RAD 6568.3 VEL 12.385 PTH 2.24 VHP 7.157 DPA -6.48 RAP 290.42 ECC 1.5270

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 9 40	2078.68	-16.06	33.06	195.23	113.64	10 44 19	1478.7	-12.72	25.96
90.00	20 6 38	5225.76	26.46	235.07	200.04	79.52	21 33 44	4625.8	24.74	226.82
100.00	11 27 8	1828.77	-17.25	14.12	194.67	114.80	11 57 37	1228.8	-13.76	7.06
100.00	21 31 51	4950.91	27.74	214.57	199.75	78.39	22 54 22	4350.9	25.86	206.27
110.00	12 26 32	1642.78	-20.42	358.34	193.00	118.03	12 53 55	1042.8	-16.52	351.40
110.00	22 48 57	4709.66	31.19	195.32	198.83	75.25	24 7 26	4109.7	28.85	186.90

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE 2.3869 TRA 5.8098 TC3-1.7093 BAU .7332 SGT 6698.9 SGR 822.4 SG3 368.7 ST 3003.4 SR 259.6 SS 1296.4
RDE .0915 RRA -.7904 RC3 .1067 FAU .01717 RRT -.8732 RRF -.8602 RTF .9849 CRT -.2673 CRS .2179 CST -.9986
FDE 1.7266 FRA 3.7716 FC3 -.4643 BSP 21804 SGB 6749.2 R23 -.0062 R13 -.9849 LSA 3271.4 MSA 257.9 SSA 13.1
BDE 2.3887 BRA 5.8633 BC3 1.7126 FSP -1323 SG1 6737.4 SG2 398.4 THA 173.86 EL1 3004.2 EL2 250.1 ALF 178.67

LAUNCH DATE SEP 22 1965 FLIGHT TIME 220.00 ARRIVAL DATE APR 30 1966

HELIOCENTRIC CONIC DISTANCE 607.433

RL 150.15 LAL -.00 LOL 358.78 VL 27.047 GAL 9.68 AZL 88.82 HCA 277.72 SMA 128.07 ECC .23910 INC 1.1801 V1 29.676
RP 108.81 LAP -1.17 LOP 276.50 VP 37.457 GAP 10.84 AZP 89.84 TAL 144.97 TAP 62.69 RCA 97.45 APO 158.69 V2 34.826
RC 129.747 GL 5.35 GP 16.68 ZAL 31.34 ZAP 157.46 ETS 43.36 ZAE 117.08 ETE 171.15 ZAC 25.66 ETC 178.94 CLP-164.62

PLANETOCENTRIC CONIC

C3 34.739 VHL 5.894 DLA -7.20 RAL 328.18 RAD 6568.4 VEL 12.494 PTH 2.26 VHP 7.480 DPA -7.03 RAP 292.08 ECC 1.5717

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 4 51	2125.78	-17.32	35.94	197.10	112.76	10 40 17	1525.8	-14.09	28.75
90.00	20 14 45	5219.72	26.38	234.64	201.62	79.31	21 41 45	4619.7	24.64	226.40
100.00	11 22 45	1874.49	-18.53	16.91	196.55	113.88	11 53 59	1274.5	-15.15	9.75
100.00	21 39 32	4946.25	27.68	214.24	201.33	78.23	23 1 58	4346.2	25.77	205.95
110.00	12 23 7	1685.47	-21.77	.93	194.91	117.03	12 51 12	1085.5	-17.97	353.86
110.00	22 55 39	4708.03	31.16	195.21	200.38	75.18	24 14 7	4108.0	28.81	186.79

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE 2.5585 TRA 6.1167 TC3-1.5693 BAU .7300 SGT 6747.4 SGR 771.1 SG3 345.5 ST 3069.5 SR 252.2 SS 1277.7
RDE .1134 RRA -.7715 RC3 .0889 FAU .01444 RRT -.8553 RRF -.8419 RTF .9847 CRT -.1727 CRS .1280 CST -.9989
FDE 1.7002 FRA 3.6903 FC3 -.3597 BSP 22018 SGB 6791.3 R23 -.0064 R13 -.9847 LSA 3324.6 MSA 254.3 SSA 12.9
BDE 2.5610 BRA 6.1651 BC3 1.5718 FSP -1239 SG1 6779.7 SG2 397.6 THA 174.40 EL1 3069.8 EL2 248.4 ALF 179.18

LAUNCH DATE SEP 23 1965 FLIGHT TIME 70.00 ARRIVAL DATE DEC 2 1965

HELIOCENTRIC CONIC DISTANCE 129.791

RL 150.11 LAL -.00 LOL 359.76 VL 15.793 GAL 25.62 AZL 93.61 HCA 36.95 SMA 87.38 ECC .77842 INC 3.6123 V1 29.684
RP 108.27 LAP -2.17 LOP 36.66 VP 30.542 GAP -49.72 AZP 92.89 TAL 171.88 TAP 208.83 RCA 19.36 APO 155.40 V2 35.003
RC 81.818 GL -3.00 GP -3.91 ZAL 64.73 ZAP 33.84 ETS 170.77 ZAE 134.43 ETE 179.44 ZAC 23.55 ETC 47.27 CLP 33.64

PLANETOCENTRIC CONIC

C3 293.537 VHL 17.133 DLA -24.07 RAL 297.61 RAD 6571.7 VEL 20.368 PTH 3.16 VHP 27.769 DPA -25.46 RAP 247.82 ECC 5.8309

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 48 21	1914.85	-11.35	23.33	195.50	116.12	11 20 16	1314.9	-7.75	16.50
90.00	15 19 30	1013.30	16.53	331.80	208.17	113.32	15 36 23	413.3	19.55	324.42
100.00	11 49 43	1716.76	-13.93	7.46	194.18	116.72	12 18 20	1116.8	-10.24	.62
100.00	17 0 49	686.63	19.18	308.96	209.37	113.38	17 12 15	86.6	22.18	301.45
110.00	12 18 35	1626.23	-19.89	357.35	190.94	118.39	12 45 41	1026.2	-15.94	350.46
110.00	18 48 26	5637.97	25.34	264.20	212.27	113.75	20 22 24	5038.0	28.33	256.29

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.4405 TRA-1.9244 TC3 -.1143 BAU .4486 SGT 819.7 SGR 459.9 SG3 25.1 ST 258.0 SR 441.7 SS 226.8
RDE-1.3154 RRA .3655 RC3 .0023 FAU .01149 RRT -.0867 RRF .0819 RTF -.6147 CRT .4941 CRS .4785 CST .9964
FDE .1572 FRA .7141 FC3 -.0339 BSP 1942 SGB 939.9 R23 -.0046 R13 .6153 LSA 489.8 MSA 270.2 SSA 14.1
BDE 1.3872 BRA 1.9588 BC3 .1143 FSP -50 SG1 821.1 SG2 457.4 THA 175.96 EL1 465.1 EL2 213.0 ALF 69.39

LAUNCH DATE SEP 23 1965 FLIGHT TIME 72.00 ARRIVAL DATE DEC 4 1965

HELIOCENTRIC CONIC DISTANCE 135.326

RL 150.11 LAL -.00 LOL 359.76 VL 16.566 GAL 24.47 AZL 93.14 HCA 40.14 SMA 88.84 ECC .75202 INC 3.1366 V1 29.684
RP 108.22 LAP -2.02 LOP 39.86 VP 30.964 GAP -47.51 AZP 92.40 TAL 171.05 TAP 211.19 RCA 22.03 APO 155.65 V2 35.016
RC 79.613 GL -2.89 GP -4.01 ZAL 63.36 ZAP 32.34 ETS 170.26 ZAE 134.38 ETE 179.81 ZAC 22.60 ETC 50.63 CLP 32.12

PLANETOCENTRIC CONIC

C3 268.546 VHL 16.387 DLA -23.70 RAL 299.05 RAD 6571.6 VEL 19.745 PTH 3.12 VHP 26.746 DPA -25.89 RAP 249.62 ECC 5.4196

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 48 19	1923.96	-11.62	23.86	196.06	116.00	11 20 23	1324.0	-8.03	17.02
90.00	15 31 2	981.93	17.37	329.87	209.01	112.72	15 47 24	381.9	20.30	322.42
100.00	11 50 37	1722.84	-14.12	7.81	194.79	116.62	12 19 20	1122.8	-10.43	.96
100.00	17 11 25	658.29	19.94	307.20	210.14	112.75	17 22 23	58.3	22.84	299.61
110.00	12 20 53	1627.93	-19.95	357.45	191.62	118.35	12 48 1	1027.9	-16.00	350.55
110.00	18 57 38	5614.00	25.99	262.63	212.91	113.03	20 31 12	5014.0	28.87	254.64

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.4607 TRA-1.9421 TC3 -.1224 BAU .4395 SGT 858.4 SGR 466.0 SG3 27.2 ST 274.9 SR 445.5 SS 241.2
RDE-1.2682 RRA .3750 RC3 .0019 FAU .01153 RRT -.0931 RRF .0887 RTF -.6338 CRT .5051 CRS .4983 CST .9969
FDE .1730 FRA .7419 FC3 -.0372 BSP 2044 SGB 976.7 R23 -.0055 R13 .6344 LSA 504.0 MSA 279.3 SSA 14.3
BDE 1.3493 BRA 1.9779 BC3 .1224 FSP -55 SG1 859.9 SG2 463.1 THA 175.92 EL1 473.5 EL2 223.2 ALF 67.40

LAUNCH DATE SEP 23 1965 FLIGHT TIME 74.00 ARRIVAL DATE DEC 6 1965

HELIOCENTRIC CONIC DISTANCE 140.979

RL 150.11 LAL -.00 LOL 359.76 VL 17.291 GAL 23.39 AZL 92.72 HCA 43.33 SMA 90.33 ECC .72569 INC 2.7195 V1 29.684
RP 108.18 LAP -1.87 LOP 43.06 VP 31.373 GAP -45.42 AZP 91.98 TAL 170.22 TAP 213.55 RCA 24.78 APO 155.87 V2 35.030
RC 77.423 GL -2.75 GP -4.12 ZAL 62.04 ZAP 30.87 ETS 169.69 ZAE 134.41 ETE 180.21 ZAC 21.74 ETC 54.35 CLP 30.62

PLANETOCENTRIC CONIC

C3 245.824 VHL 15.679 DLA -23.31 RAL 300.43 RAD 6571.4 VEL 19.161 PTH 3.09 VHP 25.758 DPA -26.33 RAP 251.45 ECC 5.0456

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 47 59	1932.75	-11.88	24.37	196.52	115.89	11 20 12	1332.7	-8.31	17.52
90.00	15 42 22	949.70	18.20	327.87	209.72	112.07	15 58 12	349.7	21.04	320.35
100.00	11 51 12	1728.73	-14.30	8.16	195.30	116.53	12 20 0	1128.7	-10.62	1.30
100.00	17 21 51	628.94	20.70	305.35	210.79	112.06	17 32 20	28.9	23.51	297.68
110.00	12 22 50	1629.51	-20.00	357.55	192.21	118.32	12 50 0	1029.5	-16.06	350.64
110.00	19 6 42	5588.97	26.64	260.98	213.43	112.25	20 39 51	4989.0	29.42	252.90

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.5073 TRA-1.9878 TC3 -.1352 BAU .4442 SGT 916.3 SGR 471.5 SG3 29.4 ST 301.4 SR 448.4 SS 258.5
RDE-1.2205 RRA .3838 RC3 .0014 FAU .01143 RRT -.0925 RRF .0940 RTF -.6516 CRT .5314 CRS .5215 CST .9971
FDE .1926 FRA .7735 FC3 -.0402 BSP 1503 SGB 1030.5 R23 -.0124 R13 .6524 LSA 525.0 MSA 287.9 SSA 14.7
BDE 1.3217 BRA 2.0245 BC3 .1352 FSP -54 SG1 917.7 SG2 468.7 THA 176.31 EL1 486.3 EL2 235.4 ALF 63.75

LAUNCH DATE SEP 23 1965 FLIGHT TIME 76.00 ARRIVAL DATE DEC 8 1965

HELIOCENTRIC CONIC DISTANCE 146.735

RL 150.11 LAL -.00 LOL 359.76 VL 17.972 GAL 22.37 AZL 92.35 HCA 46.53 SMA 91.83 ECC .69953 INC 2.3487 V1 29.684
RP 108.14 LAP -1.70 LOP 46.26 VP 31.767 GAP -43.43 AZP 91.62 TAL 169.41 TAP 215.94 RCA 27.59 APO 156.06 V2 35.043
RC 75.249 GL -2.60 GP -4.23 ZAL 60.77 ZAP 29.42 ETS 169.06 ZAE 134.52 ETE 180.66 ZAC 20.97 ETC 58.44 CLP 29.14

PLANETOCENTRIC CONIC

C3 225.079 VHL 15.003 DLA -22.90 RAL 301.74 RAD 6571.3 VEL 18.612 PTH 3.05 VHP 24.803 DPA -26.75 RAP 253.33 ECC 4.7042

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 47 23	1941.05	-12.13	24.86	196.89	115.78	11 19 44	1341.0	-8.56	17.99
90.00	15 53 27	916.66	19.04	325.81	210.29	111.37	16 8 43	316.7	21.77	318.20
100.00	11 51 26	1734.29	-14.47	8.49	195.71	116.45	12 20 21	1134.3	-10.80	1.62
100.00	17 32 4	5886.69	21.46	281.33	211.30	111.32	19 10 11	5286.7	24.17	273.58
110.00	12 24 26	1630.84	-20.04	357.63	192.70	118.29	12 51 37	1030.8	-16.10	350.72
110.00	19 15 34	5562.90	27.30	259.24	213.81	111.41	20 48 17	4962.9	29.96	251.06

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.4783 TRA-1.9592 TC3 -.1357 BAU .4085 SGT 926.8 SGR 476.6 SG3 31.6 ST 304.8 SR 450.9 SS 270.1
RDE-1.1739 RRA .3899 RC3 .0005 FAU .01175 RRT -.1132 RRF .1054 RTF -.6710 CRT .5099 CRS .5287 CST .9971
FDE .2036 FRA .7969 FC3 -.0452 BSP 2753 SGB 1042.2 R23 -.0027 R13 .6717 LSA 530.6 MSA 295.8 SSA 14.6
BDE 1.2676 BRA 1.9976 BC3 .1357 FSP -71 SG1 929.0 SG2 472.4 THA 175.50 EL1 487.2 EL2 242.7 ALF 64.12

LAUNCH DATE SEP 23 1965 FLIGHT TIME 78.00 ARRIVAL DATE DEC 10 1965

HELIOCENTRIC CONIC DISTANCE 152.599

RL 150.11 LAL -.00 LOL 359.76 VL 18.611 GAL 21.40 AZL 92.02 HCA 49.73 SMA 93.34 ECC .67370 INC 2.0150 V1 29.684
RP 108.10 LAP -1.54 LOP 49.47 VP 32.148 GAP -41.55 AZP 91.30 TAL 168.61 TAP 218.33 RCA 30.46 APO 156.22 V2 35.056
RC 73.094 GL -2.43 GP -4.36 ZAL 59.55 ZAP 28.00 ETS 168.35 ZAE 134.70 ETE 181.15 ZAC 20.32 ETC 62.89 CLP 27.69

PLANETOCENTRIC CONIC

C3 206.184 VHL 14.359 DLA -22.48 RAL 303.00 RAD 6571.2 VEL 18.097 PTH 3.01 VHP 23.881 DPA -27.17 RAP 255.23 ECC 4.3933

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 46 30	1948.99	-12.37	25.32	197.17	115.68	11 18 59	1349.0	-8.81	18.45
90.00	16 4 19	882.75	19.86	323.66	210.73	110.61	16 19 2	282.7	22.49	315.98
100.00	11 51 22	1739.61	-14.63	8.80	196.03	116.36	12 20 22	1139.6	-10.97	1.92
100.00	17 42 8	5855.40	22.22	279.31	211.67	110.53	19 19 43	5255.4	24.81	271.48
110.00	12 25 42	1632.00	-20.08	357.70	193.09	118.26	12 52 54	1032.0	-16.14	350.78
110.00	19 24 18	5535.78	27.96	257.41	214.05	110.51	20 56 33	4935.8	30.49	249.13

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.4989 TRA-1.9816 TC3 -.1448 BAU .3992 SGT 972.0 SGR 481.0 SG3 34.1 ST 325.1 SR 452.5 SS 286.5
RDE-1.1266 RRA .3959 RC3 -.0004 FAU .01181 RRT -.1204 RRF .1136 RTF -.6883 CRT .5189 CRS .5439 CST .9972
FDE .2211 FRA .8270 FC3 -.0496 BSP 2804 SGB 1084.5 R23 -.0046 R13 .6889 LSA 548.1 MSA 303.2 SSA 14.8
BDE 1.2321 BRA 2.0208 BC3 .1448 FSP -77 SG1 974.3 SG2 476.3 THA 175.52 EL1 496.2 EL2 253.4 ALF 61.49

LAUNCH DATE SEP 23 1965 FLIGHT TIME 80.00 ARRIVAL DATE DEC 12 1965

HELIOCENTRIC CONIC DISTANCE 158.560

RL 150.11 LAL -.00 LOL 359.76 VL 19.211 GAL 20.48 AZL 91.71 HCA 52.93 SMA 94.85 ECC .64829 INC 1.7113 V1 29.684
RP 108.06 LAP -1.37 LOP 52.68 VP 32.513 GAP -39.75 AZP 91.03 TAL 167.82 TAP 220.75 RCA 33.36 APO 156.34 V2 35.069
RC 70.962 GL -2.24 GP -4.50 ZAL 58.37 ZAP 26.60 ETS 167.55 ZAE 134.96 ETE 181.70 ZAC 19.81 ETC 67.67 CLP 26.25

PLANETOCENTRIC CONIC

C3 188.933 VHL 13.745 DLA -22.03 RAL 304.18 RAD 6571.0 VEL 17.614 PTH 2.98 VHP 22.989 DPA -27.58 RAP 257.17 ECC 4.1094

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 45 20	1956.52	-12.59	25.76	197.35	115.58	11 17 57	1356.5	-9.04	18.88
90.00	16 14 58	847.98	20.68	321.44	211.03	109.78	16 29 6	248.0	23.19	313.67
100.00	11 50 59	1744.64	-14.78	9.10	196.25	116.28	12 20 4	1144.6	-11.13	2.21
100.00	17 52 0	5823.14	22.98	277.22	211.91	109.67	19 29 3	5223.1	25.45	269.29
110.00	12 26 37	1632.93	-20.11	357.75	193.38	118.24	12 53 50	1032.9	-16.18	350.84
110.00	19 32 51	5507.61	28.62	255.48	214.15	109.54	21 4 39	4907.6	31.01	247.10

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.5197 TRA-2.0053 TC3 -.1544 BAU .3900 SGT 1019.9 SGR 484.7 SG3 36.8 ST 346.8 SR 453.2 SS 303.7
RDE-1.0794 RRA .4008 RC3 -.0016 FAU .01189 RRT -.1278 RRF .1226 RTF -.7047 CRT .5271 CRS .5576 CST .9972
FDE .2394 FRA .8581 FC3 -.0545 BSP 2832 SGB 1129.3 R23 -.0070 R13 .7054 LSA 567.2 MSA 309.7 SSA 15.1
BDE 1.1980 BRA 2.0450 BC3 .1544 FSP -82 SG1 1022.3 SG2 479.6 THA 175.54 EL1 505.9 EL2 264.0 ALF 58.59

LAUNCH DATE SEP 23 1965 FLIGHT TIME 82.00 ARRIVAL DATE DEC 14 1965

HELIOCENTRIC CONIC DISTANCE 164.612

RL 150.11 LAL -.00 LOL 359.76 VL 19.774 GAL 19.60 AZL 91.43 HCA 56.14 SMA 96.36 ECC .62337 INC 1.4320 V1 29.684
RP 108.02 LAP -1.19 LOP 55.89 VP 32.863 GAP -38.03 AZP 90.80 TAL 167.04 TAP 223.18 RCA 36.29 APO 156.43 V2 35.082
RC 68.856 GL -2.03 GP -4.66 ZAL 57.25 ZAP 25.23 ETS 166.65 ZAE 135.31 ETE 182.31 ZAC 19.45 ETC 72.74 CLP 24.82

PLANETOCENTRIC CONIC

C3 173.168 VHL 13.159 DLA -21.57 RAL 305.31 RAD 6570.9 VEL 17.161 PTH 2.94 VHP 22.125 DPA -27.98 RAP 259.15 ECC 3.8499

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 43 54	1963.65	-12.80	26.18	197.44	115.48	11 16 37	1363.6	-9.26	19.29
90.00	16 25 23	812.33	21.48	319.14	211.19	108.90	16 38 55	212.3	23.87	311.28
100.00	11 50 17	1749.37	-14.92	9.37	196.38	116.21	12 19 27	1149.4	-11.28	2.48
100.00	18 1 40	5789.89	23.72	275.03	212.01	108.74	19 38 10	5189.9	26.06	267.01
110.00	12 27 13	1633.64	-20.13	357.79	193.57	118.23	12 54 26	1033.6	-16.20	350.88
110.00	19 41 15	5478.38	29.27	253.46	214.10	108.50	21 12 33	4878.4	31.51	244.97

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.5350 TRA-2.0245 TC3 -.1632 BAU .3779 SGT 1066.4 SGR 487.9 SG3 39.7 ST 367.8 SR 453.1 SS 321.1
RDE-1.0325 RRA .4046 RC3 -.0030 FAU .01200 RRT -.1373 RRF .1326 RTF -.7208 CRT .5314 CRS .5691 CST .9970
FDE .2576 FRA .8896 FC3 -.0600 BSP 2979 SGB 1172.7 R23 -.0083 R13 .7215 LSA 586.5 MSA 315.4 SSA 15.2
BDE 1.1629 BRA 2.0646 BC3 .1632 FSP -90 SG1 1069.0 SG2 482.1 THA 175.49 EL1 515.3 EL2 274.0 ALF 55.79

LAUNCH DATE SEP 23 1965 FLIGHT TIME 84.00 ARRIVAL DATE DEC 16 1965

HELIOCENTRIC CONIC DISTANCE 170.749

RL 150.11 LAL -.00 LOL 359.76 VL 20.304 GAL 18.76 AZL 91.17 HCA 59.34 SMA 97.87 ECC .59902 INC 1.1728 V1 29.684
RP 107.98 LAP -1.01 LOP 59.10 VP 33.198 GAP -36.39 AZP 90.60 TAL 166.29 TAP 225.63 RCA 39.24 APO 156.50 V2 35.095
RC 66.778 GL -1.79 GP -4.82 ZAL 56.17 ZAP 23.87 ETS 165.62 ZAE 135.74 ETE 182.98 ZAC 19.27 ETC 78.02 CLP 23.41

PLANETOCENTRIC CONIC

C3 158.753 VHL 12.600 DLA -21.09 RAL 306.37 RAD 6570.7 VEL 16.736 PTH 2.90 VHP 21.289 DPA -28.38 RAP 261.15 ECC 3.6127

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 42 10	1970.40	-12.99	26.58	197.43	115.38	11 15 1	1370.4	-9.47	19.67
90.00	16 35 35	775.78	22.27	316.74	211.20	107.95	16 48 31	175.8	24.52	308.80
100.00	11 49 17	1753.81	-15.06	9.64	196.41	116.13	12 18 31	1153.8	-11.42	2.73
100.00	18 11 10	5755.64	24.45	272.74	211.96	107.75	19 47 5	5155.6	26.65	264.63
110.00	12 27 28	1634.13	-20.15	357.82	193.67	118.22	12 54 42	1034.1	-16.22	350.90
110.00	19 49 28	5448.09	29.91	251.33	213.91	107.39	21 20 16	4848.1	31.99	242.73

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.5472 TRA-2.0414 TC3 -.1715 BAU .3642 SGT 1112.9 SGR 490.5 SG3 42.8 ST 388.8 SR 452.3 SS 338.9
RDE -.9859 RRA .4074 RC3 -.0047 FAU .01215 RRT -.1482 RRF .1436 RTF -.7363 CRT .5333 CRS .5791 CST .9967
FDE .2761 FRA .9217 FC3 -.0663 BSP 3183 SGB 1216.2 R23 -.0092 R13 .7371 LSA 606.4 MSA 320.4 SSA 15.4
BDE 1.1276 BRA 2.0816 BC3 .1716 FSP -99 SG1 1115.9 SG2 483.8 THA 175.40 EL1 524.8 EL2 283.5 ALF 52.94

LAUNCH DATE SEP 23 1965 FLIGHT TIME 86.00 ARRIVAL DATE DEC 18 1965

HELIOCENTRIC CONIC DISTANCE 176.966

RL	150.11	LAL	-.00	LOL	359.76	VL	20.801	GAL	17.95	AZL	90.93	HCA	62.56	SMA	99.37	ECC	.57529	INC	.9300	V1	29.684
RP	107.94	LAP	-.83	LOP	62.31	VP	33.517	GAP	-34.81	AZP	90.43	TAL	165.56	TAP	228.11	RCA	42.20	APO	156.53	V2	35.108
RC	64.732	GL	-1.53	GP	-5.00	ZAL	55.13	ZAP	22.55	ETS	164.45	ZAE	136.25	ETE	183.73	ZAC	19.26	ETC	83.41	CLP	22.01

PLANETOCENTRIC CONIC

C3 145.570 VHL 12.065 DLA -20.59 RAL 307.37 RAD 6570.6 VEL 16.337 PTH 2.86 VHP 20.479 DPA -28.76 RAP 263.18 ECC 3.3957

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 40 9	1976.82	-13.18	26.96	197.33	115.29	11 13 6	1376.8	-9.67	20.04
90.00	16 45 35	738.29	23.04	314.26	211.07	106.94	16 57 53	138.3	25.14	306.22
100.00	11 47 57	1758.02	-15.18	9.89	196.34	116.06	12 17 15	1158.0	-11.55	2.97
100.00	18 20 28	5720.37	25.16	270.36	211.77	106.69	19 55 49	5120.4	27.21	262.16
110.00	12 27 23	1634.44	-20.16	357.84	193.66	118.21	12 54 37	1034.4	-16.23	350.92
110.00	19 57 32	5416.71	30.52	249.09	213.56	106.20	21 27 49	4816.7	32.44	240.40

DIFFERENTIAL CORRECTIONS

TDE	-.5611	TRA	-2.0607	TC3	-.1805	BAU	.3515												
RDE	-.9396	RRA	.4095	RC3	-.0067	FAU	.01231												
FDE	.2956	FRA	.9553	FC3	-.0732	BSP	3330												
BDE	1.0944	BRA	2.1010	BC3	.1806	FSP	-108												

MID-COURSE EXECUTION ACCURACY

SGT	1163.4	SGR	492.4	SG3	46.2						
RRT	-.1592	RRF	.1554	RTF	-.7510						
SGB	1263.3	R23	-.0109	R13	.7518						
SG1	1166.6	SG2	484.8	THA	175.34						

ORBIT DETERMINATION ACCURACY

ST	411.7	SR	450.5	SS	357.7						
CRT	.5356	CRS	.5881	CST	.9963						
LSA	628.5	MSA	324.4	SSA	15.6						
EL1	535.7	EL2	292.4	ALF	49.78						

LAUNCH DATE SEP 23 1965 FLIGHT TIME 88.00 ARRIVAL DATE DEC 20 1965

HELIOCENTRIC CONIC DISTANCE 183.257

RL	150.11	LAL	-.00	LOL	359.76	VL	21.268	GAL	17.18	AZL	90.70	HCA	65.77	SMA	100.85	ECC	.55222	INC	.7009	V1	29.684
RP	107.90	LAP	-.64	LOP	65.53	VP	33.822	GAP	-33.31	AZP	90.29	TAL	164.85	TAP	230.62	RCA	45.16	APO	156.54	V2	35.120
RC	62.721	GL	-1.23	GP	-5.20	ZAL	54.15	ZAP	21.24	ETS	163.10	ZAE	136.86	ETE	184.56	ZAC	19.44	ETC	88.80	CLP	20.63

PLANETOCENTRIC CONIC

C3 133.507 VHL 11.555 DLA -20.06 RAL 308.31 RAD 6570.4 VEL 15.964 PTH 2.82 VHP 19.694 DPA -29.14 RAP 265.23 ECC 3.1972

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 37 49	1982.98	-13.36	27.32	197.14	115.20	11 10 52	1383.0	-9.86	20.40
90.00	16 55 23	699.83	23.78	311.69	210.79	105.85	17 7 3	99.8	25.72	303.56
100.00	11 46 17	1762.03	-15.30	10.12	196.18	116.00	12 15 39	1162.0	-11.68	3.20
100.00	18 29 37	5684.05	25.85	267.88	211.43	105.56	20 4 21	5084.0	27.73	259.59
110.00	12 26 57	1634.61	-20.16	357.85	193.57	118.21	12 54 11	1034.6	-16.23	350.93
110.00	20 5 26	5384.24	31.12	246.75	213.06	104.92	21 35 10	4784.2	32.85	237.95

DIFFERENTIAL CORRECTIONS

TDE	-.5721	TRA	-2.0774	TC3	-.1888	BAU	.3374												
RDE	-.8937	RRA	.4108	RC3	-.0092	FAU	.01250												
FDE	.3155	FRA	.9899	FC3	-.0811	BSP	3535												
BDE	1.0611	BRA	2.1176	BC3	.1690	FSP	-118												

MID-COURSE EXECUTION ACCURACY

SGT	1213.9	SGR	493.8	SG3	49.8						
RRT	-.1717	RRF	.1684	RTF	-.7652						
SGB	1310.5	R23	-.0123	R13	.7661						
SG1	1217.4	SG2	485.1	THA	175.25						

ORBIT DETERMINATION ACCURACY

ST	434.6	SR	447.9	SS	377.0						
CRT	.5358	CRS	.5958	CST	.9958						
LSA	651.2	MSA	327.5	SSA	15.7						
EL1	547.0	EL2	300.5	ALF	46.61						

LAUNCH DATE SEP 23 1965 FLIGHT TIME 90.00 ARRIVAL DATE DEC 22 1965

HELIOCENTRIC CONIC DISTANCE 189.616

RL	150.11	LAL	-.00	LOL	359.76	VL	21.706	GAL	16.43	AZL	90.48	HCA	68.99	SMA	102.32	ECC	.52986	INC	.4828	V1	29.684
RP	107.87	LAP	-.45	LOP	68.75	VP	34.112	GAP	-31.86	AZP	90.17	TAL	164.16	TAP	233.15	RCA	48.10	APO	156.53	V2	35.132
RC	60.751	GL	-.91	GP	-5.42	ZAL	53.21	ZAP	19.97	ETS	161.53	ZAE	137.56	ETE	185.50	ZAC	19.81	ETC	94.08	CLP	19.25

PLANETOCENTRIC CONIC

C3 122.471 VHL 11.067 DLA -19.52 RAL 309.18 RAD 6570.3 VEL 15.614 PTH 2.78 VHP 18.934 DPA -29.51 RAP 267.31 ECC 3.0156

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 35 10	1988.95	-13.53	27.68	196.85	115.11	11 8 19	1388.9	-10.04	20.74
90.00	17 5 0	660.36	24.48	309.01	210.36	104.69	17 16 1	60.4	26.26	300.79
100.00	11 44 17	1765.92	-15.42	10.35	195.92	115.93	12 13 43	1165.9	-11.81	3.43
100.00	18 38 35	5646.66	26.51	265.30	210.94	104.35	20 12 42	5046.7	28.22	256.92
110.00	12 26 10	1634.69	-20.16	357.86	193.37	118.21	12 53 24	1034.7	-16.24	350.94
110.00	20 13 12	5350.66	31.68	244.29	212.41	103.57	21 42 22	4750.7	33.22	235.40

DIFFERENTIAL CORRECTIONS

TDE	-.5819	TRA	-2.0935	TC3	-.1968	BAU	.3229												
RDE	-.8482	RRA	.4115	RC3	-.0120	FAU	.01272												
FDE	.3362	FRA	1.0258	FC3	-.0899	BSP	3747												
BDE	1.0286	BRA	2.1336	BC3	.1972	FSP	-129												

MID-COURSE EXECUTION ACCURACY

SGT	1266.1	SGR	494.6	SG3	53.8						
RRT	-.1853	RRF	.1827	RTF	-.7788						
SGB	1359.3	R23	-.0138	R13	.7797						
SG1	1270.0	SG2	484.6	THA	175.15						

ORBIT DETERMINATION ACCURACY

ST	458.2	SR	444.4	SS	397.0						
CRT	.5350	CRS	.6024	CST	.9952						
LSA	675.3	MSA	329.8	SSA	15.9						
EL1	559.3	EL2	307.6	ALF	43.36						

LAUNCH DATE SEP 23 1965 FLIGHT TIME 92.00 ARRIVAL DATE DEC 24 1965

HELIOCENTRIC CONIC DISTANCE 196.038

RL	150.11	LAL	-.00	LOL	359.76	VL	22.118	GAL	15.72	AZL	90.27	HCA	72.21	SMA	103.76	ECC	.50823	INC	.2737	V1	29.684
RP	107.83	LAP	-.26	LOP	71.97	VP	34.387	GAP	-30.47	AZP	90.08	TAL	163.50	TAP	235.71	RCA	51.03	APO	156.49	V2	35.144
RC	58.824	GL	-.55	GP	-5.65	ZAL	52.32	ZAP	18.72	ETS	159.69	ZAE	138.35	ETE	186.56	ZAC	20.36	ETC	99.14	CLP	17.88

PLANETOCENTRIC CONIC

C3 112.373 VHL 10.601 DLA -18.95 RAL 309.99 RAD 6570.1 VEL 15.288 PTH 2.74 VHP 18.197 DPA -29.88 RAP 269.42 ECC 2.8494

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 32 11	1994.82	-13.70	28.02	196.47	115.03	11 5 26	1394.8	-10.22	21.08
90.00	17 14 27	619.85	25.15	306.23	209.78	103.45	17 24 47	19.9	26.76	297.93
100.00	11 41 35	1769.77	-15.53	10.58	195.57	115.87	12 11 25	1169.8	-11.93	3.65
100.00	18 47 24	5608.18	27.13	262.61	210.30	103.07	20 20 52	5008.2	28.65	254.14
110.00	12 25 0	1634.76	-20.17	357.86	193.09	118.20	12 52 15	1034.8	-16.24	350.94
110.00	20 20 48	5315.95	32.20	241.72	211.60	102.14	21 49 24	4716.0	33.54	232.74

DIFFERENTIAL CORRECTIONS

TDE	-.5911	TRA	-2.1092	TC3	-.2046	BAU	.3082												
RDE	-.8032	RRA	.4118	RC3	-.0154	FAU	.01296												
FDE	.3578	FRA	1.0633	FC3	-.0998	BSP	3962												
BDE	.9973	BRA	2.1490	BC3	.2052	FSP	-141												

MID-COURSE EXECUTION ACCURACY

SGT	1320.2	SGR	494.9	SG3	58.1						
RRT	-.2001	RRF	.1983	RTF	-.7918						
SGB	1410.0	R23	-.0156	R13	.7927						
SG1	1324.5	SG2	483.3	THA	175.05						

ORBIT DETERMINATION ACCURACY

ST	482.7	SR	439.8	SS	418.0						
CRT	.5331	CRS	.6079	CST	.9945						
LSA	700.9	MSA	331.1	SSA	16.0						
EL1	572.8	EL2	313.6	ALF	40.04						

LAUNCH DATE SEP 23 1965 FLIGHT TIME 94.00 ARRIVAL DATE DEC 26 1965

HELIOCENTRIC CONIC DISTANCE 202.519

RL	150.11	LAL	-.00	LOL	359.76	VL	22.504	GAL	15.04	AZL	90.07	HCA	75.43	SMA	105.18	ECC	.48735	INC	.0706	VI	29.684
RP	107.80	LAP	-.07	LOP	75.19	VP	34.648	GAP	-29.13	AZP	90.02	TAL	162.88	TAP	238.31	RCA	53.92	APO	156.43	V2	35.155
RC	56.947	GL	-.16	GP	-5.91	ZAL	51.49	ZAP	17.52	ETS	157.54	ZAE	139.24	ETE	187.75	ZAC	21.09	ETC	103.92	CLP	16.52

PLANETOCENTRIC CONIC

C3 103.137 VHL 10.156 DLA -18.35 RAL 310.74 RAD 6570.0 VEL 14.983 PTH 2.70 VHP 17.483 DPA -30.24 RAP 271.54 ECC 2.6974

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 28 50	2000.72	-13.87	28.38	196.01	114.94	11 2 11	1400.7	-10.40	21.42
90.00	17 23 45	5866.30	25.78	281.25	209.05	102.14	19 1 32	5266.3	27.20	272.87
100.00	11 39 11	1773.69	-15.65	10.82	195.14	115.80	12 8 45	1173.7	-12.05	3.87
100.00	18 56 5	5568.57	27.70	259.81	209.51	101.70	20 28 54	4968.6	29.04	251.26
110.00	12 23 29	1634.92	-20.17	357.87	192.72	118.20	12 50 43	1034.9	-16.24	350.95
110.00	20 28 17	5280.09	32.69	239.04	210.64	100.61	21 56 17	4680.1	33.80	229.98

DIFFERENTIAL CORRECTIONS

TDE	-.6020	TRA	-2.1266	TC3	-.2129	BAU	.2947												
RDE	-.7587	RRA	.4117	RC3	-.0193	FAU	.01322												
FDE	.3808	FRA	1.1028	FC3	-.1109	BSP	4121												
BDE	.9685	BRA	2.1661	BC3	.2137	FSP	-154												

MID-COURSE EXECUTION ACCURACY

SGT	1378.5	SGR	494.6	SG3	62.7						
RRT	-.2156	RRF	.2154	RTF	-.8039						
SGB	1464.5	R23	-.0184	R13	.8048						
SG1	1383.2	SG2	481.3	THA	174.96						

ORBIT DETERMINATION ACCURACY

ST	509.2	SR	434.3	SS	440.0						
CRT	.5315	CRS	.6126	CST	.9939						
LSA	729.0	MSA	331.3	SSA	16.1						
EL1	588.8	EL2	318.1	ALF	36.63						

LAUNCH DATE SEP 23 1965 FLIGHT TIME 96.00 ARRIVAL DATE DEC 28 1965

HELIOCENTRIC CONIC DISTANCE 209.052

RL	150.11	LAL	-.00	LOL	359.76	VL	22.866	GAL	14.38	AZL	89.88	HCA	78.65	SMA	106.56	ECC	.46725	INC	.1221	VI	29.684
RP	107.76	LAP	.12	LOP	78.42	VP	34.895	GAP	-27.85	AZP	89.98	TAL	162.28	TAP	240.93	RCA	56.77	APO	156.36	V2	35.166
RC	55.125	GL	.28	GP	-6.20	ZAL	50.70	ZAP	16.35	ETS	155.00	ZAE	140.23	ETE	189.10	ZAC	21.98	ETC	108.35	CLP	15.16

PLANETOCENTRIC CONIC

C3 94.690 VHL 9.731 DLA -17.72 RAL 311.42 RAD 6569.8 VEL 14.698 PTH 2.66 VHP 16.791 DPA -30.59 RAP 273.68 ECC 2.5584

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 25 6	2006.77	-14.04	28.73	195.46	114.84	10 58 33	1406.8	-10.58	21.77
90.00	17 32 55	5823.58	26.36	278.26	208.18	100.74	19 9 59	5223.6	27.57	269.80
100.00	11 36 4	1777.79	-15.77	11.06	194.62	115.73	12 5 42	1177.8	-12.18	4.11
100.00	19 4 39	5527.79	28.23	256.89	208.57	100.25	20 36 46	4927.8	29.36	248.27
110.00	12 21 33	1635.28	-20.18	357.89	192.26	118.19	12 48 48	1035.3	-16.26	350.97
110.00	20 35 39	5243.07	33.12	236.23	209.53	99.01	22 3 2	4643.1	34.00	227.11

DIFFERENTIAL CORRECTIONS

TDE	-.6098	TRA	-2.1410	TC3	-.2197	BAU	.2798												
RDE	-.7147	RRA	.4113	RC3	-.0239	FAU	.01352												
FDE	.4045	FRA	1.1439	FC3	-.1236	BSP	4340												
BDE	.9395	BRA	2.1802	BC3	.2210	FSP	-168												

MID-COURSE EXECUTION ACCURACY

SGT	1436.4	SGR	493.9	SG3	67.7						
RRT	-.2333	RRF	.2343	RTF	-.8156						
SGB	1518.9	R23	-.0208	R13	.8166						
SG1	1441.6	SG2	478.5	THA	174.84						

ORBIT DETERMINATION ACCURACY

ST	535.4	SR	427.7	SS	462.9						
CRT	.5276	CRS	.6160	CST	.9931						
LSA	757.7	MSA	330.8	SSA	16.2						
EL1	605.2	EL2	321.4	ALF	33.38						

LAUNCH DATE SEP 23 1965 FLIGHT TIME 98.00 ARRIVAL DATE DEC 30 1965

HELIOCENTRIC CONIC DISTANCE 215.632

RL	150.11	LAL	-.00	LOL	359.76	VL	23.206	GAL	13.74	AZL	89.68	HCA	81.88	SMA	107.92	ECC	.44791	INC	.3150	VI	29.684
RP	107.73	LAP	.31	LOP	81.64	VP	35.129	GAP	-26.61	AZP	89.96	TAL	161.71	TAP	243.59	RCA	59.58	APO	156.26	V2	35.176
RC	53.365	GL	.76	GP	-6.51	ZAL	49.96	ZAP	15.23	ETS	151.99	ZAE	141.32	ETE	190.64	ZAC	23.01	ETC	112.41	CLP	13.80

PLANETOCENTRIC CONIC

C3 86.969 VHL 9.326 DLA -17.06 RAL 312.04 RAD 6569.7 VEL 14.433 PTH 2.62 VHP 16.121 DPA -30.95 RAP 275.84 ECC 2.4313

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 20 58	2013.12	-14.23	29.11	194.83	114.74	10 54 31	1413.1	-10.77	22.14
90.00	17 41 58	5779.70	26.88	275.15	207.16	99.27	19 18 18	5179.7	27.88	266.63
100.00	11 32 31	1782.22	-15.90	11.32	194.01	115.65	12 2 14	1182.2	-12.32	4.36
100.00	19 13 6	5485.83	28.70	253.86	207.48	98.72	20 44 32	4885.8	29.61	245.18
110.00	12 19 12	1635.95	-20.20	357.93	191.71	118.18	12 46 28	1036.0	-16.28	351.01
110.00	20 42 54	5204.86	33.48	233.31	208.27	97.32	22 9 39	4604.9	34.13	224.13

DIFFERENTIAL CORRECTIONS

TDE	-.6164	TRA	-2.1541	TC3	-.2258	BAU	.2647												
RDE	-.6713	RRA	.4109	RC3	-.0292	FAU	.01386												
FDE	.4295	FRA	1.1870	FC3	-.1380	BSP	4569												
BDE	.9114	BRA	2.1929	BC3	.2277	FSP	-184												

MID-COURSE EXECUTION ACCURACY

SGT	1495.8	SGR	492.8	SG3	73.2						
RRT	-.2529	RRF	.2554	RTF	-.8267						
SGB	1574.8	R23	-.0236	R13	.8278						
SG1	1501.5	SG2	474.9	THA	174.71						

ORBIT DETERMINATION ACCURACY

ST	582.2	SR	420.0	SS	486.6						
CRT	.5223	CRS	.6181	CST	.9922						
LSA	787.7	MSA	329.4	SSA	16.4						
EL1	622.9	EL2	323.3	ALF	30.24						

LAUNCH DATE SEP 23 1965 FLIGHT TIME 100.00 ARRIVAL DATE JAN 1 1966

HELIOCENTRIC CONIC DISTANCE 222.256

RL	150.11	LAL	-.00	LOL	359.76	VL	23.525	GAL	13.14	AZL	89.50	HCA	85.11	SMA	109.24	ECC	.42937	INC	.5038	VI	29.684
RP	107.70	LAP	.50	LOP	84.87	VP	35.351	GAP	-25.42	AZP	89.96	TAL	161.18	TAP	246.29	RCA	62.34	APO	156.15	V2	35.186
RC	51.675	GL	1.29	GP	-6.85	ZAL	49.27	ZAP	14.18	ETS	148.40	ZAE	142.51	ETE	192.40	ZAC	24.17	ETC	116.09	CLP	12.44

PLANETOCENTRIC CONIC

C3 79.917 VHL 8.940 DLA -16.37 RAL 312.59 RAD 6569.6 VEL 14.187 PTH 2.58 VHP 15.471 DPA -31.31 RAP 278.02 ECC 2.3152

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 16 23	2019.94	-14.42	29.52	194.11	114.64	10 50 3	1419.9	-10.98	22.53
90.00	17 50 56	5734.60	27.33	271.93	205.99	97.71	19 26 30	5134.6	28.12	263.35
100.00	11 28 32	1787.13	-16.04	11.62	193.33	115.56	11 58 19	1187.1	-12.47	4.65
100.00	19 21 28	5442.64	29.11	250.72	206.25	97.11	20 52 11	4842.6	29.79	241.98
110.00	12 16 26	1637.10	-20.24	358.00	191.09	118.15	12 43 43	1037.1	-16.32	351.07
110.00	20 50 4	5165.43	33.79	230.27	206.86	95.54	22 16 9	4565.4	34.18	221.05

DIFFERENTIAL CORRECTIONS

TDE	-.6226	TRA	-2.1664	TC3	-.2311	BAU	.2497												
RDE	-.6285	RRA	.4105	RC3	-.0353	FAU	.01423												
FDE	.4560	FRA	1.2325	FC3	-.1542	BSP	4796												
BDE	.8846	BRA	2.2049	BC3	.2337	FSP	-201												

MID-COURSE EXECUTION ACCURACY

SGT	1556.9	SGR	491.3	SG3	79.1						
RRT	-.2745	RRF	.2786	RTF	-.8373						
SGB	1632.6	R23	-.0267	R13	.8384						
SG1	1563.3	SG2	470.5	THA	174.55						

ORBIT DETERMINATION ACCURACY

ST	589.8	SR	411.1	SS	511.6						
CRT	.5157	CRS	.6190	CST	.9912						
LSA	819.4	MSA	327.1	SSA	16.5						
EL1	642.0	EL2	323.6	ALF	27.22						

LAUNCH DATE SEP 23 1965 FLIGHT TIME 102.00 ARRIVAL DATE JAN 3 1966

HELIOCENTRIC CONIC DISTANCE 228.918

RL 150.11 LAL -.00 LOL 359.76 VL 23.823 GAL 12.55 AZL 89.31 HCA 88.34 SMA 110.53 ECC .41160 INC .6907 V1 29.684
RP 107.67 LAP .69 LOP 88.10 VP 35.559 GAP -24.26 AZP 89.98 TAL 160.68 TAP 249.02 RCA 65.03 APO 156.02 V2 35.196
RC 50.062 GL 1.87 GP -7.23 ZAL 48.64 ZAP 13.21 ETS 144.12 ZAE 143.78 ETE 194.44 ZAC 25.46 ETC 119.40 CLP 11.08

PLANETOCENTRIC CONIC

C3 73.481 VHL 8.572 DLA -15.63 RAL 313.07 RAD 6569.4 VEL 13.958 PTH 2.55 VHP 14.843 DPA -31.67 RAP 280.20 ECC 2.2093

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 11 21	2027.42	-14.63	29.97	193.33	114.52	10 45 8	1427.4	-11.20	22.97
90.00	17 59 49	5688.25	27.71	268.59	204.69	96.08	19 34 37	5088.2	28.26	259.97
100.00	11 24 5	1792.73	-16.21	11.95	192.57	115.47	11 53 58	1192.7	-12.65	4.97
100.00	19 29 46	5398.17	29.44	247.45	204.88	95.43	20 59 44	4798.2	29.88	238.67
110.00	12 13 12	1638.89	-20.30	358.11	190.39	118.11	12 40 31	1038.9	-16.38	351.18
110.00	20 57 9	5124.77	34.01	227.12	205.31	93.69	22 22 33	4524.8	34.14	217.87

DIFFERENTIAL CORRECTIONS

TDE -.6282 TRA-2.1778 TC3 -.2353 BAU .2348
RDE -.5861 RRA .4103 RC3 -.0423 FAU .01464
FDE .4842 FRA 1.2806 FC3 -.1725 BSP 5028
BDE .8592 BRA 2.2161 BC3 .2390 FSP -220

MID-COURSE EXECUTION ACCURACY

SGT 1619.8 SGR 489.8 SG3 85.6
RRT -.2983 RRF .3045 RTF -.8472
SGB 1692.2 R23 -.0303 R13 .8484
SG1 1627.0 SG2 465.4 THA 174.38

ORBIT DETERMINATION ACCURACY

ST 618.1 SR 401.0 SS 537.9
CRT .5075 CRS .6183 CST .9901
LSA 852.6 MSA 324.0 SSA 16.6
EL1 662.5 EL2 322.4 ALF 24.33

LAUNCH DATE SEP 23 1965 FLIGHT TIME 104.00 ARRIVAL DATE JAN 5 1966

HELIOCENTRIC CONIC DISTANCE 235.613

RL 150.11 LAL -.00 LOL 359.76 VL 24.102 GAL 11.99 AZL 89.12 HCA 91.57 SMA 111.77 ECC .39461 INC .8773 V1 29.684
RP 107.64 LAP .88 LOP 91.33 VP 35.756 GAP -23.15 AZP 90.02 TAL 160.22 TAP 251.79 RCA 67.67 APO 155.88 V2 35.204
RC 48.537 GL 2.52 GP -7.65 ZAL 48.07 ZAP 12.35 ETS 139.04 ZAE 145.14 ETE 196.79 ZAC 26.84 ETC 122.34 CLP 9.72

PLANETOCENTRIC CONIC

C3 67.612 VHL 8.223 DLA -14.85 RAL 313.48 RAD 6569.3 VEL 13.746 PTH 2.51 VHP 14.235 DPA -32.04 RAP 282.40 ECC 2.1127

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 5 48	2035.80	-14.87	30.47	192.48	114.38	10 39 44	1435.8	-11.45	23.46
90.00	18 8 40	5640.58	28.01	265.13	203.25	94.37	19 42 40	5040.6	28.32	256.48
100.00	11 19 8	1799.21	-16.40	12.34	191.74	115.35	11 49 7	1199.2	-12.85	5.35
100.00	19 38 2	5352.40	29.69	244.07	203.38	93.66	21 7 14	4752.4	29.88	235.27
110.00	12 9 28	1641.53	-20.38	358.27	189.63	118.05	12 36 50	1041.5	-16.47	351.33
110.00	21 4 10	5082.85	34.14	223.85	203.63	91.76	22 28 53	4482.8	34.01	214.61

DIFFERENTIAL CORRECTIONS

TDE -.6331 TRA-2.1879 TC3 -.2380 BAU .2199
RDE -.5443 RRA .4106 RC3 -.0504 FAU .01510
FDE .5143 FRA 1.3315 FC3 -.1933 BSP 5267
BDE .8349 BRA 2.2261 BC3 .2433 FSP -241

MID-COURSE EXECUTION ACCURACY

SGT 1683.9 SGR 488.2 SG3 92.7
RRT -.3249 RRF .3333 RTF -.8567
SGB 1753.2 R23 -.0344 R13 .8580
SG1 1691.9 SG2 459.5 THA 174.19

ORBIT DETERMINATION ACCURACY

ST 647.0 SR 389.5 SS 565.5
CRT .4973 CRS .6160 CST .9890
LSA 887.4 MSA 320.0 SSA 16.7
EL1 684.3 EL2 319.6 ALF 21.60

LAUNCH DATE SEP 23 1965 FLIGHT TIME 106.00 ARRIVAL DATE JAN 7 1966

HELIOCENTRIC CONIC DISTANCE 242.338

RL 150.11 LAL -.00 LOL 359.76 VL 24.364 GAL 11.46 AZL 88.94 HCA 94.80 SMA 112.98 ECC .37840 INC 1.0645 V1 29.684
RP 107.62 LAP 1.06 LOP 94.57 VP 35.940 GAP -22.08 AZP 90.09 TAL 159.79 TAP 254.60 RCA 70.23 APO 155.73 V2 35.213
RC 47.108 GL 3.22 GP -8.11 ZAL 47.55 ZAP 11.62 ETS 133.06 ZAE 146.56 ETE 199.54 ZAC 28.32 ETC 124.96 CLP 8.35

PLANETOCENTRIC CONIC

C3 62.268 VHL 7.891 DLA -14.02 RAL 313.83 RAD 6569.2 VEL 13.551 PTH 2.48 VHP 13.646 DPA -32.43 RAP 284.61 ECC 2.0248

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 59 43	2045.29	-15.13	31.04	191.56	114.22	10 33 48	1445.3	-11.74	24.01
90.00	18 17 30	5591.54	28.21	261.56	201.68	92.59	19 50 41	4991.5	28.27	252.90
100.00	11 13 37	1806.81	-16.62	12.80	190.85	115.21	11 43 43	1206.8	-13.09	5.79
100.00	19 46 16	5305.26	29.84	240.58	201.76	91.83	21 14 41	4705.3	29.78	231.77
110.00	12 5 13	1645.21	-20.50	358.49	188.80	117.97	12 32 39	1045.2	-16.60	351.54
110.00	21 11 10	5039.62	34.18	220.47	201.83	89.76	22 35 10	4439.6	33.77	211.25

DIFFERENTIAL CORRECTIONS

TDE -.6375 TRA-2.1968 TC3 -.2391 BAU .2052
RDE -.5029 RRA .4115 RC3 -.0597 FAU .01560
FDE .5466 FRA 1.3855 FC3 -.2169 BSP 5509
BDE .8120 BRA 2.2350 BC3 .2465 FSP -263

MID-COURSE EXECUTION ACCURACY

SGT 1749.2 SGR 486.9 SG3 100.4
RRT -.3543 RRF .3653 RTF -.8657
SGB 1815.7 R23 -.0390 R13 .8671
SG1 1758.3 SG2 452.9 THA 173.97

ORBIT DETERMINATION ACCURACY

ST 676.5 SR 376.7 SS 594.7
CRT .4846 CRS .6114 CST .9877
LSA 923.9 MSA 315.2 SSA 16.7
EL1 707.3 EL2 315.2 ALF 19.01

AUNCH DATE SEP 23 1965 FLIGHT TIME 108.00 ARRIVAL DATE JAN 9 1966

HELIOCENTRIC CONIC DISTANCE 249.087

RL 150.11 LAL -.00 LOL 359.76 VL 24.608 GAL 10.94 AZL 88.75 HCA 98.04 SMA 114.14 ECC .36295 INC 1.2536 V1 29.684
RP 107.60 LAP 1.24 LOP 97.80 VP 36.114 GAP -21.04 AZP 90.18 TAL 159.41 TAP 257.45 RCA 72.71 APO 155.57 V2 35.220
RC 45.785 GL 4.00 GP -8.62 ZAL 47.10 ZAP 11.08 ETS 126.18 ZAE 148.01 ETE 202.74 ZAC 29.88 ETC 127.26 CLP 6.98

PLANETOCENTRIC CONIC

C3 57.409 VHL 7.577 DLA -13.13 RAL 314.10 RAD 6569.0 VEL 13.370 PTH 2.44 VHP 13.078 DPA -32.84 RAP 286.83 ECC 1.9448

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 53 3	2056.18	-15.44	31.69	190.59	114.04	10 27 19	1456.2	-12.06	24.64
90.00	18 26 21	5541.07	28.31	257.87	200.00	90.74	19 58 42	4941.1	28.11	249.21
100.00	11 7 33	1815.78	-16.88	13.34	189.90	115.04	11 37 49	1215.8	-13.36	6.31
100.00	19 54 32	5256.70	29.89	236.97	200.02	89.93	21 22 8	4656.7	29.56	228.18
110.00	12 0 25	1650.19	-20.66	358.79	187.92	117.86	12 27 56	1050.2	-16.77	351.82
110.00	21 18 9	4995.06	34.12	217.00	199.91	87.70	22 41 24	4395.1	33.42	207.82

DIFFERENTIAL CORRECTIONS

TDE -.6418 TRA-2.2050 TC3 -.2387 BAU .1910
RDE -.4618 RRA .4134 RC3 -.0702 FAU .01614
FDE .5817 FRA 1.4431 FC3 -.2434 BSP 5745
BDE .7907 BRA 2.2434 BC3 .2488 FSP -288

MID-COURSE EXECUTION ACCURACY

SGT 1816.0 SGR 486.1 SG3 108.8
RRT -.3869 RRF .4009 RTF -.8741
SGB 1880.0 R23 -.0444 R13 .8756
SG1 1826.4 SG2 445.7 THA 173.71

ORBIT DETERMINATION ACCURACY

ST 706.8 SR 362.2 SS 625.7
CRT .4689 CRS .6042 CST .9864
LSA 962.3 MSA 309.5 SSA 16.8
EL1 731.6 EL2 309.1 ALF 16.55

LAUNCH DATE SEP 23 1965 FLIGHT TIME 110.00 ARRIVAL DATE JAN 11 1966

HELIOCENTRIC CONIC DISTANCE 255.857

RL	150.11	LAL	-.00	LOL	359.76	VL	24.837	GAL	10.45	AZL	88.55	HCA	101.28	SMA	115.26	ECC	.34826	INC	1.4457	V1	29.684
RP	107.57	LAP	1.42	LOP	101.04	VP	36.277	GAP	-20.03	AZP	90.28	TAL	159.06	TAP	260.33	RCA	75.12	APO	155.41	V2	35.227
RC	44.580	GL	4.86	GP	-9.19	ZAL	46.71	ZAP	10.75	ETS	118.49	ZAE	149.47	ETE	206.49	ZAC	31.52	ETC	129.28	CLP	5.59

PLANETOCENTRIC CONIC

C3	52.998	VHL	7.280	DLA	-12.19	RAL	314.30	RAD	6568.9	VEL	13.204	PTH	2.41	VHP	12.529	DPA	-33.28	RAP	289.06	ECC	1.8722

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 45 44	2068.76	-15.78	32.45	189.57	113.82	10 20 13	1468.8	-12.43	25.38
90.00	18 35 15	5489.09	28.30	254.07	198.22	88.84	20 6 45	4889.1	27.83	245.43
100.00	11 0 51	1826.42	-17.18	13.98	188.91	114.84	11 31 17	1226.4	-13.69	6.93
100.00	20 2 50	5206.66	29.83	233.25	198.17	87.98	21 29 36	4606.7	29.23	224.50
110.00	11 55 2	1656.74	-20.87	359.18	186.99	117.71	12 22 38	1056.7	-16.99	352.20
110.00	21 25 8	4949.11	33.93	213.42	197.90	85.59	22 47 37	4349.1	32.95	204.32

DIFFERENTIAL CORRECTIONS

TDE	-.6460	TRA	-2.2117	TC3	-.2361	BAU	.1771												
RDE	-.4209	RRA	.4164	RC3	-.0822	FAU	.01674												
FDE	.6197	FRA	1.5046	FC3	-.2734	BSP	5990												
BDE	.7710	BRA	2.2506	BC3	.2500	FSP	-315												

MID-COURSE EXECUTION ACCURACY

SGT	1883.6	SGR	486.3	SG3	118.0						
RRT	-.4230	RRF	.4402	RTF	-.8821						
SGB	1945.4	R23	-.0505	R13	.8838						
SG1	1895.5	SG2	437.9	THA	173.41						

ORBIT DETERMINATION ACCURACY

ST	737.6	SR	346.2	SS	658.5						
CRT	.4493	CRS	.5933	CST	.9851						
LSA	1002.7	MSA	303.2	SSA	16.9						
EL1	757.0	EL2	301.4	ALF	14.20						

LAUNCH DATE SEP 23 1965 FLIGHT TIME 112.00 ARRIVAL DATE JAN 13 1966

HELIOCENTRIC CONIC DISTANCE 262.645

RL	150.11	LAL	-.00	LOL	359.76	VL	25.050	GAL	9.98	AZL	88.36	HCA	104.51	SMA	116.34	ECC	.33431	INC	1.6424	V1	29.684
RP	107.55	LAP	1.59	LOP	104.28	VP	36.430	GAP	-19.06	AZP	90.41	TAL	158.75	TAP	263.26	RCA	77.45	APO	155.23	V2	35.234
RC	43.503	GL	5.80	GP	-9.83	ZAL	46.39	ZAP	10.68	ETS	110.26	ZAE	150.88	ETE	210.87	ZAC	33.23	ETC	131.03	CLP	4.18

PLANETOCENTRIC CONIC

C3	49.004	VHL	7.000	DLA	-11.17	RAL	314.43	RAD	6568.8	VEL	13.052	PTH	2.38	VHP	11.999	DPA	-33.75	RAP	291.30	ECC	1.8065

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 37 44	2083.35	-16.18	33.34	188.51	113.56	10 12 28	1483.4	-12.86	26.24
90.00	18 44 16	5435.51	28.16	250.16	196.34	86.88	20 14 51	4835.5	27.43	241.57
100.00	10 53 28	1839.04	-17.54	14.74	187.88	114.60	11 24 7	1239.0	-14.08	7.66
100.00	20 11 13	5155.06	29.64	229.42	196.23	85.97	21 37 8	4555.1	28.77	220.73
110.00	11 49 0	1665.15	-21.13	359.69	186.02	117.51	12 16 45	1065.1	-17.28	352.68
110.00	21 32 11	4901.71	33.62	209.75	195.80	83.44	22 53 52	4301.7	32.35	200.75

DIFFERENTIAL CORRECTIONS

TDE	-.6504	TRA	-2.2175	TC3	-.2313	BAU	.1641												
RDE	-.3800	RRA	.4209	RC3	-.0959	FAU	.01739												
FDE	.6613	FRA	1.5704	FC3	-.3072	BSP	6236												
BDE	.7533	BRA	2.2571	BC3	.2504	FSP	-345												

MID-COURSE EXECUTION ACCURACY

SGT	1952.1	SGR	487.9	SG3	128.0						
RRT	-.4626	RRF	.4835	RTF	-.8896						
SGB	2012.2	R23	-.0575	R13	.8915						
SG1	1965.8	SG2	429.6	THA	173.07						

ORBIT DETERMINATION ACCURACY

ST	769.1	SR	328.4	SS	693.6						
CRT	.4242	CRS	.5775	CST	.9837						
LSA	1045.2	MSA	296.1	SSA	16.9						
EL1	783.7	EL2	291.9	ALF	11.95						

LAUNCH DATE SEP 23 1965 FLIGHT TIME 114.00 ARRIVAL DATE JAN 15 1966

HELIOCENTRIC CONIC DISTANCE 269.445

RL	150.11	LAL	-.00	LOL	359.76	VL	25.249	GAL	9.53	AZL	88.16	HCA	107.75	SMA	117.37	ECC	.32109	INC	1.8449	V1	29.684
RP	107.54	LAP	1.76	LOP	107.52	VP	36.572	GAP	-18.12	AZP	90.56	TAL	158.48	TAP	266.23	RCA	79.68	APO	155.05	V2	35.239
RC	42.563	GL	6.83	GP	-10.54	ZAL	46.15	ZAP	10.90	ETS	101.91	ZAE	152.17	ETE	215.97	ZAC	35.00	ETC	132.55	CLP	2.77

PLANETOCENTRIC CONIC

C3	45.397	VHL	6.738	DLA	-10.08	RAL	314.48	RAD	6568.7	VEL	12.914	PTH	2.35	VHP	11.489	DPA	-34.27	RAP	293.54	ECC	1.7471

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 29 0	2100.33	-16.64	34.37	187.43	113.25	10 4 0	1500.3	-13.35	27.24
90.00	18 53 24	5380.23	27.89	246.14	194.38	84.88	20 23 4	4780.2	26.89	237.61
100.00	10 45 21	1853.98	-17.96	15.65	186.82	114.30	11 16 15	1254.0	-14.53	8.54
100.00	20 19 44	5101.81	29.33	225.50	194.22	83.93	21 44 45	4501.8	28.18	216.88
110.00	11 42 17	1675.74	-21.46	.33	185.02	117.27	12 10 12	1075.7	-17.64	353.29
110.00	21 39 18	4852.81	33.18	206.00	193.63	81.27	23 0 11	4252.8	31.62	197.13

DIFFERENTIAL CORRECTIONS

TDE	-.6547	TRA	-2.2221	TC3	-.2237	BAU	.1517												
RDE	-.3389	RRA	.4273	RC3	-.1113	FAU	.01809												
FDE	.7069	FRA	1.6408	FC3	-.3451	BSP	6484												
BDE	.7372	BRA	2.2628	BC3	.2499	FSP	-377												

MID-COURSE EXECUTION ACCURACY

SGT	2021.0	SGR	491.7	SG3	138.9						
RRT	-.5058	RRF	.5305	RTF	-.8968						
SGB	2079.9	R23	-.0653	R13	.8988						
SG1	2036.9	SG2	420.8	THA	172.67						

ORBIT DETERMINATION ACCURACY

ST	801.0	SR	308.8	SS	731.0						
CRT	.3912	CRS	.5547	CST	.9822						
LSA	1089.8	MSA	288.5	SSA	17.0						
EL1	811.3	EL2	280.6	ALF	9.75						

LAUNCH DATE SEP 23 1965 FLIGHT TIME 116.00 ARRIVAL DATE JAN 17 1966

HELIOCENTRIC CONIC DISTANCE 276.256

RL	150.11	LAL	-.00	LOL	359.76	VL	25.435	GAL	9.10	AZL	87.94	HCA	110.99	SMA	118.35	ECC	.30858	INC	2.0550	V1	29.684
RP	107.52	LAP	1.92	LOP	110.76	VP	36.705	GAP	-17.21	AZP	90.74	TAL	158.25	TAP	269.24	RCA	81.83	APO	154.87	V2	35.244
RC	41.769	GL	7.97	GP	-11.34	ZAL	45.99	ZAP	11.42	ETS	93.89	ZAE	153.27	ETE	221.82	ZAC	36.83	ETC	133.85	CLP	1.33

PLANETOCENTRIC CONIC

C3	42.152	VHL	6.492	DLA	-8.90	RAL	314.45	RAD	6568.6	VEL	12.787	PTH	2.33	VHP	10.998	DPA	-34.85	RAP	295.80	ECC	1.6937

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 19 27	2120.09	-17.17	35.59	186.32	112.87	9 54 47	1520.1	-13.92	28.41
90.00	19 2 44	5323.13	27.47	242.01	192.35	82.85	20 31 27	4723.1	26.20	233.57
100.00	10 36 27	1871.65	-18.46	16.73	185.74	113.94	11 7 39	1271.7	-15.06	9.58
100.00	20 28 25	5046.79	28.86	221.47	192.14	81.86	21 52 31	4446.8	27.44	212.96
110.00	11 34 49	1688.89	-21.87	1.14	184.01	116.95	12 2 58	1088.9	-18.08	354.05
110.00	21 46 32	4802.32	32.59	202.18	191.41	79.08	23 6 34	4202.3	30.74	193.45

DIFFERENTIAL CORRECTIONS

TDE	-.6607	TRA	-2.2255	TC3	-.2132	BAU	.1403												
RDE	-.2974	RRA	.4360	RC3	-.1287	FAU	.01886												
FDE	.7574	FRA	1.7162	FC3	-.3873	BSP	6712												
BDE	.7245	BRA	2.2678	BC3	.2490	FSP	-413												

MID-COURSE EXECUTION ACCURACY

SGT	2090.0	SGR	498.4	SG3	150.9						
RRT	-.5519	RRF	.5809	RTF	-.9036						
SGB	2148.7	R23	-.0744	R13	.9059						
SG1	2108.8	SG2	412.0	THA	172.20						

ORBIT DETERMINATION ACCURACY

ST	834.1	SR	287.3	SS	771.1						
CRT	.3479	CRS	.5216	CST	.9808						
LSA	1137.6	MSA	280.1	SSA	17.0						
EL1	840.7	EL2	267.2	ALF	7.61						

LAUNCH DATE SEP 23 1965 FLIGHT TIME 118.00 ARRIVAL DATE JAN 19 1966

HELIOCENTRIC CONIC DISTANCE 283.073

RL	150.11	LAL	-.00	LOL	359.76	VL	25,607	GAL	8.70	AZL	87.73	HCA	114.23	SMA	119.29	ECC	.29676	INC	2.2745	V1	29.684
RP	107.51	LAP	2.07	LOP	114.01	VP	36,829	GAP	-16.33	AZP	90.93	TAL	158.07	TAP	272.29	RCA	83.89	APO	154.69	V2	35.249
RC	41.131	GL	9.23	GP	-12.24	ZAL	45.92	ZAP	12.25	ETS	86.60	ZAE	154.08	ETE	228.40	ZAC	38.72	ETC	134.95	CLP	-.13

PLANETOCENTRIC CONIC

C3	39.246	VHL	6.265	DLA	-7.62	RAL	314.34	RAD	6568.5	VEL	12.673	PTH	2.30	VHP	10.527	DPA	-35.50	RAP	298.07	ECC	1.6459

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 9 0	2143.08	-17.77	37.00	185.22	112.41	9 44 43	1543.1	-14.58	29.78
90.00	19 12 19	5264.07	26.90	237.78	190.28	80.81	20 40 3	4664.1	25.35	229.45
100.00	10 26 40	1892.48	-19.03	18.02	184.66	113.50	10 58 13	1292.5	-15.69	10.82
100.00	20 37 19	4989.89	28.24	217.36	190.02	79.78	22 0 29	4389.9	26.54	208.97
110.00	11 26 33	1705.00	-22.37	2.12	182.99	116.55	11 54 58	1105.0	-18.62	354.99
110.00	21 53 56	4750.14	31.85	198.29	189.16	76.89	23 13 6	4150.1	29.72	189.73

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-.6658	TRA	-2.2274	TC3	-.1995	BAU	.1304	SGT	2158.2	SGR	509.2	SG3	163.9	ST	866.6	SR	264.0	SS	814.4
RDE	-.2548	RRA	.4475	RC3	-.1482	FAU	.01967	RRT	-.6009	RRF	.6338	RTF	-.9099	CRT	.2866	CRS	.4727	CST	.9792
FDE	.8138	FRA	1.7972	FC3	-.4339	BSP	6979	SGB	2217.5	R23	-.0840	R13	.9126	LSA	1187.4	MSA	271.6	SSA	16.9
BDE	.7129	BRA	2.2720	BC3	.2485	FSP	-452	SG1	2180.6	SG2	402.8	THA	171.64	EL1	870.2	EL2	251.9	ALF	5.45

LAUNCH DATE SEP 23 1965 FLIGHT TIME 120.00 ARRIVAL DATE JAN 21 1966

HELIOCENTRIC CONIC DISTANCE 289.893

RL	150.11	LAL	-.00	LOL	359.76	VL	25.768	GAL	8.31	AZL	87.49	HCA	117.47	SMA	120.18	ECC	.28562	INC	2.5055	V1	29.684
RP	107.50	LAP	2.22	LOP	117.25	VP	36,945	GAP	-15.48	AZP	91.16	TAL	157.92	TAP	275.38	RCA	85.86	APO	154.51	V2	35.252
RC	40.657	GL	10.61	GP	-13.26	ZAL	45.95	ZAP	13.36	ETS	80.25	ZAE	154.52	ETE	235.59	ZAC	40.68	ETC	135.86	CLP	-1.62

PLANETOCENTRIC CONIC

C3	36.659	VHL	6.055	DLA	-6.24	RAL	314.15	RAD	6568.4	VEL	12.571	PTH	2.28	VHP	10.076	DPA	-36.24	RAP	300.35	ECC	1.6033

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 57 34	2169.81	-18.46	38.67	184.13	111.86	9 33 43	1569.8	-15.33	31.39
90.00	19 22 13	5202.88	26.16	233.45	188.18	78.76	20 48 56	4602.9	24.35	225.26
100.00	10 15 56	1916.96	-19.68	19.54	183.59	112.96	10 47 53	1317.0	-16.40	12.28
100.00	20 46 31	4930.96	27.46	213.15	187.87	77.70	22 8 42	4331.0	25.49	204.91
110.00	11 17 24	1724.52	-22.96	3.33	181.99	116.05	11 46 9	1124.5	-19.26	356.14
110.00	22 1 33	4696.16	30.95	194.34	186.89	74.71	23 19 49	4096.2	28.54	185.97

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-.6733	TRA	-2.2293	TC3	-.1834	BAU	.1226	SGT	2226.8	SGR	525.4	SG3	178.1	ST	900.7	SR	239.4	SS	861.0
RDE	-.2109	RRA	.4625	RC3	-.1701	FAU	.02053	RRT	-.6507	RRF	.6877	RTF	-.9158	CRT	.1999	CRS	.3988	CST	.9778
FDE	.8767	FRA	1.8838	FC3	-.4849	BSP	7226	SGB	2287.9	R23	-.0954	R13	.9188	LSA	1241.2	MSA	262.7	SSA	16.8
BDE	.7055	BRA	2.2767	BC3	.2501	FSP	-494	SG1	2253.7	SG2	394.2	THA	170.99	EL1	902.1	EL2	234.2	ALF	3.26

LAUNCH DATE SEP 23 1965 FLIGHT TIME 122.00 ARRIVAL DATE JAN 23 1966

HELIOCENTRIC CONIC DISTANCE 296.714

RL	150.11	LAL	-.00	LOL	359.76	VL	25.917	GAL	7.94	AZL	87.25	HCA	120.71	SMA	121.03	ECC	.27514	INC	2.7505	V1	29.684
RP	107.49	LAP	2.36	LOP	120.50	VP	37,052	GAP	-14.65	AZP	91.41	TAL	157.80	TAP	278.51	RCA	87.73	APO	154.33	V2	35.255
RC	40.351	GL	12.13	GP	-14.42	ZAL	46.09	ZAP	14.75	ETS	74.92	ZAE	154.48	ETE	243.12	ZAC	42.71	ETC	136.59	CLP	-3.14

PLANETOCENTRIC CONIC

C3	34.376	VHL	5.863	DLA	-4.74	RAL	313.87	RAD	6568.4	VEL	12.480	PTH	2.26	VHP	9.647	DPA	-37.09	RAP	302.66	ECC	1.5657

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 45 3	2200.84	-19.23	40.61	183.06	111.19	9 21 43	1600.8	-16.18	33.27
90.00	19 32 30	5139.37	25.24	229.03	186.07	76.72	20 58 10	4539.4	23.17	220.98
100.00	10 4 9	1945.63	-20.43	21.34	182.56	112.30	10 36 35	1345.6	-17.23	14.01
100.00	20 56 5	4869.82	26.50	208.86	185.73	75.64	22 17 14	4269.8	24.26	200.78
110.00	11 7 18	1747.96	-23.65	4.80	181.02	115.43	11 36 26	1148.0	-20.03	357.53
110.00	22 9 26	4640.25	29.88	190.34	184.63	72.57	23 26 46	4040.3	27.20	182.18

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-.6825	TRA	-2.2302	TC3	-.1637	BAU	.1168	SGT	2294.3	SGR	548.6	SG3	193.5	ST	935.6	SR	214.7	SS	911.4
RDE	-.1649	RRA	.4816	RC3	-.1945	FAU	.02145	RRT	-.7003	RRF	.7411	RTF	-.9214	CRT	.0725	CRS	.2841	CST	.9764
FDE	.9474	FRA	1.9765	FC3	-.5403	BSP	7474	SGB	2359.0	R23	-.1079	R13	.9249	LSA	1298.9	MSA	253.8	SSA	16.7
BDE	.7021	BRA	2.2816	BC3	.2542	FSP	-541	SG1	2327.2	SG2	386.1	THA	170.22	EL1	935.7	EL2	214.1	ALF	1.01

LAUNCH DATE SEP 23 1965 FLIGHT TIME 124.00 ARRIVAL DATE JAN 25 1966

HELIOCENTRIC CONIC DISTANCE 303.533

RL	150.11	LAL	-.00	LOL	359.76	VL	26.056	GAL	7.59	AZL	86.99	HCA	123.95	SMA	121.83	ECC	.26530	INC	3.0127	V1	29.684
RP	107.48	LAP	2.50	LOP	123.75	VP	37,151	GAP	-13.85	AZP	91.68	TAL	157.73	TAP	281.68	RCA	89.51	APO	154.15	V2	35.257
RC	40.219	GL	13.80	GP	-15.73	ZAL	46.35	ZAP	16.40	ETS	70.56	ZAE	153.93	ETE	250.65	ZAC	44.81	ETC	137.15	CLP	-4.68

PLANETOCENTRIC CONIC

C3	32.386	VHL	5.691	DLA	-3.10	RAL	313.50	RAD	6568.3	VEL	12.400	PTH	2.24	VHP	9.239	DPA	-38.08	RAP	305.01	ECC	1.5330

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 31 19	2236.84	-20.10	42.90	182.06	110.37	9 8 36	1636.8	-17.15	35.47
90.00	19 43 18	5073.29	24.13	224.51	183.98	74.72	21 7 51	4473.3	21.80	216.61
100.00	9 51 13	1979.12	-21.28	23.46	181.57	111.50	10 24 12	1379.1	-18.18	16.05
100.00	21 6 5	4806.25	25.35	204.49	183.60	73.61	22 26 12	4206.3	22.86	196.58
110.00	10 56 8	1775.88	-24.45	6.57	180.11	114.67	11 25 44	1175.9	-20.92	359.21
110.00	22 17 39	4582.26	28.63	186.29	182.40	70.47	23 34 2	3982.3	25.70	178.34

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-.6942	TRA	-2.2302	TC3	-.1414	BAU	.1138	SGT	2360.2	SGR	580.8	SG3	210.1	ST	971.4	SR	192.6	SS	965.9
RDE	-.1159	RRA	.5058	RC3	-.2215	FAU	.02240	RRT	-.7475	RRF	.7919	RTF	-.9267	CRT	-.1154	CRS	.1053	CST	.9752
FDE	1.0273	FRA	2.0751	FC3	-.5988	BSP	7716	SGB	2430.6	R23	-.1216	R13	.9307	LSA	1361.3	MSA	245.2	SSA	16.4
BDE	.7038	BRA	2.2868	BC3	.2628	FSP	-591	SG1	2400.9	SG2	379.2	THA	169.31	EL1	971.6	EL2	191.2	ALF	178.64

LAUNCH DATE SEP 23 1965 FLIGHT TIME 126.00 ARRIVAL DATE JAN 27 1966

HELIOCENTRIC CONIC DISTANCE 310.346

RL 150.11 LAL -.00 LOL 359.76 VL 26.184 GAL 7.26 AZL 86.70 HCA 127.19 SMA 122.58 ECC .25608 INC 3.2956 V1 29.684
RP 107.48 LAP 2.62 LOP 126.99 VP 37.242 GAP -13.07 AZP 91.99 TAL 157.69 TAP 284.88 RCA 91.19 APO 153.97 V2 35.259
RC 40.263 GL 15.64 GP -17.23 ZAL 46.75 ZAP 18.30 ETS 67.08 ZAE 152.83 ETE 257.78 ZAC 46.99 ETC 137.55 CLP -6.27

PLANETOCENTRIC CONIC

C3 30.681 VHL 5.539 DLA -1.32 RAL 313.04 RAD 6568.2 VEL 12.331 PTH 2.22 VHP 8.855 DPA -39.22 RAP 307.40 ECC 1.5049

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 16 13	2278.56	-21.07	45.58	181.13	109.37	8 54 12	1678.6	-18.23	38.05
90.00	19 54 42	5004.37	22.82	219.89	181.92	72.76	21 18 6	4404.4	20.24	212.16
100.00	9 36 57	2018.15	-22.24	25.97	180.67	110.51	10 10 35	1418.2	-19.25	18.45
100.00	21 16 39	4740.02	24.00	200.03	181.51	71.63	22 35 39	4140.0	21.27	192.30
110.00	10 43 47	1808.93	-25.38	8.70	179.28	113.71	11 13 56	1208.9	-21.95	1.22
110.00	22 26 19	4522.00	27.19	182.20	180.23	68.43	23 41 41	3922.0	24.01	174.47

DIFFERENTIAL CORRECTIONS
TDE -.7063 TRA-2.2271 TC3 -.1127 BAU .1130
RDE -.0631 RRA .5359 RC3 -.2514 FAU .02342
FDE 1.1164 FRA 2.1779 FC3 -.6609 BSP .8020
BDE .7091 BRA 2.2907 BC3 .2756 FSP -.647

MID-COURSE EXECUTION ACCURACY
SGT 2420.6 SGR 624.0 SG3 227.7
RRT -.7914 RRF .8380 RTF -.9318
SGB 2499.7 R23 -.1350 R13 .9365
SG1 2471.7 SG2 373.5 THA 168.20

ORBIT DETERMINATION ACCURACY
ST 1005.8 SR 178.9 SS 1023.9
CRT -.3741 CRS -.1559 CST .9739
LSA 1426.7 MSA 237.4 SSA 16.0
EL1 1008.1 EL2 165.5 ALF 176.09

LAUNCH DATE SEP 23 1965 FLIGHT TIME 128.00 ARRIVAL DATE JAN 29 1966

HELIOCENTRIC CONIC DISTANCE 317.153

RL 150.11 LAL -.00 LOL 359.76 VL 26.303 GAL 6.95 AZL 86.40 HCA 130.43 SMA 123.29 ECC .24745 INC 3.6039 V1 29.684
RP 107.48 LAP 2.74 LOP 130.24 VP 37.326 GAP -12.32 AZP 92.34 TAL 157.68 TAP 288.11 RCA 92.78 APO 153.80 V2 35.259
RC 40.482 GL 17.66 GP -18.95 ZAL 47.31 ZAP 20.47 ETS 64.36 ZAE 151.19 ETE 264.23 ZAC 49.28 ETC 137.80 CLP -7.89

PLANETOCENTRIC CONIC

C3 29.261 VHL 5.409 DLA .62 RAL 312.48 RAD 6568.2 VEL 12.273 PTH 2.21 VHP 8.497 DPA -40.56 RAP 309.86 ECC 1.4816

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 59 35	2326.90	-22.13	48.72	180.31	108.14	8 38 22	1726.9	-19.44	41.08
90.00	20 6 52	4932.28	21.29	215.16	179.94	70.87	21 29 4	4332.3	18.48	207.60
100.00	9 21 13	2063.58	-23.29	28.93	179.88	109.29	9 55 37	1463.6	-20.45	21.29
100.00	21 27 55	4670.83	22.44	195.48	179.49	69.72	22 45 46	4070.8	19.48	187.94
110.00	10 30 8	1847.89	-26.42	11.24	178.56	112.53	11 0 56	1247.9	-23.13	3.63
110.00	22 35 30	4459.29	25.55	178.06	178.13	66.48	23 49 49	3859.3	22.14	170.56

DIFFERENTIAL CORRECTIONS
TDE -.7252 TRA-2.2265 TC3 -.0856 BAU .1159
RDE -.0043 RRA .5737 RC3 -.2837 FAU .02437
FDE 1.2189 FRA 2.2866 FC3 -.7209 BSP .8263
BDE .7252 BRA 2.2992 BC3 .2963 FSP -.704

MID-COURSE EXECUTION ACCURACY
SGT 2482.1 SGR 680.8 SG3 246.5
RRT -.8293 RRF .8779 RTF -.9364
SGB 2573.8 R23 -.1496 R13 .9420
SG1 2546.9 SG2 370.8 THA 166.90

ORBIT DETERMINATION ACCURACY
ST 1044.3 SR 182.6 SS 1087.8
CRT -.6579 CRS -.4687 CST .9731
LSA 1501.4 MSA 230.1 SSA 15.5
EL1 1051.3 EL2 136.6 ALF 173.32

LAUNCH DATE SEP 23 1965 FLIGHT TIME 130.00 ARRIVAL DATE JAN 31 1966

HELIOCENTRIC CONIC DISTANCE 323.950

RL 150.11 LAL -.00 LOL 359.76 VL 26.413 GAL 6.65 AZL 86.06 HCA 133.67 SMA 123.96 ECC .23941 INC 3.9434 V1 29.684
RP 107.48 LAP 2.85 LOP 133.49 VP 37.404 GAP -11.59 AZP 92.72 TAL 157.71 TAP 291.38 RCA 94.28 APO 153.64 V2 35.259
RC 40.875 GL 19.89 GP -20.93 ZAL 48.04 ZAP 22.92 ETS 62.28 ZAE 149.07 ETE 269.79 ZAC 51.69 ETC 137.91 CLP -9.55

PLANETOCENTRIC CONIC

C3 28.132 VHL 5.304 DLA 2.75 RAL 311.81 RAD 6568.1 VEL 12.227 PTH 2.20 VHP 8.168 DPA -42.12 RAP 312.42 ECC 1.4630

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 41 10	2382.93	-23.27	52.44	179.64	106.61	8 20 53	1782.9	-20.77	44.65
90.00	20 19 58	4856.58	19.52	210.31	178.06	69.07	21 40 54	4256.6	16.50	202.93
100.00	9 3 47	2116.42	-24.43	32.44	179.24	107.78	9 39 4	1516.4	-21.77	24.66
100.00	21 40 2	4598.32	20.66	190.84	177.58	67.90	22 56 40	3998.3	17.48	183.49
110.00	10 14 59	1893.62	-27.57	14.30	178.01	111.05	10 46 32	1293.6	-24.46	6.51
110.00	22 45 20	4393.88	23.70	173.87	176.14	64.62	23 58 34	3793.9	20.09	166.60

DIFFERENTIAL CORRECTIONS
TDE -.7492 TRA-2.2258 TC3 -.0575 BAU .1215
RDE .0622 RRA .6205 RC3 -.3180 FAU .02524
FDE 1.3351 FRA 2.3981 FC3 -.7767 BSP .8496
BDE .7518 BRA 2.3107 BC3 .3232 FSP -.764

MID-COURSE EXECUTION ACCURACY
SGT 2540.3 SGR 754.1 SG3 266.1
RRT -.8609 RRF .9108 RTF -.9407
SGB 2649.9 R23 -.1635 R13 .9474
SG1 2623.7 SG2 371.4 THA 165.36

ORBIT DETERMINATION ACCURACY
ST 1084.7 SR 212.5 SS 1156.7
CRT -.8668 CRS -.7289 CST .9727
LSA 1584.0 MSA 224.0 SSA 14.8
EL1 1100.3 EL2 104.5 ALF 170.27

LAUNCH DATE SEP 23 1965 FLIGHT TIME 132.00 ARRIVAL DATE FEB 2 1966

HELIOCENTRIC CONIC DISTANCE 330.735

RL 150.11 LAL -.00 LOL 359.76 VL 26.514 GAL 6.38 AZL 85.68 HCA 136.90 SMA 124.58 ECC .23193 INC 4.3218 V1 29.684
RP 107.48 LAP 2.95 LOP 136.74 VP 37.474 GAP -10.88 AZP 93.16 TAL 157.76 TAP 294.66 RCA 95.69 APO 153.48 V2 35.258
RC 41.437 GL 22.33 GP -23.21 ZAL 48.96 ZAP 25.66 ETS 60.75 ZAE 146.48 ETE 274.40 ZAC 54.25 ETC 137.88 CLP -11.25

PLANETOCENTRIC CONIC

C3 27.309 VHL 5.226 DLA 5.07 RAL 311.03 RAD 6568.1 VEL 12.194 PTH 2.19 VHP 7.872 DPA -43.95 RAP 315.13 ECC 1.4494

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 20 39	2447.97	-24.46	56.83	179.16	104.73	8 1 27	1848.0	-22.20	48.89
90.00	20 34 15	4776.75	17.50	205.32	176.32	67.38	21 53 52	4176.8	14.29	198.12
100.00	8 44 23	2177.91	-25.65	36.61	178.80	105.91	9 20 41	1577.9	-23.22	28.65
100.00	21 53 13	4522.05	18.63	186.08	175.81	66.19	23 8 35	3922.0	15.26	178.91
110.00	9 58 6	1947.20	-28.83	17.96	177.67	109.22	10 30 33	1347.2	-25.94	9.97
110.00	22 55 59	4325.52	21.64	169.64	174.28	62.87	24 8 5	3725.5	17.83	162.58

DIFFERENTIAL CORRECTIONS
TDE -.7789 TRA-2.2249 TC3 -.0284 BAU .1296
RDE .1392 RRA .6780 RC3 -.3539 FAU .02600
FDE 1.4657 FRA 2.5084 FC3 -.8243 BSP .8752
BDE .7913 BRA 2.3259 BC3 .3551 FSP -.826

MID-COURSE EXECUTION ACCURACY
SGT 2593.8 SGR 846.8 SG3 285.9
RRT -.8864 RRF .9367 RTF -.9448
SGB 2728.5 R23 -.1753 R13 .9528
SG1 2702.5 SG2 376.2 THA 163.53

ORBIT DETERMINATION ACCURACY
ST 1126.6 SR 271.2 SS 1229.8
CRT -.9651 CRS -.8790 CST .9725
LSA 1675.3 MSA 219.5 SSA 13.9
EL1 1156.7 EL2 69.2 ALF 166.87

LAUNCH DATE SEP 23 1965 FLIGHT TIME 134.00 ARRIVAL DATE FEB 4 1966

HELIOCENTRIC CONIC DISTANCE 337.506

RL	150.11	LAL	-.00	LOL	359.76	VL	26.607	GAL	6.12	AZL	85.25	HCA	140.14	SMA	125.17	ECC	.22499	INC	4.7487	V1	29.684
RP	107.49	LAP	3.04	LOP	140.00	VP	37.539	GAP	-10.19	AZP	93.65	TAL	157.84	TAP	297.98	RCA	97.00	APO	153.33	V2	35.256
RC	42.162	GL	25.02	GP	-25.85	ZAL	50.10	ZAP	28.73	ETS	59.66	ZAE	143.47	ETE	278.10	ZAC	56.99	ETC	137.73	CLP	-13.00

PLANETOCENTRIC CONIC

C3	26.824	VHL	5.179	DLA	7.60	RAL	310.13	RAD	6568.1	VEL	12.174	PTH	2.18	VHP	7.615	DPA	-46.09	RAP	318.05	ECC	1.4415

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 57 38	2523.73	-25.67	62.05	178.92	102.38	7 39 42	1923.7	-23.71	53.93
90.00	20 50 4	4692.08	15.21	200.16	174.77	65.82	22 8 16	4092.1	11.82	193.12
100.00	8 22 38	2249.59	-26.89	41.57	178.61	103.57	9 0 8	1649.6	-24.76	33.42
100.00	22 7 45	4441.46	16.35	181.19	174.23	64.62	23 21 47	3841.5	12.79	174.20
110.00	9 39 13	2009.91	-30.15	22.36	177.60	106.92	10 12 43	1409.9	-27.54	14.14
110.00	23 7 39	4253.94	19.36	165.34	172.61	61.26	24 18 33	3653.9	15.37	158.48

DIFFERENTIAL CORRECTIONS

TOE	-.8149	TRA	-2.2229	TC3	.0023	BAU	.1400
RDE	.2304	RRA	.7482	RC3	-.3904	FAU	.02659
FOE	1.6107	FRA	2.6119	FC3	-.8581	BSP	9061
BOE	.8468	BRA	2.3455	BC3	.3904	FSP	-889

MID-COURSE EXECUTION ACCURACY

SGT	2639.6	SGR	962.2	SG3	305.0		
RRT	-.9066	RRF	.9562	RTF	-.9487		
SGB	2809.5	R23	-.1832	R13	.9583		
SG1	2783.0	SG2	385.2	THA	161.34		

ORBIT DETERMINATION ACCURACY

ST	1169.0	SR	357.6	SS	1306.1		
CRT	-.9957	CRS	-.9489	CST	.9727		
LSA	1775.7	MSA	216.9	SSA	12.8		
EL1	1222.1	EL2	31.7	ALF	163.05		

LAUNCH DATE SEP 23 1965 FLIGHT TIME 136.00 ARRIVAL DATE FEB 6 1966

HELIOCENTRIC CONIC DISTANCE 344.262

RL	150.11	LAL	-.00	LOL	359.76	VL	26.693	GAL	5.88	AZL	84.76	HCA	143.37	SMA	125.71	ECC	.21857	INC	5.2375	V1	29.684
RP	107.49	LAP	3.12	LOP	143.25	VP	37.597	GAP	-9.52	AZP	94.21	TAL	157.94	TAP	301.31	RCA	98.23	APO	153.18	V2	35.254
RC	43.042	GL	27.96	GP	-28.91	ZAL	51.48	ZAP	32.17	ETS	58.95	ZAE	140.04	ETE	280.96	ZAC	59.96	ETC	137.49	CLP	-14.77

PLANETOCENTRIC CONIC

C3	26.728	VHL	5.170	DLA	10.37	RAL	309.09	RAD	6568.1	VEL	12.170	PTH	2.18	VHP	7.405	DPA	-48.59	RAP	321.29	ECC	1.4399

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 31 32	2612.44	-26.82	68.29	178.99	99.45	7 15 4	2012.4	-25.24	59.98
90.00	21 7 52	4601.61	12.62	194.78	173.48	64.44	22 24 34	4001.6	9.08	187.89
100.00	7 58 1	2333.49	-28.09	47.52	178.73	100.67	8 36 54	1733.5	-26.33	39.16
100.00	22 24 4	4355.79	13.78	176.12	172.89	63.21	23 36 40	3755.8	10.08	169.29
110.00	9 17 57	2083.36	-31.49	27.67	177.87	104.04	9 52 40	1483.4	-29.24	19.18
110.00	23 20 38	4178.68	16.84	160.96	171.17	59.80	24 30 16	3578.7	12.70	154.30

DIFFERENTIAL CORRECTIONS

TOE	-.8638	TRA	-2.2252	TC3	.0258	BAU	.1519
RDE	.3417	RRA	.8340	RC3	-.4243	FAU	.02674
FOE	1.7720	FRA	2.7032	FC3	-.8662	BSP	9325
BOE	.9289	BRA	2.3764	BC3	.4251	FSP	-944

MID-COURSE EXECUTION ACCURACY

SGT	2683.7	SGR	1104.0	SG3	322.5		
RRT	-.9214	RRF	.9702	RTF	-.9522		
SGB	2901.9	R23	-.1872	R13	.9637		
SG1	2874.1	SG2	400.6	THA	158.81		

ORBIT DETERMINATION ACCURACY

ST	1217.4	SR	472.2	SS	1385.9		
CRT	-.9993	CRS	-.9791	CST	.9735		
LSA	1891.8	MSA	215.8	SSA	11.5		
EL1	1305.7	EL2	16.6	ALF	158.81		

LAUNCH DATE SEP 23 1965 FLIGHT TIME 138.00 ARRIVAL DATE FEB 8 1966

HELIOCENTRIC CONIC DISTANCE 351.000

RL	150.11	LAL	-.00	LOL	359.76	VL	26.772	GAL	5.65	AZL	84.19	HCA	146.60	SMA	126.21	ECC	.21265	INC	5.8067	V1	29.684
RP	107.50	LAP	3.19	LOP	146.50	VP	37.650	GAP	-8.87	AZP	94.85	TAL	158.05	TAP	304.65	RCA	99.37	APO	153.05	V2	35.250
RC	44.068	GL	31.18	GP	-32.45	ZAL	53.13	ZAP	36.01	ETS	58.54	ZAE	136.18	ETE	283.10	ZAC	63.20	ETC	137.19	CLP	-16.56

PLANETOCENTRIC CONIC

C3	27.107	VHL	5.206	DLA	13.37	RAL	307.89	RAD	6568.1	VEL	12.185	PTH	2.19	VHP	7.255	DPA	-51.49	RAP	325.00	ECC	1.4461

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 1 27	2717.23	-27.77	75.81	179.41	95.80	6 46 44	2117.2	-26.67	67.31
90.00	21 28 24	4503.80	9.68	189.10	172.53	63.26	22 43 27	3903.8	6.02	182.34
100.00	7 29 47	2432.35	-29.13	54.68	179.23	97.03	8 10 19	1832.4	-27.85	46.11
100.00	22 42 45	4263.91	10.90	170.82	171.89	61.99	23 53 49	3663.9	7.07	164.13
110.00	8 53 45	2169.64	-32.74	34.08	178.59	100.44	9 29 54	1569.6	-30.95	25.32
110.00	23 35 16	4099.39	14.07	156.48	170.03	58.52	24 43 36	3499.4	9.80	149.98

DIFFERENTIAL CORRECTIONS

TOE	-.9243	TRA	-2.2284	TC3	.0468	BAU	.1652
RDE	.4795	RRA	.9371	RC3	-.4533	FAU	.02642
FOE	1.9430	FRA	2.7682	FC3	-.8437	BSP	9671
BOE	1.0413	BRA	2.4175	BC3	.4557	FSP	-994

MID-COURSE EXECUTION ACCURACY

SGT	2718.7	SGR	1274.7	SG3	336.3		
RRT	-.9325	RRF	.9800	RTF	-.9555		
SGB	3002.7	R23	-.1853	R13	.9692		
SG1	2973.0	SG2	420.8	THA	155.87		

ORBIT DETERMINATION ACCURACY

ST	1267.5	SR	616.2	SS	1464.1		
CRT	-.9951	CRS	-.9917	CST	.9747		
LSA	2020.6	MSA	216.4	SSA	10.2		
EL1	1408.3	EL2	55.0	ALF	154.14		

LAUNCH DATE SEP 23 1965 FLIGHT TIME 140.00 ARRIVAL DATE FEB 10 1966

HELIOCENTRIC CONIC DISTANCE 357.717

RL	150.11	LAL	-.00	LOL	359.76	VL	26.843	GAL	5.45	AZL	83.52	HCA	149.83	SMA	126.67	ECC	.20721	INC	6.4822	V1	29.684
RP	107.51	LAP	3.25	LOP	149.75	VP	37.697	GAP	-8.24	AZP	95.61	TAL	158.18	TAP	308.01	RCA	100.42	APO	152.92	V2	35.247
RC	45.230	GL	34.69	GP	-36.54	ZAL	55.08	ZAP	40.30	ETS	58.38	ZAE	131.87	ETE	284.67	ZAC	66.78	ETC	136.89	CLP	-18.34

PLANETOCENTRIC CONIC

C3	28.098	VHL	5.301	DLA	16.64	RAL	306.51	RAD	6568.1	VEL	12.226	PTH	2.20	VHP	7.183	DPA	-54.81	RAP	329.46	ECC	1.4624

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 26 0	2842.91	-28.29	84.96	180.20	91.24	6 13 23	2242.9	-27.82	76.33
90.00	21 52 49	4396.01	6.32	182.96	172.06	62.34	23 6 5	3796.0	2.57	176.29
100.00	6 56 46	2550.21	-29.80	63.37	180.14	92.51	7 39 17	1950.2	-29.13	54.63
100.00	23 4 44	4163.94	7.65	165.18	171.34	61.01	24 14 8	3563.9	3.72	158.59
110.00	8 25 50	2271.55	-33.73	41.87	179.80	95.93	9 3 42	1671.6	-32.54	32.84
110.00	23 52 10	4015.36	11.03	151.87	169.30	57.44	24 59 5	3415.4	6.66	145.50

DIFFERENTIAL CORRECTIONS

TOE	-.9972	TRA	-2.2301	TC3	.0702	BAU	.1802
RDE	.6527	RRA	1.0582	RC3	-.4747	FAU	.02559
FOE	2.1134	FRA	2.7884	FC3	-.7885	BSP	10217
BOE	1.1918	BRA	2.4685	BC3	.4798	FSP	-1038

MID-COURSE EXECUTION ACCURACY

SGT	2738.1	SGR	1475.2	SG3	343.6		
RRT	-.9411	RRF	.9866	RTF	-.9587		
SGB	3110.2	R23	-.1770	R13	.9747		
SG1	3078.4	SG2	443.5	THA	152.49		

ORBIT DETERMINATION ACCURACY

ST	1315.9	SR	791.3	SS	1533.9		
CRT	-.9899	CRS	-.9969	CST	.9761		
LSA	2159.3	MSA	218.8	SSA	8.8		
EL1	1532.5	EL2	96.3	ALF	149.10		

LAUNCH DATE SEP 23 1965 FLIGHT TIME 142.00 ARRIVAL DATE FEB 12 1966

HELIOCENTRIC CONIC DISTANCE 364.412

RL 150.11 LAL -.00 LOL 359.76 VL 26.909 GAL 5.26 AZL 82.70 HCA 153.05 SMA 127.10 ECC .20223 INC 7.3024 V1 29.684
RP 107.53 LAP 3.30 LOP 153.00 VP 37.739 GAP -7.63 AZP 96.52 TAL 158.31 TAP 311.36 RCA 101.39 APO 152.80 V2 35.242
RC 46.516 GL 38.50 GP -41.22 ZAL 57.35 ZAP 45.05 ETS 58.42 ZAE 127.06 ETE 285.82 ZAC 70.74 ETC 136.68 CLP -20.05

PLANETOCENTRIC CONIC

C3 29.936 VHL 5.471 DLA 20.16 RAL 304.91 RAD 6568.2 VEL 12.301 PTH 2.22 VHP 7.214 DPA -58.52 RAP 335.11 ECC 1.4927

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 42 40	2997.81	-28.00	96.27	181.29	85.59	5 32 38	2397.8	-28.32	87.62
90.00	22 23 23	4272.79	2.39	176.04	172.29	61.78	23 34 36	3672.8	-1.41	169.41
100.00	6 17 0	2693.60	-29.75	74.02	181.42	86.91	7 1 54	2093.6	-29.86	65.22
100.00	23 31 44	4052.22	3.92	158.98	171.45	60.34	24 39 16	3452.2	-.06	152.45
110.00	7 53 3	2393.10	-34.18	51.33	181.55	90.36	8 32 57	1793.1	-33.75	42.11
110.00	0 16 6	3925.49	7.70	147.04	169.11	56.59	1 21 31	3325.5	3.25	140.78

DIFFERENTIAL CORRECTIONS
TOE-1.0973 TRA-2.2414 TC3 .0824 BAU .1948
ROE .8763 RRA 1.1998 RC3 -.4798 FAU .02378
FOE 2.2760 FRA 2.7522 FC3 -.6877 BSP 10818
BOE 1.4042 BRA 2.5423 BC3 .4868 FSP -1057

MID-COURSE EXECUTION ACCURACY
SGT 2753.2 SGR 1705.6 SG3 342.1
RRT -.9473 RRF .9910 RTF -.9618
SGB 3238.7 R23 -.1636 R13 .9800
SG1 3204.5 SG2 469.6 THA 148.85

ORBIT DETERMINATION ACCURACY
ST 1372.2 SR 1001.8 SS 1592.7
CRT -.9862 CRS -.9990 CST .9781
LSA 2318.2 MSA 221.4 SSA 7.4
EL1 1693.7 EL2 134.5 ALF 143.99

LAUNCH DATE SEP 23 1965 FLIGHT TIME 144.00 ARRIVAL DATE FEB 14 1966

HELIOCENTRIC CONIC DISTANCE 371.089

RL 150.11 LAL -.00 LOL 359.76 VL 26.968 GAL 5.09 AZL 81.67 HCA 156.26 SMA 127.49 ECC .19772 INC 8.3262 V1 29.684
RP 107.55 LAP 3.34 LOP 156.25 VP 37.777 GAP -7.03 AZP 97.63 TAL 158.44 TAP 314.71 RCA 102.28 APO 152.70 V2 35.236
RC 47.916 GL 42.60 GP -46.55 ZAL 59.95 ZAP 50.25 ETS 58.67 ZAE 121.71 ETE 286.78 ZAC 75.14 ETC 136.73 CLP -21.59

PLANETOCENTRIC CONIC

C3 33.028 VHL 5.747 DLA 23.92 RAL 303.04 RAD 6568.3 VEL 12.426 PTH 2.25 VHP 7.391 DPA -62.51 RAP 342.73 ECC 1.5436

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	3 45 34	3200.72	-26.08	110.79	182.35	78.56	4 38 55	2600.7	-27.40	102.37
90.00	23 5 37	4119.32	-2.56	167.48	173.68	61.79	24 14 16	3519.3	-6.32	160.81
100.00	5 26 29	2875.34	-28.33	87.33	182.83	80.05	6 14 24	2275.3	-29.42	78.70
100.00	0 11 19	3919.92	-.56	151.71	172.56	60.11	1 16 39	3319.9	-4.53	145.18
110.00	7 13 31	2540.49	-33.65	62.79	183.72	83.60	7 55 51	1940.5	-34.17	53.59
110.00	0 40 46	3827.53	4.00	141.87	169.72	56.02	1 44 34	3227.5	-.49	135.66

DIFFERENTIAL CORRECTIONS
TOE-1.3136 TRA-2.3438 TC3 -.0105 BAU .1899
ROE 1.1970 RRA 1.3887 RC3 -.4299 FAU .01799
FOE 2.4740 FRA 2.7050 FC3 -.4716 BSP 9621
BOE 1.7771 BRA 2.7243 BC3 .4301 FSP -918

MID-COURSE EXECUTION ACCURACY
SGT 2872.2 SGR 1990.6 SG3 335.5
RRT -.9495 RRF .9935 RTF -.9651
SGB 3494.5 R23 -.1463 R13 .9851
SG1 3455.7 SG2 519.1 THA 145.77

ORBIT DETERMINATION ACCURACY
ST 1517.6 SR 1277.0 SS 1673.4
CRT -.9862 CRS -.9998 CST .9829
LSA 2585.6 MSA 220.0 SSA 6.4
EL1 1976.7 EL2 162.4 ALF 139.99

LAUNCH DATE SEP 23 1965 FLIGHT TIME 146.00 ARRIVAL DATE FEB 16 1966

HELIOCENTRIC CONIC DISTANCE 377.726

RL 150.11 LAL -.00 LOL 359.76 VL 27.022 GAL 4.93 AZL 80.35 HCA 159.47 SMA 127.84 ECC .19362 INC 9.6490 V1 29.684
RP 107.56 LAP 3.37 LOP 159.50 VP 37.809 GAP -6.46 AZP 99.05 TAL 158.58 TAP 318.05 RCA 103.09 APO 152.60 V2 35.230
RC 49.420 GL 46.97 GP -52.52 ZAL 62.93 ZAP 55.86 ETS 59.20 ZAE 115.80 ETE 287.83 ZAC 80.02 ETC 137.30 CLP -22.74

PLANETOCENTRIC CONIC

C3 38.105 VHL 6.173 DLA 27.88 RAL 300.82 RAD 6568.5 VEL 12.628 PTH 2.29 VHP 7.776 DPA -66.47 RAP 353.61 ECC 1.6271

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	2 2 27	3553.91	-19.20	134.33	181.52	68.78	3 1 41	2953.9	-21.92	126.71
90.00	0 34 57	3838.33	-11.36	151.52	177.96	63.89	1 38 55	3238.3	-14.78	144.51
100.00	4 11 58	3136.40	-23.93	105.44	183.35	71.52	5 4 14	2536.4	-26.23	97.40
100.00	1 8 7	3731.07	-6.91	141.30	175.60	60.85	2 10 18	3131.1	-10.75	134.61
110.00	6 23 14	2725.55	-31.37	76.72	185.82	75.66	7 8 39	2125.6	-33.02	67.89
110.00	1 13 20	3714.68	-.31	135.98	171.52	55.82	2 15 15	3114.7	-4.79	129.76

DIFFERENTIAL CORRECTIONS
TOE-1.4892 TRA-2.3671 TC3 .0241 BAU .2009
ROE 1.5778 RRA 1.5526 RC3 -.3935 FAU .01498
FOE 2.5359 FRA 2.4833 FC3 -.3404 BSP 11209
BOE 2.1696 BRA 2.8309 BC3 .3943 FSP -919

MID-COURSE EXECUTION ACCURACY
SGT 2844.2 SGR 2244.7 SG3 305.7
RRT -.9540 RRF .9951 RTF -.9687
SGB 3623.3 R23 -.1232 R13 .9895
SG1 3583.7 SG2 533.9 THA 142.03

ORBIT DETERMINATION ACCURACY
ST 1570.5 SR 1544.1 SS 1666.5
CRT -.9851 CRS-1.0000 CST .9849
LSA 2752.8 MSA 223.5 SSA 5.0
EL1 2194.2 EL2 189.9 ALF 135.49

LAUNCH DATE SEP 23 1965 FLIGHT TIME 148.00 ARRIVAL DATE FEB 18 1966

HELIOCENTRIC CONIC DISTANCE 384.331

RL 150.11 LAL -.00 LOL 359.76 VL 27.070 GAL 4.79 AZL 78.57 HCA 162.66 SMA 128.17 ECC .18995 INC11.4349 V1 29.684
RP 107.58 LAP 3.39 LOP 162.74 VP 37.838 GAP -5.90 AZP 100.93 TAL 158.69 TAP 321.35 RCA 103.82 APO 152.51 V2 35.224
RC 51.018 GL 51.54 GP -59.06 ZAL 66.27 ZAP 61.76 ETS 60.41 ZAE 109.31 ETE 289.56 ZAC 85.43 ETC 138.95 CLP -23.01

PLANETOCENTRIC CONIC

C3 46.652 VHL 6.830 DLA 31.94 RAL 298.15 RAD 6568.7 VEL 12.962 PTH 2.36 VHP 8.481 DPA -69.69 RAP 9.59 ECC 1.7678

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
74.58	23 3 49	4132.71	-15.70	175.57	181.37	61.83	24 12 42	3532.7	-19.34	168.51
105.42	3 8 22	3361.54	-15.68	118.46	181.36	61.82	4 4 24	2761.5	-19.33	111.41
74.58	23 3 49	4132.71	-15.70	175.57	181.37	61.83	24 12 42	3532.7	-19.34	168.51
105.42	3 8 22	3361.54	-15.68	118.46	181.36	61.82	4 4 24	2761.5	-19.33	111.41
110.00	5 10 59	2981.85	-25.67	94.46	186.51	66.61	6 0 40	2381.9	-28.60	86.51
110.00	2 4 19	3560.40	-6.19	127.90	175.58	56.31	3 3 39	2960.4	-10.57	121.55

DIFFERENTIAL CORRECTIONS
TOE-1.8348 TRA-2.4925 TC3 -.0011 BAU .1903
ROE 2.1050 RRA 1.7276 RC3 -.3051 FAU .00929
FOE 2.5628 FRA 2.2158 FC3 -.1724 BSP 11851
BOE 2.7924 BRA 3.0327 BC3 .3051 FSP -811

MID-COURSE EXECUTION ACCURACY
SGT 2905.0 SGR 2491.6 SG3 265.9
RRT -.9567 RRF .9955 RTF -.9735
SGB 3827.2 R23 -.0977 R13 .9933
SG1 3786.5 SG2 556.5 THA 139.58

ORBIT DETERMINATION ACCURACY
ST 1707.4 SR 1838.7 SS 1647.1
CRT -.9863 CRS -.9999 CST .9886
LSA 2993.1 MSA 223.7 SSA 3.9
EL1 2500.6 EL2 206.8 ALF 132.85

LAUNCH DATE SEP 23 1965 FLIGHT TIME 150.00 ARRIVAL DATE FEB 20 1966

HELIOCENTRIC CONIC DISTANCE 390.889

RL 150.11 LAL -.00 LOL 359.76 VL 27.114 GAL 4.68 AZL 76.01 HCA 165.83 SMA 128.46 ECC .18669 INC13.9922 VI 29.684
RP 107.61 LAP 3.39 LOP 165.99 VP 37.862 GAP -5.36 AZP 103.58 TAL 158.78 TAP 324.61 RCA 104.48 APO 152.44 V2 35.216
RC 52.701 GL 56.13 GP -66.05 ZAL 69.96 ZAP 67.75 ETS 63.53 ZAE 102.24 ETE 293.38 ZAC 91.40 ETC 143.09 CLP -21.17

PLANETOCENTRIC CONIC

C3 61.927 VHL 7.869 DLA 35.90 RAL 294.89 RAD 6569.2 VEL 13.538 PTH 2.47 VHP 9.703 DPA -70.98 RAP 31.25 ECC 2.0192

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
66.95	22 4 3	4345.75	-14.90	191.64	183.35	56.95	23 16 28	3745.8	-19.14	184.96
113.05	3 42 4	3288.43	-14.88	112.29	183.33	56.95	4 36 53	2688.4	-19.13	105.61
66.95	22 4 3	4345.75	-14.90	191.64	183.35	56.95	23 16 28	3745.8	-19.14	184.96
113.05	3 42 4	3288.43	-14.88	112.29	183.33	56.95	4 36 53	2688.4	-19.13	105.61
66.95	22 4 3	4345.75	-14.90	191.64	183.35	56.95	23 16 28	3745.8	-19.14	184.96
113.05	3 42 4	3288.43	-14.88	112.29	183.33	56.95	4 36 53	2688.4	-19.13	105.61

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE-2.4810 TRA-2.7612 TC3 -.0370 BAU .1573 SGT 3070.1 SGR 2625.7 SG3 216.3 ST 1953.8 SR 2081.8 SS 1595.6
RDE 2.7774 RRA 1.8346 RC3 -.1863 FAU .00268 RRT -.9587 RRF .9940 RTF -.9806 CRT -.9886 CRS -.9995 CST .9929
FDE 2.5179 FRA 1.8964 FC3 -.0374 BSP 12485 SGB 4039.8 R23 -.0695 R13 .9963 LSA 3263.1 MSA 221.7 SSA 3.0
BDE 3.7242 BRA 3.3151 BC3 .1899 FSP -670 SG1 3998.9 SG2 573.5 THA 139.65 EL1 2847.0 EL2 215.1 ALF 133.16

LAUNCH DATE SEP 23 1965 FLIGHT TIME 152.00 ARRIVAL DATE FEB 22 1966

HELIOCENTRIC CONIC DISTANCE 397.377

RL 150.11 LAL -.00 LOL 359.76 VL 27.153 GAL 4.58 AZL 72.03 HCA 168.95 SMA 128.72 ECC .18386 INC17.9687 VI 29.684
RP 107.63 LAP 3.39 LOP 169.24 VP 37.883 GAP -4.85 AZP 107.66 TAL 158.82 TAP 327.77 RCA 105.06 APO 152.39 V2 35.208
RC 54.462 GL 60.38 GP -73.12 ZAL 73.95 ZAP 73.58 ETS 73.45 ZAE 94.51 ETE 304.22 ZAC 98.11 ETC 154.73 CLP -13.34

PLANETOCENTRIC CONIC

C3 92.251 VHL 9.605 DLA 39.36 RAL 290.82 RAD 6569.8 VEL 14.615 PTH 2.65 VHP 11.854 DPA -69.02 RAP 54.17 ECC 2.5182

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
61.44	21 19 46	4520.06	-12.35	204.02	185.35	52.33	22 35 6	3920.1	-17.15	197.82
118.56	3 53 55	3298.88	-12.33	111.28	185.34	52.32	4 48 54	2698.9	-17.13	105.08
61.44	21 19 46	4520.06	-12.35	204.02	185.35	52.33	22 35 6	3920.1	-17.15	197.82
118.56	3 53 55	3298.88	-12.33	111.28	185.34	52.32	4 48 54	2698.9	-17.13	105.08
61.44	21 19 46	4520.06	-12.35	204.02	185.35	52.33	22 35 6	3920.1	-17.15	197.82
118.56	3 53 55	3298.88	-12.33	111.28	185.34	52.32	4 48 54	2698.9	-17.13	105.08

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE-4.0410 TRA-3.4010 TC3 -.0864 BAU .1329 SGT 3567.0 SGR 2282.6 SG3 163.6 ST 2535.9 SR 1977.4 SS 1529.7
RDE 3.2604 RRA 1.5402 RC3 -.0644 FAU-.00452 RRT -.9563 RRF .9841 RTF -.9917 CRT -.9910 CRS -.9979 CST .9976
FDE 2.4280 FRA 1.5763 FC3 .0424 BSP 13193 SGB 4234.8 R23 -.0380 R13 .9985 LSA 3554.7 MSA 210.9 SSA 2.3
BDE 5.1923 BRA 3.7335 BC3 .1077 FSP -519 SG1 4196.6 SG2 567.5 THA 147.88 EL1 3208.8 EL2 209.4 ALF 142.12

LAUNCH DATE SEP 23 1965 FLIGHT TIME 154.00 ARRIVAL DATE FEB 24 1966

HELIOCENTRIC CONIC DISTANCE 403.736

RL 150.11 LAL -.00 LOL 359.76 VL 27.187 GAL 4.52 AZL 65.04 HCA 171.98 SMA 128.96 ECC .18153 INC24.9550 VI 29.684
RP 107.66 LAP 3.38 LOP 172.48 VP 37.899 GAP -4.38 AZP 114.74 TAL 158.77 TAP 330.75 RCA 105.55 APO 152.37 V2 35.200
RC 56.291 GL 63.32 GP -78.59 ZAL 78.14 ZAP 78.95 ETS 112.84 ZAE 85.69 ETE 344.63 ZAC 106.19 ETC 196.57 CLP 14.35

PLANETOCENTRIC CONIC

C3 163.764 VHL 12.797 DLA 41.35 RAL 285.76 RAD 6570.8 VEL 16.885 PTH 2.91 VHP 15.913 DPA -63.25 RAP 71.91 ECC 3.6951

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
58.51	20 46 20	4670.28	-7.90	213.11	186.70	49.28	22 4 10	4070.3	-13.07	207.32
121.49	3 46 59	3374.75	-7.89	114.05	186.69	49.28	4 43 14	2774.7	-13.05	108.25
58.51	20 46 20	4670.28	-7.90	213.11	186.70	49.28	22 4 10	4070.3	-13.07	207.32
121.49	3 46 59	3374.75	-7.89	114.05	186.69	49.28	4 43 14	2774.7	-13.05	108.25
58.51	20 46 20	4670.28	-7.90	213.11	186.70	49.28	22 4 10	4070.3	-13.07	207.32
121.49	3 46 59	3374.75	-7.89	114.05	186.69	49.28	4 43 14	2774.7	-13.05	108.25

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE-7.6295 TRA-4.2192 TC3 -.1701 BAU .3987 SGT 4265.0 SGR 1047.9 SG3 116.9 ST 3498.4 SR 598.4 SS 1512.5
RDE-1.1978 RRA-1.4834 RC3 -.0650 FAU-.01345 RRT .9243 RRF -.9286 RTF -.9994 CRT .9708 CRS .9716 CST 1.0000
FDE 2.3973 FRA 1.3459 FC3 .0711 BSP 13584 SGB 4391.9 R23 .0078 R13 -.9995 LSA 3855.4 MSA 141.6 SSA 1.7
BDE 7.7229 BRA 4.4724 BC3 .1821 FSP -374 SG1 4374.5 SG2 390.0 THA 12.90 EL1 3546.4 EL2 141.5 ALF 9.44

LAUNCH DATE SEP 23 1965 FLIGHT TIME 156.00 ARRIVAL DATE FEB 26 1966

HELIOCENTRIC CONIC DISTANCE 409.777

RL 150.11 LAL -.00 LOL 359.76 VL 27.217 GAL 4.53 AZL 50.28 HCA 174.76 SMA 129.17 ECC .17991 INC39.7233 VI 29.684
RP 107.69 LAP 3.35 LOP 175.72 VP 37.913 GAP -3.99 AZP 129.61 TAL 158.48 TAP 333.23 RCA 105.93 APO 152.40 V2 35.191
RC 58.184 GL 62.06 GP -74.83 ZAL 82.28 ZAP 83.47 ETS 168.08 ZAE 74.14 ETE 40.23 ZAC 117.79 ETC 254.97 CLP 64.25

PLANETOCENTRIC CONIC

C3 385.263 VHL 19.628 DLA 39.17 RAL 279.84 RAD 6572.1 VEL 22.507 PTH 3.26 VHP 24.690 DPA -52.41 RAP 82.90 ECC 7.3405

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
61.72	20 37 16	4745.00	-2.62	215.02	186.64	50.90	21 56 21	4145.0	-7.64	209.18
118.28	3 8 48	3531.28	-2.60	122.91	186.63	50.90	4 7 39	2931.3	-7.62	117.07
61.72	20 37 16	4745.00	-2.62	215.02	186.64	50.90	21 56 21	4145.0	-7.64	209.18
118.28	3 8 48	3531.28	-2.60	122.91	186.63	50.90	4 7 39	2931.3	-7.62	117.07
61.72	20 37 16	4745.00	-2.62	215.02	186.64	50.90	21 56 21	4145.0	-7.64	209.18
118.28	3 8 48	3531.28	-2.60	122.91	186.63	50.90	4 7 39	2931.3	-7.62	117.07

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE-5.8147 TRA-1.4352 TC3 -.1296 BAU 1.4528 SGT 1852.6 SGR 4006.0 SG3 84.0 ST 1705.1 SR 3255.1 SS 1696.4
RDE-10.9147 RRA-5.8967 RC3 -.2505 FAU-.03062 RRT .9578 RRF -.9991 RTF -.9655 CRT .9939 CRS .9999 CST .9950
FDE 2.6725 FRA 1.3647 FC3 .0688 BSP 13600 SGB 4413.6 R23 -.0201 R13 -.9994 LSA 4043.8 MSA 168.4 SSA 1.8
BDE12.3669 BRA 6.0689 BC3 .2821 FSP -270 SG1 4386.8 SG2 486.3 THA 65.79 EL1 3670.9 EL2 167.3 ALF 62.44

LAUNCH DATE SEP 23 1965 FLIGHT TIME 158.00 ARRIVAL DATE FEB 28 1966

DISTANCE 414.697

HELIOCENTRIC CONIC

RL 150.11 LAL -.00 LOL 359.76 VL 27.244 GAL 4.75 AZL 13.54 HCA 176.59 SMA 129.35 ECC .18012 INC76.4562 V1 29.684
RP 107.72 LAP 3.31 LOP 178.96 VP 37.923 GAP -3.89 AZP 166.43 TAL 157.38 TAP 333.97 RCA 106.05 APO 152.64 V2 35.181
RC 60.133 GL 48.34 GP -54.68 ZAL 85.55 ZAP 86.49 ETS 180.80 ZAE 55.25 ETE 48.17 ZAC 139.50 ETC 271.98 CLP 83.92

PLANETOCENTRIC CONIC

C31248.130 VHL 35.329 DLA 25.01 RAL 274.74 RAD 6573.1 VEL 37.006 PTH 3.54 VHP 44.933 DPA -30.73 RAP 88.33 ECC21.5411

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	1 34 31	3817.66	-11.98	150.32	191.60	64.15	2 38 9	3217.7	-15.36	143.27
90.00	21 30 52	4610.48	12.88	195.30	179.80	64.56	22 47 42	4010.5	9.35	188.40
100.00	3 18 41	3481.81	-14.85	127.05	193.04	63.76	4 16 43	2881.8	-18.26	119.91
100.00	22 29 22	4421.57	15.76	180.00	178.37	64.27	23 43 4	3821.6	12.17	173.05
110.00	5 10 14	3132.79	-21.25	103.94	196.44	62.57	6 2 27	2532.8	-24.75	96.54
110.00	22 54 18	4343.34	22.19	170.73	175.03	63.31	24 6 42	3743.3	18.43	163.61

DIFFERENTIAL CORRECTIONS

TDE-6.7482 TRA -.0570 TC3 -.1120 BAU 4.9673
RD-15.9907 RRA-9.3211 RC3 -.2758 FAU-.08964
FDE 3.4581 FRA 2.0549 FC3 .0622 BSP 12038
BDE17.3563 BRA 9.3213 BC3 .2977 FSP -223

MID-COURSE EXECUTION ACCURACY

SGT 1350.5 SGR 3647.7 SG3 69.3
RRT .8926 RRF -.9998 RTF -.8914
SGB 3889.7 R23 -.0532 R13 -.9984
SG1 3846.6 SG2 577.4 THA 71.27

ORBIT DETERMINATION ACCURACY

ST 1094.7 SR 2641.8 SS 2219.6
CRT .9824 CRS 1.0000 CST .9817
LSA 3614.6 MSA 196.7 SSA 1.6
EL1 2853.4 EL2 189.2 ALF 67.75

LAUNCH DATE SEP 23 1965 FLIGHT TIME 160.00 ARRIVAL DATE MAR 2 1966

DISTANCE 426.197

HELIOCENTRIC CONIC

RL 150.11 LAL -.00 LOL 359.76 VL 27.267 GAL 3.80 AZL 143.29 HCA 184.08 SMA 129.50 ECC .17205 INC53.2867 V1 29.684
RP 107.75 LAP 3.27 LOP 182.20 VP 37.930 GAP -2.16 AZP 36.78 TAL 161.13 TAP 345.20 RCA 107.22 APO 151.78 V2 35.171
RC 62.133 GL -58.03 GP 66.96 ZAL 84.88 ZAP 87.23 ETS 195.23 ZAE 79.51 ETE 315.51 ZAC 98.82 ETC 99.01 CLP 82.91

PLANETOCENTRIC CONIC

C3 660.917 VHL 25.708 DLA -80.43 RAL 301.59 RAD 6572.6 VEL 27.968 PTH 3.41 VHP 33.383 DPA 84.89 RAP 346.47 ECC11.8770

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
10.88	7 41 33	2437.87	1.11	83.87	211.40	170.43	8 22 10	1837.9	9.00	82.95
169.12	18 58 5	638.51	1.12	281.81	211.42	170.43	19 8 44	38.5	9.00	280.89
10.88	7 41 33	2437.87	1.11	83.87	211.40	170.43	8 22 10	1837.9	9.00	82.95
169.12	18 58 5	638.51	1.12	281.81	211.42	170.43	19 8 44	38.5	9.00	280.89
10.88	7 41 33	2437.87	1.11	83.87	211.40	170.43	8 22 10	1837.9	9.00	82.95
169.12	18 58 5	638.51	1.12	281.81	211.42	170.43	19 8 44	38.5	9.00	280.89

DIFFERENTIAL CORRECTIONS

TDE 7.6473 TRA-1.1011 TC3 -.1721 BAU 2.8419
RDE-7.1199 RRA 2.2728 RC3 .2717 FAU-.04832
FDE-2.0801 FRA .5310 FC3 .0633 BSP 13391
BDE10.4487 BRA 2.5255 BC3 .3216 FSP -241

MID-COURSE EXECUTION ACCURACY

SGT 2422.4 SGR 3709.1 SG3 78.6
RRT -.9394 RRF .9957 RTF -.9662
SGB 4430.0 R23 -.0122 R13 .9997
SG1 4373.7 SG2 704.2 THA 122.47

ORBIT DETERMINATION ACCURACY

ST 1761.2 SR 1831.8 SS 1472.5
CRT -.9642 CRS -.9959 CST .9843
LSA 2916.8 MSA 343.3 SSA 1.6
EL1 2518.3 EL2 339.9 ALF 133.83

LAUNCH DATE SEP 23 1965 FLIGHT TIME 162.00 ARRIVAL DATE MAR 4 1966

DISTANCE 431.791

HELIOCENTRIC CONIC

RL 150.11 LAL -.00 LOL 359.76 VL 27.286 GAL 3.92 AZL 119.55 HCA 186.52 SMA 129.64 ECC .17174 INC29.5514 V1 29.684
RP 107.78 LAP 3.21 LOP 185.43 VP 37.934 GAP -1.90 AZP 60.61 TAL 160.45 TAP 346.96 RCA 107.37 APO 151.90 V2 35.160
RC 64.180 GL -64.36 GP 81.47 ZAL 80.91 ZAP 85.72 ETS 229.96 ZAE 93.21 ETE 346.76 ZAC 83.79 ETC 129.70 CLP 59.80

PLANETOCENTRIC CONIC

C3 221.785 VHL 14.892 DLA -80.98 RAL 355.79 RAD 6571.3 VEL 18.523 PTH 3.05 VHP 19.457 DPA 72.22 RAP 292.94 ECC 4.6500

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
10.26	11 16 32	2327.12	8.61	83.45	264.41	170.88	11 55 19	1727.1	16.50	82.55
169.74	22 35 31	5814.35	8.61	258.69	264.43	170.88	24 12 26	5214.4	16.51	257.79
10.26	11 16 32	2327.12	8.61	83.45	264.41	170.88	11 55 19	1727.1	16.50	82.55
169.74	22 35 31	5814.35	8.61	258.69	264.43	170.88	24 12 26	5214.4	16.51	257.79
10.26	11 16 32	2327.12	8.61	83.45	264.41	170.88	11 55 19	1727.1	16.50	82.55
169.74	22 35 31	5814.35	8.61	258.69	264.43	170.88	24 12 26	5214.4	16.51	257.79

DIFFERENTIAL CORRECTIONS

TDE-2.9112 TRA-1.6698 TC3 -.2141 BAU .7431
RDE 3.1373 RRA .7398 RC3 .1303 FAU-.01406
FDE 1.0871 FRA .4658 FC3 .0549 BSP 15012
BDE 4.2799 BRA 1.8263 BC3 .2506 FSP -336

MID-COURSE EXECUTION ACCURACY

SGT 4296.8 SGR 2214.8 SG3 106.1
RRT -.9502 RRF .9721 RTF -.9964
SGB 4834.0 R23 -.0166 R13 .9996
SG1 4794.3 SG2 618.3 THA 153.43

ORBIT DETERMINATION ACCURACY

ST 1663.4 SR 1324.3 SS 909.4
CRT -.9179 CRS -.9656 CST .9895
LSA 2274.2 MSA 419.4 SSA 1.4
EL1 2084.5 EL2 419.4 ALF 142.03

LAUNCH DATE SEP 23 1965 FLIGHT TIME 164.00 ARRIVAL DATE MAR 6 1966

DISTANCE 437.926

HELIOCENTRIC CONIC

RL 150.11 LAL -.00 LOL 359.76 VL 27.302 GAL 3.95 AZL 109.51 HCA 189.44 SMA 129.75 ECC .17105 INC19.5147 V1 29.684
RP 107.81 LAP 3.14 LOP 188.67 VP 37.935 GAP -1.51 AZP 70.73 TAL 160.17 TAP 349.61 RCA 107.56 APO 151.94 V2 35.149
RC 66.268 GL -62.90 GP 84.62 ZAL 76.60 ZAP 84.85 ETS 288.88 ZAE 101.18 ETE 43.25 ZAC 75.52 ETC 184.20 CLP -16.62

PLANETOCENTRIC CONIC

C3 104.456 VHL 10.220 DLA -76.69 RAL 358.40 RAD 6570.0 VEL 15.026 PTH 2.71 VHP 13.374 DPA 63.64 RAP 289.74 ECC 2.7191

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
15.16	11 36 36	2185.69	17.38	78.75	264.14	166.04	12 13 1	1585.7	25.13	77.04
164.84	22 36 16	5686.69	17.38	258.77	264.16	166.04	24 11 2	5086.7	25.14	257.07
15.16	11 36 36	2185.69	17.38	78.75	264.14	166.04	12 13 1	1585.7	25.13	77.04
164.84	22 36 16	5686.69	17.38	258.77	264.16	166.04	24 11 2	5086.7	25.14	257.07
15.16	11 36 36	2185.69	17.38	78.75	264.14	166.04	12 13 1	1585.7	25.13	77.04
164.84	22 36 16	5686.69	17.38	258.77	264.16	166.04	24 11 2	5086.7	25.14	257.07

DIFFERENTIAL CORRECTIONS

TDE-3.2870 TRA-1.5113 TC3 -.1065 BAU .1507
RDE-1.1399 RRA-1.0984 RC3 .0171 FAU-.00010
FDE 1.2467 FRA .6646 FC3 .0009 BSP 15520
BDE 3.4790 BRA 1.8683 BC3 .1079 FSP -486

MID-COURSE EXECUTION ACCURACY

SGT 4120.8 SGR 2749.6 SG3 152.3
RRT .9716 RRF -.9849 RTF -.9971
SGB 4953.9 R23 .0043 R13 -.9994
SG1 4923.9 SG2 544.3 THA 33.42

ORBIT DETERMINATION ACCURACY

ST 2148.0 SR 1025.6 SS 983.3
CRT .9364 CRS .9579 CST .9977
LSA 2554.5 MSA 327.8 SSA 2.0
EL1 2357.6 EL2 327.8 ALF 24.60

LAUNCH DATE SEP 23 1965 FLIGHT TIME 166.00 ARRIVAL DATE MAR 8 1966

HELIOCENTRIC CONIC DISTANCE 444.211

RL 150.11 LAL -.00 LOL 359.76 VL 27.316 GAL 3.97 AZL 104.28 HCA 192.51 SMA 129.84 ECC .17041 INC14.2805 VI 29.684
RP 107.85 LAP 3.06 LOP 191.90 VP 37.934 GAP -1.09 AZP 76.05 TAL 160.00 TAP 352.51 RCA 107.72 APO 151.97 V2 35.138
RC 68.394 GL -58.97 GP 80.42 ZAL 72.36 ZAP 84.79 ETS 319.16 ZAE 106.81 ETE 71.53 ZAC 69.70 ETC 210.02 CLP -56.94

PLANETOCENTRIC CONIC

C3 61.539 VHL 7.845 DLA -72.28 RAL 351.89 RAD 6569.1 VEL 13.524 PTH 2.47 VHP 10.225 DPA 57.47 RAP 288.87 ECC 2.0128

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
20.22	11 20 57	2054.90	24.76	72.48	253.41	160.42	11 55 12	1454.9	32.27	69.74
159.78	21 59 59	5576.23	24.77	257.59	253.43	160.42	23 32 55	4976.2	32.27	254.85
20.22	11 20 57	2054.90	24.76	72.48	253.41	160.42	11 55 12	1454.9	32.27	69.74
159.78	21 59 59	5576.23	24.77	257.59	253.43	160.42	23 32 55	4976.2	32.27	254.85
20.22	11 20 57	2054.90	24.76	72.48	253.41	160.42	11 55 12	1454.9	32.27	69.74
159.78	21 59 59	5576.23	24.77	257.59	253.43	160.42	23 32 55	4976.2	32.27	254.85

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TOE-1.5178 TRA -.8019 TC3 -.0483 BAU .1697 SGT 2222.2 SGR 4494.0 SG3 214.5 ST 1249.9 SR 1703.4 SS 930.5
RDE-1.5003 RRA-1.8113 RC3 .2005 FAU .00992 RRT .9569 RRF -.9970 RTF -.9726 CRT .9242 CRS .9902 CST .9684
FDE 1.0728 FRA .9776 FC3 -.1395 BSP 15618 SGB 5013.4 R23 .0078 R13 -.9990 LSA 2275.1 MSA 391.7 SSA 2.8
BDE 2.1342 BRA 1.9809 BC3 .2063 FSP -682 SG1 4979.5 SG2 582.3 THA 64.30 EL1 2076.1 EL2 391.7 ALF 54.40

LAUNCH DATE SEP 23 1965 FLIGHT TIME 168.00 ARRIVAL DATE MAR 10 1966

HELIOCENTRIC CONIC DISTANCE 450.545

RL 150.11 LAL -.00 LOL 359.76 VL 27.326 GAL 3.99 AZL 101.10 HCA 195.64 SMA 129.91 ECC .16993 INC11.1018 VI 29.684
RP 107.89 LAP 2.98 LOP 195.13 VP 37.931 GAP -.66 AZP 79.30 TAL 159.84 TAP 355.49 RCA 107.84 APO 151.99 V2 35.126
RC 70.553 GL -54.25 GP 75.91 ZAL 68.36 ZAP 85.55 ETS 333.94 ZAE 111.23 ETE 84.76 ZAC 64.93 ETC 220.49 CLP -71.44

PLANETOCENTRIC CONIC

C3 41.829 VHL 6.468 DLA -67.74 RAL 345.61 RAD 6568.6 VEL 12.775 PTH 2.32 VHP 8.352 DPA 52.43 RAP 288.20 ECC 1.6884

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
25.49	11 7 9	1944.79	29.92	64.96	241.97	154.08	11 39 34	1344.8	37.05	61.01
154.51	21 23 36	5494.55	29.93	255.61	241.98	154.08	22 55 11	4894.5	37.05	251.66
25.49	11 7 9	1944.79	29.92	64.96	241.97	154.08	11 39 34	1344.8	37.05	61.01
154.51	21 23 36	5494.55	29.93	255.61	241.98	154.08	22 55 11	4894.5	37.05	251.66
25.49	11 7 9	1944.79	29.92	64.96	241.97	154.08	11 39 34	1344.8	37.05	61.01
154.51	21 23 36	5494.55	29.93	255.61	241.98	154.08	22 55 11	4894.5	37.05	251.66

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TOE -.8228 TRA -.3545 TC3 -.0996 BAU .2711 SGT 1111.4 SGR 4899.6 SG3 288.4 ST 770.2 SR 1703.2 SS 905.9
RDE-1.0411 RRA-2.0410 RC3 .4745 FAU .01935 RRT .8356 RRF -.9979 RTF -.8556 CRT .7839 CRS .9916 CST .8575
FDE .9148 FRA 1.3667 FC3 -.4004 BSP 15737 SGB 5024.1 R23 .0165 R13 -.9986 LSA 2028.0 MSA 449.8 SSA 3.6
BDE 1.3269 BRA 2.0716 BC3 .4849 FSP -925 SG1 4988.1 SG2 599.8 THA 79.11 EL1 1814.6 EL2 448.9 ALF 69.15

LAUNCH DATE SEP 23 1965 FLIGHT TIME 170.00 ARRIVAL DATE MAR 12 1966

HELIOCENTRIC CONIC DISTANCE 456.891

RL 150.11 LAL -.00 LOL 359.76 VL 27.334 GAL 4.01 AZL 98.97 HCA 198.80 SMA 129.97 ECC .16966 INC 8.9673 VI 29.684
RP 107.92 LAP 2.88 LOP 198.35 VP 37.925 GAP -.22 AZP 81.50 TAL 159.67 TAP 358.48 RCA 107.92 APO 152.02 V2 35.114
RC 72.741 GL -49.38 GP 71.77 ZAL 64.65 ZAP 87.06 ETS 343.79 ZAE 114.86 ETE 93.60 ZAC 60.69 ETC 226.27 CLP -80.58

PLANETOCENTRIC CONIC

C3 31.353 VHL 5.599 DLA -63.15 RAL 340.65 RAD 6568.2 VEL 12.358 PTH 2.23 VHP 7.134 DPA 48.01 RAP 287.38 ECC 1.5160

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
30.86	10 59 41	1853.21	32.96	56.73	231.48	147.44	11 30 34	1253.2	39.58	51.57
149.14	20 51 32	5440.61	32.96	253.39	231.50	147.44	22 22 13	4840.6	39.58	248.23
30.86	10 59 41	1853.21	32.96	56.73	231.48	147.44	11 30 34	1253.2	39.58	51.57
149.14	20 51 32	5440.61	32.96	253.39	231.50	147.44	22 22 13	4840.6	39.58	248.23
30.86	10 59 41	1853.21	32.96	56.73	231.48	147.44	11 30 34	1253.2	39.58	51.57
149.14	20 51 32	5440.61	32.96	253.39	231.50	147.44	22 22 13	4840.6	39.58	248.23

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TOE -.5196 TRA -.0127 TC3 -.2332 BAU .3323 SGT 593.1 SGR 4985.9 SG3 370.6 ST 531.8 SR 1631.2 SS 920.5
RDE -.7154 RRA-2.1441 RC3 .7578 FAU .02857 RRT .1039 RRF -.9980 RTF -.1316 CRT .4629 CRS .9911 CST .5764
FDE .8222 FRA 1.8146 FC3 -.7889 BSP 15744 SGB 5021.1 R23 .0266 R13 -.9981 LSA 1889.2 MSA 470.7 SSA 4.4
BDE .8842 BRA 2.1441 BC3 .7929 FSP -1195 SG1 4986.3 SG2 589.8 THA 89.28 EL1 1651.3 EL2 465.7 ALF 80.67

LAUNCH DATE SEP 23 1965 FLIGHT TIME 172.00 ARRIVAL DATE MAR 14 1966

HELIOCENTRIC CONIC DISTANCE 463.234

RL 150.11 LAL -.00 LOL 359.76 VL 27.339 GAL 4.04 AZL 97.43 HCA 201.98 SMA 130.00 ECC .16959 INC 7.4307 VI 29.684
RP 107.96 LAP 2.77 LOP 201.57 VP 37.917 GAP .21 AZP 83.10 TAL 159.48 TAP 1.46 RCA 107.96 APO 152.05 V2 35.101
RC 74.954 GL -44.61 GP 67.92 ZAL 61.28 ZAP 89.24 ETS 351.53 ZAE 117.89 ETE 100.91 ZAC 56.71 ETC 230.23 CLP -87.97

PLANETOCENTRIC CONIC

C3 25.223 VHL 5.022 DLA -58.65 RAL 336.87 RAD 6568.0 VEL 12.108 PTH 2.17 VHP 6.296 DPA 43.96 RAP 286.39 ECC 1.4151

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
36.22	10 57 53	1775.21	34.27	48.35	222.33	140.99	11 27 28	1175.2	40.32	42.17
143.78	20 23 12	5410.15	34.29	251.47	222.35	140.98	21 53 22	4810.2	40.33	245.29
36.22	10 57 53	1775.21	34.27	48.35	222.33	140.99	11 27 28	1175.2	40.32	42.17
143.78	20 23 12	5410.15	34.29	251.47	222.35	140.98	21 53 22	4810.2	40.33	245.29
36.22	10 57 53	1775.21	34.27	48.35	222.33	140.99	11 27 28	1175.2	40.32	42.17
143.78	20 23 12	5410.15	34.29	251.47	222.35	140.98	21 53 22	4810.2	40.33	245.29

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TOE -.3564 TRA .2926 TC3 -.4356 BAU .3732 SGT 876.6 SGR 4928.9 SG3 456.3 ST 450.0 SR 1556.8 SS 958.9
RDE -.5280 RRA-2.1814 RC3 1.0174 FAU .03765 RRT -.7573 RRF -.9979 RTF .7414 CRT -.0455 CRS .9898 CST .0970
FDE .7944 FRA 2.2974 FC3-1.2921 BSP 15740 SGB 5006.3 R23 .0374 R13 -.9974 LSA 1824.7 MSA 464.8 SSA 5.3
BDE .6370 BRA 2.2010 BC3 1.1067 FSP -1483 SG1 4974.0 SG2 567.3 THA 97.77 EL1 1556.9 EL2 449.5 ALF 90.82

LAUNCH DATE SEP 23 1965 FLIGHT TIME 174.00 ARRIVAL DATE MAR 16 1966

DISTANCE 469.566

HELIOCENTRIC CONIC

RL 150.11 LAL -.00 LOL 359.76 VL 27.342 GAL 4.09 AZL 96.27 HCA 205.16 SMA 130.03 ECC .16975 INC 6.2668 VI 29.684
RP 108.00 LAP 2.66 LOP 204.79 VP 37.908 GAP .64 AZP 84.32 TAL 159.25 TAP 4.42 RCA 107.95 APO 152.10 V2 35.083
RC 77.191 GL -40.06 GP 64.25 ZAL 58.23 ZAP 91.97 ETS 358.03 ZAE 120.41 ETE 107.60 ZAC 52.87 ETC 233.27 CLP -34.54

PLANETOCENTRIC CONIC

C3 21.401 VHL 4.626 DLA -54.32 RAL 333.99 RAD 6567.9 VEL 11.949 PTH 2.13 VHP 5.700 DPA 40.14 RAP 285.28 ECC 1.3522

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
41.49	11 0 45	1705.92	34.34	40.20	214.60	135.06	11 29 11	1105.9	39.79	33.27
138.51	19 57 20	5399.30	34.35	250.27	214.62	135.06	21 27 19	4799.3	39.80	243.33
41.49	11 0 45	1705.92	34.34	40.20	214.60	135.06	11 29 11	1105.9	39.79	33.27
138.51	19 57 20	5399.30	34.35	250.27	214.62	135.06	21 27 19	4799.3	39.80	243.33
41.49	11 0 45	1705.92	34.34	40.20	214.60	135.06	11 29 11	1105.9	39.79	33.27
138.51	19 57 20	5399.30	34.35	250.27	214.62	135.06	21 27 19	4799.3	39.80	243.33

DIFFERENTIAL CORRECTIONS

TDE -.2464 TRA .5823 TC3 -.6924 BAU .4026
RDE -.4282 RRA-2.1748 RC3 1.2250 FAU .04618
FDE .8260 FRA 2.7943 FC3-1.8683 BSP 15708
BDE .4941 BRA 2.2514 BC3 1.4072 FSP -1771

MID-COURSE EXECUTION ACCURACY

SGT 1425.7 SGR 4785.3 SG3 541.3
RRT -.9199 RRF -.9977 RTF .9106
SGB 4993.1 R23 .0483 R13 -.9967
SG1 4963.9 SG2 539.1 THA 105.51

ORBIT DETERMINATION ACCURACY

ST 480.7 SR 1484.1 SS 1011.5
CRT -.4945 CRS .9879 CST -.3537
LSA 1805.1 MSA 445.1 SSA 6.0
EL1 1504.5 EL2 412.2 ALF 99.85

LAUNCH DATE SEP 23 1965 FLIGHT TIME 176.00 ARRIVAL DATE MAR 18 1966

DISTANCE 475.883

HELIOCENTRIC CONIC

RL 150.11 LAL -.00 LOL 359.76 VL 27.343 GAL 4.15 AZL 95.35 HCA 208.35 SMA 130.03 ECC .17011 INC 5.3501 VI 29.684
RP 108.04 LAP 2.54 LOP 208.01 VP 37.896 GAP 1.07 AZP 85.29 TAL 159.00 TAP 7.35 RCA 107.91 APO 152.15 V2 35.076
RC 79.446 GL -35.77 GP 60.69 ZAL 55.51 ZAP 95.16 ETS 3.63 ZAE 122.47 ETE 113.98 ZAC 49.13 ETC 235.72 CLP-100.59

PLANETOCENTRIC CONIC

C3 18.920 VHL 4.350 DLA -50.21 RAL 331.77 RAD 6567.8 VEL 11.845 PTH 2.10 VHP 5.269 DPA 36.46 RAP 284.10 ECC 1.3114

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
46.63	11 7 29	1641.46	33.55	32.43	208.25	129.84	11 34 50	1041.5	38.43	25.00
133.37	19 32 55	5405.04	33.56	250.00	208.26	129.83	21 3 0	4805.0	38.44	242.58
46.63	11 7 29	1641.46	33.55	32.43	208.25	129.84	11 34 50	1041.5	38.43	25.00
133.37	19 32 55	5405.04	33.56	250.00	208.26	129.83	21 3 0	4805.0	38.44	242.58
46.63	11 7 29	1641.46	33.55	32.43	208.25	129.84	11 34 50	1041.5	38.43	25.00
133.37	19 32 55	5405.04	33.56	250.00	208.26	129.83	21 3 0	4805.0	38.44	242.58

DIFFERENTIAL CORRECTIONS

TDE -.1549 TRA .8625 TC3 -.9849 BAU .4248
RDE -.3795 RRA-2.1374 RC3 1.3602 FAU .05362
FDE .9090 FRA 3.2864 FC3-2.4535 BSP 15584
BDE .4099 BRA 2.3049 BC3 1.6793 FSP -2032

MID-COURSE EXECUTION ACCURACY

SGT 1982.0 SGR 4583.4 SG3 621.6
RRT -.9603 RRF -.9974 RTF .9535
SGB 4993.6 R23 .0584 R13 -.9958
SG1 4967.5 SG2 510.1 THA 112.80

ORBIT DETERMINATION ACCURACY

ST 571.0 SR 1411.9 SS 1073.2
CRT -.7467 CRS .9854 CST -.6229
LSA 1814.9 MSA 420.9 SSA 6.9
EL1 1479.2 EL2 362.5 ALF 107.92

LAUNCH DATE SEP 23 1965 FLIGHT TIME 178.00 ARRIVAL DATE MAR 20 1966

DISTANCE 482.181

HELIOCENTRIC CONIC

RL 150.11 LAL -.00 LOL 359.76 VL 27.342 GAL 4.22 AZL 94.61 HCA 211.54 SMA 130.02 ECC .17069 INC 4.6056 VI 29.684
RP 108.08 LAP 2.41 LOP 211.22 VP 37.883 GAP 1.49 AZP 86.07 TAL 158.70 TAP 10.24 RCA 107.83 APO 152.22 V2 35.063
RC 81.719 GL -31.79 GP 57.21 ZAL 53.08 ZAP 98.70 ETS 8.48 ZAE 124.08 ETE 120.12 ZAC 45.47 ETC 237.67 CLP-106.22

PLANETOCENTRIC CONIC

C3 17.278 VHL 4.157 DLA -46.35 RAL 330.05 RAD 6567.7 VEL 11.775 PTH 2.08 VHP 4.959 DPA 32.89 RAP 282.91 ECC 1.2844

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
51.64	11 17 39	1578.50	32.19	25.01	203.12	125.35	11 43 58	978.5	36.57	17.31
128.36	19 9 2	5425.63	32.21	250.79	203.13	125.33	20 39 27	4825.6	36.58	243.08
51.64	11 17 39	1578.50	32.19	25.01	203.12	125.35	11 43 58	978.5	36.57	17.31
128.36	19 9 2	5425.63	32.21	250.79	203.13	125.33	20 39 27	4825.6	36.58	243.08
51.64	11 17 39	1578.50	32.19	25.01	203.12	125.35	11 43 58	978.5	36.57	17.31
128.36	19 9 2	5425.63	32.21	250.79	203.13	125.33	20 39 27	4825.6	36.58	243.08

DIFFERENTIAL CORRECTIONS

TDE -.0686 TRA 1.1319 TC3-1.2943 BAU .4468
RDE -.3511 RRA-2.0683 RC3 1.4371 FAU .06023
FDE 1.0196 FRA 3.7374 FC3-3.0179 BSP 15613
BDE .3577 BRA 2.3578 BC3 1.9341 FSP -2280

MID-COURSE EXECUTION ACCURACY

SGT 2505.1 SGR 4326.8 SG3 691.0
RRT -.9757 RRF -.9970 RTF .9700
SGB 4999.6 R23 .0671 R13 -.9948
SG1 4976.8 SG2 477.4 THA 119.76

ORBIT DETERMINATION ACCURACY

ST 685.4 SR 1330.7 SS 1133.1
CRT -.8723 CRS .9824 CST -.7657
LSA 1835.1 MSA 395.9 SSA 7.7
EL1 1465.6 EL2 304.3 ALF 115.36

LAUNCH DATE SEP 23 1965 FLIGHT TIME 180.00 ARRIVAL DATE MAR 22 1966

DISTANCE 488.458

HELIOCENTRIC CONIC

RL 150.11 LAL -.00 LOL 359.76 VL 27.339 GAL 4.30 AZL 93.99 HCA 214.74 SMA 130.00 ECC .17148 INC 3.9856 VI 29.684
RP 108.12 LAP 2.27 LOP 214.43 VP 37.869 GAP 1.91 AZP 86.72 TAL 158.37 TAP 13.10 RCA 107.71 APO 152.30 V2 35.050
RC 84.008 GL -28.09 GP 53.80 ZAL 50.93 ZAP 102.48 ETS 12.65 ZAE 125.26 ETE 126.01 ZAC 41.90 ETC 239.14 CLP-111.47

PLANETOCENTRIC CONIC

C3 16.196 VHL 4.024 DLA -42.73 RAL 328.72 RAD 6567.6 VEL 11.729 PTH 2.07 VHP 4.741 DPA 29.42 RAP 281.79 ECC 1.2665

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
56.55	11 31 15	1513.97	30.51	17.82	199.07	121.51	11 56 29	914.0	34.43	9.97
123.45	18 44 47	5460.46	30.52	252.66	199.08	121.50	20 15 47	4860.5	34.44	244.81
56.55	11 31 15	1513.97	30.51	17.82	199.07	121.51	11 56 29	914.0	34.43	9.97
123.45	18 44 47	5460.46	30.52	252.66	199.08	121.50	20 15 47	4860.5	34.44	244.81
56.55	11 31 15	1513.97	30.51	17.82	199.07	121.51	11 56 29	914.0	34.43	9.97
123.45	18 44 47	5460.46	30.52	252.66	199.08	121.50	20 15 47	4860.5	34.44	244.81

DIFFERENTIAL CORRECTIONS

TDE .0195 TRA 1.3912 TC3-1.6006 BAU .4676
RDE -.3341 RRA-1.9807 RC3 1.4495 FAU .06538
FDE 1.1512 FRA 4.1356 FC3-3.4949 BSP 15676
BDE .3347 BRA 2.4205 BC3 2.1594 FSP -2486

MID-COURSE EXECUTION ACCURACY

SGT 2988.7 SGR 4040.7 SG3 747.5
RRT -.9828 RRF -.9965 RTF .9779
SGB 5025.9 R23 .0733 R13 -.9938
SG1 5006.2 SG2 444.9 THA 126.35

ORBIT DETERMINATION ACCURACY

ST 810.4 SR 1246.6 SS 1192.5
CRT -.9367 CRS .9788 CST -.8453
LSA 1869.3 MSA 372.3 SSA 8.5
EL1 1467.2 EL2 241.0 ALF 122.32

LAUNCH DATE SEP 23 1965 FLIGHT TIME 182.00 ARRIVAL DATE MAR 24 1966

HELIOCENTRIC CONIC DISTANCE 494.715

RL	150.11	LAL	-.00	LOL	359.76	VL	27.334	GAL	4.40	AZL	93.46	HCA	217.93	SMA	129.97	ECC	.17248	INC	3.4584	VI	29.684
RP	108.16	LAP	2.13	LOP	217.64	VP	37.853	GAP	2.32	AZP	87.27	TAL	157.99	TAP	15.92	RCA	107.55	APO	152.39	V2	35.036
RC	86.309	GL	-24.68	GP	50.47	ZAL	49.01	ZAP	106.41	ETS	16.22	ZAE	126.04	ETE	131.58	ZAC	38.46	ETC	240.13	CLP	-116.35

PLANETOCENTRIC CONIC

C3	15.506	VHL	3.938	DLA	-39.37	RAL	327.68	RAD	6567.6	VEL	11.700	PTH	2.06	VHP	4.594	DPA	26.06	RAP	280.78	ECC	1.2552

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
61.42	11 48 33	1444.55	28.65	10.62	195.91	118.24	12 12 37	844.5	32.18	2.71
118.58	18 19 13	5510.14	28.66	255.71	195.92	118.23	19 51 3	4910.1	32.19	247.79
61.42	11 48 33	1444.55	28.65	10.62	195.91	118.24	12 12 37	844.5	32.18	2.71
118.58	18 19 13	5510.14	28.66	255.71	195.92	118.23	19 51 3	4910.1	32.19	247.79
61.42	11 48 33	1444.55	28.65	10.62	195.91	118.24	12 12 37	844.5	32.18	2.71
118.58	18 19 13	5510.14	28.66	255.71	195.92	118.23	19 51 3	4910.1	32.19	247.79

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY				ORBIT DETERMINATION ACCURACY			
TDE	.1114	TRA	1.6396	TC3	-1.8883	BAU	.4886	SGT	3429.4	SGR	3737.7	SG3	788.6	ST	940.9	SR	1159.5	SS	1247.7
RDE	-.3198	RRA	-1.8800	RC3	1.4102	FAU	.06900	RRT	-.9866	RRF	-.9958	RTF	.9821	CRT	-.9713	CRS	.9744	CST	-.8932
FDE	1.2891	FRA	4.4638	FC3	-3.8528	BSP	15816	SGB	5072.6	R23	.0761	R13	-.9928	LSA	1913.9	MSA	351.0	SSA	9.3
BDE	.3386	BRA	2.4945	BC3	2.3568	FSP	-2646	SG1	5055.7	SG2	413.6	THA	132.50	EL1	1482.9	EL2	175.1	ALF	128.89

LAUNCH DATE SEP 23 1965 FLIGHT TIME 184.00 ARRIVAL DATE MAR 26 1966

HELIOCENTRIC CONIC DISTANCE 500.948

RL	150.11	LAL	-.00	LOL	359.76	VL	27.328	GAL	4.51	AZL	93.00	HCA	221.12	SMA	129.92	ECC	.17369	INC	3.0019	VI	29.684
RP	108.20	LAP	1.97	LOP	220.84	VP	37.836	GAP	2.74	AZP	87.74	TAL	157.58	TAP	18.70	RCA	107.36	APO	152.49	V2	35.023
RC	88.623	GL	-21.53	GP	47.25	ZAL	47.30	ZAP	110.39	ETS	19.24	ZAE	126.46	ETE	136.76	ZAC	35.17	ETC	240.57	CLP	-120.88

PLANETOCENTRIC CONIC

C3	15.107	VHL	3.887	DLA	-36.24	RAL	326.88	RAD	6567.6	VEL	11.683	PTH	2.05	VHP	4.507	DPA	22.81	RAP	279.92	ECC	1.2486

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
66.37	12 10 23	1365.86	26.71	3.07	193.51	115.45	12 33 9	765.9	29.91	355.15
113.63	17 51 1	5577.10	26.73	260.09	193.51	115.44	19 23 58	4977.1	29.92	252.17
66.37	12 10 23	1365.86	26.71	3.07	193.51	115.45	12 33 9	765.9	29.91	355.15
113.63	17 51 1	5577.10	26.73	260.09	193.51	115.44	19 23 58	4977.1	29.92	252.17
66.37	12 10 23	1365.86	26.71	3.07	193.51	115.45	12 33 9	765.9	29.91	355.15
113.63	17 51 1	5577.10	26.73	260.09	193.51	115.44	19 23 58	4977.1	29.92	252.17

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY				ORBIT DETERMINATION ACCURACY			
TDE	.2080	TRA	1.8779	TC3	-2.1454	BAU	.5100	SGT	3828.3	SGR	3431.4	SG3	813.8	ST	1075.5	SR	1071.7	SS	1297.8
RDE	-.3052	RRA	-1.7730	RC3	1.3318	FAU	.07104	RRT	-.9886	RRF	-.9948	RTF	.9847	CRT	-.9895	CRS	.9693	CST	-.9238
FDE	1.4248	FRA	4.7160	FC3	-4.0711	BSP	16026	SGB	5141.1	R23	.0752	R13	-.9920	LSA	1969.4	MSA	332.9	SSA	10.2
BDE	.3694	BRA	2.5826	BC3	2.5252	FSP	-2755	SG1	5126.6	SG2	386.0	THA	138.16	EL1	1514.3	EL2	109.9	ALF	135.11

LAUNCH DATE SEP 23 1965 FLIGHT TIME 186.00 ARRIVAL DATE MAR 28 1966

HELIOCENTRIC CONIC DISTANCE 507.159

RL	150.11	LAL	-.00	LOL	359.76	VL	27.320	GAL	4.64	AZL	92.60	HCA	224.31	SMA	129.87	ECC	.17512	INC	2.6005	VI	29.684
RP	108.24	LAP	1.82	LOP	224.05	VP	37.818	GAP	3.15	AZP	88.14	TAL	157.13	TAP	21.45	RCA	107.13	APO	152.61	V2	35.010
RC	90.946	GL	-18.65	GP	44.16	ZAL	45.76	ZAP	114.34	ETS	21.79	ZAE	126.57	ETE	141.51	ZAC	32.08	ETC	240.44	CLP	-125.06

PLANETOCENTRIC CONIC

C3	14.934	VHL	3.864	DLA	-33.34	RAL	326.28	RAD	6567.6	VEL	11.676	PTH	2.05	VHP	4.468	DPA	19.71	RAP	279.23	ECC	1.2458

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
71.62	12 38 35	1270.69	24.77	354.61	191.72	113.06	12 59 46	670.7	27.67	346.71
108.38	17 18 2	5667.12	24.78	266.20	191.73	113.05	18 52 29	5067.1	27.68	258.30
71.62	12 38 35	1270.69	24.77	354.61	191.72	113.06	12 59 46	670.7	27.67	346.71
108.38	17 18 2	5667.12	24.78	266.20	191.73	113.05	18 52 29	5067.1	27.68	258.30
110.00	16 30 27	5813.09	20.09	275.08	189.29	118.25	18 7 20	5213.1	23.71	267.80
110.00	18 25 21	5460.76	29.64	252.22	193.76	107.86	19 56 21	4860.8	31.80	243.67

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY				ORBIT DETERMINATION ACCURACY			
TDE	.3110	TRA	2.1090	TC3	-2.3591	BAU	.5304	SGT	4188.8	SGR	3133.9	SG3	824.3	ST	1215.0	SR	986.4	SS	1344.1
RDE	-.2901	RRA	-1.6663	RC3	1.2211	FAU	.07123	RRT	-.9894	RRF	-.9935	RTF	.9861	CRT	-.9980	CRS	.9631	CST	-.9445
FDE	1.5548	FRA	4.8968	FC3	-4.1291	BSP	16239	SGB	5231.3	R23	.0710	R13	-.9912	LSA	2038.3	MSA	318.1	SSA	10.9
BDE	.4253	BRA	2.6879	BC3	2.6564	FSP	-2800	SG1	5218.5	SG2	365.7	THA	143.28	EL1	1564.3	EL2	49.0	ALF	140.94

LAUNCH DATE SEP 23 1965 FLIGHT TIME 188.00 ARRIVAL DATE MAR 30 1966

HELIOCENTRIC CONIC DISTANCE 513.345

RL	150.11	LAL	-.00	LOL	359.76	VL	27.310	GAL	4.78	AZL	92.24	HCA	227.51	SMA	129.80	ECC	.17675	INC	2.2427	VI	29.684
RP	108.29	LAP	1.65	LOP	227.24	VP	37.799	GAP	3.56	AZP	88.48	TAL	156.64	TAP	24.15	RCA	106.86	APO	152.75	V2	34.996
RC	93.279	GL	-15.99	GP	41.23	ZAL	44.39	ZAP	118.20	ETS	23.93	ZAE	126.41	ETE	145.78	ZAC	29.23	ETC	239.65	CLP	-128.93

PLANETOCENTRIC CONIC

C3	14.944	VHL	3.866	DLA	-30.65	RAL	325.85	RAD	6567.6	VEL	11.676	PTH	2.05	VHP	4.471	DPA	16.78	RAP	278.75	ECC	1.2459

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
77.76	13 18 26	1140.80	22.86	343.90	190.45	110.98	13 37 27	540.8	25.51	336.03
102.24	16 34 41	5797.33	22.88	275.25	190.46	110.97	18 11 18	5197.3	25.52	267.39
77.76	13 18 26	1140.80	22.86	343.90	190.45	110.98	13 37 27	540.8	25.51	336.03
102.24	16 34 41	5797.33	22.88	275.25	190.46	110.97	18 11 18	5197.3	25.52	267.39
110.00	15 29 25	714.31	13.64	308.04	185.66	121.65	15 41 20	114.3	17.73	301.32
110.00	19 22 52	5271.81	32.79	238.41	193.59	100.26	20 50 44	4671.8	33.85	229.34

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY				ORBIT DETERMINATION ACCURACY			
TDE	.4162	TRA	2.3301	TC3	-2.5353	BAU	.5525	SGT	4509.6	SGR	2847.9	SG3	820.5	ST	1354.3	SR	900.4	SS	1379.0
RDE	-.2699	RRA	-1.5599	RC3	1.1040	FAU	.07042	RRT	-.9895	RRF	-.9917	RTF	.9871	CRT	-.9998	CRS	.9552	CST	-.9588
FDE	1.6611	FRA	4.9989	FC3	-4.0797	BSP	16586	SGB	5333.6	R23	.0631	R13	-.9906	LSA	2110.2	MSA	306.0	SSA	11.6
BDE	.4961	BRA	2.8040	BC3	2.7652	FSP	-2813	SG1	5322.1	SG2	349.5	THA	147.84	EL1	1626.2	EL2	14.8	ALF	146.39

LAUNCH DATE SEP 23 1965 FLIGHT TIME 190.00 ARRIVAL DATE APR 1 1966

HELIOCENTRIC CONIC DISTANCE 519.506

RL 150.11 LAL -.00 LOL 359.76 VL 27.300 GAL 4.94 AZL 91.92 HCA 230.69 SMA 129.73 ECC .17860 INC 1.9200 V1 29.684
RP 108.33 LAP 1.49 LOP 230.44 VP 37.780 GAP 3.98 AZP 88.78 TAL 156.12 TAP 26.81 RCA 106.56 APO 152.90 V2 34.983
RC 95.621 GL -13.56 GP 38.48 ZAL 43.14 ZAP 121.93 ETS 25.73 ZAE 126.05 ETE 149.58 ZAC 26.65 ETC 238.16 CLP-132.51

PLANETOCENTRIC CONIC

C3 15.111 VHL 3.887 DLA -28.15 RAL 325.54 RAD 6567.6 VEL 11.683 PTH 2.05 VHP 4.508 DPA 14.03 RAP 278.46 ECC 1.2487

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	14 28 39	914.22	19.10	325.65	188.87	111.31	14 43 53	314.2	21.83	318.04
90.00	15 22 4	740.84	22.99	314.43	190.31	107.01	15 34 25	140.8	25.10	306.40
100.00	14 51 16	841.03	14.75	318.29	186.86	116.30	15 5 17	241.0	18.17	311.16
100.00	17 42 8	5577.30	27.58	260.43	191.63	102.00	19 15 6	4977.3	28.96	251.89
110.00	14 53 20	834.51	9.25	314.59	183.66	123.05	15 7 15	234.5	13.54	308.12
110.00	19 56 33	5156.59	33.84	229.59	192.72	95.14	21 22 30	4556.6	34.18	220.36

DIFFERENTIAL CORRECTIONS
TDE .5252 TRA 2.5454 TC3-2.6672 BAU .5742
RDE -.2472 RRA-1.4593 RC3 .9815 FAU .06843
FDE 1.7475 FRA 5.0393 FC3-3.9205 BSP 16975
BDE .5805 BRA 2.9340 BC3 2.8421 FSP -2785

MID-COURSE EXECUTION ACCURACY
SGT 4796.4 SGR 2582.0 SG3 805.4
RRT -.9888 RRF -.9895 RTF .9877
SGB 5447.2 R23 .0532 R13 -.9900
SG1 5436.5 SG2 340.4 THA 151.85

ORBIT DETERMINATION ACCURACY
ST 1494.2 SR 817.9 SS 1406.0
CRT -.9965 CRS .9451 CST -.9689
LSA 2188.7 MSA 296.6 SSA 12.1
EL1 1702.3 EL2 60.4 ALF 151.35

LAUNCH DATE SEP 23 1965 FLIGHT TIME 192.00 ARRIVAL DATE APR 3 1966

HELIOCENTRIC CONIC DISTANCE 525.641

RL 150.11 LAL -.00 LOL 359.76 VL 27.288 GAL 5.11 AZL 91.63 HCA 233.88 SMA 129.65 ECC .18068 INC 1.6257 V1 29.684
RP 108.37 LAP 1.31 LOP 233.63 VP 37.759 GAP 4.39 AZP 89.04 TAL 155.56 TAP 29.44 RCA 106.22 APO 153.07 V2 34.970
RC 97.969 GL -11.33 GP 35.92 ZAL 42.00 ZAP 125.50 ETS 27.27 ZAE 125.54 ETE 152.92 ZAC 24.37 ETC 235.89 CLP-135.81

PLANETOCENTRIC CONIC

C3 15.417 VHL 3.926 DLA -25.84 RAL 325.36 RAD 6567.6 VEL 11.696 PTH 2.06 VHP 4.576 DPA 11.47 RAP 278.39 ECC 1.2537

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	13 10 56	1173.25	11.99	341.34	186.15	115.85	13 30 29	573.2	15.37	334.30
90.00	16 38 18	5778.86	26.89	275.09	191.13	99.24	18 14 37	5178.9	27.89	266.57
100.00	14 5 57	995.60	9.91	327.21	185.07	118.35	14 22 33	395.6	13.62	320.39
100.00	18 25 58	5431.74	29.20	249.92	191.50	96.70	19 56 30	4831.7	29.82	241.17
110.00	14 26 39	930.65	5.65	319.70	182.48	123.77	14 42 10	330.7	10.04	313.37
110.00	20 21 46	5069.46	34.17	222.80	191.90	91.14	21 46 15	4469.5	33.95	213.57

DIFFERENTIAL CORRECTIONS
TDE .6378 TRA 2.7562 TC3-2.7579 BAU .5956
RDE -.2228 RRA-1.3658 RC3 .8624 FAU .06560
FDE 1.8143 FRA 5.0278 FC3-3.6837 BSP 17393
BDE .6756 BRA 3.0760 BC3 2.8696 FSP -2723

MID-COURSE EXECUTION ACCURACY
SGT 5052.4 SGR 2338.4 SG3 781.6
RRT -.9874 RRF -.9867 RTF .9881
SGB 5567.3 R23 .0427 R13 -.9896
SG1 5557.1 SG2 337.0 THA 155.34

ORBIT DETERMINATION ACCURACY
ST 1633.3 SR 739.9 SS 1425.2
CRT -.9885 CRS .9324 CST -.9762
LSA 2272.1 MSA 289.6 SSA 12.6
EL1 1790.2 EL2 102.3 ALF 155.79

LAUNCH DATE SEP 23 1965 FLIGHT TIME 194.00 ARRIVAL DATE APR 5 1966

HELIOCENTRIC CONIC DISTANCE 531.749

RL 150.11 LAL -.00 LOL 359.76 VL 27.275 GAL 5.30 AZL 91.35 HCA 237.07 SMA 129.56 ECC .18298 INC 1.3545 V1 29.684
RP 108.41 LAP 1.14 LOP 236.82 VP 37.738 GAP 4.80 AZP 89.26 TAL 154.97 TAP 32.03 RCA 105.85 APO 153.27 V2 34.957
RC 100.323 GL -9.28 GP 33.55 ZAL 40.95 ZAP 128.88 ETS 28.59 ZAE 124.93 ETE 155.82 ZAC 22.42 ETC 232.81 CLP-138.87

PLANETOCENTRIC CONIC

C3 15.852 VHL 3.981 DLA -23.70 RAL 325.27 RAD 6567.6 VEL 11.715 PTH 2.06 VHP 4.669 DPA 9.10 RAP 278.51 ECC 1.2609

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 32 53	1309.44	7.84	349.19	185.03	117.30	12 54 43	709.4	11.43	342.36
90.00	17 15 40	5655.24	27.92	266.20	191.09	94.90	18 49 55	5055.2	28.31	257.55
100.00	13 35 12	1108.30	6.21	333.53	184.15	119.30	13 53 40	508.3	10.07	326.86
100.00	18 56 2	5331.61	29.77	242.53	191.23	92.86	20 24 54	4731.6	29.85	233.73
110.00	14 5 28	1013.37	2.50	324.04	181.85	124.10	14 22 22	413.4	6.96	317.79
110.00	20 42 15	4999.30	34.13	217.33	191.26	87.90	22 5 35	4399.3	33.46	208.15

DIFFERENTIAL CORRECTIONS
TDE .7538 TRA 2.9648 TC3-2.8084 BAU .6160
RDE -.1971 RRA-1.2806 RC3 .7497 FAU .06208
FDE 1.8618 FRA 4.9769 FC3-3.3903 BSP 17822
BDE .7791 BRA 3.2296 BC3 2.9067 FSP -2634

MID-COURSE EXECUTION ACCURACY
SGT 5281.0 SGR 2118.4 SG3 751.5
RRT -.9851 RRF -.9831 RTF .9882
SGB 5690.1 R23 .0328 R13 -.9892
SG1 5680.0 SG2 338.6 THA 158.36

ORBIT DETERMINATION ACCURACY
ST 1770.7 SR 667.4 SS 1437.1
CRT -.9757 CRS .9162 CST -.9816
LSA 2359.0 MSA 284.3 SSA 12.9
EL1 1887.3 EL2 137.2 ALF 159.70

LAUNCH DATE SEP 23 1965 FLIGHT TIME 196.00 ARRIVAL DATE APR 7 1966

HELIOCENTRIC CONIC DISTANCE 537.829

RL 150.11 LAL -.00 LOL 359.76 VL 27.261 GAL 5.51 AZL 91.10 HCA 240.25 SMA 129.46 ECC .18551 INC 1.1024 V1 29.684
RP 108.44 LAP .96 LOP 240.01 VP 37.716 GAP 5.22 AZP 89.45 TAL 154.34 TAP 34.59 RCA 105.45 APO 153.48 V2 34.945
RC 102.682 GL -7.40 GP 31.37 ZAL 39.99 ZAP 132.07 ETS 29.76 ZAE 124.25 ETE 158.32 ZAC 20.82 ETC 228.91 CLP-141.70

PLANETOCENTRIC CONIC

C3 16.410 VHL 4.051 DLA -21.71 RAL 325.27 RAD 6567.7 VEL 11.739 PTH 2.07 VHP 4.786 DPA 6.92 RAP 278.83 ECC 1.2701

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 5 21	1415.30	4.49	355.17	184.55	117.99	12 28 56	815.3	8.20	348.45
90.00	17 43 12	5565.13	28.27	259.63	191.05	91.62	19 15 58	4965.1	28.20	250.97
100.00	13 11 31	1201.74	3.07	338.69	183.77	119.75	13 31 33	601.7	7.01	332.11
100.00	19 19 43	5253.92	29.89	236.76	191.07	89.82	20 47 17	4653.9	29.55	227.97
110.00	13 48 3	1087.23	-.32	327.89	181.65	124.18	14 6 10	487.2	4.16	321.68
110.00	20 59 41	4941.20	33.89	212.81	190.87	85.23	22 22 2	4341.2	32.86	203.72

DIFFERENTIAL CORRECTIONS
TDE .8754 TRA 3.1753 TC3-2.8178 BAU .6341
RDE -.1718 RRA-1.2050 RC3 .6441 FAU .05791
FDE 1.8968 FRA 4.9012 FC3-3.0549 BSP 18197
BDE .8921 BRA 3.3963 BC3 2.8905 FSP -2519

MID-COURSE EXECUTION ACCURACY
SGT 5487.6 SGR 1922.7 SG3 717.7
RRT -.9819 RRF -.9788 RTF .9881
SGB 5814.7 R23 .0245 R13 -.9889
SG1 5804.5 SG2 343.9 THA 160.95

ORBIT DETERMINATION ACCURACY
ST 1908.1 SR 601.8 SS 1445.1
CRT -.9580 CRS .8963 CST -.9857
LSA 2452.1 MSA 280.2 SSA 13.2
EL1 1993.9 EL2 165.2 ALF 163.07

LAUNCH DATE SEP 23 1965 FLIGHT TIME 198.00 ARRIVAL DATE APR 9 1966

HELIOCENTRIC CONIC DISTANCE 543.880

RL 150.11 LAL -.00 LOL 359.76 VL 27.246 GAL 5.74 AZL 90.87 HCA 243.43 SMA 129.36 ECC .18830 INC .8660 V1 29.684
RP 108.48 LAP .77 LOP 243.19 VP 37.693 GAP 5.64 AZP 89.61 TAL 153.68 TAP 37.12 RCA 105.00 APO 153.72 V2 34.932
RC 105.043 GL -5.69 GP 29.38 ZAL 39.08 ZAP 135.07 ETS 30.81 ZAE 123.55 ETE 160.48 ZAC 19.59 ETC 224.24 CLP-144.34

PLANETOCENTRIC CONIC

C3 17.090 VHL 4.134 DLA -19.87 RAL 325.35 RAD 6567.7 VEL 11.767 PTH 2.08 VHP 4.923 DPA 4.93 RAP 279.33 ECC 1.2813

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 43 37	1505.14	1.60	.19	184.50	118.28	12 8 42	905.1	5.37	353.54
90.00	18 5 32	5493.92	28.30	254.42	191.14	89.01	19 37 6	4893.9	27.86	245.78
100.00	12 52 18	1283.45	.30	343.17	183.78	119.89	13 13 42	683.4	4.28	336.64
100.00	19 39 32	5190.85	29.79	232.07	191.09	87.36	21 6 2	4590.8	29.10	223.34
110.00	13 33 24	1154.66	-2.90	331.41	181.78	124.07	13 52 39	554.7	1.59	325.21
110.00	21 14 55	4892.40	33.55	209.04	190.72	83.03	22 36 28	4292.4	32.22	200.06

DIFFERENTIAL CORRECTIONS
TOE .9972 TRA 3.3839 TC3-2.8018 BAU .6525
RDE -.1448 RRA-1.1364 RC3 .5534 FAU .05379
FDE 1.9107 FRA 4.7997 FC3-2.7248 BSP 18640
BDE 1.0076 BRA 3.5696 BC3 2.8559 FSP -2405

MID-COURSE EXECUTION ACCURACY
SGT 5669.8 SGR 1747.6 SG3 681.0
RRT -.9778 RRF -.9734 RTF .9881
SGB 5933.0 R23 .0170 R13 -.9885
SG1 5922.7 SG2 350.4 THA 163.17

ORBIT DETERMINATION ACCURACY
ST 2037.9 SR 541.2 SS 1443.8
CRT -.9339 CRS .8703 CST -.9888
LSA 2540.4 MSA 277.3 SSA 13.4
EL1 2100.2 EL2 187.8 ALF 165.96

LAUNCH DATE SEP 23 1965 FLIGHT TIME 200.00 ARRIVAL DATE APR 11 1966

HELIOCENTRIC CONIC DISTANCE 549.900

RL 150.11 LAL -.00 LOL 359.76 VL 27.230 GAL 5.98 AZL 90.64 HCA 246.62 SMA 129.25 ECC .19134 INC .6424 V1 29.684
RP 108.52 LAP .59 LOP 246.37 VP 37.671 GAP 6.07 AZP 89.74 TAL 152.99 TAP 39.61 RCA 104.52 APO 153.98 V2 34.920
RC 107.406 GL -4.12 GP 27.56 ZAL 38.23 ZAP 137.88 ETS 31.78 ZAE 122.84 ETE 162.33 ZAC 18.76 ETC 218.98 CLP-146.79

PLANETOCENTRIC CONIC

C3 17.893 VHL 4.230 DLA -18.16 RAL 325.49 RAD 6567.7 VEL 11.801 PTH 2.09 VHP 5.080 DPA 3.13 RAP 280.00 ECC 1.2945

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 25 44	1584.70	-.97	4.63	184.79	118.30	11 52 8	984.7	2.82	358.00
90.00	18 24 32	5435.65	28.16	250.17	191.40	86.88	19 55 7	4835.7	27.43	241.58
100.00	12 36 16	1357.07	-2.19	347.21	184.11	119.82	12 58 53	757.1	1.79	340.69
100.00	19 56 40	5138.51	29.56	228.20	191.29	85.33	21 22 19	4538.5	28.60	219.53
110.00	13 20 55	1217.17	-5.28	334.69	182.19	123.82	13 41 12	617.2	-.80	328.47
110.00	21 28 31	4851.18	33.16	205.88	190.79	81.20	22 49 22	4251.2	31.59	197.01

DIFFERENTIAL CORRECTIONS
TOE 1.1221 TRA 3.5950 TC3-2.7591 BAU .6696
RDE -.1181 RRA-1.0758 RC3 .4736 FAU .04957
FDE 1.9129 FRA 4.6862 FC3-2.3985 BSP 19064
BDE 1.1283 BRA 3.7525 BC3 2.7594 FSP -2283

MID-COURSE EXECUTION ACCURACY
SGT 5832.9 SGR 1593.1 SG3 643.4
RRT -.9726 RRF -.9670 RTF .9879
SGB 6046.6 R23 .0111 R13 -.9882
SG1 6036.0 SG2 358.0 THA 165.07

ORBIT DETERMINATION ACCURACY
ST 2163.1 SR 487.2 SS 1437.9
CRT -.9026 CRS .8376 CST -.9911
LSA 2628.3 MSA 275.0 SSA 13.5
EL1 2207.7 EL2 205.5 ALF 168.41

LAUNCH DATE SEP 23 1965 FLIGHT TIME 202.00 ARRIVAL DATE APR 13 1966

HELIOCENTRIC CONIC DISTANCE 555.888

RL 150.11 LAL -.00 LOL 359.76 VL 27.213 GAL 6.24 AZL 90.43 HCA 249.79 SMA 129.14 ECC .19465 INC .4296 V1 29.684
RP 108.56 LAP .40 LOP 249.55 VP 37.648 GAP 6.50 AZP 89.85 TAL 152.28 TAP 42.07 RCA 104.00 APO 154.27 V2 34.909
RC 109.770 GL -2.68 GP 25.91 ZAL 37.43 ZAP 140.51 ETS 32.72 ZAE 122.14 ETE 163.91 ZAC 18.32 ETC 213.35 CLP-149.09

PLANETOCENTRIC CONIC

C3 18.824 VHL 4.339 DLA -16.58 RAL 325.68 RAD 6567.8 VEL 11.841 PTH 2.10 VHP 5.253 DPA 1.49 RAP 280.82 ECC 1.3098

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 10 39	1656.94	-3.29	8.66	185.35	118.14	11 38 16	1056.9	.50	2.03
90.00	18 41 9	5387.17	27.93	246.64	191.84	85.13	20 10 56	4787.2	26.96	238.11
100.00	12 22 38	1424.70	-4.47	350.94	184.69	119.59	12 46 23	824.7	-.50	344.40
100.00	20 11 51	5094.65	29.27	224.97	191.69	83.66	21 36 46	4494.6	28.09	216.37
110.00	13 10 10	1275.79	-7.49	337.79	182.83	123.45	13 31 26	675.8	-3.04	331.53
110.00	21 40 49	4816.33	32.77	203.24	191.09	79.68	23 1 5	4216.3	31.00	194.46

DIFFERENTIAL CORRECTIONS
TOE 1.2507 TRA 3.8100 TC3-2.6920 BAU .6851
RDE -.0918 RRA-1.0224 RC3 .4039 FAU .04533
FDE 1.9062 FRA 4.5659 FC3-2.0847 BSP 19471
BDE 1.2541 BRA 3.9449 BC3 2.7222 FSP -2160

MID-COURSE EXECUTION ACCURACY
SGT 5978.6 SGR 1456.8 SG3 606.0
RRT -.9661 RRF -.9594 RTF .9876
SGB 6153.5 R23 .0064 R13 -.9878
SG1 6142.7 SG2 365.8 THA 166.71

ORBIT DETERMINATION ACCURACY
ST 2283.3 SR 439.8 SS 1428.2
CRT -.8630 CRS .7973 CST -.9929
LSA 2715.1 MSA 273.0 SSA 13.5
EL1 2314.9 EL2 219.2 ALF 170.48

LAUNCH DATE SEP 23 1965 FLIGHT TIME 204.00 ARRIVAL DATE APR 15 1966

HELIOCENTRIC CONIC DISTANCE 561.841

RL 150.11 LAL -.00 LOL 359.76 VL 27.196 GAL 6.53 AZL 90.23 HCA 252.97 SMA 129.02 ECC .19825 INC .2251 V1 29.684
RP 108.59 LAP .22 LOP 252.73 VP 37.624 GAP 6.94 AZP 89.93 TAL 151.54 TAP 44.51 RCA 103.44 APO 154.59 V2 34.897
RC 112.133 GL -1.37 GP 24.41 ZAL 36.66 ZAP 142.97 ETS 33.65 ZAE 121.46 ETE 165.27 ZAC 18.25 ETC 207.64 CLP-151.25

PLANETOCENTRIC CONIC

C3 19.891 VHL 4.460 DLA -15.10 RAL 325.92 RAD 6567.8 VEL 11.886 PTH 2.11 VHP 5.443 DPA .02 RAP 281.79 ECC 1.3274

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 57 46	1723.64	-5.42	12.41	186.13	117.83	11 26 29	1123.6	-1.66	5.75
90.00	18 55 59	5346.56	27.66	243.70	192.44	83.68	20 25 5	4746.6	26.50	235.22
100.00	12 10 54	1487.66	-6.58	354.43	185.50	119.22	12 35 41	887.7	-2.64	347.86
100.00	20 25 31	5057.77	28.97	222.27	192.26	82.27	21 49 49	4457.8	27.59	213.74
110.00	13 0 51	1331.21	-9.56	340.75	183.69	122.98	13 23 2	731.2	-5.15	334.43
110.00	21 52 4	4786.99	32.39	201.03	191.58	78.42	23 11 51	4187.0	30.46	192.35

DIFFERENTIAL CORRECTIONS
TOE 1.3827 TRA 4.0301 TC3-2.6064 BAU .6991
RDE -.0661 RRA -.9757 RC3 .3440 FAU .04120
FDE 1.8918 FRA 4.4433 FC3-1.7930 BSP 19862
BDE 1.3843 BRA 4.1465 BC3 2.6290 FSP -2037

MID-COURSE EXECUTION ACCURACY
SGT 6108.9 SGR 1336.7 SG3 569.3
RRT -.9584 RRF -.9506 RTF .9873
SGB 6253.4 R23 .0029 R13 -.9874
SG1 6242.3 SG2 373.4 THA 168.11

ORBIT DETERMINATION ACCURACY
ST 2397.6 SR 398.7 SS 1415.2
CRT -.8138 CRS .7481 CST -.9944
LSA 2799.4 MSA 271.3 SSA 13.6
EL1 2419.7 EL2 229.6 ALF 172.22

LAUNCH DATE SEP 23 1965 FLIGHT TIME 206.00 ARRIVAL DATE APR 17 1966

DISTANCE 567.758

HELIOCENTRIC CONIC

RL 150.11 LAL -.00 LOL 359.76 VL 27.177 GAL 6.83 AZL 90.03 HCA 256.15 SMA 128.89 ECC .20215 INC .0242 V1 29.684
RP 108.63 LAP .03 LOP 255.91 VP 37.601 GAP 7.39 AZP 89.99 TAL 150.78 TAP 46.92 RCA 102.84 APO 154.95 V2 34.886
RC 114.493 GL -.17 GP 23.05 ZAL 35.93 ZAP 145.27 ETS 34.61 ZAE 120.81 ETE 166.43 ZAC 18.54 ETC 202.14 CLP-153.28

PLANETOCENTRIC CONIC

C3 21.104 VHL 4.594 DLA -13.74 RAL 326.21 RAD 6567.9 VEL 11.937 PTH 2.12 VHP 5.649 DPA -1.31 RAP 282.89 ECC 1.3473

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 46 36	1785.99	-7.39	15.93	187.12	117.41	11 16 22	1186.0	-3.66	9.24
90.00	19 9 24	5312.50	27.38	241.24	193.21	82.48	20 37 56	4712.5	26.06	232.83
100.00	12 0 43	1546.88	-8.53	357.74	186.51	118.76	12 26 30	946.9	-4.63	351.12
100.00	20 37 58	5026.84	28.66	220.02	193.00	81.12	22 1 45	4426.8	27.14	211.55
110.00	12 2 43	1383.99	-11.50	343.60	184.73	122.42	13 15 47	784.0	-7.14	337.22
110.00	22 2 27	4762.50	32.04	199.21	192.26	77.40	23 21 50	4162.5	29.98	190.61

DIFFERENTIAL CORRECTIONS

TDE 1.5217 TRA 4.2602 TC3-2.4983 BAU .7096
RDE -.0418 RRA -.9356 RC3 .2909 FAU .03699
FDE 1.8762 FRA 4.3261 FC3-1.5173 BSP 20148
BDE 1.5222 BRA 4.3617 BC3 2.5152 FSP -1907

MID-COURSE EXECUTION ACCURACY

SGT 6228.2 SGR 1231.7 SG3 534.5
RRT -.9494 RRF -.9405 RTF .9869
SGB 6348.8 R23 .0004 R13 -.9869
SG1 6337.4 SG2 380.3 THA 169.33

ORBIT DETERMINATION ACCURACY

ST 2509.8 SR 364.2 SS 1402.3
CRT -.7557 CRS .6907 CST -.9955
LSA 2885.4 MSA 269.5 SSA 13.6
EL1 2525.0 EL2 237.1 ALF 173.69

LAUNCH DATE SEP 23 1965 FLIGHT TIME 208.00 ARRIVAL DATE APR 19 1966

DISTANCE 573.636

HELIOCENTRIC CONIC

RL 150.11 LAL -.00 LOL 359.76 VL 27.159 GAL 7.16 AZL 89.84 HCA 259.32 SMA 128.76 ECC .20638 INC .1627 V1 29.684
RP 108.66 LAP -.16 LOP 259.08 VP 37.578 GAP 7.85 AZP 90.03 TAL 149.99 TAP 49.31 RCA 102.19 APO 155.34 V2 34.875
RC 116.852 GL .93 GP 21.82 ZAL 35.23 ZAP 147.43 ETS 35.60 ZAE 120.20 ETE 167.43 ZAC 19.13 ETC 197.06 CLP-155.20

PLANETOCENTRIC CONIC

C3 22.474 VHL 4.741 DLA -12.47 RAL 326.53 RAD 6567.9 VEL 11.994 PTH 2.14 VHP 5.871 DPA -2.49 RAP 284.10 ECC 1.3699

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 36 53	1844.80	-9.22	19.28	188.28	116.89	11 7 38	1244.8	-5.54	12.54
90.00	19 21 40	5284.08	27.11	239.21	194.13	81.49	20 49 44	4684.1	25.65	230.84
100.00	11 51 49	1603.02	-10.36	.91	187.68	118.20	12 18 32	1003.0	-6.51	354.23
100.00	20 49 24	5001.09	28.38	218.16	193.90	80.18	22 12 45	4401.1	26.73	209.75
110.00	12 45 37	1434.54	-13.33	346.37	185.93	121.77	13 9 32	834.5	-9.03	339.91
110.00	22 12 6	4742.35	31.73	197.72	193.10	76.57	23 31 8	4142.3	29.56	189.18

DIFFERENTIAL CORRECTIONS

TDE 1.6613 TRA 4.4942 TC3-2.3845 BAU .7203
RDE -.0172 RRA -.8997 RC3 .2471 FAU .03318
FDE 1.8521 FRA 4.2074 FC3-1.2782 BSP 20502
BDE 1.6613 BRA 4.5834 BC3 2.3972 FSP -1793

MID-COURSE EXECUTION ACCURACY

SGT 6331.5 SGR 1138.1 SG3 500.8
RRT -.9389 RRF -.9291 RTF .9865
SGB 6432.9 R23 -.0016 R13 -.9865
SG1 6421.3 SG2 386.2 THA 170.38

ORBIT DETERMINATION ACCURACY

ST 2611.7 SR 334.8 SS 1384.7
CRT -.6858 CRS .6222 CST -.9964
LSA 2962.9 MSA 267.8 SSA 13.6
EL1 2621.8 EL2 242.7 ALF 174.93

LAUNCH DATE SEP 23 1965 FLIGHT TIME 210.00 ARRIVAL DATE APR 21 1966

DISTANCE 579.471

HELIOCENTRIC CONIC

RL 150.11 LAL -.00 LOL 359.76 VL 27.139 GAL 7.52 AZL 89.65 HCA 262.49 SMA 128.63 ECC .21096 INC .3510 V1 29.684
RP 108.69 LAP -.35 LOP 262.25 VP 37.554 GAP 8.33 AZP 90.05 TAL 149.19 TAP 51.68 RCA 101.50 APO 155.77 V2 34.865
RC 119.206 GL 1.93 GP 20.70 ZAL 34.55 ZAP 149.45 ETS 36.67 ZAE 119.62 ETE 168.30 ZAC 19.99 ETC 192.54 CLP-157.02

PLANETOCENTRIC CONIC

C3 24.018 VHL 4.901 DLA -11.29 RAL 326.87 RAD 6568.0 VEL 12.058 PTH 2.16 VHP 6.108 DPA -3.54 RAP 285.43 ECC 1.3953

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 28 22	1900.69	-10.92	22.51	189.60	116.29	11 0 3	1300.7	-7.31	15.70
90.00	19 32 57	5260.61	26.86	237.54	195.19	80.69	21 0 38	4660.6	25.30	229.22
100.00	11 44 1	1656.60	-12.06	3.97	189.01	117.56	12 11 38	1056.6	-8.28	357.22
100.00	20 59 59	4979.93	28.12	216.64	194.94	79.42	22 22 59	4379.9	26.37	208.28
110.00	12 39 24	1483.18	-15.05	349.09	187.29	121.06	13 4 7	883.2	-10.83	342.53
110.00	22 21 6	4726.11	31.47	196.53	194.10	75.91	23 39 52	4126.1	29.21	188.05

DIFFERENTIAL CORRECTIONS

TDE 1.8049 TRA 4.7371 TC3-2.2610 BAU .7291
RDE .0068 RRA -.8683 RC3 .2098 FAU .02958
FDE 1.8256 FRA 4.0941 FC3-1.0662 BSP 20837
BDE 1.8049 BRA 4.8160 BC3 2.2707 FSP -1685

MID-COURSE EXECUTION ACCURACY

SGT 6423.2 SGR 1055.4 SG3 469.0
RRT -.9271 RRF -.9164 RTF .9861
SGB 6509.3 R23 -.0032 R13 -.9861
SG1 6497.5 SG2 391.0 THA 171.31

ORBIT DETERMINATION ACCURACY

ST 2706.9 SR 310.7 SS 1366.0
CRT -.6062 CRS .5446 CST -.9971
LSA 3036.3 MSA 265.9 SSA 13.5
EL1 2713.5 EL2 246.5 ALF 175.99

LAUNCH DATE SEP 23 1965 FLIGHT TIME 212.00 ARRIVAL DATE APR 23 1966

DISTANCE 585.260

HELIOCENTRIC CONIC

RL 150.11 LAL -.00 LOL 359.76 VL 27.119 GAL 7.90 AZL 89.46 HCA 265.66 SMA 128.50 ECC .21592 INC .5359 V1 29.684
RP 108.72 LAP -.53 LOP 265.42 VP 37.531 GAP 8.82 AZP 90.04 TAL 148.38 TAP 54.04 RCA 100.75 APO 156.25 V2 34.856
RC 121.557 GL 2.84 GP 19.68 ZAL 33.89 ZAP 151.35 ETS 37.82 ZAE 119.07 ETE 169.05 ZAC 21.06 ETC 188.61 CLP-158.75

PLANETOCENTRIC CONIC

C3 25.755 VHL 5.075 DLA -10.19 RAL 327.25 RAD 6568.0 VEL 12.130 PTH 2.17 VHP 6.361 DPA -4.47 RAP 286.84 ECC 1.4239

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 20 52	1954.13	-12.52	25.62	191.07	115.61	10 53 27	1354.1	-8.97	18.74
90.00	19 43 25	5241.54	26.65	236.18	196.38	80.04	21 10 47	4641.5	25.00	227.90
100.00	11 37 10	1707.99	-13.66	6.95	190.49	116.85	12 5 38	1108.0	-9.95	.12
100.00	21 9 49	4962.91	27.90	215.42	196.12	78.82	22 32 32	4362.9	26.08	207.10
110.00	12 33 57	1530.20	-16.69	351.75	188.78	120.28	12 59 27	930.2	-12.54	345.10
110.00	22 29 32	4713.47	31.26	195.60	195.24	75.40	23 48 5	4113.5	28.93	187.17

DIFFERENTIAL CORRECTIONS

TDE 1.9542 TRA 4.9910 TC3-2.1289 BAU .7356
RDE .0300 RRA -.8407 RC3 .1776 FAU .02613
FDE 1.7985 FRA 3.9876 FC3 -.8784 BSP 21125
BDE 1.9544 BRA 5.0613 BC3 2.1363 FSP -1579

MID-COURSE EXECUTION ACCURACY

SGT 6504.9 SGR 981.7 SG3 439.2
RRT -.9139 RRF -.9024 RTF .9857
SGB 6578.5 R23 -.0044 R13 -.9857
SG1 6566.7 SG2 394.7 THA 172.12

ORBIT DETERMINATION ACCURACY

ST 2796.7 SR 291.4 SS 1347.0
CRT -.5185 CRS .4598 CST -.9977
LSA 3106.6 MSA 263.7 SSA 13.4
EL1 2800.9 EL2 248.8 ALF 176.88

LAUNCH DATE SEP 23 1965 FLIGHT TIME 214.00 ARRIVAL DATE APR 25 1966

HELIOCENTRIC CONIC DISTANCE 590.999

RL 150.11 LAL -.00 LOL 359.76 VL 27.099 GAL 8.31 AZL 89.28 HCA 268.83 SMA 128.36 ECC .22130 INC .7192 V1 29.684
RP 108.75 LAP -.72 LOP 268.59 VP 37.508 GAP 9.32 AZP 90.01 TAL 147.55 TAP 56.38 RCA 99.96 APO 156.77 V2 34.846
RC 123.903 GL 3.67 GP 18.76 ZAL 33.26 ZAP 153.14 ETS 39.09 ZAE 118.55 ETE 169.69 ZAC 22.31 ETC 185.27 CLP-160.41

PLANETOCENTRIC CONIC

C3 27.707 VHL 5.264 DLA -9.17 RAL 327.64 RAD 6568.1 VEL 12.210 PTH 2.19 VHP 6,631 DPA -5.29 RAP 288.34 ECC 1.4560

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 14 16	2005.48	-14.01	28.66	192.66	114.86	10 47 42	1405.5	-10.54	21.70
90.00	19 53 10	5226.45	26.46	235.11	197.69	79.54	21 20 16	4626.5	24.75	226.86
100.00	11 31 8	1757.53	-15.17	9.86	192.09	116.07	12 0 25	1157.5	-11.54	2.94
100.00	21 19 0	4949.63	27.72	214.48	197.42	78.35	22 41 29	4349.6	25.84	206.19
110.00	12 29 9	1575.81	-18.23	354.38	190.41	119.43	12 55 25	975.8	-14.17	347.62
110.00	22 37 27	4704.11	31.09	194.92	196.50	75.02	23 55 51	4104.1	28.73	186.52

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE 2.1124 TRA 5.2600 TC3-1.9866 BAU .7379 SGT 6580.0 SGR 916.1 SG3 411.6 ST 2884.1 SR 276.2 SS 1329.6
RDE .0522 RRA -.8169 RC3 .1491 FAU .02272 RRT -.8994 RRF -.8872 RTF .9853 CRT -.4266 CRS .3716 CST -.9981
FDE 1.7741 FRA 3.8908 FC3 -.7100 BSP 21309 SGB 6643.5 R23 -.0050 R13 -.9853 LSA 3177.1 MSA 261.1 SSA 13.3
BDE 2.1131 BRA 5.3230 BC3 1.9922 FSP -1473 SG1 6631.6 SG2 397.3 THA 172.84 EL1 2886.5 EL2 249.6 ALF 177.64

LAUNCH DATE SEP 23 1965 FLIGHT TIME 216.00 ARRIVAL DATE APR 27 1966

HELIOCENTRIC CONIC DISTANCE 596.681

RL 150.11 LAL -.00 LOL 359.76 VL 27.079 GAL 8.75 AZL 89.10 HCA 271.99 SMA 128.22 ECC .22711 INC .9019 V1 29.684
RP 108.78 LAP -.90 LOP 271.75 VP 37.485 GAP 9.85 AZP 89.97 TAL 146.71 TAP 58.70 RCA 99.10 APO 157.35 V2 34.838
RC 126.245 GL 4.42 GP 17.92 ZAL 32.65 ZAP 154.82 ETS 40.50 ZAE 118.06 ETE 170.26 ZAC 23.70 ETC 182.45 CLP-162.00

PLANETOCENTRIC CONIC

C3 29.901 VHL 5.468 DLA -8.23 RAL 328.05 RAD 6568.2 VEL 12.299 PTH 2.22 VHP 6,918 DPA -6.00 RAP 289.91 ECC 1.4921

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 8 26	2055.01	-15.40	31.62	194.37	114.06	10 42 41	1455.0	-12.03	24.58
90.00	20 2 15	5215.00	26.32	234.31	199.12	79.16	21 29 10	4615.0	24.56	226.08
100.00	11 25 48	1805.44	-16.58	12.71	193.81	115.24	11 55 53	1205.4	-13.04	5.71
100.00	21 27 35	4939.80	27.59	213.78	198.83	78.00	22 49 54	4339.8	25.65	205.51
110.00	12 24 58	1620.19	-19.69	356.99	192.15	118.52	12 51 58	1020.2	-15.73	350.11
110.00	22 44 54	4697.82	30.98	194.46	197.89	74.78	24 3 12	4097.8	28.58	186.09

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE 2.2719 TRA 5.5377 TC3-1.8473 BAU .7401 SGT 6642.3 SGR 856.5 SG3 385.4 ST 2960.4 SR 264.4 SS 1309.7
RDE .0747 RRA -.7951 RC3 .1257 FAU .01970 RRT -.8835 RRF -.8707 RTF .9850 CRT -.3296 CRS .2786 CST -.9985
FDE 1.7457 FRA 3.7977 FC3 -.5705 BSP 21572 SGB 6697.3 R23 -.0057 R13 -.9850 LSA 3237.7 MSA 258.4 SSA 13.2
BDE 2.2732 BRA 5.5945 BC3 1.8515 FSP -1382 SG1 6685.4 SG2 398.6 THA 173.48 EL1 2961.7 EL2 249.5 ALF 178.30

LAUNCH DATE SEP 23 1965 FLIGHT TIME 218.00 ARRIVAL DATE APR 29 1966

HELIOCENTRIC CONIC DISTANCE 602.301

RL 150.11 LAL -.00 LOL 359.76 VL 27.057 GAL 9.22 AZL 88.91 HCA 275.16 SMA 128.08 ECC .23342 INC 1.0853 V1 29.684
RP 108.80 LAP -1.08 LOP 274.92 VP 37.462 GAP 10.40 AZP 89.90 TAL 145.87 TAP 61.03 RCA 98.19 APO 157.98 V2 34.830
RC 128.581 GL 5.10 GP 17.16 ZAL 32.06 ZAP 156.40 ETS 42.08 ZAE 117.60 ETE 170.76 ZAC 25.20 ETC 180.10 CLP-163.54

PLANETOCENTRIC CONIC

C3 32.369 VHL 5.689 DLA -7.35 RAL 328.47 RAD 6568.3 VEL 12.399 PTH 2.24 VHP 7.224 DPA -6.61 RAP 291.55 ECC 1.5327

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 3 17	2102.98	-16.71	34.54	196.19	113.20	10 38 20	1503.0	-13.43	27.40
90.00	20 10 45	5206.89	26.21	233.74	200.65	78.89	21 37 32	4606.9	24.42	225.53
100.00	11 21 6	1851.94	-17.91	15.53	195.64	114.34	11 51 58	1251.9	-14.47	8.42
100.00	21 35 38	4933.16	27.49	213.31	200.35	77.77	22 57 51	4333.2	25.53	205.06
110.00	12 21 17	1663.49	-21.08	359.59	194.00	117.55	12 49 1	1063.5	-17.22	352.58
110.00	22 51 56	4694.38	30.92	194.22	199.39	74.64	24 10 10	4094.4	28.50	185.85

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE 2.4380 TRA 5.8299 TC3-1.7058 BAU .7396 SGT 6696.2 SGR 802.3 SG3 361.1 ST 3030.8 SR 255.6 SS 1290.5
RDE .0969 RRA -.7753 RC3 .1054 FAU .01684 RRT -.8662 RRF -.8530 RTF .9847 CRT -.2326 CRS .1861 CST -.9988
FDE 1.7186 FRA 3.7124 FC3 -.4504 BSP 21810 SGB 6744.1 R23 -.0060 R13 -.9847 LSA 3294.1 MSA 255.3 SSA 13.1
BDE 2.4400 BRA 5.8812 BC3 1.7091 FSP -1295 SG1 6732.3 SG2 398.7 THA 174.05 EL1 3031.4 EL2 248.5 ALF 178.87

LAUNCH DATE SEP 23 1965 FLIGHT TIME 220.00 ARRIVAL DATE MAY 1 1966

HELIOCENTRIC CONIC DISTANCE 607.851

RL 150.11 LAL -.00 LOL 359.76 VL 27.036 GAL 9.73 AZL 88.73 HCA 278.32 SMA 127.94 ECC .24027 INC 1.2704 V1 29.684
RP 108.82 LAP -1.26 LOP 278.08 VP 37.440 GAP 10.97 AZP 89.82 TAL 145.02 TAP 63.35 RCA 97.20 APO 158.68 V2 34.822
RC 130.911 GL 5.72 GP 16.46 ZAL 31.48 ZAP 157.89 ETS 43.84 ZAE 117.16 ETE 171.20 ZAC 26.78 ETC 178.15 CLP-165.02

PLANETOCENTRIC CONIC

C3 35.150 VHL 5.929 DLA -6.54 RAL 328.90 RAD 6568.4 VEL 12.511 PTH 2.27 VHP 7,551 DPA -7.13 RAP 293.24 ECC 1.5785

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 58 44	2149.56	-17.94	37.41	198.11	112.28	10 34 33	1549.6	-14.76	30.17
90.00	20 18 43	5201.89	26.15	233.39	202.27	78.73	21 45 25	4601.9	24.33	225.19
100.00	11 16 57	1897.20	-19.15	18.31	197.58	113.40	11 48 35	1297.2	-15.82	11.10
100.00	21 43 11	4929.48	27.44	213.05	201.97	77.65	23 5 20	4329.5	25.46	204.81
110.00	12 18 4	1705.84	-22.39	2.18	195.96	116.53	12 46 30	1105.8	-18.65	355.04
110.00	22 58 33	4693.60	30.91	194.16	200.99	74.61	24 16 46	4093.6	28.49	185.80

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE 2.6119 TRA 6.1386 TC3-1.5636 BAU .7359 SGT 6742.8 SGR 752.6 SG3 338.5 ST 3095.7 SR 249.0 SS 1272.2
RDE .1187 RRA -.7572 RC3 .0878 FAU .01414 RRT -.8476 RRF -.8341 RTF .9845 CRT -.1380 CRS .0961 CST -.9990
FDE 1.6931 FRA 3.6350 FC3 -.3481 BSP 22017 SGB 6784.6 R23 -.0062 R13 -.9845 LSA 3346.7 MSA 251.8 SSA 12.9
BDE 2.6146 BRA 6.1851 BC3 1.5660 FSP -1214 SG1 6773.0 SG2 397.6 THA 174.58 EL1 3095.9 EL2 246.6 ALF 179.36

LAUNCH DATE SEP 24 1965 FLIGHT TIME 70.00 ARRIVAL DATE DEC 3 1965

HELIOCENTRIC CONIC DISTANCE 130.338

RL 150.07 LAL -.00 LOL .74 VL 15.945 GAL 24.97 AZL 93.44 HCA 37.57 SMA 87.63 ECC .77162 INC 3.4405 VI 29.692
RP 108.24 LAP -2.10 LOP 38.26 VP 30.621 GAP -49.12 AZP 92.73 TAL 171.80 TAP 209.37 RCA 20.01 APO 155.25 V2 35.010
RC 80.714 GL -2.94 GP -3.93 ZAL 64.72 ZAP 33.51 ETS 170.65 ZAE 134.83 ETE 179.65 ZAC 22.79 ETC 49.71 CLP 33.31

PLANETOCENTRIC CONIC

C3 285.701 VHL 16.903 DLA -23.83 RAL 298.66 RAD 6571.7 VEL 20.175 PTH 3.15 VHP 27.484 DPA -25.74 RAP 249.18 ECC 5.7019

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 44 46	1924.91	-11.65	23.91	196.21	115.99	11 16 51	1324.9	-8.06	17.07
90.00	15 23 34	996.62	16.98	330.77	209.08	113.01	15 40 11	396.6	19.95	323.36
100.00	11 46 46	1724.79	-14.18	7.93	194.93	116.59	12 15 31	1124.8	-10.49	1.08
100.00	17 4 16	671.97	19.57	308.05	210.25	113.05	17 15 28	72.0	22.53	300.50
110.00	12 16 34	1631.36	-20.06	357.66	191.74	118.28	12 43 45	1031.4	-16.12	350.75
110.00	18 50 57	5626.21	25.66	263.43	213.07	113.40	20 24 44	5026.2	28.60	255.48

DIFFERENTIAL CORRECTIONS

TOE -.4509 TRA-1.9084 TC3 -.1152 BAU .4401
ROE-1.2933 RRA .3709 RC3 .0020 FAU .01156
FOE .1633 FRA .7116 FC3 -.0350 BSP 1886
BOE 1.3697 BRA 1.9442 BC3 .1152 FSP -50

MID-COURSE EXECUTION ACCURACY

SGT 821.7 SGR 459.5 SG3 25.4
RRT -.0869 RRF .0827 RTF -.6155
SGB 941.4 R23 -.0052 R13 .6162
SG1 823.1 SG2 457.0 THA 175.97

ORBIT DETERMINATION ACCURACY

ST 261.7 SR 440.3 SS 229.4
CRT .5054 CRS .4938 CST .9966
LSA 492.3 MSA 269.3 SSA 14.1
EL1 465.6 EL2 213.6 ALF 68.55

LAUNCH DATE SEP 24 1965 FLIGHT TIME 72.00 ARRIVAL DATE DEC 5 1965

HELIOCENTRIC CONIC DISTANCE 135.903

RL 150.07 LAL -.00 LOL .74 VL 16.712 GAL 23.86 AZL 92.98 HCA 40.76 SMA 89.10 ECC .74509 INC 2.9791 VI 29.692
RP 108.20 LAP -1.94 LOP 41.46 VP 31.042 GAP -46.93 AZP 92.26 TAL 170.98 TAP 211.74 RCA 22.71 APO 155.49 V2 35.023
RC 78.516 GL -2.82 GP -4.04 ZAL 63.36 ZAP 32.02 ETS 170.13 ZAE 134.81 ETE 180.03 ZAC 21.90 ETC 53.30 CLP 31.79

PLANETOCENTRIC CONIC

C3 261.244 VHL 16.163 DLA -23.44 RAL 300.08 RAD 6571.5 VEL 19.559 PTH 3.11 VHP 26.466 DPA -26.17 RAP 250.99 ECC 5.2994

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 44 36	1934.09	-11.92	24.45	196.74	115.87	11 16 50	1334.1	-8.35	17.60
90.00	15 35 7	964.64	17.82	328.80	209.87	112.38	15 51 12	364.6	20.70	321.31
100.00	11 47 31	1731.01	-14.37	8.29	195.51	116.50	12 16 22	1131.0	-10.69	1.43
100.00	17 14 53	642.95	20.34	306.23	210.97	112.39	17 25 36	42.9	23.20	298.60
110.00	12 18 42	1633.21	-20.12	357.77	192.40	118.24	12 45 55	1033.2	-16.19	350.85
110.00	19 0 11	5601.55	26.32	261.82	213.67	112.65	20 33 33	5001.6	29.15	253.78

DIFFERENTIAL CORRECTIONS

TOE -.4780 TRA-1.9334 TC3 -.1245 BAU .4348
ROE-1.2462 RRA .3799 RC3 .0015 FAU .01156
FOE .1801 FRA .7402 FC3 -.0383 BSP 1810
BOE 1.3347 BRA 1.9704 BC3 .1245 FSP -53

MID-COURSE EXECUTION ACCURACY

SGT 865.3 SGR 465.5 SG3 27.5
RRT -.0912 RRF .0890 RTF -.6345
SGB 982.6 R23 -.0079 R13 .6352
SG1 866.7 SG2 462.8 THA 176.07

ORBIT DETERMINATION ACCURACY

ST 281.2 SR 443.9 SS 244.7
CRT .5205 CRS .5141 CST .9970
LSA 508.4 MSA 278.2 SSA 14.3
EL1 475.2 EL2 224.3 ALF 66.12

LAUNCH DATE SEP 24 1965 FLIGHT TIME 74.00 ARRIVAL DATE DEC 7 1965

HELIOCENTRIC CONIC DISTANCE 141.577

RL 150.07 LAL -.00 LOL .74 VL 17.431 GAL 22.81 AZL 92.57 HCA 43.95 SMA 90.59 ECC .71864 INC 2.5735 VI 29.692
RP 108.16 LAP -1.79 LOP 44.66 VP 31.449 GAP -44.86 AZP 91.85 TAL 170.16 TAP 214.11 RCA 25.49 APO 155.70 V2 35.036
RC 76.333 GL -2.68 GP -4.15 ZAL 62.05 ZAP 30.55 ETS 169.54 ZAE 134.87 ETE 180.46 ZAC 21.11 ETC 57.26 CLP 30.29

PLANETOCENTRIC CONIC

C3 238.963 VHL 15.458 DLA -23.04 RAL 301.44 RAD 6571.4 VEL 18.981 PTH 3.08 VHP 25.483 DPA -26.59 RAP 252.84 ECC 4.9327

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 44 8	1942.79	-12.18	24.96	197.17	115.76	11 16 31	1342.8	-8.62	18.09
90.00	15 46 24	931.86	18.66	326.76	210.53	111.70	16 1 56	331.9	21.44	319.19
100.00	11 47 55	1736.91	-14.55	8.64	195.98	116.41	12 16 52	1136.9	-10.88	1.77
100.00	17 25 18	612.97	21.10	304.34	211.56	111.68	17 35 31	13.0	23.86	296.62
110.00	12 20 29	1634.82	-20.17	357.87	192.95	118.20	12 47 44	1034.8	-16.24	350.94
110.00	19 9 14	5575.86	26.98	260.11	214.13	111.83	20 42 10	4975.9	29.69	251.98

DIFFERENTIAL CORRECTIONS

TOE -.4383 TRA-1.8928 TC3 -.1233 BAU .3938
ROE-1.2000 RRA .3864 RC3 .0007 FAU .01193
FOE .1894 FRA .7616 FC3 -.0432 BSP 3313
BOE 1.2775 BRA 1.9319 BC3 .1233 FSP -73

MID-COURSE EXECUTION ACCURACY

SGT 867.6 SGR 471.2 SG3 29.5
RRT -.1155 RRF .1007 RTF -.6551
SGB 987.3 R23 .0057 R13 .6555
SG1 870.0 SG2 466.8 THA 174.96

ORBIT DETERMINATION ACCURACY

ST 280.8 SR 447.2 SS 255.0
CRT .4904 CRS .5199 CST .9966
LSA 511.7 MSA 286.1 SSA 14.2
EL1 475.2 EL2 230.3 ALF 67.27

LAUNCH DATE SEP 24 1965 FLIGHT TIME 76.00 ARRIVAL DATE DEC 9 1965

HELIOCENTRIC CONIC DISTANCE 147.367

RL 150.07 LAL -.00 LOL .74 VL 18.106 GAL 21.82 AZL 92.21 HCA 47.15 SMA 92.10 ECC .69246 INC 2.2120 VI 29.692
RP 108.12 LAP -1.62 LOP 47.87 VP 31.843 GAP -42.89 AZP 91.50 TAL 169.36 TAP 216.50 RCA 28.33 APO 155.88 V2 35.049
RC 74.169 GL -2.51 GP -4.27 ZAL 60.79 ZAP 29.10 ETS 168.89 ZAE 135.00 ETE 180.93 ZAC 20.43 ETC 61.58 CLP 28.81

PLANETOCENTRIC CONIC

C3 218.726 VHL 14.789 DLA -22.61 RAL 302.74 RAD 6571.3 VEL 18.440 PTH 3.04 VHP 24.534 DPA -27.00 RAP 254.72 ECC 4.5997

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 43 24	1951.17	-12.43	25.45	197.52	115.65	11 15 55	1351.2	-8.88	18.57
90.00	15 57 30	898.20	19.49	324.64	211.05	110.96	16 12 28	298.2	22.17	316.99
100.00	11 48 1	1742.61	-14.72	8.98	196.37	116.31	12 17 4	1142.6	-11.06	2.09
100.00	17 35 34	5870.04	21.87	280.26	212.02	110.90	19 13 24	5270.0	24.51	272.46
110.00	12 21 56	1636.30	-20.22	357.95	193.40	118.17	12 49 12	1036.3	-16.29	351.03
110.00	19 18 9	5549.11	27.64	258.32	214.45	110.96	20 50 38	4949.1	30.23	250.08

DIFFERENTIAL CORRECTIONS

TOE -.4917 TRA-1.9471 TC3 -.1376 BAU .4023
ROE-1.1524 RRA .3934 RC3 -.0000 FAU .01181
FOE .2105 FRA .7948 FC3 -.0467 BSP 2580
BOE 1.2529 BRA 1.9864 BC3 .1376 FSP -70

MID-COURSE EXECUTION ACCURACY

SGT 932.5 SGR 476.0 SG3 32.0
RRT -.1123 RRF .1061 RTF -.6716
SGB 1047.0 R23 -.0047 R13 .6723
SG1 934.6 SG2 472.0 THA 175.59

ORBIT DETERMINATION ACCURACY

ST 310.7 SR 449.2 SS 273.8
CRT .5224 CRS .5421 CST .9972
LSA 535.2 MSA 294.2 SSA 14.6
EL1 488.9 EL2 243.4 ALF 62.91

LAUNCH DATE SEP 24 1965 FLIGHT TIME 78.00 ARRIVAL DATE DEC 11 1965

HELIOCENTRIC CONIC DISTANCE 153.256

RL 150.07 LAL -.00 LOL .74 VL 18.739 GAL 20.88 AZL 91.89 HCA 50.35 SMA 93.62 ECC .66661 INC 1.8859 VI 29.692
RP 108.08 LAP -1.45 LOP 51.07 VP 32.222 GAP -41.02 AZP 91.20 TAL 168.56 TAP 218.91 RCA 31.21 APO 156.03 V2 35.063
RC 72.025 GL -2.33 GP -4.40 ZAL 59.58 ZAP 27.68 ETS 168.17 ZAE 135.21 ETE 181.45 ZAC 19.88 ETC 66.24 CLP 27.35

PLANETOCENTRIC CONIC

C3 200.256 VHL 14.151 DLA -22.17 RAL 303.97 RAD 6571.1 VEL 17.933 PTH 3.00 VHP 23.617 DPA -27.40 RAP 256.64 ECC 4.2957

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 42 24	1959.07	-12.66	25.91	197.76	115.54	11 15 3	1359.1	-9.12	19.03
90.00	16 8 21	863.73	20.31	322.45	211.43	110.16	16 22 45	263.7	22.88	314.72
100.00	11 47 49	1747.96	-14.88	9.29	196.65	116.23	12 16 56	1148.0	-11.24	2.40
100.00	17 45 37	5838.11	22.63	278.19	212.34	110.07	19 22 55	5238.1	25.16	270.31
110.00	12 23 2	1637.51	-20.25	358.03	193.76	118.14	12 50 20	1037.5	-16.33	351.10
110.00	19 26 53	5521.32	28.31	256.43	214.63	110.02	20 58 54	4921.3	30.76	248.09

DIFFERENTIAL CORRECTIONS

TDE -.5070 TRA-1.9645 TC3 -.1459 BAU .3905
RDE-1.1054 RRA .3986 RC3 -.0011 FAU .01190
FDE .2276 FRA .8243 FC3 -.0515 BSP 2737
BDE 1.2162 BRA 2.0045 BC3 .1459 FSP -77

MID-COURSE EXECUTION ACCURACY

SGT 974.8 SGR 480.3 SG3 34.5
RRT -.1208 RRF .1147 RTF -.6891
SGB 1086.7 R23 -.0055 R13 .6898
SG1 977.1 SG2 475.7 THA 175.53

ORBIT DETERMINATION ACCURACY

ST 329.7 SR 450.6 SS 290.0
CRT .5278 CRS .5556 CST .9971
LSA 552.0 MSA 301.4 SSA 14.8
EL1 497.4 EL2 253.7 ALF 60.52

LAUNCH DATE SEP 24 1965 FLIGHT TIME 80.00 ARRIVAL DATE DEC 13 1965

HELIOCENTRIC CONIC DISTANCE 159.240

RL 150.07 LAL -.00 LOL .74 VL 19.334 GAL 19.98 AZL 91.59 HCA 53.55 SMA 95.14 ECC .64121 INC 1.5885 VI 29.692
RP 108.04 LAP -1.28 LOP 54.28 VP 32.585 GAP -39.24 AZP 90.94 TAL 167.78 TAP 221.33 RCA 34.13 APO 156.14 V2 35.076
RC 69.906 GL -2.13 GP -4.54 ZAL 58.41 ZAP 26.28 ETS 167.35 ZAE 135.51 ETE 182.03 ZAC 19.47 ETC 71.21 CLP 25.91

PLANETOCENTRIC CONIC

C3 183.402 VHL 13.543 DLA -21.71 RAL 305.14 RAD 6571.0 VEL 17.456 PTH 2.96 VHP 22.730 DPA -27.80 RAP 258.59 ECC 4.0183

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 41 7	1966.54	-12.88	26.35	197.91	115.44	11 13 53	1366.5	-9.35	19.45
90.00	16 18 58	828.39	21.13	320.18	211.67	109.30	16 32 46	228.4	23.57	312.36
100.00	11 47 17	1752.98	-15.03	9.59	196.84	116.15	12 16 30	1153.0	-11.40	2.68
100.00	17 55 29	5805.22	23.38	276.04	212.52	109.18	19 32 14	5205.2	25.78	268.06
110.00	12 23 49	1638.48	-20.29	358.08	194.01	118.12	12 51 7	1038.5	-16.37	351.15
110.00	19 35 26	5492.49	28.96	254.44	214.67	109.01	21 6 59	4892.5	31.28	246.00

DIFFERENTIAL CORRECTIONS

TDE -.5227 TRA-1.9831 TC3 -.1545 BAU .3788
RDE-1.0586 RRA .4028 RC3 -.0023 FAU .01201
FDE .2453 FRA .8548 FC3 -.0567 BSP 2877
BDE 1.1806 BRA 2.0236 BC3 .1545 FSP -84

MID-COURSE EXECUTION ACCURACY

SGT 1019.6 SGR 484.0 SG3 37.2
RRT -.1296 RRF .1241 RTF -.7058
SGB 1128.6 R23 -.0067 R13 .7066
SG1 1022.0 SG2 478.8 THA 175.49

ORBIT DETERMINATION ACCURACY

ST 349.9 SR 451.3 SS 307.0
CRT .5328 CRS .5680 CST .9970
LSA 570.4 MSA 307.8 SSA 15.0
EL1 506.4 EL2 263.9 ALF 57.87

LAUNCH DATE SEP 24 1965 FLIGHT TIME 82.00 ARRIVAL DATE DEC 15 1965

HELIOCENTRIC CONIC DISTANCE 165.314

RL 150.07 LAL -.00 LOL .74 VL 19.892 GAL 19.12 AZL 91.31 HCA 56.76 SMA 96.66 ECC .61634 INC 1.3145 VI 29.692
RP 108.00 LAP -1.10 LOP 57.49 VP 32.933 GAP -37.54 AZP 90.72 TAL 167.02 TAP 223.78 RCA 37.08 APO 156.23 V2 35.089
RC 67.813 GL -1.91 GP -4.70 ZAL 57.30 ZAP 24.90 ETS 166.42 ZAE 135.88 ETE 182.67 ZAC 19.23 ETC 76.41 CLP 24.49

PLANETOCENTRIC CONIC

C3 168.011 VHL 12.962 DLA -21.24 RAL 306.25 RAD 6570.8 VEL 17.010 PTH 2.92 VHP 21.871 DPA -28.19 RAP 260.57 ECC 3.7650

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 39 33	1973.59	-13.09	26.77	197.96	115.34	11 12 27	1373.6	-9.57	19.86
90.00	16 29 21	792.17	21.92	317.82	211.76	108.38	16 42 33	192.2	24.23	309.91
100.00	11 46 27	1757.70	-15.17	9.87	196.93	116.07	12 15 45	1157.7	-11.54	2.95
100.00	18 5 8	5771.34	24.12	273.79	212.55	108.21	19 41 19	5171.3	26.38	265.73
110.00	12 24 15	1639.21	-20.31	358.13	194.17	118.11	12 51 34	1039.2	-16.39	351.19
110.00	19 43 49	5462.60	29.61	252.35	214.56	107.92	21 14 52	4862.6	31.77	243.81

DIFFERENTIAL CORRECTIONS

TDE -.5380 TRA-2.0024 TC3 -.1633 BAU .3670
RDE-1.0120 RRA .4060 RC3 -.0039 FAU .01213
FDE .2637 FRA .8862 FC3 -.0625 BSP 3008
BDE 1.1461 BRA 2.0431 BC3 .1634 FSP -91

MID-COURSE EXECUTION ACCURACY

SGT 1066.6 SGR 487.1 SG3 40.2
RRT -.1390 RRF .1342 RTF -.7218
SGB 1172.6 R23 -.0082 R13 .7226
SG1 1069.3 SG2 481.2 THA 175.44

ORBIT DETERMINATION ACCURACY

ST 371.3 SR 451.1 SS 324.6
CRT .5369 CRS .5789 CST .9968
LSA 590.1 MSA 313.4 SSA 15.2
EL1 516.1 EL2 273.8 ALF 55.02

LAUNCH DATE SEP 24 1965 FLIGHT TIME 84.00 ARRIVAL DATE DEC 17 1965

HELIOCENTRIC CONIC DISTANCE 171.471

RL 150.07 LAL -.00 LOL .74 VL 20.416 GAL 18.30 AZL 91.06 HCA 59.97 SMA 98.17 ECC .59205 INC 1.0598 VI 29.692
RP 107.96 LAP -.92 LOP 60.71 VP 33.266 GAP -35.91 AZP 90.53 TAL 166.27 TAP 226.25 RCA 40.05 APO 156.29 V2 35.101
RC 65.751 GL -1.66 GP -4.87 ZAL 56.23 ZAP 23.55 ETS 165.36 ZAE 136.35 ETE 183.38 ZAC 19.16 ETC 81.77 CLP 23.07

PLANETOCENTRIC CONIC

C3 153.946 VHL 12.407 DLA -20.74 RAL 307.29 RAD 6570.7 VEL 16.591 PTH 2.88 VHP 21.040 DPA -28.57 RAP 262.58 ECC 3.5336

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 37 42	1980.26	-13.28	27.16	197.92	115.24	11 10 42	1380.3	-9.77	20.24
90.00	16 39 30	755.05	22.70	315.38	211.71	107.40	16 52 5	155.0	24.87	307.38
100.00	11 45 18	1762.12	-15.30	10.13	196.92	115.99	12 14 40	1162.1	-11.68	3.21
100.00	18 14 36	5736.46	24.84	271.45	212.44	107.18	19 50 12	5136.5	26.96	263.29
110.00	12 24 21	1639.71	-20.33	358.16	194.23	118.09	12 51 41	1039.7	-16.41	351.22
110.00	19 52 2	5431.64	30.23	250.16	214.30	106.77	21 22 33	4831.6	32.23	241.51

DIFFERENTIAL CORRECTIONS

TDE -.5496 TRA-2.0187 TC3 -.1715 BAU .3533
RDE -.9658 RRA .4083 RC3 -.0057 FAU .01229
FDE .2823 FRA .9184 FC3 -.0691 BSP 3210
BDE 1.1112 BRA 2.0596 BC3 .1716 FSP -100

MID-COURSE EXECUTION ACCURACY

SGT 1113.2 SGR 489.7 SG3 43.4
RRT -.1500 RRF .1453 RTF -.7374
SGB 1216.2 R23 -.0092 R13 .7382
SG1 1116.2 SG2 482.8 THA 175.36

ORBIT DETERMINATION ACCURACY

ST 392.4 SR 450.1 SS 342.6
CRT .5385 CRS .5883 CST .9964
LSA 610.3 MSA 318.2 SSA 15.4
EL1 525.8 EL2 283.1 ALF 52.16

LAUNCH DATE SEP 24 1965 FLIGHT TIME 86.00 ARRIVAL DATE DEC 19 1965

HELIOCENTRIC CONIC DISTANCE 177.707

RL	150.07	LAL	-.00	LOL	.74	VL	20.908	GAL	17.51	AZL	90.82	HCA	63.18	SMA	99.67	ECC	.56840	INC	.8208
RP	107.92	LAP	-.73	LOP	63.92	VP	33.583	GAP	-34.35	AZP	90.37	TAL	165.55	TAP	228.74	RCA	43.02	APO	156.32
RC	63.722	GL	-1.38	GP	-5.05	ZAL	55.21	ZAP	22.23	ETS	164.14	ZAE	136.90	ETE	184.17	ZAC	19.28	ETC	87.16

V1	29.692																		
V2	35.114																		
CLP	21.67																		

PLANETOCENTRIC CONIC

C3	141.090	VHL	11.878	DLA	-20.22	RAL	308.27	RAD	6570.5	VEL	16.199	PTH	2.84	VHP	20.235	DPA	-28.94	RAP	264.61

ECC	3.3220																		
INJ 2 LONG																			
20.61																			
304.75																			
3.45																			
260.76																			
351.24																			
239.11																			

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT
90.00	10 35 33	1986.61	-13.46	27.54	197.78	115.15	11 8 40	1386.6	-9.97
90.00	16 49 28	716.98	23.45	312.84	211.51	106.34	17 1 25	117.0	25.47
100.00	11 43 49	1766.30	-15.43	10.38	196.82	115.92	12 13 16	1166.3	-11.82
100.00	18 23 53	5700.56	25.54	269.02	212.18	106.08	19 58 53	5100.6	27.50
110.00	12 24 7	1640.03	-20.34	358.18	194.19	118.09	12 51 27	1040.0	-16.42
110.00	20 0 4	5399.60	30.84	247.86	213.88	105.53	21 30 4	4799.6	32.66

DIFFERENTIAL CORRECTIONS

TOE	-.5631	TRA	-2.0376	TC3	-.1804	BAU	.3407												
RDE	-.9199	RRA	.4099	RC3	-.0079	FAU	.01245												
FDE	.3019	FRA	.9520	FC3	-.0764	BSP	3352												
BDE	1.0785	BRA	2.0784	BC3	.1806	FSP	-109												

MID-COURSE EXECUTION ACCURACY

SGT	1163.9	SGR	491.5	SG3	46.8														
RRT	-.1610	RRF	.1573	RTF	-.7521														
SGB	1263.5	R23	-.0111	R13	.7529														
SG1	1167.2	SG2	483.8	THA	175.30														

ORBIT DETERMINATION ACCURACY

ST	415.6	SR	448.2	SS	361.7														
CRT	.5405	CRS	.5969	CST	.9960														
LSA	632.8	MSA	322.0	SSA	15.5														
EL1	537.1	EL2	291.8	ALF	48.98														

LAUNCH DATE SEP 24 1965 FLIGHT TIME 88.00 ARRIVAL DATE DEC 21 1965

HELIOCENTRIC CONIC DISTANCE 184.015

RL	150.07	LAL	-.00	LOL	.74	VL	21.370	GAL	16.75	AZL	90.60	HCA	66.40	SMA	101.15	ECC	.54544	INC	.5949
RP	107.89	LAP	-.55	LOP	67.14	VP	33.885	GAP	-32.86	AZP	90.24	TAL	164.85	TAP	231.25	RCA	45.98	APO	156.32
RC	61.731	GL	-1.07	GP	-5.25	ZAL	54.24	ZAP	20.93	ETS	162.74	ZAE	137.55	ETE	185.05	ZAC	19.58	ETC	92.48

V1	29.692																		
V2	35.126																		
CLP	20.29																		

PLANETOCENTRIC CONIC

C3	129.335	VHL	11.373	DLA	-19.69	RAL	309.18	RAD	6570.4	VEL	15.833	PTH	2.80	VHP	19.455	DPA	-29.30	RAP	266.67

ECC	3.1285																		
INJ 2 LONG																			
20.96																			
302.03																			
3.68																			
258.13																			
351.25																			
236.61																			

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT
90.00	10 33 6	1992.70	-13.64	27.90	197.55	115.06	11 6 19	1392.7	-10.15
90.00	16 59 13	677.93	24.18	310.21	211.16	105.21	17 10 31	77.9	26.03
100.00	11 42 1	1770.29	-15.55	10.61	196.62	115.86	12 11 31	1170.3	-11.94
100.00	18 32 59	5663.61	26.21	266.48	211.77	104.91	20 7 22	5063.6	28.00
110.00	12 23 32	1640.21	-20.34	358.19	194.05	118.08	12 50 52	1040.2	-16.43
110.00	20 7 57	5366.46	31.42	245.45	213.31	104.21	21 37 24	4766.5	33.05

DIFFERENTIAL CORRECTIONS

TOE	-.5735	TRA	-2.0538	TC3	-.1886	BAU	.3265												
RDE	-.8744	RRA	.4107	RC3	-.0105	FAU	.01265												
FDE	.3220	FRA	.9866	FC3	-.0847	BSP	3557												
BDE	1.0457	BRA	2.0945	BC3	.1889	FSP	-120												

MID-COURSE EXECUTION ACCURACY

SGT	1214.6	SGR	492.9	SG3	50.5														
RRT	-.1737	RRF	.1705	RTF	-.7663														
SGB	1310.7	R23	-.0125	R13	.7672														
SG1	1218.1	SG2	483.9	THA	175.21														

ORBIT DETERMINATION ACCURACY

ST	438.6	SR	445.4	SS	381.2														
CRT	.5403	CRS	.6041	CST	.9955														
LSA	655.9	MSA	325.0	SSA	15.7														
EL1	548.6	EL2	299.6	ALF	45.82														

LAUNCH DATE SEP 24 1965 FLIGHT TIME 90.00 ARRIVAL DATE DEC 23 1965

HELIOCENTRIC CONIC DISTANCE 190.391

RL	150.07	LAL	-.00	LOL	.74	VL	21.804	GAL	16.02	AZL	90.38	HCA	69.62	SMA	102.61	ECC	.52320	INC	.3796
RP	107.85	LAP	-.36	LOP	70.36	VP	34.173	GAP	-31.42	AZP	90.13	TAL	164.18	TAP	233.80	RCA	48.93	APO	156.30
RC	59.781	GL	-.73	GP	-5.48	ZAL	53.31	ZAP	19.66	ETS	161.10	ZAE	138.29	ETE	186.05	ZAC	20.07	ETC	97.63

V1	29.692																		
V2	35.138																		
CLP	18.91																		

PLANETOCENTRIC CONIC

C3	118.586	VHL	10.890	DLA	-19.12	RAL	310.03	RAD	6570.2	VEL	15.489	PTH	2.76	VHP	18.699	DPA	-29.66	RAP	268.76

ECC	2.9516																		
INJ 2 LONG																			
21.30																			
299.21																			
3.90																			
255.40																			
351.26																			
233.99																			

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT
90.00	10 30 19	1998.61	-13.81	28.25	197.23	114.97	11 3 37	1398.6	-10.33
90.00	17 8 47	637.87	24.86	307.47	210.66	104.01	17 19 25	37.9	26.55
100.00	11 39 52	1774.16	-15.66	10.84	196.32	115.79	12 9 26	1174.2	-12.07
100.00	18 41 55	5625.59	26.85	263.83	211.20	103.65	20 15 41	5025.6	28.46
110.00	12 22 35	1640.30	-20.34	358.19	193.82	118.08	12 49 55	1040.3	-16.43
110.00	20 15 41	5332.21	31.96	242.93	212.58	102.81	21 44 33	4732.2	33.40

DIFFERENTIAL CORRECTIONS

TOE	-.5828	TRA	-2.0693	TC3	-.1963	BAU	.3120												
RDE	-.8293	RRA	.4109	RC3	-.0136	FAU	.01288												
FDE	.3429	FRA	1.0225	FC3	-.0941	BSP	3771												
BDE	1.0136	BRA	2.1097	BC3	.1968	FSP	-131												

MID-COURSE EXECUTION ACCURACY

SGT	1266.8	SGR	493.6	SG3	54.6														
RRT	-.1875	RRF	.1850	RTF	-.7799														
SGB	1359.6	R23	-.0141	R13	.7808														
SG1	1270.8	SG2	483.3	THA	175.11														

ORBIT DETERMINATION ACCURACY

ST	462.3	SR	441.7	SS	401.5														
CRT	.5391	CRS	.6102	CST	.9948														
LSA	680.2	MSA	327.2	SSA	15.8														
EL1	561.1	EL2	306.5	ALF	42.59														

LAUNCH DATE SEP 24 1965 FLIGHT TIME 92.00 ARRIVAL DATE DEC 25 1965

HELIOCENTRIC CONIC DISTANCE 196.828

RL	150.07	LAL	-.00	LOL	.74	VL	22.211	GAL	15.32	AZL	90.17	HCA	72.84	SMA	104.05	ECC	.50170	INC	.1726
RP	107.81	LAP	-.17	LOP	73.58	VP	34.446	GAP	-30.05	AZP	90.05	TAL	163.54	TAP	236.38	RCA	51.85	APO	156.26
RC	57.879	GL	-.36	GP	-5.72	ZAL	52.44	ZAP	18.41	ETS	159.20	ZAE	139.13	ETE	187.17	ZAC	20.73	ETC	102.51

V1	29.692																		
V2	35.149																		
CLP	17.53																		

PLANETOCENTRIC CONIC

C3	108.760	VHL	10.429	DLA	-18.54	RAL	310.82	RAD	6570.1	VEL	15.169	PTH	2.72	VHP	17.967	DPA	-30.01	RAP	270.87

ECC	2.7899																		
INJ 2 LONG																			
21.64																			
274.19																			
4.12																			
252.56																			
351.26																			
231.27																			

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT
90.00	10 27 11	2004.45	-13.98	28.60	196.82	114.88	11 0 36	1404.4	-10.51
90.00	17 18 11	5884.80	25.51	282.54	210.01	102.73	18 56 16	5284.8	27.01
100.00	11 37 21	1778.02	-15.78	11.07	195.94	115.72	12 6 59	1178.0	-12.19
100.00	18 50 42	5586.47	27.45	261.08	210.49	102.32	20 23 49	4986.5	28.87
110.00	12 21 16	1640.41	-20.35	358.20	193.50	118.08	12 48 37	1040.4	-16.43
110.00	20 23 16	5296.84	32.47	240.29	211.70	101.33	21 51 33	4696.8	33.69

DIFFERENTIAL CORRECTIONS

TOE	-.5941	TRA	-2.0869	TC3	-.2048	BAU	.2988												
RDE	-.7847	RRA	.4108	RC3	-.0172	FAU	.01312												
FDE	.3651	FRA	1.0603	FC3	-.1045	BSP	3921												
BDE	.9842	BRA	2.1269	BC3	.2055	FSP	-143												

MID-COURSE EXECUTION ACCURACY

SGT	1323.3	SGR	493.8	SG3	58.9														
RRT	-.2018	RRF	.2007	RTF	-.7926														
SGB	1412.4	R23	-.0166	R13	.7935														
SG1	1327.7	SG2	482.0	THA	175.04														

ORBIT DETERMINATION ACCURACY

ST	488.2	SR	437.0	SS	423.0														
CRT	.5382	CRS	.6156	CST	.9942														
LSA	707.3	MSA	328.2	SSA	16.0														
EL1	576.1	EL2	312.1	ALF	39.18														

LAUNCH DATE SEP 24 1965 FLIGHT TIME 94.00 ARRIVAL DATE DEC 27 1965

HELIOCENTRIC CONIC DISTANCE 203.322

RL	150.07	LAL	-.00	LOL	.74	VL	22.593	GAL	14.65	AZL	89.97	HCA	76.06	SMA	105.47	ECC	.48097	INC	.0221	VI	29.692
RP	107.78	LAP	.03	LOP	76.80	VP	34.704	GAP	-28.72	AZP	89.99	TAL	162.92	TAP	238.99	RCA	54.74	APO	156.20	V2	35.160
RC	56.028	GL	.06	GP	-5.98	ZAL	51.62	ZAP	17.21	ETS	156.95	ZAE	140.06	ETE	188.44	ZAC	21.56	ETC	107.07	CLP	16.17

PLANETOCENTRIC CONIC

C3	99.776	VHL	9.989	DLA	-17.92	RAL	311.54	RAD	6569.9	VEL	14.870	PTH	2.68	VHP	17.258	DPA	-30.36	RAP	272.99	ECC	2.6421

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 23 41	2010.33	-14.15	28.95	196.32	114.79	10 57 12	1410.3	-10.69	21.98
90.00	17 27 26	5842.60	26.11	279.60	209.20	101.37	19 4 49	5242.6	27.42	271.17
100.00	11 34 28	1781.96	-15.89	11.31	195.47	115.66	12 4 10	1182.0	-12.31	4.35
100.00	18 59 21	5546.21	28.00	258.21	209.62	100.91	20 31 47	4946.2	29.22	249.62
110.00	12 19 34	1640.62	-20.35	358.21	193.09	118.07	12 46 55	1040.6	-16.44	351.27
110.00	20 30 43	5260.31	32.92	237.54	210.66	99.76	21 58 24	4660.3	33.92	228.44

DIFFERENTIAL CORRECTIONS

TDE	-.6019	TRA	-2.1012	TC3	-.2118	BAU	.2840
RDE	-.7407	RRA	.4102	RC3	-.0214	FAU	.01341
FDE	.3879	FRA	1.0995	FC3	-.1163	BSP	4136
BDE	.9544	BRA	2.1408	BC3	.2129	FSP	-156

MID-COURSE EXECUTION ACCURACY

SGT	1379.4	SGR	493.4	SG3	63.7				
RRT	-.2182	RRF	.2182	RTF	-.8049				
SGB	1465.0	R23	-.0188	R13	.8059				
SG1	1384.2	SG2	479.9	THA	174.93				

ORBIT DETERMINATION ACCURACY

ST	513.6	SR	431.3	SS	445.1		
CRT	.5350	CRS	.6196	CST	.9934		
LSA	734.7	MSA	328.5	SSA	16.1		
EL1	591.3	EL2	316.5	ALF	35.92		

LAUNCH DATE SEP 24 1965 FLIGHT TIME 96.00 ARRIVAL DATE DEC 29 1965

HELIOCENTRIC CONIC DISTANCE 209.867

RL	150.07	LAL	-.00	LOL	.74	VL	22.951	GAL	14.00	AZL	89.78	HCA	79.29	SMA	106.85	ECC	.46101	INC	.2202	VI	29.692
RP	107.75	LAP	.22	LOP	80.03	VP	34.949	GAP	-27.45	AZP	89.96	TAL	162.34	TAP	241.63	RCA	57.59	APO	156.11	V2	35.171
RC	54.237	GL	.51	GP	-6.27	ZAL	50.85	ZAP	16.05	ETS	154.29	ZAE	141.10	ETE	189.88	ZAC	22.54	ETC	111.26	CLP	14.80

PLANETOCENTRIC CONIC

C3	91.568	VHL	9.569	DLA	-17.28	RAL	312.20	RAD	6569.8	VEL	14.592	PTH	2.65	VHP	16.571	DPA	-30.70	RAP	275.14	ECC	2.5070

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 19 48	2016.40	-14.32	29.31	195.73	114.69	10 53 25	1416.4	-10.87	22.33
90.00	17 36 33	5799.27	26.66	276.54	208.25	99.93	19 13 12	5199.3	27.76	268.05
100.00	11 31 11	1786.11	-16.01	11.56	194.91	115.58	12 0 57	1186.1	-12.44	4.59
100.00	19 7 52	5504.79	28.50	255.24	208.61	99.42	20 39 37	4904.8	29.51	246.58
110.00	12 17 29	1641.05	-20.37	358.24	192.59	118.06	12 44 50	1041.1	-16.46	351.30
110.00	20 38 3	5222.62	33.32	234.67	209.47	98.11	22 5 6	4622.6	34.08	225.51

DIFFERENTIAL CORRECTIONS

TDE	-.6090	TRA	-2.1146	TC3	-.2182	BAU	.2691
RDE	-.6972	RRA	.4095	RC3	-.0262	FAU	.01373
FDE	.4119	FRA	1.1407	FC3	-.1298	BSP	4360
BDE	.9257	BRA	2.1539	BC3	.2198	FSP	-171

MID-COURSE EXECUTION ACCURACY

SGT	1437.2	SGR	492.7	SG3	68.8				
RRT	-.2362	RRF	.2375	RTF	-.8166				
SGB	1519.3	R23	-.0213	R13	.8176				
SG1	1442.5	SG2	477.0	THA	174.80				

ORBIT DETERMINATION ACCURACY

ST	539.8	SR	424.5	SS	468.2		
CRT	.5307	CRS	.6226	CST	.9926		
LSA	763.6	MSA	327.9	SSA	16.2		
EL1	607.8	EL2	319.5	ALF	32.72		

LAUNCH DATE SEP 24 1965 FLIGHT TIME 98.00 ARRIVAL DATE DEC 31 1965

HELIOCENTRIC CONIC DISTANCE 216.459

RL	150.07	LAL	-.00	LOL	.74	VL	23.286	GAL	13.38	AZL	89.59	HCA	82.52	SMA	108.20	ECC	.44184	INC	.4105	VI	29.692
RP	107.72	LAP	.41	LOP	83.26	VP	35.180	GAP	-26.22	AZP	89.95	TAL	161.79	TAP	244.31	RCA	60.40	APO	156.01	V2	35.181
RC	52.511	GL	1.01	GP	-6.59	ZAL	50.13	ZAP	14.95	ETS	151.14	ZAE	142.23	ETE	191.53	ZAC	23.65	ETC	115.08	CLP	13.44

PLANETOCENTRIC CONIC

C3	84.071	VHL	9.169	DLA	-16.60	RAL	312.79	RAD	6569.6	VEL	14.332	PTH	2.61	VHP	15.906	DPA	-31.04	RAP	277.30	ECC	2.3836

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 15 30	2022.81	-14.50	29.69	195.06	114.59	10 49 13	1422.8	-11.06	22.70
90.00	17 45 33	5754.77	27.14	273.37	207.16	98.41	19 21 28	5154.8	28.02	264.82
100.00	11 27 28	1790.63	-16.15	11.83	194.26	115.50	11 57 18	1190.6	-12.58	4.85
100.00	19 16 17	5462.18	28.94	252.14	207.45	97.85	20 47 19	4862.2	29.72	243.43
110.00	12 14 57	1641.84	-20.39	358.29	192.01	118.05	12 42 19	1041.8	-16.48	351.34
110.00	20 45 16	5183.74	33.66	231.69	208.14	96.37	22 11 40	4583.7	34.17	222.48

DIFFERENTIAL CORRECTIONS

TDE	-.6154	TRA	-2.1271	TC3	-.2239	BAU	.2541
RDE	-.6542	RRA	.4087	RC3	-.0319	FAU	.01408
FDE	.4373	FRA	1.1839	FC3	-.1450	BSP	4587
BDE	.8982	BRA	2.1660	BC3	.2261	FSP	-187

MID-COURSE EXECUTION ACCURACY

SGT	1496.7	SGR	491.5	SG3	74.4				
RRT	-.2561	RRF	.2589	RTF	-.8277				
SGB	1575.4	R23	-.0241	R13	.8288				
SG1	1502.6	SG2	473.3	THA	174.66				

ORBIT DETERMINATION ACCURACY

ST	586.7	SR	416.6	SS	492.4		
CRT	.5251	CRS	.6243	CST	.9916		
LSA	793.9	MSA	326.4	SSA	16.3		
EL1	625.8	EL2	321.0	ALF	29.61		

LAUNCH DATE SEP 24 1965 FLIGHT TIME 100.00 ARRIVAL DATE JAN 2 1966

HELIOCENTRIC CONIC DISTANCE 223.092

RL	150.07	LAL	-.00	LOL	.74	VL	23.601	GAL	12.79	AZL	89.40	HCA	85.74	SMA	109.52	ECC	.42347	INC	.5979	VI	29.692
RP	107.69	LAP	.60	LOP	86.48	VP	35.399	GAP	-25.04	AZP	89.96	TAL	161.27	TAP	247.02	RCA	63.14	APO	155.90	V2	35.191
RC	50.858	GL	1.57	GP	-6.94	ZAL	49.46	ZAP	13.91	ETS	147.37	ZAE	143.46	ETE	193.43	ZAC	24.89	ETC	118.52	CLP	12.08

PLANETOCENTRIC CONIC

C3	77.228	VHL	8.788	DLA	-15.88	RAL	313.31	RAD	6569.5	VEL	14.092	PTH	2.57	VHP	15.261	DPA	-31.39	RAP	279.48	ECC	2.2710

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 10 46	2029.74	-14.70	30.11	194.32	114.48	10 44 35	1429.7	-11.27	23.10
90.00	17 54 28	5709.05	27.55	270.09	205.92	96.82	19 29 37	5109.1	28.21	261.49
100.00	11 23 18	1795.69	-16.29	12.13	193.54	115.41	11 53 14	1195.7	-12.74	5.14
100.00	19 24 36	5418.34	29.30	248.93	206.14	96.20	20 54 55	4818.3	29.85	240.17
110.00	12 12 0	1643.15	-20.44	358.36	191.35	118.02	12 39 23	1043.1	-16.53	351.42
110.00	20 52 24	5143.64	33.92	228.58	206.65	94.55	22 18 8	4543.6	34.17	219.35

DIFFERENTIAL CORRECTIONS

TDE	-.6211	TRA	-2.1387	TC3	-.2285	BAU	.2392
RDE	-.6118	RRA	.4080	RC3	-.0384	FAU	.01447
FDE	.4642	FRA	1.2295	FC3	-.1622	BSP	4814
BDE	.8718	BRA	2.1772	BC3	.2317	FSP	-205

MID-COURSE EXECUTION ACCURACY

SGT	1557.9	SGR	490.1	SG3	80.5				
RRT	-.2781	RRF	.2826	RTF	-.8383				
SGB	1633.1	R23	-.0274	R13	.8394				
SG1	1564.4	SG2	468.8	THA	174.50				

ORBIT DETERMINATION ACCURACY

ST	594.4	SR	407.5	SS	517.8		
CRT	.5181	CRS	.6248	CST	.9906		
LSA	825.9	MSA	324.0	SSA	16.4		
EL1	645.1	EL2	321.1	ALF	26.63		

LAUNCH DATE SEP 24 1965 FLIGHT TIME 102.00 ARRIVAL DATE JAN 4 1966

DISTANCE 229.762

HELIOCENTRIC CONIC

RL	150.07	LAL	-.00	LOL	.74	VL	23.895	GAL	12.22	AZL	89.22	HCA	88.98	SMA	110.80	ECC	.40588	INC	.7842	VI	29.692
RP	107.66	LAP	.78	LOP	89.72	VP	35.605	GAP	-23.89	AZP	89.99	TAL	160.79	TAP	249.77	RCA	65.83	APO	155.77	V2	35.200
RC	49.288	GL	2.17	GP	-7.33	ZAL	48.85	ZAP	12.96	ETS	142.88	ZAE	144.78	ETE	195.62	ZAC	26.23	ETC	121.60	CLP	10.72

PLANETOCENTRIC CONIC

C3	70.989	VHL	8.425	DLA	-15.13	RAL	313.76	RAD	6569.4	VEL	13.869	PTH	2.53	VHP	14.638	DPA	-31.74	RAP	281.67	ECC	2.1683

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 5 32	2037.40	-14.91	30.57	193.50	114.35	10 39 29	1437.4	-11.50	23.55
90.00	18 3 18	5662.07	27.88	266.69	204.54	95.14	19 37 40	5062.1	28.30	258.05
100.00	11 18 39	1801.48	-16.46	12.48	192.75	115.31	11 48 41	1201.5	-12.92	5.48
100.00	19 32 52	5373.22	29.59	245.61	204.70	94.47	21 2 25	4773.2	29.89	236.82
110.00	12 8 34	1645.15	-20.50	358.48	190.62	117.97	12 35 59	1045.2	-16.60	351.53
110.00	20 59 27	5102.32	34.09	225.37	205.03	92.65	22 24 29	4502.3	34.08	216.12

DIFFERENTIAL CORRECTIONS

TDE	-.6262	TRA	-2.1492	TC3	-.2319	BAU	.2244
RDE	-.5700	RRA	.4076	RC3	-.0459	FAU	.01490
FDE	.4929	FRA	1.2777	FC3	-.1817	BSP	5047
BDE	.8468	BRA	2.1875	BC3	.2364	FSP	-224

MID-COURSE EXECUTION ACCURACY

SGT	1620.6	SGR	488.5	SG3	87.1		
RRT	-.3025	RRF	.3091	RTF	-.8482		
SGB	1692.6	R23	-.0311	R13	.8495		
SG1	1627.9	SG2	463.5	THA	174.33		

ORBIT DETERMINATION ACCURACY

ST	622.7	SR	397.1	SS	544.4		
CRT	.5094	CRS	.6238	CST	.9895		
LSA	859.5	MSA	320.7	SSA	16.5		
EL1	665.8	EL2	319.6	ALF	23.79		

LAUNCH DATE SEP 24 1965 FLIGHT TIME 104.00 ARRIVAL DATE JAN 6 1966

DISTANCE 236.464

HELIOCENTRIC CONIC

RL	150.07	LAL	-.00	LOL	.74	VL	24.171	GAL	11.67	AZL	89.03	HCA	92.21	SMA	112.04	ECC	.38907	INC	.9700	VI	29.692
RP	107.63	LAP	.97	LOP	92.95	VP	35.799	GAP	-22.79	AZP	90.04	TAL	160.35	TAP	252.56	RCA	68.45	APO	155.63	V2	35.209
RC	47.809	GL	2.84	GP	-7.76	ZAL	48.30	ZAP	12.13	ETS	137.56	ZAE	146.17	ETE	198.17	ZAC	27.67	ETC	124.34	CLP	9.35

PLANETOCENTRIC CONIC

C3	65.305	VHL	8.081	DLA	-14.33	RAL	314.15	RAD	6569.2	VEL	13.662	PTH	2.50	VHP	14.034	DPA	-32.11	RAP	283.86	ECC	2.0748

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 59 48	2046.02	-15.15	31.08	192.61	114.21	10 33 54	1446.0	-11.76	24.05
90.00	18 12 7	5613.77	28.13	263.18	203.03	93.40	19 45 40	5013.8	28.30	254.52
100.00	11 13 30	1808.22	-16.66	12.88	191.89	115.18	11 43 38	1208.2	-13.13	5.87
100.00	19 41 6	5326.79	29.78	242.17	203.13	92.67	21 9 52	4726.8	29.84	233.37
110.00	12 4 38	1648.05	-20.59	358.66	189.82	117.91	12 32 6	1048.0	-16.70	351.70
110.00	21 6 27	5059.73	34.18	222.05	203.28	90.69	22 30 46	4459.7	33.89	212.81

DIFFERENTIAL CORRECTIONS

TDE	-.6306	TRA	-2.1583	TC3	-.2337	BAU	.2095
RDE	-.5286	RRA	.4077	RC3	-.0544	FAU	.01538
FDE	.5235	FRA	1.3286	FC3	-.2039	BSP	5291
BDE	.8228	BRA	2.1965	BC3	.2400	FSP	-245

MID-COURSE EXECUTION ACCURACY

SGT	1684.4	SGR	487.0	SG3	94.3		
RRT	-.3296	RRF	.3385	RTF	-.8577		
SGB	1753.4	R23	-.0352	R13	.8590		
SG1	1692.6	SG2	457.6	THA	174.12		

ORBIT DETERMINATION ACCURACY

ST	651.6	SR	385.3	SS	572.5		
CRT	.4986	CRS	.6209	CST	.9883		
LSA	894.5	MSA	316.7	SSA	16.6		
EL1	687.6	EL2	316.5	ALF	21.10		

LAUNCH DATE SEP 24 1965 FLIGHT TIME 106.00 ARRIVAL DATE JAN 8 1966

DISTANCE 243.195

HELIOCENTRIC CONIC

RL	150.07	LAL	-.00	LOL	.74	VL	24.429	GAL	11.14	AZL	88.84	HCA	95.44	SMA	113.24	ECC	.37305	INC	1.1567	VI	29.692
RP	107.61	LAP	1.15	LOP	96.18	VP	35.981	GAP	-21.73	AZP	90.11	TAL	159.94	TAP	255.39	RCA	70.99	APO	155.48	V2	35.217
RC	46.433	GL	3.58	GP	-8.23	ZAL	47.81	ZAP	11.44	ETS	131.32	ZAE	147.61	ETE	201.14	ZAC	29.19	ETC	126.77	CLP	7.97

PLANETOCENTRIC CONIC

C3	60.135	VHL	7.755	DLA	-13.47	RAL	314.46	RAD	6569.1	VEL	13.472	PTH	2.46	VHP	13.451	DPA	-32.49	RAP	286.07	ECC	1.9897

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 53 30	2055.83	-15.43	31.67	191.66	114.04	10 27 46	1455.8	-12.05	24.62
90.00	18 20 54	5564.09	28.28	259.56	201.40	91.59	19 53 38	4964.1	28.20	250.89
100.00	11 7 47	1816.15	-16.89	13.36	190.97	115.04	11 38 3	1216.2	-13.38	6.33
100.00	19 49 18	5279.00	29.88	238.62	201.44	90.80	21 17 17	4679.0	29.67	229.83
110.00	12 0 10	1652.07	-20.72	358.90	188.96	117.82	12 27 42	1052.1	-16.83	351.93
110.00	21 13 24	5015.84	34.16	218.62	201.42	88.66	22 37 0	4415.8	33.60	209.42

DIFFERENTIAL CORRECTIONS

TDE	-.6351	TRA	-2.1667	TC3	-.2341	BAU	.1952
RDE	-.4875	RRA	.4085	RC3	-.0642	FAU	.01590
FDE	.5566	FRA	1.3830	FC3	-.2289	BSP	5525
BDE	.8006	BRA	2.2049	BC3	.2428	FSP	-268

MID-COURSE EXECUTION ACCURACY

SGT	1749.9	SGR	485.8	SG3	102.2		
RRT	-.3597	RRF	.3712	RTF	-.8666		
SGB	1816.0	R23	-.0400	R13	.8681		
SG1	1759.2	SG2	450.9	THA	173.90		

ORBIT DETERMINATION ACCURACY

ST	681.3	SR	372.1	SS	602.3		
CRT	.4855	CRS	.6158	CST	.9870		
LSA	931.6	MSA	311.8	SSA	16.7		
EL1	711.0	EL2	311.7	ALF	18.54		

LAUNCH DATE SEP 24 1965 FLIGHT TIME 108.00 ARRIVAL DATE JAN 10 1966

DISTANCE 249.949

HELIOCENTRIC CONIC

RL	150.07	LAL	-.00	LOL	.74	VL	24.670	GAL	10.64	AZL	88.65	HCA	98.68	SMA	114.39	ECC	.35779	INC	1.3455	VI	29.692
RP	107.58	LAP	1.33	LOP	99.42	VP	36.153	GAP	-20.70	AZP	90.20	TAL	159.58	TAP	258.25	RCA	73.46	APO	155.32	V2	35.224
RC	45.168	GL	4.39	GP	-8.76	ZAL	47.38	ZAP	10.94	ETS	124.18	ZAE	149.08	ETE	204.62	ZAC	30.79	ETC	128.90	CLP	6.59

PLANETOCENTRIC CONIC

C3	55.439	VHL	7.446	DLA	-12.56	RAL	314.70	RAD	6569.0	VEL	13.297	PTH	2.43	VHP	12.887	DPA	-32.89	RAP	288.29	ECC	1.9124

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 46 36	2067.12	-15.74	32.36	190.66	113.85	10 21 3	1467.1	-12.38	25.29
90.00	18 29 44	5512.97	28.32	255.82	199.66	89.71	20 1 37	4913.0	27.98	247.17
100.00	11 1 28	1825.54	-17.16	13.92	190.00	114.86	11 31 54	1225.5	-13.66	6.88
100.00	19 57 32	5229.78	29.87	234.97	199.64	88.88	21 24 42	4629.8	29.40	226.19
110.00	11 55 8	1657.47	-20.89	359.23	188.05	117.69	12 22 46	1057.5	-17.02	352.24
110.00	21 20 21	4970.62	34.03	215.09	199.45	86.58	22 43 12	4370.6	33.18	205.95

DIFFERENTIAL CORRECTIONS

TDE	-.6392	TRA	-2.1738	TC3	-.2324	BAU	.1811
RDE	-.4468	RRA	.4103	RC3	-.0754	FAU	.01647
FDE	.5924	FRA	1.4408	FC3	-.2572	BSP	5767
BDE	.7798	BRA	2.2122	BC3	.2444	FSP	-294

MID-COURSE EXECUTION ACCURACY

SGT	1816.3	SGR	485.2	SG3	110.8		
RRT	-.3930	RRF	.4076	RTF	-.8751		
SGB	1879.9	R23	-.0455	R13	.8766		
SG1	1826.9	SG2	443.6	THA	173.63		

ORBIT DETERMINATION ACCURACY

ST	711.6	SR	357.3	SS	633.8		
CRT	.4691	CRS	.6079	CST	.9857		
LSA	970.5	MSA	306.1	SSA	16.8		
EL1	735.4	EL2	305.3	ALF	16.10		

LAUNCH DATE SEP 24 1965 FLIGHT TIME 110.00 ARRIVAL DATE JAN 12 1966

HELIOCENTRIC CONIC DISTANCE 256.723

RL	150.07	LAL	-.00	LOL	.74	VL	24.895	GAL	10.16	AZL	88.46	HCA	101.91	SMA	115.50	ECC	.34329	INC	1.5376	V1	29.692
RP	107.56	LAP	1.50	LOP	102.66	VP	36.313	GAP	-19.70	AZP	90.32	TAL	159.25	TAP	261.16	RCA	75.85	APO	155.15	V2	35.231
RC	44.025	GL	5.27	GP	-9.35	ZAL	47.02	ZAP	10.68	ETS	116.28	ZAE	150.52	ETE	208.69	ZAC	32.46	ETC	130.76	CLP	5.19

PLANETOCENTRIC CONIC

C3	51.181	VHL	7.154	DLA	-11.59	RAL	314.87	RAD	6568.9	VEL	13.136	PTH	2.40	VHP	12.343	DPA	-33.32	RAP	290.52	ECC	1.8423

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 39 3	2080.20	-16.10	33.15	189.62	113.61	10 13 43	1480.2	-12.77	26.05
90.00	18 38 37	5460.33	28.24	251.97	197.82	87.78	20 9 37	4860.3	27.63	243.36
100.00	10 54 32	1836.69	-17.48	14.60	188.98	114.64	11 25 8	1236.7	-14.01	7.53
100.00	20 5 49	5179.08	29.75	231.20	197.74	86.90	21 32 8	4579.1	29.00	222.48
110.00	11 49 30	1664.51	-21.11	359.65	187.09	117.53	12 17 15	1064.5	-17.26	352.64
110.00	21 27 20	4924.02	33.78	211.48	197.38	84.45	22 49 24	4324.0	32.65	202.42

DIFFERENTIAL CORRECTIONS

TDE	-.6433	TRA	-2.1799	TC3	-.2287	BAU	.1677
RDE	-.4062	RRA	.4133	RC3	-.0880	FAU	.01709
FDE	.6315	FRA	1.5026	FC3	-.2891	BSP	6009
BDE	.7609	BRA	2.2187	BC3	.2451	FSP	-321

MID-COURSE EXECUTION ACCURACY

SGT	1883.8	SGR	485.7	SG3	120.2		
RRT	-.4299	RRF	.4478	RTF	-.8830		
SGB	1945.4	R23	-.0518	R13	.8848		
SG1	1896.0	SG2	435.7	THA	173.32		

ORBIT DETERMINATION ACCURACY

ST	742.6	SR	340.8	SS	667.5		
CRT	.4484	CRS	.5961	CST	.9843		
LSA	1011.4	MSA	299.6	SSA	16.9		
EL1	761.1	EL2	297.2	ALF	13.77		

LAUNCH DATE SEP 24 1965 FLIGHT TIME 112.00 ARRIVAL DATE JAN 14 1966

HELIOCENTRIC CONIC DISTANCE 263.513

RL	150.07	LAL	-.00	LOL	.74	VL	25.105	GAL	9.69	AZL	88.27	HCA	105.15	SMA	116.57	ECC	.32953	INC	1.7345	V1	29.692
RP	107.55	LAP	1.67	LOP	105.90	VP	36.463	GAP	-18.74	AZP	90.45	TAL	158.96	TAP	264.11	RCA	78.16	APO	154.98	V2	35.237
RC	43.015	GL	6.25	GP	-10.00	ZAL	46.73	ZAP	10.68	ETS	107.93	ZAE	151.89	ETE	213.45	ZAC	34.19	ETC	132.38	CLP	3.78

PLANETOCENTRIC CONIC

C3	47.332	VHL	6.880	DLA	-10.54	RAL	314.96	RAD	6568.8	VEL	12.988	PTH	2.37	VHP	11.818	DPA	-33.79	RAP	292.75	ECC	1.7790

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 30 48	2095.40	-16.51	34.07	188.54	113.34	10 5 43	1495.4	-13.21	26.95
90.00	18 47 36	5406.09	28.03	248.01	195.89	85.81	20 17 42	4806.1	27.16	239.46
100.00	10 46 53	1849.91	-17.85	15.40	187.92	114.38	11 17 43	1249.9	-14.41	8.30
100.00	20 14 11	5126.81	29.49	227.34	195.76	84.88	21 39 38	4526.8	28.47	218.68
110.00	11 43 13	1673.51	-21.40	.20	186.10	117.32	12 11 7	1073.5	-17.56	353.16
110.00	21 34 21	4875.98	33.41	207.78	195.24	82.29	22 55 37	4276.0	31.98	198.84

DIFFERENTIAL CORRECTIONS

TDE	-.6473	TRA	-2.1845	TC3	-.2225	BAU	.1550
RDE	-.3656	RRA	.4178	RC3	-.1024	FAU	.01777
FDE	.6741	FRA	1.5685	FC3	-.3251	BSP	6251
BDE	.7435	BRA	2.2241	BC3	.2449	FSP	-352

MID-COURSE EXECUTION ACCURACY

SGT	1951.6	SGR	487.7	SG3	130.5		
RRT	-.4703	RRF	.4920	RTF	-.8905		
SGB	2011.6	R23	-.0590	R13	.8924		
SG1	1965.7	SG2	427.3	THA	172.96		

ORBIT DETERMINATION ACCURACY

ST	773.9	SR	322.5	SS	703.2		
CRT	.4217	CRS	.5789	CST	.9829		
LSA	1054.3	MSA	292.5	SSA	16.9		
EL1	787.6	EL2	287.3	ALF	11.52		

LAUNCH DATE SEP 24 1965 FLIGHT TIME 114.00 ARRIVAL DATE JAN 16 1966

HELIOCENTRIC CONIC DISTANCE 270.315

RL	150.07	LAL	-.00	LOL	.74	VL	25.301	GAL	9.25	AZL	88.06	HCA	108.39	SMA	117.59	ECC	.31650	INC	1.9376	V1	29.692
RP	107.53	LAP	1.84	LOP	109.14	VP	36.604	GAP	-17.81	AZP	90.61	TAL	158.71	TAP	267.11	RCA	80.37	APO	154.81	V2	35.242
RC	42.147	GL	7.32	GP	-10.73	ZAL	46.52	ZAP	10.98	ETS	99.59	ZAE	153.10	ETE	218.96	ZAC	35.98	ETC	133.78	CLP	2.35

PLANETOCENTRIC CONIC

C3	43.861	VHL	6.623	DLA	-9.42	RAL	314.97	RAD	6568.7	VEL	12.854	PTH	2.34	VHP	11.313	DPA	-34.32	RAP	295.00	ECC	1.7218

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 21 47	2113.10	-16.98	35.16	187.44	113.00	9 57 0	1513.1	-13.72	28.00
90.00	18 56 44	5350.14	27.69	243.96	193.89	83.81	20 25 54	4750.1	26.54	235.48
100.00	10 38 30	1865.58	-18.29	16.36	186.84	114.07	11 9 35	1265.6	-14.88	9.22
100.00	20 22 41	5072.89	29.10	223.38	193.70	82.84	21 47 14	4472.9	27.80	214.81
110.00	11 36 14	1684.81	-21.75	.89	185.08	117.05	12 4 19	1084.8	-17.95	353.82
110.00	21 41 27	4826.43	32.89	204.00	193.04	80.11	23 1 53	4226.4	31.18	195.20

DIFFERENTIAL CORRECTIONS

TDE	-.6524	TRA	-2.1883	TC3	-.2135	BAU	.1432
RDE	-.3247	RRA	.4243	RC3	-.1187	FAU	.01851
FDE	.7213	FRA	1.6393	FC3	-.3653	BSP	6497
BDE	.7288	BRA	2.2290	BC3	.2442	FSP	-385

MID-COURSE EXECUTION ACCURACY

SGT	2020.2	SGR	492.1	SG3	141.7		
RRT	-.5142	RRF	.5399	RTF	-.8976		
SGB	2079.3	R23	-.0672	R13	.8997		
SG1	2036.7	SG2	418.6	THA	172.54		

ORBIT DETERMINATION ACCURACY

ST	806.3	SR	302.4	SS	741.6		
CRT	.3870	CRS	.5541	CST	.9815		
LSA	1100.0	MSA	284.8	SSA	16.9		
EL1	815.8	EL2	275.5	ALF	9.33		

LAUNCH DATE SEP 24 1965 FLIGHT TIME 116.00 ARRIVAL DATE JAN 18 1966

HELIOCENTRIC CONIC DISTANCE 277.126

RL	150.07	LAL	-.00	LOL	.74	VL	25.483	GAL	8.84	AZL	87.85	HCA	111.63	SMA	118.56	ECC	.30418	INC	2.1485	V1	29.692
RP	107.51	LAP	2.00	LOP	112.38	VP	36.735	GAP	-16.91	AZP	90.79	TAL	158.51	TAP	270.14	RCA	82.50	APO	154.63	V2	35.247
RC	41.430	GL	8.51	GP	-11.55	ZAL	46.40	ZAP	11.59	ETS	91.70	ZAE	154.08	ETE	225.24	ZAC	37.83	ETC	134.97	CLP	.90

PLANETOCENTRIC CONIC

C3	40.744	VHL	6.383	DLA	-8.21	RAL	314.91	RAD	6568.6	VEL	12.732	PTH	2.31	VHP	10.828	DPA	-34.90	RAP	297.25	ECC	1.6705

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 11 55	2133.71	-17.53	36.43	186.32	112.60	9 47 29	1533.7	-14.31	29.22
90.00	19 6 4	5292.36	27.19	239.80	191.83	81.78	20 34 16	4692.4	25.77	231.42
100.00	10 29 17	1884.10	-18.80	17.50	185.75	113.68	11 0 42	1284.1	-15.44	10.32
100.00	20 31 22	5017.20	28.56	219.33	191.60	80.77	21 55 0	4417.2	26.99	210.88
110.00	11 28 29	1698.77	-22.18	1.74	184.05	116.71	11 56 48	1098.8	-18.41	354.63
110.00	21 48 41	4775.29	32.23	200.16	190.80	77.93	23 8 16	4175.3	30.23	191.51

DIFFERENTIAL CORRECTIONS

TDE	-.6258	TRA	-2.1921	TC3	-.1983	BAU	.1313
RDE	-.2827	RRA	.4333	RC3	-.1369	FAU	.01929
FDE	.7737	FRA	1.7152	FC3	-.4100	BSP	6729
BDE	.6867	BRA	2.2345	BC3	.2410	FSP	-422

MID-COURSE EXECUTION ACCURACY

SGT	2081.4	SGR	499.4	SG3	154.0		
RRT	-.5719	RRF	.5916	RTF	-.9032		
SGB	2140.4	R23	-.0666	R13	.9054		
SG1	2101.6	SG2	405.7	THA	171.88		

ORBIT DETERMINATION ACCURACY

ST	819.4	SR	279.9	SS	782.9		
CRT	.3153	CRS	.5173	CST	.9747		
LSA	1132.4	MSA	283.0	SSA	16.7		
EL1	824.7	EL2	263.9	ALF	6.85		

LAUNCH DATE SEP 24 1965 FLIGHT TIME 118.00 ARRIVAL DATE JAN 20 1966

DISTANCE 283.942

HELIOCENTRIC CONIC

RL 150.07 LAL -.00 LOL .74 VL 25.653 GAL 8.44 AZL 87.63 HCA 114.87 SMA 119.49 ECC .29255 INC 2.3691 V1 29.692
RP 107.50 LAP 2.15 LOP 115.63 VP 36.856 GAP -16.03 AZP 91.00 TAL 158.34 TAP 273.21 RCA 84.53 APO 154.45 V2 35.251
RC 40.873 GL 9.80 GP -12.48 ZAL 46.37 ZAP 12.49 ETS 84.61 ZAE 154.73 ETE 232.21 ZAC 39.74 ETC 135.97 CLP -.57

PLANETOCENTRIC CONIC

C3 37.958 VHL 6.161 DLA -6.90 RAL 314.76 RAD 6568.5 VEL 12.622 PTH 2.29 VHP 10.362 DPA -35.56 RAP 299.52 ECC 1.6247

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 1 9	2157.69	-18.15	37.91	185.20	112.12	9 37 6	1557.7	-14.99	30.66
90.00	19 15 40	5232.60	26.54	235.55	189.74	79.74	20 42 52	4632.6	24.85	227.29
100.00	10 19 12	1905.91	-19.39	18.85	184.66	113.21	10 50 57	1305.9	-16.08	11.62
100.00	20 40 18	4959.62	27.86	215.19	189.46	78.70	22 2 58	4359.6	26.02	206.87
110.00	11 19 54	1715.82	-22.69	2.79	183.03	116.28	11 48 30	1115.8	-18.98	355.63
110.00	21 56 5	4722.47	31.41	196.26	188.53	75.76	23 14 47	4122.5	29.13	187.79

DIFFERENTIAL CORRECTIONS

TDE -.6643 TRA-2.1925 TC3 -.1861 BAU .1237
RDE -.2407 RRA .4451 RC3 -.1575 FAU .02015
FDE .8319 FRA 1.7966 FC3 -.4595 BSP 6996
BDE .7065 BRA 2.2372 BC3 .2438 FSP -462

MID-COURSE EXECUTION ACCURACY

SGT 2157.0 SGR 511.5 SG3 167.3
RRT -.6106 RRF .6445 RTF -.9107
SGB 2216.8 R23 -.0865 R13 .9134
SG1 2180.3 SG2 400.8 THA 171.47

ORBIT DETERMINATION ACCURACY

ST 872.5 SR 256.5 SS 827.2
CRT .2736 CRS .4638 CST .9785
LSA 1199.7 MSA 268.0 SSA 16.9
EL1 875.6 EL2 245.8 ALF 4.99

LAUNCH DATE SEP 24 1965 FLIGHT TIME 120.00 ARRIVAL DATE JAN 22 1966

DISTANCE 290.762

HELIOCENTRIC CONIC

RL 150.07 LAL -.00 LOL .74 VL 25.811 GAL 8.06 AZL 87.40 HCA 118.11 SMA 120.37 ECC .28160 INC 2.6017 V1 29.692
RP 107.49 LAP 2.29 LOP 118.87 VP 36.970 GAP -15.19 AZP 91.23 TAL 158.21 TAP 276.32 RCA 86.47 APO 154.27 V2 35.254
RC 40.482 GL 11.23 GP -13.53 ZAL 46.44 ZAP 13.69 ETS 78.52 ZAE 154.96 ETE 239.68 ZAC 41.72 ETC 136.79 CLP -2.07

PLANETOCENTRIC CONIC

C3 35.487 VHL 5.957 DLA -5.48 RAL 314.53 RAD 6568.4 VEL 12.524 PTH 2.27 VHP 9.917 DPA -36.32 RAP 301.80 ECC 1.5840

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 49 22	2185.57	-18.85	39.65	184.11	111.53	9 25 47	1585.6	-15.76	32.34
90.00	19 25 36	5170.70	25.71	231.20	187.63	77.72	20 51 46	4570.7	23.77	223.08
100.00	10 8 7	1931.51	-20.07	20.45	183.59	112.63	10 40 18	1331.5	-16.83	13.15
100.00	20 49 32	4899.99	26.99	210.97	187.30	76.64	22 11 12	4300.0	24.88	202.80
110.00	11 10 26	1736.41	-23.31	4.08	182.02	115.74	11 39 22	1136.4	-19.65	358.84
110.00	22 3 42	4667.85	30.43	192.31	186.26	73.61	23 21 30	4067.9	27.88	184.04

DIFFERENTIAL CORRECTIONS

TDE -.6724 TRA-2.1933 TC3 -.1683 BAU .1171
RDE -.1966 RRA .4605 RC3 -.1805 FAU .02105
FDE .8973 FRA 1.8836 FC3 -.5135 BSP 7232
BDE .7005 BRA 2.2411 BC3 .2468 FSP -506

MID-COURSE EXECUTION ACCURACY

SGT 2224.8 SGR 529.1 SG3 181.9
RRT -.6606 RRF .6987 RTF -.9165
SGB 2286.8 R23 -.0983 R13 .9197
SG1 2252.9 SG2 392.3 THA 170.79

ORBIT DETERMINATION ACCURACY

ST 906.9 SR 231.5 SS 875.2
CRT .1782 CRS .3812 CST .9771
LSA 1254.8 MSA 259.2 SSA 16.8
EL1 907.9 EL2 227.6 ALF 2.78

LAUNCH DATE SEP 24 1965 FLIGHT TIME 122.00 ARRIVAL DATE JAN 24 1966

DISTANCE 297.580

HELIOCENTRIC CONIC

RL 150.07 LAL -.00 LOL .74 VL 25.958 GAL 7.70 AZL 87.15 HCA 121.35 SMA 121.21 ECC .27131 INC 2.8488 V1 29.692
RP 107.48 LAP 2.43 LOP 122.12 VP 37.074 GAP -14.37 AZP 91.48 TAL 158.12 TAP 279.47 RCA 88.32 APO 154.09 V2 35.256
RC 40.263 GL 12.80 GP -14.72 ZAL 46.63 ZAP 15.15 ETS 73.45 ZAE 154.68 ETE 247.33 ZAC 43.76 ETC 137.44 CLP -3.60

PLANETOCENTRIC CONIC

C3 33.314 VHL 5.772 DLA -3.94 RAL 314.21 RAD 6568.3 VEL 12.437 PTH 2.25 VHP 9.493 DPA -37.19 RAP 304.11 ECC 1.5483

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 36 28	2217.92	-19.65	41.69	183.05	110.81	9 13 26	1617.9	-16.64	34.31
90.00	19 35 57	5106.45	24.71	226.77	185.52	75.71	21 1 3	4506.4	22.50	218.79
100.00	9 55 58	1961.47	-20.84	22.34	182.55	111.93	10 28 39	1361.5	-17.68	14.97
100.00	20 59 8	4838.13	25.94	206.67	185.15	74.61	22 19 46	4238.1	23.58	198.67
110.00	10 59 58	1761.06	-24.03	5.63	181.05	115.08	11 29 20	1161.1	-20.45	358.31
110.00	22 11 36	4611.30	29.27	188.31	184.01	71.50	23 28 28	4011.3	26.47	180.25

DIFFERENTIAL CORRECTIONS

TDE -.6825 TRA-2.1934 TC3 -.1469 BAU .1127
RDE -.1501 RRA .4802 RC3 -.2060 FAU .02200
FDE .9710 FRA 1.9767 FC3 -.5716 BSP 7474
BDE .6988 BRA 2.2454 BC3 .2530 FSP -553

MID-COURSE EXECUTION ACCURACY

SGT 2291.5 SGR 554.2 SG3 197.6
RRT -.7100 RRF .7519 RTF -.9221
SGB 2357.6 R23 -.1110 R13 .9258
SG1 2326.0 SG2 384.5 THA 169.98

ORBIT DETERMINATION ACCURACY

ST 942.2 SR 206.9 SS 927.1
CRT .0366 CRS .2519 CST .9759
LSA 1314.2 MSA 250.5 SSA 16.6
EL1 942.2 EL2 206.8 ALF .48

LAUNCH DATE SEP 24 1965 FLIGHT TIME 124.00 ARRIVAL DATE JAN 26 1966

DISTANCE 304.396

HELIOCENTRIC CONIC

RL 150.07 LAL -.00 LOL .74 VL 26.094 GAL 7.35 AZL 86.89 HCA 124.59 SMA 121.99 ECC .26165 INC 3.1136 V1 29.692
RP 107.48 LAP 2.56 LOP 125.37 VP 37.171 GAP -13.57 AZP 91.77 TAL 158.07 TAP 282.66 RCA 90.07 APO 153.91 V2 35.258
RC 40.219 GL 14.52 GP -16.08 ZAL 46.94 ZAP 16.87 ETS 69.33 ZAE 153.88 ETE 254.79 ZAC 45.87 ETC 137.94 CLP -5.17

PLANETOCENTRIC CONIC

C3 31.429 VHL 5.606 DLA -2.26 RAL 313.80 RAD 6568.3 VEL 12.361 PTH 2.23 VHP 9.092 DPA -38.20 RAP 306.46 ECC 1.5172

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 22 19	2255.43	-20.54	44.09	182.05	109.93	8 59 54	1655.4	-17.64	36.61
90.00	19 46 49	5039.60	23.51	222.24	183.43	73.74	21 10 49	4439.6	21.06	214.42
100.00	9 42 36	1996.43	-21.71	24.57	181.58	111.07	10 15 53	1396.4	-18.66	17.11
100.00	21 9 13	4773.84	24.71	202.29	183.03	72.62	22 28 47	4173.8	22.10	194.47
110.00	10 48 26	1790.36	-24.86	7.50	180.15	114.25	11 18 16	1190.4	-21.37	.08
110.00	22 19 53	4552.67	27.94	184.27	181.80	69.45	23 35 45	3952.7	24.88	176.43

DIFFERENTIAL CORRECTIONS

TDE -.6953 TRA-2.1925 TC3 -.1227 BAU .1111
RDE -.1004 RRA .5052 RC3 -.2342 FAU .02298
FDE 1.0544 FRA 2.0755 FC3 -.6329 BSP 7717
BDE .7025 BRA 2.2499 BC3 .2644 FSP -604

MID-COURSE EXECUTION ACCURACY

SGT 2356.4 SGR 588.6 SG3 214.6
RRT -.7567 RRF .8019 RTF -.9274
SGB 2428.8 R23 -.1248 R13 .9316
SG1 2399.2 SG2 377.9 THA 169.02

ORBIT DETERMINATION ACCURACY

ST 978.6 SR 186.1 SS 983.4
CRT -.1720 CRS .0503 CST .9747
LSA 1378.6 MSA 242.0 SSA 16.3
EL1 979.1 EL2 183.2 ALF 178.06

LAUNCH DATE SEP 24 1965 FLIGHT TIME 126.00 ARRIVAL DATE JAN 28 1966

HELIOCENTRIC CONIC DISTANCE 311.206

RL 150.07 LAL -.00 LOL .74 VL 26.220 GAL 7.03 AZL 86.60 HCA 127.83 SMA 122.74 ECC .25261 INC 3.4000 V1 29.692
RP 107.48 LAP 2.68 LOP 128.62 VP 37.261 GAP -12.80 AZP 92.09 TAL 158.05 TAP 285.88 RCA 91.73 APO 153.74 V2 35.259
RC 40.350 GL 16.41 GP -17.63 ZAL 47.39 ZAP 18.84 ETS 66.06 ZAE 152.54 ETE 261.67 ZAC 48.07 ETC 138.27 CLP -6.77

PLANETOCENTRIC CONIC

C3 29.826 VHL 5.461 DLA -.44 RAL 313.29 RAD 6568.2 VEL 12.296 PTH 2.21 VHP 8.715 DPA -39.37 RAP 308.86 ECC 1.4909

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 6 46	2298.87	-21.52	46.89	181.14	108.86	8 45 4	1698.9	-18.75	39.32
90.00	19 58 20	4969.88	22.10	217.61	181.40	71.84	21 21 10	4369.9	19.42	209.97
100.00	9 27 54	2037.14	-22.68	27.20	180.70	110.01	10 1 51	1437.1	-19.75	19.63
100.00	21 19 53	4706.85	23.27	197.84	180.97	70.69	22 38 20	4106.8	20.43	190.20
110.00	10 35 41	1824.97	-25.81	9.74	179.34	113.23	11 6 6	1225.0	-22.44	2.20
110.00	22 28 36	4491.78	26.41	180.19	179.65	67.47	23 43 27	3891.8	23.13	172.57

DIFFERENTIAL CORRECTIONS
TDE -.7114 TRA-2.1911 TC3 -.0960 BAU .1124
RDE -.0462 RRA .5365 RC3 -.2651 FAU .02396
FDE 1.1489 FRA 2.1796 FC3 -.6956 BSP 7963
BDE .7129 BRA 2.2558 BC3 .2819 FSP -659

MID-COURSE EXECUTION ACCURACY
SGT 2419.2 SGR 634.8 SG3 232.8
RRT -.7991 RRF .8469 RTF -.9323
SGB 2501.1 R23 -.1392 R13 .9373
SG1 2473.1 SG2 373.3 THA 167.88

ORBIT DETERMINATION ACCURACY
ST 1016.2 SR 175.9 SS 1044.4
CRT -.4487 CRS -.2359 CST .9738
LSA 1448.9 MSA 234.1 SSA 15.9
EL1 1019.3 EL2 156.7 ALF 175.45

LAUNCH DATE SEP 24 1965 FLIGHT TIME 128.00 ARRIVAL DATE JAN 30 1966

HELIOCENTRIC CONIC DISTANCE 318.008

RL 150.07 LAL -.00 LOL .74 VL 26.336 GAL 6.73 AZL 86.29 HCA 131.07 SMA 123.44 ECC .24417 INC 3.7127 V1 29.692
RP 107.48 LAP 2.80 LOP 131.87 VP 37.343 GAP -12.06 AZP 92.44 TAL 158.06 TAP 289.13 RCA 93.30 APO 153.58 V2 35.259
RC 40.657 GL 18.49 GP -19.40 ZAL 48.00 ZAP 21.08 ETS 63.51 ZAE 150.69 ETE 267.75 ZAC 50.37 ETC 138.47 CLP -8.41

PLANETOCENTRIC CONIC

C3 28.505 VHL 5.339 DLA 1.55 RAL 312.69 RAD 6568.1 VEL 12.243 PTH 2.20 VHP 8.364 DPA -40.75 RAP 311.33 ECC 1.4691

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 49 36	2349.17	-22.59	30.19	180.35	107.54	8 28 45	1749.2	-19.98	42.49
90.00	20 10 40	4896.93	20.48	212.88	179.45	70.01	21 32 16	4296.9	17.57	205.41
100.00	9 11 40	2084.46	-23.75	30.31	179.94	108.70	9 46 25	1484.5	-20.98	22.61
100.00	21 31 17	4636.87	21.62	193.29	178.99	68.84	22 48 34	4036.9	18.56	185.84
110.00	10 21 34	1865.67	-26.87	12.42	178.66	111.97	10 52 40	1265.7	-23.65	4.74
110.00	22 37 52	4428.43	24.69	176.07	177.59	65.58	23 51 40	3828.4	21.19	168.68

DIFFERENTIAL CORRECTIONS
TDE -.7290 TRA-2.1867 TC3 -.0636 BAU .1164
RDE .0138 RRA .5751 RC3 -.2988 FAU .02500
FDE 1.2547 FRA 2.2864 FC3 -.7592 BSP 8262
BDE .7291 BRA 2.2611 BC3 .3055 FSP -720

MID-COURSE EXECUTION ACCURACY
SGT 2475.4 SGR 695.1 SG3 251.8
RRT -.8364 RRF .8855 RTF -.9370
SGB 2571.2 R23 -.1528 R13 .9429
SG1 2544.3 SG2 370.7 THA 166.49

ORBIT DETERMINATION ACCURACY
ST 1052.6 SR 186.1 SS 1109.1
CRT -.7253 CRS -.5485 CST .9729
LSA 1523.4 MSA 227.6 SSA 15.3
EL1 1061.4 EL2 127.0 ALF 172.59

LAUNCH DATE SEP 24 1965 FLIGHT TIME 130.00 ARRIVAL DATE FEB 1 1966

HELIOCENTRIC CONIC DISTANCE 324.800

RL 150.07 LAL -.00 LOL .74 VL 26.444 GAL 6.44 AZL 85.94 HCA 134.31 SMA 124.09 ECC .23631 INC 4.0578 V1 29.692
RP 107.48 LAP 2.90 LOP 135.12 VP 37.418 GAP -11.33 AZP 92.84 TAL 158.11 TAP 292.41 RCA 94.77 APO 153.41 V2 35.258
RC 41.135 GL 20.78 GP -21.45 ZAL 48.79 ZAP 23.61 ETS 61.58 ZAE 148.38 ETE 272.88 ZAC 52.80 ETC 138.52 CLP -10.10

PLANETOCENTRIC CONIC

C3 27.476 VHL 5.242 DLA 3.72 RAL 311.97 RAD 6568.1 VEL 12.200 PTH 2.19 VHP 8.042 DPA -42.36 RAP 313.92 ECC 1.4522

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 30 36	2407.45	-23.73	54.08	179.72	105.92	8 10 43	1807.5	-21.32	46.24
90.00	20 23 59	4820.30	18.62	208.02	177.62	68.27	21 44 19	4220.3	15.51	200.73
100.00	8 53 41	2139.46	-24.90	33.99	179.34	107.09	9 29 21	1539.5	-22.33	26.14
100.00	21 43 35	4563.53	19.75	188.65	177.13	67.09	22 59 38	3963.5	16.48	181.39
110.00	10 5 56	1913.36	-28.05	15.64	178.15	110.39	10 37 49	1313.4	-25.01	7.78
110.00	22 47 50	4362.39	22.77	171.91	175.65	63.79	24 0 32	3762.4	19.06	164.73

DIFFERENTIAL CORRECTIONS
TDE -.7546 TRA-2.1850 TC3 -.0340 BAU .1235
RDE .0826 RRA .6232 RC3 -.3344 FAU .02589
FDE 1.3759 FRA 2.3965 FC3 -.8159 BSP 8511
BDE .7591 BRA 2.2721 BC3 .3361 FSP -782

MID-COURSE EXECUTION ACCURACY
SGT 2531.7 SGR 772.7 SG3 271.6
RRT -.8669 RRF .9170 RTF -.9413
SGB 2647.0 R23 -.1662 R13 .9484
SG1 2620.7 SG2 372.1 THA 164.87

ORBIT DETERMINATION ACCURACY
ST 1033.5 SR 224.0 SS 1179.7
CRT -.9039 CRS -.7815 CST .9726
LSA 1608.8 MSA 221.9 SSA 14.5
EL1 1112.3 EL2 94.2 ALF 169.43

LAUNCH DATE SEP 24 1965 FLIGHT TIME 132.00 ARRIVAL DATE FEB 3 1966

HELIOCENTRIC CONIC DISTANCE 331.579

RL 150.07 LAL -.00 LOL .74 VL 26.543 GAL 6.17 AZL 85.56 HCA 137.54 SMA 124.70 ECC .22900 INC 4.4432 V1 29.692
RP 107.48 LAP 3.00 LOP 138.37 VP 37.487 GAP -10.63 AZP 93.28 TAL 158.18 TAP 295.72 RCA 96.15 APO 153.26 V2 35.257
RC 41.780 GL 23.28 GP -23.81 ZAL 49.77 ZAP 26.43 ETS 60.17 ZAE 145.65 ETE 277.06 ZAC 55.38 ETC 138.45 CLP -11.82

PLANETOCENTRIC CONIC

C3 26.756 VHL 5.173 DLA 6.09 RAL 311.15 RAD 6568.1 VEL 12.171 PTH 2.18 VHP 7.755 DPA -44.25 RAP 316.66 ECC 1.4403

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 9 25	2475.11	-24.92	58.68	179.29	103.90	7 50 40	1875.1	-22.76	50.68
90.00	20 38 34	4739.45	16.51	203.03	175.94	66.66	21 57 33	4139.4	13.21	195.90
100.00	8 33 39	2203.43	-26.11	38.36	178.95	105.09	9 10 22	1603.4	-23.78	30.33
100.00	21 57 1	4486.36	17.64	183.90	175.42	65.47	23 11 47	3886.4	14.18	176.81
110.00	9 48 30	1969.15	-29.31	19.49	177.86	108.43	10 21 19	1369.1	-26.51	11.42
110.00	22 58 39	4293.40	20.63	167.69	173.86	62.12	24 10 12	3693.4	16.74	160.73

DIFFERENTIAL CORRECTIONS
TDE -.7870 TRA-2.1835 TC3 -.0053 BAU .1327
RDE .1628 RRA .6824 RC3 -.3710 FAU .02663
FDE 1.5127 FRA 2.5048 FC3 -.8618 BSP 8753
BDE .8037 BRA 2.2876 BC3 .3711 FSP -844

MID-COURSE EXECUTION ACCURACY
SGT 2583.8 SGR 870.5 SG3 291.6
RRT -.8910 RRF .9414 RTF -.9453
SGB 2726.5 R23 -.1776 R13 .9538
SG1 2700.2 SG2 378.1 THA 162.95

ORBIT DETERMINATION ACCURACY
ST 1136.8 SR 290.9 SS 1255.1
CRT -.9783 CRS -.9052 CST .9727
LSA 1704.3 MSA 217.8 SSA 13.6
EL1 1172.0 EL2 58.4 ALF 165.91

LAUNCH DATE SEP 24 1965 FLIGHT TIME 134.00 ARRIVAL DATE FEB 5 1966

DISTANCE 338.344

HELIOCENTRIC CONIC

RL 150.07 LAL -.00 LOL .74 VL 26.634 GAL 5.92 AZL 85.12 HCA 140.78 SMA 125.27 ECC .22222 INC 4.8794 V1 29.692
RP 107.49 LAP 3.08 LOP 141.62 VP 37.550 GAP -9.95 AZP 93.78 TAL 158.27 TAP 299.05 RCA 97.43 APO 153.11 V2 35.255
RC 42.583 GL 26.02 GP -26.54 ZAL 50.97 ZAP 29.59 ETS 59.18 ZAE 142.51 ETE 280.34 ZAC 58.15 ETC 138.26 CLP -13.59

PLANETOCENTRIC CONIC

C3 26.380 VHL 5.136 DLA 8.67 RAL 310.19 RAD 6568.1 VEL 12.155 PTH 2.18 VHP 7.508 DPA -46.47 RAP 319.63 ECC 1.4341

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 45 36	2553.93	-26.10	64.16	179.12	101.40	7 28 10	1953.9	-24.26	55.97
90.00	20 54 47	4653.60	14.12	197.85	174.47	65.20	22 12 20	4053.6	10.66	190.89
100.00	8 11 9	2277.99	-27.33	43.57	178.83	102.61	8 49 7	1678.0	-25.32	35.34
100.00	22 11 55	4404.77	15.26	179.00	173.91	63.98	23 25 19	3804.8	11.64	172.08
110.00	9 29 0	2034.36	-30.63	24.11	177.87	105.98	10 2 54	1434.4	-28.13	15.80
110.00	23 10 33	4221.16	18.28	163.42	172.26	60.60	24 20 54	3621.2	14.22	156.65

DIFFERENTIAL CORRECTIONS

TOE -.8280 TRA-2.1831 TC3 .0215 BAU .1439
RDE .2587 RRA .7548 RC3 -.4074 FAU .02712
FDE 1.6653 FRA 2.6061 FC3 -.8899 BSP .9009
BDE .8675 BRA 2.3099 BC3 .4079 FSP -904

MID-COURSE EXECUTION ACCURACY

SGT 2631.1 SGR 991.9 SG3 310.7
RRT -.9097 RRF .9596 RTF -.9491
SGB 2811.9 R23 -.1851 R13 .9593
SG1 2784.8 SG2 389.2 THA 160.68

ORBIT DETERMINATION ACCURACY

ST 1183.0 SR 385.6 SS 1334.3
CRT -.9982 CRS -.9605 CST .9733
LSA 1811.6 MSA 215.4 SSA 12.4
EL1 1244.0 EL2 21.7 ALF 161.97

LAUNCH DATE SEP 24 1965 FLIGHT TIME 136.00 ARRIVAL DATE FEB 7 1966

DISTANCE 345.093

HELIOCENTRIC CONIC

RL 150.07 LAL -.00 LOL .74 VL 26.717 GAL 5.69 AZL 84.62 HCA 144.01 SMA 125.80 ECC .21597 INC 5.3803 V1 29.692
RP 107.50 LAP 3.16 LOP 144.87 VP 37.606 GAP -9.28 AZP 94.36 TAL 158.38 TAP 302.40 RCA 98.63 APO 152.97 V2 35.252
RC 43.538 GL 29.02 GP -29.70 ZAL 52.41 ZAP 33.13 ETS 58.55 ZAE 138.98 ETE 282.82 ZAC 61.15 ETC 137.99 CLP -15.38

PLANETOCENTRIC CONIC

C3 26.404 VHL 5.138 DLA 11.48 RAL 309.10 RAD 6568.1 VEL 12.156 PTH 2.18 VHP 7.311 DPA -49.05 RAP 322.95 ECC 1.4345

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 18 30	2646.34	-27.17	70.70	179.26	98.29	7 2 36	2046.3	-25.75	62.33
90.00	21 13 9	4561.65	11.43	192.44	173.28	63.92	22 29 11	3961.6	7.84	185.61
100.00	7 45 38	2365.30	-28.47	49.80	179.04	99.52	8 25 3	1765.3	-26.86	41.37
100.00	22 28 42	4317.92	12.61	173.92	172.68	62.67	23 40 40	3717.9	8.85	167.15
110.00	9 7 0	2110.69	-31.92	29.68	178.24	102.93	9 42 11	1510.7	-29.82	21.10
110.00	23 23 50	4145.29	15.68	159.06	170.92	59.23	24 32 55	3545.3	11.49	152.47

DIFFERENTIAL CORRECTIONS

TOE -.8784 TRA-2.1828 TC3 .0466 BAU .1566
RDE .3757 RRA .8425 RC3 -.4413 FAU .02724
FDE 1.8313 FRA 2.6904 FC3 -.8932 BSP .9325
BDE .9554 BRA 2.3397 BC3 .4437 FSP -961

MID-COURSE EXECUTION ACCURACY

SGT 2670.1 SGR 1140.2 SG3 327.7
RRT -.9239 RRF .9727 RTF -.9526
SGB 2903.4 R23 -.1874 R13 .9648
SG1 2875.0 SG2 405.2 THA 158.01

ORBIT DETERMINATION ACCURACY

ST 1230.7 SR 508.3 SS 1414.4
CRT -.9985 CRS -.9839 CST .9741
LSA 1930.6 MSA 214.8 SSA 11.2
EL1 1331.3 EL2 25.8 ALF 157.58

LAUNCH DATE SEP 24 1965 FLIGHT TIME 138.00 ARRIVAL DATE FEB 9 1966

DISTANCE 351.824

HELIOCENTRIC CONIC

RL 150.07 LAL -.00 LOL .74 VL 26.794 GAL 5.47 AZL 84.03 HCA 147.24 SMA 126.29 ECC .21021 INC 5.9657 V1 29.692
RP 107.51 LAP 3.22 LOP 148.12 VP 37.657 GAP -8.64 AZP 95.02 TAL 158.51 TAP 305.75 RCA 99.75 APO 152.84 V2 35.249
RC 44.633 GL 32.29 GP -33.36 ZAL 54.12 ZAP 37.07 ETS 58.20 ZAE 135.04 ETE 284.64 ZAC 64.43 ETC 137.68 CLP -17.19

PLANETOCENTRIC CONIC

C3 26.922 VHL 5.189 DLA 14.53 RAL 307.85 RAD 6568.1 VEL 12.178 PTH 2.19 VHP 7.177 DPA -52.04 RAP 326.79 ECC 1.4431

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 47 8	2755.78	-28.00	78.60	179.76	94.41	6 33 4	2155.8	-27.09	70.05
90.00	21 34 31	4461.85	8.39	186.69	172.47	62.85	22 48 53	3861.8	4.68	179.97
100.00	7 16 16	2468.35	-29.40	57.32	179.62	95.67	7 57 24	1868.3	-28.30	48.69
100.00	22 48 4	4224.51	9.63	168.58	171.81	61.56	23 58 29	3624.5	5.76	161.94
110.00	8 41 55	2200.34	-33.09	36.41	179.06	99.10	9 18 36	1600.3	-31.48	27.55
110.00	23 38 54	4065.29	12.85	154.60	169.90	58.05	24 46 40	3465.3	8.53	148.16

DIFFERENTIAL CORRECTIONS

TOE -.9426 TRA-2.1847 TC3 .0668 BAU .1706
RDE .5216 RRA .9478 RC3 -.4691 FAU .02681
FDE 2.0069 FRA 2.7461 FC3 -.8623 BSP .9688
BDE 1.0773 BRA 2.3814 BC3 .4739 FSP -1008

MID-COURSE EXECUTION ACCURACY

SGT 2701.6 SGR 1318.3 SG3 340.4
RRT -.9344 RRF .9817 RTF -.9559
SGB 3006.1 R23 -.1840 R13 .9704
SG1 2975.7 SG2 426.4 THA 154.94

ORBIT DETERMINATION ACCURACY

ST 1281.6 SR 661.2 SS 1492.7
CRT -.9937 CRS -.9937 CST .9755
LSA 2064.3 MSA 215.7 SSA 9.8
EL1 1440.6 EL2 65.7 ALF 152.79

LAUNCH DATE SEP 24 1965 FLIGHT TIME 140.00 ARRIVAL DATE FEB 11 1966

DISTANCE 358.534

HELIOCENTRIC CONIC

RL 150.07 LAL -.00 LOL .74 VL 26.864 GAL 5.27 AZL 83.34 HCA 150.47 SMA 126.75 ECC .20493 INC 6.6633 V1 29.692
RP 107.52 LAP 3.28 LOP 151.37 VP 37.703 GAP -8.01 AZP 95.80 TAL 158.65 TAP 309.12 RCA 100.77 APO 152.72 V2 35.244
RC 45.858 GL 35.85 GP -37.58 ZAL 56.12 ZAP 41.46 ETS 58.08 ZAE 130.64 ETE 285.94 ZAC 68.04 ETC 137.38 CLP -18.99

PLANETOCENTRIC CONIC

C3 28.088 VHL 5.300 DLA 17.83 RAL 306.41 RAD 6568.1 VEL 12.225 PTH 2.20 VHP 7.124 DPA -55.44 RAP 331.45 ECC 1.4623

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 9 54	2887.73	-28.31	88.24	180.61	89.60	5 58 2	2287.7	-28.07	79.58
90.00	22 0 15	4351.00	4.89	180.42	172.19	62.07	23 12 46	3751.0	1.12	173.77
100.00	6 41 44	2591.63	-29.88	66.45	180.61	90.89	7 24 55	1991.6	-29.44	57.67
100.00	23 11 7	4122.33	6.27	162.86	171.44	60.71	24 19 49	3522.3	2.32	156.30
110.00	8 12 55	2306.30	-33.94	44.56	180.39	94.35	8 51 22	1706.3	-32.96	35.46
110.00	0 0 21	3980.42	9.75	149.98	169.32	57.07	1 6 41	3380.4	5.34	143.66

DIFFERENTIAL CORRECTIONS

TOE-1.0272 TRA-2.1927 TC3 .0785 BAU .1847
RDE .7077 RRA 1.0729 RC3 -.4855 FAU .02559
FDE 2.1847 FRA 2.7596 FC3 -.7886 BSP .10089
BDE 1.2473 BRA 2.4411 BC3 .4918 FSP -1038

MID-COURSE EXECUTION ACCURACY

SGT 2727.7 SGR 1528.0 SG3 346.7
RRT -.9420 RRF .9877 RTF -.9590
SGB 3126.5 R23 -.1747 R13 .9759
SG1 3093.6 SG2 452.0 THA 151.51

ORBIT DETERMINATION ACCURACY

ST 1338.3 SR 848.1 SS 1564.8
CRT -.9892 CRS -.9977 CST .9773
LSA 2216.2 MSA 217.5 SSA 8.4
EL1 1580.9 EL2 105.4 ALF 147.76

LAUNCH DATE SEP 24 1965 FLIGHT TIME 142.00 ARRIVAL DATE FEB 13 1966

HELIOCENTRIC CONIC DISTANCE 365.219

RL 150.07 LAL -.00 LOL .74 VL 26.928 GAL 5.08 AZL 82.49 HCA 153.69 SMA 127.16 ECC .20010 INC 7.5146 V1 29.692
RP 107.54 LAP 3.32 LOP 154.62 VP 37.744 GAP -7.41 AZP 96.74 TAL 158.80 TAP 312.48 RCA 101.72 APO 152.61 V2 35.239
RC 47.202 GL 39.70 GP -42.40 ZAL 58.44 ZAP 46.31 ETS 58.14 ZAE 125.74 ETE 286.88 ZAC 72.05 ETC 137.20 CLP -20.71

PLANETOCENTRIC CONIC

C3 30.157 VHL 5.492 DLA 21.37 RAL 304.74 RAD 6568.2 VEL 12.310 PTH 2.22 VHP 7.182 DPA -59.22 RAP 337.42 ECC 1.4963

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 23 40	3052.32	-27.65	100.22	181.69	83.63	5 14 32	2452.3	-28.24	91.61
90.00	22 33 11	4221.96	.75	173.21	172.69	61.69	23 43 33	3622.0	-3.04	166.58
100.00	5 59 39	2742.83	-29.51	77.66	181.90	85.01	6 45 22	2142.8	-29.89	68.88
100.00	23 39 53	4006.69	2.38	156.48	171.78	60.19	24 46 40	3406.7	-1.60	149.35
110.00	7 38 41	2433.01	-34.15	54.44	182.21	88.51	8 19 14	1833.0	-33.98	45.20
110.00	0 21 17	3889.28	6.34	145.12	169.33	56.34	1 26 6	3289.3	1.87	138.88

DIFFERENTIAL CORRECTIONS
TDE-1.1266 TRA-2.1959 TC3 .0982 BAU .2010
RDE .9446 RRA 1.2138 RC3 -.4889 FAU .02381
FDE 2.3396 FRA 2.7011 FC3 -.6835 BSP 10905
BDE 1.4702 BRA 2.5091 BC3 .4986 FSP -1064

MID-COURSE EXECUTION ACCURACY
SGT 2728.8 SGR 1763.2 SG3 342.1
RRT -.9482 RRF .9917 RTF -.9621
SGB 3248.9 R23 -.1595 R13 .9812
SG1 3213.9 SG2 475.7 THA 147.71

ORBIT DETERMINATION ACCURACY
ST 1388.0 SR 1066.8 SS 1616.2
CRT -.9858 CRS -.9993 CST .9791
LSA 2372.3 MSA 220.4 SSA 7.0
EL1 1744.8 EL2 142.4 ALF 142.56

LAUNCH DATE SEP 24 1965 FLIGHT TIME 144.00 ARRIVAL DATE FEB 15 1966

HELIOCENTRIC CONIC DISTANCE 371.889

RL 150.07 LAL -.00 LOL .74 VL 26.985 GAL 4.92 AZL 81.42 HCA 156.90 SMA 127.54 ECC .19574 INC 8.5840 V1 29.692
RP 107.55 LAP 3.36 LOP 157.87 VP 37.780 GAP -6.82 AZP 97.90 TAL 158.93 TAP 315.83 RCA 102.58 APO 152.51 V2 35.234
RC 48.656 GL 43.82 GP -47.86 ZAL 61.08 ZAP 51.60 ETS 58.42 ZAE 120.32 ETE 287.70 ZAC 76.50 ETC 137.32 CLP -22.21

PLANETOCENTRIC CONIC

C3 33.591 VHL 5.796 DLA 25.13 RAL 302.80 RAD 6568.3 VEL 12.448 PTH 2.25 VHP 7.396 DPA -63.22 RAP 345.57 ECC 1.5528

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	3 20 14	3275.74	-24.96	116.00	182.51	76.18	4 14 50	2675.7	-26.62	107.73
90.00	23 21 10	4052.81	-4.70	163.75	174.56	62.04	24 28 43	3452.8	-8.40	157.03
100.00	5 4 52	2938.42	-27.51	91.84	183.16	77.82	5 53 51	2338.4	-28.91	83.32
100.00	0 23 10	3865.37	-2.41	148.72	173.30	60.20	1 27 35	3265.4	-6.36	142.16
110.00	6 57 1	2587.55	-33.23	66.40	184.37	81.50	7 40 8	1987.6	-34.05	57.26
110.00	0 47 30	3789.00	2.53	139.86	170.22	55.90	1 50 39	3189.0	-1.96	133.65

DIFFERENTIAL CORRECTIONS
TDE-1.3822 TRA-2.3285 TC3 -.0316 BAU .1891
RDE 1.2981 RRA 1.4154 RC3 -.4198 FAU .01668
FDE 2.5534 FRA 2.6598 FC3 -.4300 BSP 9021
BDE 1.8961 BRA 2.7250 BC3 .4210 FSP -869

MID-COURSE EXECUTION ACCURACY
SGT 2886.7 SGR 2066.9 SG3 335.2
RRT -.9495 RRF .9938 RTF -.9656
SGB 3550.4 R23 -.1414 R13 .9862
SG1 3510.1 SG2 533.4 THA 144.86

ORBIT DETERMINATION ACCURACY
ST 1564.9 SR 1364.5 SS 1706.4
CRT -.9868 CRS -.9999 CST .9844
LSA 2678.6 MSA 218.2 SSA 6.2
EL1 2069.5 EL2 167.3 ALF 138.96

LAUNCH DATE SEP 24 1965 FLIGHT TIME 146.00 ARRIVAL DATE FEB 17 1966

HELIOCENTRIC CONIC DISTANCE 378.514

RL 150.07 LAL -.00 LOL .74 VL 27.037 GAL 4.77 AZL 80.02 HCA 160.10 SMA 127.89 ECC .19178 INC 9.9762 V1 29.692
RP 107.57 LAP 3.38 LOP 161.12 VP 37.811 GAP -6.25 AZP 99.39 TAL 159.07 TAP 319.17 RCA 103.36 APO 152.42 V2 35.227
RC 50.208 GL 48.20 GP -53.96 ZAL 64.08 ZAP 57.28 ETS 59.01 ZAE 114.32 ETE 288.71 ZAC 81.44 ETC 138.04 CLP -23.28

PLANETOCENTRIC CONIC

C3 39.211 VHL 6.262 DLA 29.07 RAL 300.49 RAD 6568.5 VEL 12.672 PTH 2.30 VHP 7.834 DPA -67.09 RAP 357.29 ECC 1.6453

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
83.13	0 16 39	3887.06	-15.66	157.19	180.23	65.19	1 21 26	3287.1	-18.88	149.94
96.87	2 10 16	3519.65	-15.65	130.24	180.23	65.18	3 8 55	2919.6	-18.86	122.99
100.00	3 33 34	3252.32	-21.22	112.99	182.74	68.44	4 27 47	2652.3	-23.96	105.27
100.00	1 36 2	3629.62	-10.23	135.60	177.45	61.76	2 36 31	3029.6	-13.93	128.76
110.00	6 2 54	2784.70	-30.29	81.00	186.23	73.34	6 49 18	2184.7	-32.27	72.34
110.00	1 23 12	3670.00	-2.02	133.65	172.46	55.87	2 24 22	3070.0	-6.48	127.41

DIFFERENTIAL CORRECTIONS
TDE-1.5587 TRA-2.3395 TC3 .0206 BAU .2009
RDE 1.7008 RRA 1.5705 RC3 -.3827 FAU .01402
FDE 2.5870 FRA 2.4061 FC3 -.3095 BSP 11051
BDE 2.3070 BRA 2.8177 BC3 .3833 FSP -890

MID-COURSE EXECUTION ACCURACY
SGT 2834.3 SGR 2314.0 SG3 300.5
RRT -.9543 RRF .9953 RTF -.9692
SGB 3659.0 R23 -.1172 R13 .9905
SG1 3618.6 SG2 541.9 THA 141.04

ORBIT DETERMINATION ACCURACY
ST 1604.3 SR 1632.6 SS 1682.0
CRT -.9858 CRS-1.0000 CST .9861
LSA 2831.8 MSA 221.9 SSA 4.7
EL1 2280.8 EL2 193.2 ALF 134.49

LAUNCH DATE SEP 24 1965 FLIGHT TIME 148.00 ARRIVAL DATE FEB 19 1966

HELIOCENTRIC CONIC DISTANCE 385.106

RL 150.07 LAL -.00 LOL .74 VL 27.084 GAL 4.64 AZL 78.12 HCA 163.29 SMA 128.20 ECC .18824 INC11.8755 V1 29.692
RP 107.60 LAP 3.39 LOP 164.37 VP 37.838 GAP -5.70 AZP 101.39 TAL 159.19 TAP 322.48 RCA 104.07 APO 152.34 V2 35.220
RC 51.850 GL 52.73 GP -60.60 ZAL 67.43 ZAP 63.20 ETS 60.42 ZAE 107.75 ETE 290.60 ZAC 86.89 ETC 140.02 CLP -23.31

PLANETOCENTRIC CONIC

C3 48.735 VHL 6.981 DLA 33.07 RAL 297.72 RAD 6568.8 VEL 13.042 PTH 2.38 VHP 8.621 DPA -70.02 RAP 14.36 ECC 1.8021

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
72.15	22 42 14	4193.09	-15.84	180.27	181.90	60.58	23 52 7	3593.1	-19.64	173.29
107.85	3 18 38	3323.02	-15.83	115.60	181.89	60.58	4 14 1	2723.0	-19.63	108.62
72.15	22 42 14	4193.09	-15.84	180.27	181.90	60.58	23 52 7	3593.1	-19.64	173.29
107.85	3 18 38	3323.02	-15.83	115.60	181.89	60.58	4 14 1	2723.0	-19.63	108.62
110.00	4 37 47	3079.86	-22.87	100.69	185.82	63.87	5 29 7	2479.9	-26.19	93.11
110.00	2 26 11	3484.25	-9.04	123.85	177.68	56.89	3 24 15	2884.3	-13.34	117.39

DIFFERENTIAL CORRECTIONS
TDE-1.9330 TRA-2.4688 TC3 .0015 BAU .1890
RDE 2.2600 RRA 1.7319 RC3 -.2901 FAU .00841
FDE 2.5881 FRA 2.1183 FC3 -.1494 BSP 11944
BDE 2.9739 BRA 3.0157 BC3 .2901 FSP -788

MID-COURSE EXECUTION ACCURACY
SGT 2892.0 SGR 2546.0 SG3 257.2
RRT -.9569 RRF .9955 RTF -.9743
SGB 3853.0 R23 -.0911 R13 .9941
SG1 3811.9 SG2 561.3 THA 138.80

ORBIT DETERMINATION ACCURACY
ST 1744.5 SR 1923.5 SS 1648.7
CRT -.9870 CRS -.9998 CST .9897
LSA 3067.9 MSA 221.8 SSA 3.7
EL1 2588.3 EL2 208.1 ALF 132.17

LAUNCH DATE SEP 24 1965 FLIGHT TIME 150.00 ARRIVAL DATE FEB 21 1966

HELIOCENTRIC CONIC DISTANCE 391.649

RL	150.07	LAL	-.00	LOL	.74	VL	27.127	GAL	4.53	AZL	75.37	HCA	166.45	SMA	128.49	ECC	.18513	INC	14.6337
RP	107.62	LAP	3.39	LOP	167.61	VP	37.861	GAP	-5.17	AZP	104.24	TAL	159.27	TAP	325.72	RCA	104.70	APO	152.27
RC	53.572	GL	57.23	GP	-67.63	ZAL	71.11	ZAP	69.16	ETS	64.23	ZAE	100.61	ETE	295.10	ZAC	92.92	ETC	145.02

V1	29.692																		
V2	35.212																		
CLP	-20.78																		

PLANETOCENTRIC CONIC

C3	66.010	VHL	8.125	DLA	36.91	RAL	294.33	RAD	6569.3	VEL	13.688	PTH	2.50	VHP	9.982	DPA	-70.75	RAP	36.61

ECC	2.0864																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
65.26	21 48 48	4388.02	-14.68	194.88	183.94	55.74	23 1 56	3788.0	-19.07	188.31
114.74	3 44 59	3276.90	-14.66	111.21	183.93	55.74	4 39 36	2676.9	-19.05	104.64
65.26	21 48 48	4388.02	-14.68	194.88	183.94	55.74	23 1 56	3788.0	-19.07	188.31
114.74	3 44 59	3276.90	-14.66	111.21	183.93	55.74	4 39 36	2676.9	-19.05	104.64
65.26	21 48 48	4388.02	-14.68	194.88	183.94	55.74	23 1 56	3788.0	-19.07	188.31
114.74	3 44 59	3276.90	-14.66	111.21	183.93	55.74	4 39 36	2676.9	-19.05	104.64

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-2.6807	TRA	-2.7760	TC3	-.0385	BAU	.1494	SGT	3094.0	SGR	2637.4	SG3	206.0	ST	2028.1	SR	2140.0	SS	1589.5
RDE	2.9581	RRA	1.8042	RC3	-.1649	FAU	.00159	RRT	-.9587	RRF	.9933	RTF	-.9822	CRT	-.9894	CRS	-.9993	CST	.9940
FDE	2.5250	FRA	1.7970	FC3	-.0208	BSP	12570	SGB	4065.5	R23	-.0622	R13	.9969	LSA	3342.4	MSA	219.2	SSA	2.8
BDE	3.9921	BRA	3.3108	BC3	.1693	FSP	-641	SG1	4024.4	SG2	576.6	THA	139.75	EL1	2940.6	EL2	214.3	ALF	133.45

LAUNCH DATE SEP 24 1965 FLIGHT TIME 152.00 ARRIVAL DATE FEB 23 1966

HELIOCEN TIC CONIC DISTANCE 398.114

RL	150.07	LAL	-.00	LOL	.74	VL	27.164	GAL	4.45	AZL	70.99	HCA	169.56	SMA	128.74	ECC	.18244	INC	19.0110
RP	107.64	LAP	3.38	LOP	170.86	VP	37.880	GAP	-4.66	AZP	108.72	TAL	159.30	TAP	328.86	RCA	105.25	APO	152.23
RC	55.368	GL	61.26	GP	-74.61	ZAL	75.06	ZAP	74.88	ETS	77.17	ZAE	92.75	ETE	308.96	ZAC	99.75	ETC	159.86

V1	29.692																		
V2	35.204																		
CLP	-10.68																		

PLANETOCENTRIC CONIC

C3	101.227	VHL	10.061	DLA	40.12	RAL	290.11	RAD	6570.0	VEL	14.919	PTH	2.69	VHP	12.395	DPA	-68.09	RAP	58.73

ECC	2.6659																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
60.31	21 7 45	4555.04	-11.70	206.44	185.90	51.35	22 23 40	3955.0	-16.61	200.35
119.69	3 52 26	3304.05	-11.68	111.20	185.89	51.34	4 47 30	2704.0	-16.60	105.10
60.31	21 7 45	4555.04	-11.70	206.44	185.90	51.35	22 23 40	3955.0	-16.61	200.35
119.69	3 52 26	3304.05	-11.68	111.20	185.89	51.34	4 47 30	2704.0	-16.60	105.10
60.31	21 7 45	4555.04	-11.70	206.44	185.90	51.35	22 23 40	3955.0	-16.61	200.35
119.69	3 52 26	3304.05	-11.68	111.20	185.89	51.34	4 47 30	2704.0	-16.60	105.10

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-4.6210	TRA	-3.5274	TC3	-.0951	BAU	.1436	SGT	3723.1	SGR	2063.2	SG3	153.5	ST	2747.0	SR	1841.9	SS	1523.8
RDE	3.1938	RRA	1.3018	RC3	-.0471	FAU	-.00584	RRT	-.9522	RRF	.9775	RTF	-.9941	CRT	-.9912	CRS	-.9970	CST	.9985
FDE	2.4292	FRA	1.4901	FC3	.0500	BSP	13227	SGB	4256.6	R23	-.0302	R13	.9988	LSA	3635.9	MSA	203.3	SSA	2.2
BDE	5.6173	BRA	3.7600	BC3	.1061	FSP	-488	SG1	4220.1	SG2	555.9	THA	151.64	EL1	3301.2	EL2	202.4	ALF	146.25

LAUNCH DATE SEP 24 1965 FLIGHT TIME 154.00 ARRIVAL DATE FEB 25 1966

HELIOCENTRIC CONIC DISTANCE 404.431

RL	150.07	LAL	-.00	LOL	.74	VL	27.197	GAL	4.40	AZL	63.05	HCA	172.56	SMA	128.96	ECC	.18026	INC	26.9462
RP	107.67	LAP	3.36	LOP	174.10	VP	37.896	GAP	-4.21	AZP	116.75	TAL	159.22	TAP	331.78	RCA	105.72	APO	152.21
RC	57.230	GL	63.65	GP	-79.11	ZAL	79.18	ZAP	80.06	ETS	127.04	ZAE	83.62	ETE	359.81	ZAC	108.18	ETC	212.39

V1	29.692																		
V2	35.195																		
CLP	24.04																		

PLANETOCENTRIC CONIC

C3	188.041	VHL	13.713	DLA	41.54	RAL	284.93	RAD	6571.0	VEL	17.589	PTH	2.97	VHP	17.050	DPA	-61.55	RAP	75.07

ECC	4.0947																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
58.24	20 37 56	4696.47	-6.91	214.51	187.09	48.94	21 56 12	4096.5	-12.11	208.77
121.76	3 40 53	3394.56	-6.89	114.90	187.07	48.94	4 37 28	2794.6	-12.10	109.15
58.24	20 37 56	4696.47	-6.91	214.51	187.09	48.94	21 56 12	4096.5	-12.11	208.77
121.76	3 40 53	3394.56	-6.89	114.90	187.07	48.94	4 37 28	2794.6	-12.10	109.15
58.24	20 37 56	4696.47	-6.91	214.51	187.09	48.94	21 56 12	4096.5	-12.11	208.77
121.76	3 40 53	3394.56	-6.89	114.90	187.07	48.94	4 37 28	2794.6	-12.10	109.15

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-7.6370	TRA	-3.7454	TC3	-.1717	BAU	.5040	SGT	3843.8	SGR	2137.1	SG3	108.8	ST	3252.0	SR	1583.6	SS	1526.5
RDE	-3.6391	RRA	-2.6420	RC3	-.1034	FAU	-.01548	RRT	.9822	RRF	-.9886	RTF	-.9987	CRT	.9960	CRS	.9974	CST	.9999
FDE	2.4253	FRA	1.2937	FC3	.0713	BSP	13567	SGB	4398.0	R23	.0034	R13	-.9995	LSA	3924.0	MSA	126.7	SSA	1.6
BDE	8.4597	BRA	4.5835	BC3	.2005	FSP	-349	SG1	4383.9	SG2	351.7	THA	28.84	EL1	3614.9	EL2	126.7	ALF	25.91

LAUNCH DATE SEP 24 1965 FLIGHT TIME 156.00 ARRIVAL DATE FEB 27 1966

HELIOCENTRIC CONIC DISTANCE 410.354

RL	150.07	LAL	-.00	LOL	.74	VL	27.226	GAL	4.43	AZL	45.51	HCA	175.24	SMA	129.16	ECC	.17889	INC	44.4892
RP	107.70	LAP	3.33	LOP	177.34	VP	37.908	GAP	-3.85	AZP	134.39	TAL	158.84	TAP	334.09	RCA	106.06	APO	152.27
RC	59.152	GL	60.77	GP	-72.35	ZAL	83.17	ZAP	84.31	ETS	173.01	ZAE	71.08	ETE	45.74	ZAC	120.99	ETC	261.77

V1	29.692																		
V2	35.186																		
CLP	70.92																		

PLANETOCENTRIC CONIC

C3	475.146	VHL	21.798	DLA	37.80	RAL	279.10	RAD	6572.3	VEL	24.422	PTH	3.32	VHP	27.444	DPA	-49.27	RAP	84.95

ECC	8.8197																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
63.85	20 40 47	4734.40	-1.73	213.44	186.89	52.24	21 59 42	4134.4	-6.61	207.50
116.15	2 51 32	3580.64	-1.71	126.29	186.87	52.24	3 51 12	2980.6	-6.59	120.35
63.85	20 40 47	4734.40	-1.73	213.44	186.89	52.24	21 59 42	4134.4	-6.61	207.50
116.15	2 51 32	3580.64	-1.71	126.29	186.87	52.24	3 51 12	2980.6	-6.59	120.35
63.85	20 40 47	4734.40	-1.73	213.44	186.89	52.24	21 59 42	4134.4	-6.61	207.50
116.15	2 51 32	3580.64	-1.71	126.29	186.87	52.24	3 51 12	2980.6	-6.59	120.35

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-5.6378	TRA	-.9597	TC3	-.1192	BAU	1.8622	SGT	1602.5	SGR	4064.0	SG3	79.4	ST	1485.1	SR	3324.4	SS	1779.5
RDE	-12.4126	RRA	-6.3827	RC3	-.2678	FAU	-.03668	RRT	.9397	RRF	-.9994	RTF	-.9452	CRT	.9918	CRS	1.0000	CST	.9925
FDE	2.8051	FRA	1.3997	FC3	.0668	BSP	13312	SGB	4368.5	R23	-.0266	R13	-.9992	LSA	4048.8	MSA	175.4	SSA	1.8
BDE	13.6329	BRA	6.4545	BC3	.2932	FSP	-253	SG1	4338.2	SG2	513.6	THA	69.37	EL1	3636.9	EL2	173.6	ALF	66.05

LAUNCH DATE SEP 24 1965 FLIGHT TIME 158.00 ARRIVAL DATE MAR 1 1966

HELIOCENTRIC CONIC DISTANCE 414.829

RL 150.07 LAL -.00 LOL .74 VL 27.251 GAL 4.73 AZL 2.76 HCA 176.71 SMA 129.34 ECC .17978 INC87.2315 V1 29.692
RP 107.73 LAP 3.29 LOP 180.58 VP 37.917 GAP -3.86 AZP 177.23 TAL 157.41 TAP 334.12 RCA 106.09 APO 152.59 V2 35.176
RC 61.127 GL 43.58 GP -48.92 ZAL 86.01 ZAP 86.87 ETS 181.43 ZAE 50.35 ETE 47.00 ZAC 145.30 ETC 275.70 CLP 85.23

PLANETOCENTRIC CONIC

C3 1548.579 VHL 39.352 DLA 20.24 RAL 274.82 RAD 6573.2 VEL 40.864 PTH 3.57 VHP 50.086 DPA -24.81 RAP 89.68 ECC 26.4857

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	2 37 50	3587.19	-18.37	136.42	193.60	68.07	3 37 37	2987.2	-21.19	128.88
90.00	20 20 20	4855.55	19.49	210.24	179.07	69.05	21 41 16	4255.6	16.47	202.87
100.00	4 12 16	3282.67	-20.45	114.91	194.49	67.71	5 6 58	2682.7	-23.29	107.27
100.00	21 28 35	4635.30	21.59	193.19	178.21	68.80	22 45 50	4035.3	18.51	185.74
110.00	5 48 30	2981.60	-25.68	94.44	196.88	66.62	6 38 11	2381.6	-28.61	86.49
110.00	22 8 50	4509.14	26.86	181.34	175.92	68.02	23 24 0	3909.1	23.64	173.66

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE-6.9764 TRA .1198 TC3 -.1137 BAU 5.8683 SGT 1353.9 SGR 3384.8 SG3 68.1 ST 1016.1 SR 2232.3 SS 2270.1
RD-15.4346 RRA-9.6256 RC3 -.2596 FAU-.10989 RRT .8911 RRF -.9999 RTF -.8889 CRT .9796 CRS 1.0000 CST .9786
FDE 3.5284 FRA 2.2584 FC3 .0614 BSP 10814 SGB 3645.6 R23 -.0634 R13 -.9979 LSA 3376.6 MSA 197.6 SSA 1.5
BDE16.9380 BRA 9.6263 BC3 .2835 FSP -211 SG1 3599.5 SG2 577.8 THA 69.84 EL1 2500.4 EL2 187.1 ALF 66.39

LAUNCH DATE SEP 24 1965 FLIGHT TIME 160.00 ARRIVAL DATE MAR 3 1966

HELIOCENTRIC CONIC DISTANCE 426.642

RL 150.07 LAL -.00 LOL .74 VL 27.273 GAL 3.73 AZL 136.51 HCA 184.47 SMA 129.49 ECC .17144 INC46.5054 V1 29.692
RP 107.76 LAP 3.24 LOP 183.82 VP 37.923 GAP -2.05 AZP 43.58 TAL 161.42 TAP 345.88 RCA 107.29 APO 151.68 V2 35.166
RC 63.151 GL -60.46 GP 70.92 ZAL 84.28 ZAP 87.00 ETS 199.16 ZAE 82.78 ETE 317.89 ZAC 94.85 ETC 101.24 CLP 80.78

PLANETOCENTRIC CONIC

C3 514.953 VHL 22.693 DLA -81.80 RAL 317.94 RAD 6572.4 VEL 25.224 PTH 3.35 VHP 29.535 DPA 82.87 RAP 313.51 ECC 9.4748

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
9.33	8 39 48	2421.54	2.33	84.55	227.59	171.79	9 20 10	1821.5	10.25	83.81
170.67	20 2 24	618.75	2.34	280.99	227.62	171.79	20 12 43	18.7	10.25	280.25
9.33	8 39 48	2421.54	2.33	84.55	227.59	171.79	9 20 10	1821.5	10.25	83.81
170.67	20 2 24	618.75	2.34	280.99	227.62	171.79	20 12 43	18.7	10.25	280.25
9.33	8 39 48	2421.54	2.33	84.55	227.59	171.79	9 20 10	1821.5	10.25	83.81
170.67	20 2 24	618.75	2.34	280.99	227.62	171.79	20 12 43	18.7	10.25	280.25

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE 5.1603 TRA-1.2152 TC3 -.1803 BAU 2.1677 SGT 2643.8 SGR 3701.0 SG3 82.0 ST 1454.0 SR 1278.9 SS 974.3
RDE-3.0083 RRA 1.9374 RC3 .2581 FAU-.03733 RRT -.9522 RRF .9956 RTF -.9762 CRT -.8893 CRS -.9818 CST .9600
FDE-1.1130 FRA .4867 FC3 .0628 BSP 13896 SGB 4548.4 R23 -.0109 R13 .9998 LSA 2119.1 MSA 456.6 SSA 1.3
BDE 5.9732 BRA 2.2870 BC3 .3149 FSP -255 SG1 4499.6 SG2 664.0 THA 125.10 EL1 1883.0 EL2 451.6 ALF 139.12

LAUNCH DATE SEP 24 1965 FLIGHT TIME 162.00 ARRIVAL DATE MAR 5 1966

HELIOCENTRIC CONIC DISTANCE 432.409

RL 150.07 LAL -.00 LOL .74 VL 27.291 GAL 3.82 AZL 116.78 HCA 187.06 SMA 129.61 ECC .17100 INC26.7815 V1 29.692
RP 107.80 LAP 3.18 LOP 187.05 VP 37.926 GAP -1.75 AZP 63.39 TAL 160.87 TAP 347.93 RCA 107.45 APO 151.78 V2 35.155
RC 65.219 GL -64.50 GP 83.18 ZAL 80.22 ZAP 85.63 ETS 241.77 ZAE 94.93 ETE 357.44 ZAC 81.80 ETC 139.71 CLP 50.07

PLANETOCENTRIC CONIC

C3 184.807 VHL 13.594 DLA -79.93 RAL 359.39 RAD 6571.0 VEL 17.497 PTH 2.97 VHP 17.808 DPA 70.29 RAP 291.14 ECC 4.0415

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
11.46	11 29 18	2297.68	10.46	82.49	267.50	169.75	12 7 36	1697.7	18.33	81.41
168.54	22 43 36	5787.77	10.46	258.89	267.53	169.75	24 20 4	5187.8	18.33	257.81
11.46	11 29 18	2297.68	10.46	82.49	267.50	169.75	12 7 36	1697.7	18.33	81.41
168.54	22 43 36	5787.77	10.46	258.89	267.53	169.75	24 20 4	5187.8	18.33	257.81
11.46	11 29 18	2297.68	10.46	82.49	267.50	169.75	12 7 36	1697.7	18.33	81.41
168.54	22 43 36	5787.77	10.46	258.89	267.53	169.75	24 20 4	5187.8	18.33	257.81

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE-3.7136 TRA-1.8021 TC3 -.2031 BAU .5425 SGT 4648.9 SGR 1386.5 SG3 113.5 ST 2036.5 SR 1044.7 SS 958.6
RDE 2.3896 RRA .3841 RC3 .0834 FAU-.01019 RRT -.8875 RRF .9089 RTF -.9984 CRT -.9110 CRS -.9394 CST .9972
FDE 1.2039 FRA .4999 FC3 .0477 BSP 15111 SGB 4851.3 R23 -.0150 R13 .9995 LSA 2450.7 MSA 389.1 SSA 1.5
BDE 4.4160 BRA 1.8426 BC3 .2196 FSP -360 SG1 4811.8 SG2 617.2 THA 164.92 EL1 2255.5 EL2 389.1 ALF 154.12

LAUNCH DATE SEP 24 1965 FLIGHT TIME 164.00 ARRIVAL DATE MAR 7 1966

HELIOCENTRIC CONIC DISTANCE 438.587

RL 150.07 LAL -.00 LOL .74 VL 27.307 GAL 3.85 AZL 108.11 HCA 190.03 SMA 129.72 ECC .17032 INC18.1089 V1 29.692
RP 107.83 LAP 3.10 LOP 190.28 VP 37.926 GAP -1.36 AZP 72.15 TAL 160.62 TAP 350.65 RCA 107.62 APO 151.81 V2 35.143
RC 67.327 GL -62.29 GP 84.13 ZAL 75.95 ZAP 84.96 ETS 298.42 ZAE 102.29 ETE 51.79 ZAC 74.23 ETC 191.92 CLP -30.86

PLANETOCENTRIC CONIC

C3 91.494 VHL 9.565 DLA -75.64 RAL 358.00 RAD 6569.8 VEL 14.589 PTH 2.64 VHP 12.550 DPA 62.34 RAP 289.22 ECC 2.5058

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
16.37	11 33 29	2155.03	19.17	77.41	262.89	164.77	12 9 25	1555.0	26.88	75.48
163.63	22 28 19	5660.29	19.18	258.63	262.90	164.77	24 2 39	5060.3	26.88	256.70
16.37	11 33 29	2155.03	19.17	77.41	262.89	164.77	12 9 25	1555.0	26.88	75.48
163.63	22 28 19	5660.29	19.18	258.63	262.90	164.77	24 2 39	5060.3	26.88	256.70
16.37	11 33 29	2155.03	19.17	77.41	262.89	164.77	12 9 25	1555.0	26.88	75.48
163.63	22 28 19	5660.29	19.18	258.63	262.90	164.77	24 2 39	5060.3	26.88	256.70

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE-2.7482 TRA-1.3267 TC3 -.0781 BAU .1086 SGT 3604.6 SGR 3414.3 SG3 163.4 ST 1906.2 SR 1329.9 SS 966.0
RDE-1.4850 RRA-1.3648 RC3 .0422 FAU .00236 RRT .9757 RRF -.9920 RTF -.9944 CRT .9524 CRS .9784 CST .9949
FDE 1.2020 FRA .7243 FC3 -.0223 BSP 15392 SGB 4964.9 R23 .0051 R13 -.9993 LSA 2494.5 MSA 336.0 SSA 2.2
BDE 3.1238 BRA 1.9034 BC3 .0888 FSP -517 SG1 4934.8 SG2 546.3 THA 43.41 EL1 2299.8 EL2 336.0 ALF 34.44

LAUNCH DATE SEP 24 1965 FLIGHT TIME 166.00 ARRIVAL DATE MAR 9 1966

HELIOCENTRIC CONIC DISTANCE 444.883

RL 150.07 LAL -.00 LOL .74 VL 27.319 GAL 3.87 AZL 103.43 HCA 193.12 SMA 129.80 ECC .16974 INC13.4267 V1 29.692
RP 107.87 LAP 3.02 LOP 193.51 VP 37.924 GAP -.93 AZP 76.91 TAL 160.45 TAP 353.56 RCA 107.77 APO 151.84 V2 35.132
RC 69.470 GL -58.10 GP 79.57 ZAL 71.78 ZAP 85.13 ETS 323.97 ZAE 107.65 ETE 75.46 ZAC 68.69 ETC 213.04 CLP -62.02

PLANETOCENTRIC CONIC

C3 55.583 VHL 7.455 DLA -71.22 RAL 351.17 RAD 6569.0 VEL 13.302 PTH 2.43 VHP 9.742 DPA 56.43 RAP 288.58 ECC 1.9148

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
21.46	11 16 43	2027.05	26.18	70.80	251.53	158.97	11 50 30	1427.1	33.61	67.78
158.54	21 50 35	5554.32	26.19	257.18	251.55	158.97	23 23 10	4954.3	33.62	254.16
21.46	11 16 43	2027.05	26.18	70.80	251.53	158.97	11 50 30	1427.1	33.61	67.78
158.54	21 50 35	5554.32	26.19	257.18	251.55	158.97	23 23 10	4954.3	33.62	254.16
21.46	11 16 43	2027.05	26.18	70.80	251.53	158.97	11 50 30	1427.1	33.61	67.78
158.54	21 50 35	5554.32	26.19	257.18	251.55	158.97	23 23 10	4954.3	33.62	254.16

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE-1.2711 TRA -.6540 TC3 -.0493 BAU .2027 SGT 1842.7 SGR 4647.0 SG3 227.8 ST 1083.3 SR 1724.7 SS 911.5
RDE-1.3947 RRA-1.8871 RC3 .2683 FAU .01230 RRT .9398 RRF -.9974 RTF -.9564 CRT .8990 CRS .9910 CST .9495
FDE 1.0154 FRA 1.0485 FC3 -.1916 BSP 15631 SGB 4999.0 R23 .0109 R13 -.9989 LSA 2193.3 MSA 410.2 SSA 3.0
BDE 1.8870 BRA 1.9972 BC3 .2728 FSP -728 SG1 4964.1 SG2 589.7 THA 69.26 EL1 1995.0 EL2 410.1 ALF 59.10

LAUNCH DATE SEP 24 1965 FLIGHT TIME 168.00 ARRIVAL DATE MAR 11 1966

HELIOCENTRIC CONIC DISTANCE 451.217

RL 150.07 LAL -.00 LOL .74 VL 27.328 GAL 3.89 AZL 100.52 HCA 196.26 SMA 129.87 ECC .16934 INC10.5178 V1 29.692
RP 107.90 LAP 2.93 LOP 196.74 VP 37.920 GAP -.50 AZP 79.89 TAL 160.28 TAP 356.54 RCA 107.88 APO 151.86 V2 35.120
RC 71.643 GL -53.28 GP 75.08 ZAL 67.85 ZAP 86.09 ETS 337.23 ZAE 111.90 ETE 87.32 ZAC 64.05 ETC 222.03 CLP -74.65

PLANETOCENTRIC CONIC

C3 38.551 VHL 6.209 DLA -66.64 RAL 345.05 RAD 6568.5 VEL 12.646 PTH 2.30 VHP 8.039 DPA 51.52 RAP 287.96 ECC 1.6345

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
26.77	11 3 51	1920.14	30.90	63.00	240.06	152.48	11 35 51	1320.1	37.92	58.74
153.23	21 14 38	5477.98	30.91	255.04	240.08	152.48	22 45 56	4878.0	37.92	250.78
26.77	11 3 51	1920.14	30.90	63.00	240.06	152.48	11 35 51	1320.1	37.92	58.74
153.23	21 14 38	5477.98	30.91	255.04	240.08	152.48	22 45 56	4878.0	37.92	250.78
26.77	11 3 51	1920.14	30.90	63.00	240.06	152.48	11 35 51	1320.1	37.92	58.74
153.23	21 14 38	5477.98	30.91	255.04	240.08	152.48	22 45 56	4878.0	37.92	250.78

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.7133 TRA -.2377 TC3 -.1265 BAU .2954 SGT 874.1 SGR 4928.2 SG3 303.4 ST 678.8 SR 1679.5 SS 894.0
RDE -.9354 RRA-2.0631 RC3 .5590 FAU .02179 RRT .7233 RRF -.9980 RTF -.7466 CRT .7079 CRS .9917 CST .7929
FDE .8649 FRA 1.4460 FC3 -.4894 BSP 15746 SGB 5005.1 R23 .0202 R13 -.9984 LSA 1966.8 MSA 461.1 SSA 3.8
BDE 1.1763 BRA 2.0767 BC3 .5731 FSP -979 SG1 4969.2 SG2 598.6 THA 82.58 EL1 1752.3 EL2 459.6 ALF 72.81

LAUNCH DATE SEP 24 1965 FLIGHT TIME 170.00 ARRIVAL DATE MAR 13 1966

HELIOCENTRIC CONIC DISTANCE 457.560

RL 150.07 LAL -.00 LOL .74 VL 27.335 GAL 3.92 AZL 98.53 HCA 199.42 SMA 129.92 ECC .16914 INC 8.5339 V1 29.692
RP 107.94 LAP 2.83 LOP 199.96 VP 37.914 GAP -.07 AZP 81.95 TAL 160.10 TAP 359.52 RCA 107.94 APO 151.89 V2 35.108
RC 73.845 GL -48.37 GP 70.98 ZAL 64.22 ZAP 87.79 ETS 346.45 ZAE 115.42 ETE 95.69 ZAC 59.85 ETC 227.24 CLP -83.20

PLANETOCENTRIC CONIC

C3 29.314 VHL 5.414 DLA -62.04 RAL 340.29 RAD 6568.2 VEL 12.275 PTH 2.21 VHP 6.917 DPA 47.16 RAP 287.16 ECC 1.4824

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
32.18	10 57 28	1830.99	33.54	54.59	229.68	145.77	11 27 59	1231.0	40.01	49.14
147.82	20 43 1	5429.09	33.54	252.79	229.70	145.77	22 13 30	4829.1	40.02	247.34
32.18	10 57 28	1830.99	33.54	54.59	229.68	145.77	11 27 59	1231.0	40.01	49.14
147.82	20 43 1	5429.09	33.54	252.79	229.70	145.77	22 13 30	4829.1	40.02	247.34
32.18	10 57 28	1830.99	33.54	54.59	229.68	145.77	11 27 59	1231.0	40.01	49.14
147.82	20 43 1	5429.09	33.54	252.79	229.70	145.77	22 13 30	4829.1	40.02	247.34

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.4629 TRA .0905 TC3 -.2856 BAU .3503 SGT 614.3 SGR 4964.9 SG3 386.8 ST 493.8 SR 1601.2 SS 914.5
RDE -.6421 RRA-2.1407 RC3 .8471 FAU .03104 RRT -.3076 RRF -.9980 RTF .2823 CRT .3083 CRS .9909 CST .4332
FDE .7840 FRA 1.8985 FC3 -.9168 BSP 15712 SGB 5002.7 R23 .0305 R13 -.9979 LSA 1849.0 MSA 474.5 SSA 4.6
BDE .7916 BRA 2.1426 BC3 .8939 FSP -1251 SG1 4968.5 SG2 584.0 THA 92.21 EL1 1609.0 EL2 467.4 ALF 84.07

LAUNCH DATE SEP 24 1965 FLIGHT TIME 172.00 ARRIVAL DATE MAR 15 1966

HELIOCENTRIC CONIC DISTANCE 463.896

RL 150.07 LAL -.00 LOL .74 VL 27.340 GAL 3.95 AZL 97.09 HCA 202.60 SMA 129.95 ECC .16915 INC 7.0896 V1 29.692
RP 107.98 LAP 2.72 LOP 203.18 VP 37.905 GAP .36 AZP 83.45 TAL 159.90 TAP 2.49 RCA 107.97 APO 151.93 V2 35.095
RC 76.070 GL -43.59 GP 67.13 ZAL 60.92 ZAP 90.12 ETS 353.82 ZAE 118.36 ETE 102.80 ZAC 55.89 ETC 230.90 CLP -90.31

PLANETOCENTRIC CONIC

C3 23.839 VHL 4.883 DLA -57.53 RAL 336.67 RAD 6568.0 VEL 12.051 PTH 2.15 VHP 6.139 DPA 43.14 RAP 286.19 ECC 1.3923

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
37.58	10 56 43	1754.40	34.52	46.12	220.70	139.34	11 25 58	1154.4	40.41	39.70
142.42	20 14 54	5403.24	34.53	250.97	220.72	139.33	21 44 57	4803.2	40.42	244.54
37.58	10 56 43	1754.40	34.52	46.12	220.70	139.34	11 25 58	1154.4	40.41	39.70
142.42	20 14 54	5403.24	34.53	250.97	220.72	139.33	21 44 57	4803.2	40.42	244.54
37.58	10 56 43	1754.40	34.52	46.12	220.70	139.34	11 25 58	1154.4	40.41	39.70
142.42	20 14 54	5403.24	34.53	250.97	220.72	139.33	21 44 57	4803.2	40.42	244.54

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.3216 TRA .3880 TC3 -.5113 BAU .3872 SGT 1054.1 SGR 4877.5 SG3 472.6 ST 455.4 SR 1525.3 SS 956.7
RDE -.4798 RRA-2.1611 RC3 1.1020 FAU .04004 RRT -.8425 RRF -.9979 RTF .8296 CRT -.2140 CRS .9894 CST -.0700
FDE .7687 FRA 2.3808 FC3-1.4542 BSP 15678 SGB 4990.1 R23 .0414 R13 -.9972 LSA 1798.5 MSA 463.3 SSA 5.4
BDE .5776 BRA 2.1956 BC3 1.2148 FSP -1538 SG1 4958.8 SG2 558.6 THA 100.45 EL1 1528.6 EL2 443.9 ALF 93.99

LAUNCH DATE SEP 24 1965 FLIGHT TIME 174.00 ARRIVAL DATE MAR 17 1966

HELIOCENTRIC CONIC DISTANCE 470.221

RL 150.07 LAL -.00 LOL .74 VL 27.342 GAL 4.00 AZL 95.99 HCA 205.78 SMA 129.96 ECC .16937 INC 5.9865 V1 29.692
RP 108.02 LAP 2.60 LOP 206.40 VP 37.895 GAP .79 AZP 84.61 TAL 159.66 TAP 5.44 RCA 107.95 APO 151.97 V2 35.082
RC 78.316 GL -39.04 GP 63.45 ZAL 57.95 ZAP 92.99 ETS .05 ZAE 120.80 ETE 109.39 ZAC 52.06 ETC 233.72 CLP -96.69

PLANETOCENTRIC CONIC

C3 20.401 VHL 4.517 DLA -53.20 RAL 333.91 RAD 6567.8 VEL 11.907 PTH 2.12 VHP 5.585 DPA 39.31 RAP 285.09 ECC 1.3357

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
42.88	11 0 33	1685.63	34.32	37.93	213.18	133.50	11 28 39	1085.6	39.61	30.81
137.12	19 49 2	5396.63	34.34	249.95	213.19	133.49	21 18 59	4796.6	39.62	242.84
42.88	11 0 33	1685.63	34.32	37.93	213.18	133.50	11 28 39	1085.6	39.61	30.81
137.12	19 49 2	5396.63	34.34	249.95	213.19	133.49	21 18 59	4796.6	39.62	242.84
42.88	11 0 33	1685.63	34.32	37.93	213.18	133.50	11 28 39	1085.6	39.61	30.81
137.12	19 49 2	5396.63	34.34	249.95	213.19	133.49	21 18 59	4796.6	39.62	242.84

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.2213 TRA .6705 TC3 -.7890 BAU .4146 SGT 1613.2 SGR 4711.8 SG3 556.5 ST 510.6 SR 1450.9 SS 1011.1
RDE -.3961 RRA-2.1418 RC3 1.2993 FAU .04845 RRT -.9386 RRF -.9976 RTF .9304 CRT -.5929 CRS .9872 CST -.4571
FDE .8117 FRA 2.8715 FC3-2.0559 BSP 15628 SGB 4980.3 R23 .0521 R13 -.9964 LSA 1787.1 MSA 441.1 SSA 6.2
BDE .4537 BRA 2.2443 BC3 1.5201 FSP -1820 SG1 4952.1 SG2 529.4 THA 108.03 EL1 1484.7 EL2 401.8 ALF 102.73

LAUNCH DATE SEP 24 1965 FLIGHT TIME 176.00 ARRIVAL DATE MAR 19 1966

HELIOCENTRIC CONIC DISTANCE 476.529

RL 150.07 LAL -.00 LOL .74 VL 27.342 GAL 4.07 AZL 95.11 HCA 208.97 SMA 129.96 ECC .16981 INC 5.1120 V1 29.692
RP 108.06 LAP 2.47 LOP 209.62 VP 37.883 GAP 1.21 AZP 85.52 TAL 159.38 TAP 8.36 RCA 107.89 APO 152.03 V2 35.069
RC 80.581 GL -34.76 GP 59.87 ZAL 55.29 ZAP 96.28 ETS 5.41 ZAE 122.77 ETE 115.69 ZAC 48.32 ETC 235.97 CLP-102.59

PLANETOCENTRIC CONIC

C3 18.163 VHL 4.262 DLA -49.09 RAL 331.79 RAD 6567.7 VEL 11.813 PTH 2.09 VHP 5.185 DPA 35.62 RAP 283.94 ECC 1.2989

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
48.06	11 8 17	1620.73	33.33	30.12	207.04	128.40	11 35 18	1020.7	38.05	22.58
131.94	19 24 22	5406.63	33.34	249.95	207.05	128.39	20 54 29	4806.6	38.06	242.41
48.06	11 8 17	1620.73	33.33	30.12	207.04	128.40	11 35 18	1020.7	38.05	22.58
131.94	19 24 22	5406.63	33.34	249.95	207.05	128.39	20 54 29	4806.6	38.06	242.41
48.06	11 8 17	1620.73	33.33	30.12	207.04	128.40	11 35 18	1020.7	38.05	22.58
131.94	19 24 22	5406.63	33.34	249.95	207.05	128.39	20 54 29	4806.6	38.06	242.41

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.1338 TRA .9428 TC3-1.0978 BAU .4366 SGT 2157.4 SGR 4490.9 SG3 634.2 ST 608.5 SR 1375.6 SS 1072.4
RDE -.3559 RRA-2.0932 RC3 1.4238 FAU .05578 RRT -.9668 RRF -.9973 RTF .9605 CRT -.7927 CRS .9845 CST -.6737
FDE .9023 FRA 3.3492 FC3-2.6586 BSP 15548 SGB 4982.2 R23 .0618 R13 -.9955 LSA 1799.9 MSA 415.7 SSA 7.0
BDE .3802 BRA 2.2957 BC3 1.7578 FSP -2078 SG1 4957.1 SG2 499.3 THA 115.19 EL1 1463.2 EL2 348.8 ALF 110.54

LAUNCH DATE SEP 24 1965 FLIGHT TIME 178.00 ARRIVAL DATE MAR 21 1966

HELIOCENTRIC CONIC DISTANCE 482.819

RL 150.07 LAL -.00 LOL .74 VL 27.340 GAL 4.14 AZL 94.40 HCA 212.16 SMA 129.95 ECC .17045 INC 4.3980 V1 29.692
RP 108.10 LAP 2.34 LOP 212.83 VP 37.870 GAP 1.63 AZP 86.27 TAL 159.07 TAP 11.23 RCA 107.80 APO 152.10 V2 35.056
RC 82.862 GL -30.79 GP 56.37 ZAL 52.92 ZAP 99.90 ETS 10.04 ZAE 124.31 ETE 121.75 ZAC 44.66 ETC 237.71 CLP-108.08

PLANETOCENTRIC CONIC

C3 16.686 VHL 4.085 DLA -45.23 RAL 330.14 RAD 6567.7 VEL 11.750 PTH 2.07 VHP 4.898 DPA 32.04 RAP 282.81 ECC 1.2746

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
53.12	11 19 33	1556.43	31.83	22.65	202.13	124.02	11 45 30	956.4	36.04	14.87
126.88	18 59 59	5431.65	31.84	251.05	202.14	124.01	20 30 31	4831.6	36.05	243.26
53.12	11 19 33	1556.43	31.83	22.65	202.13	124.02	11 45 30	956.4	36.04	14.87
126.88	18 59 59	5431.65	31.84	251.05	202.14	124.01	20 30 31	4831.6	36.05	243.26
53.12	11 19 33	1556.43	31.83	22.65	202.13	124.02	11 45 30	956.4	36.04	14.87
126.88	18 59 59	5431.65	31.84	251.05	202.14	124.01	20 30 31	4831.6	36.05	243.26

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.0484 TRA 1.2044 TC3-1.4175 BAU .4579 SGT 2664.6 SGR 4223.9 SG3 700.6 ST 723.7 SR 1293.6 SS 1132.5
RDE -.3332 RRA-2.0178 RC3 1.4844 FAU .06207 RRT -.9785 RRF -.9969 RTF .9731 CRT -.8943 CRS .9812 CST -.7914
FDE 1.0195 FRA 3.7833 FC3-3.2204 BSP 15579 SGB 4994.1 R23 .0698 R13 -.9945 LSA 1824.1 MSA 390.0 SSA 7.8
BDE .3367 BRA 2.3499 BC3 2.0525 FSP -2314 SG1 4972.3 SG2 466.4 THA 122.00 EL1 1454.0 EL2 288.1 ALF 117.76

LAUNCH DATE SEP 24 1965 FLIGHT TIME 180.00 ARRIVAL DATE MAR 23 1966

HELIOCENTRIC CONIC DISTANCE 489.088

RL 150.07 LAL -.00 LOL .74 VL 27.336 GAL 4.23 AZL 93.80 HCA 215.36 SMA 129.92 ECC .17131 INC 3.8007 V1 29.692
RP 108.14 LAP 2.20 LOP 216.04 VP 37.855 GAP 2.05 AZP 86.90 TAL 158.72 TAP 14.08 RCA 107.67 APO 152.18 V2 35.043
RC 85.157 GL -27.11 GP 52.94 ZAL 50.82 ZAP 103.73 ETS 14.01 ZAE 125.42 ETE 127.54 ZAC 41.10 ETC 238.97 CLP-113.19

PLANETOCENTRIC CONIC

C3 15.722 VHL 3.965 DLA -41.63 RAL 328.87 RAD 6567.6 VEL 11.709 PTH 2.06 VHP 4.698 DPA 28.56 RAP 281.75 ECC 1.2587

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
58.11	11 34 28	1489.35	30.04	15.34	198.27	120.30	11 59 18	889.3	33.81	7.44
121.89	18 34 54	5471.59	30.05	253.31	198.28	120.29	20 6 6	4871.6	33.82	245.41
58.11	11 34 28	1489.35	30.04	15.34	198.27	120.30	11 59 18	889.3	33.81	7.44
121.89	18 34 54	5471.59	30.05	253.31	198.28	120.29	20 6 6	4871.6	33.82	245.41
58.11	11 34 28	1489.35	30.04	15.34	198.27	120.30	11 59 18	889.3	33.81	7.44
121.89	18 34 54	5471.59	30.05	253.31	198.28	120.29	20 6 6	4871.6	33.82	245.41

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE .0402 TRA 1.4555 TC3-1.7293 BAU .4788 SGT 3131.0 SGR 3931.6 SG3 753.2 ST 847.2 SR 1209.2 SS 1191.5
RDE -.3195 RRA-1.9258 RC3 1.4825 FAU .06691 RRT -.9843 RRF -.9963 RTF .9795 CRT -.9481 CRS .9774 CST -.8595
FDE 1.1553 FRA 4.1597 FC3-3.6845 BSP 15663 SGB 5026.0 R23 .0750 R13 -.9935 LSA 1861.5 MSA 366.3 SSA 8.7
BDE .3221 BRA 2.4140 BC3 2.2778 FSP -2508 SG1 5007.2 SG2 434.0 THA 128.43 EL1 1459.5 EL2 223.2 ALF 124.52

LAUNCH DATE SEP 24 1965 FLIGHT TIME 182.00 ARRIVAL DATE MAR 25 1966

HELIOCENTRIC CONIC DISTANCE 495.335

RL 150.07 LAL -.00 LOL .74 VL 27.331 GAL 4.33 AZL 93.29 HCA 218.55 SMA 129.89 ECC .17237 INC 3.2910 V1 29.692
RP 108.18 LAP 2.05 LOP 219.24 VP 37.839 GAP 2.46 AZP 87.43 TAL 158.33 TAP 16.88 RCA 107.50 APO 152.27 V2 35.030
RC 87.465 GL -23.73 GP 49.61 ZAL 48.95 ZAP 107.67 ETS 17.38 ZAE 126.13 ETE 132.99 ZAC 37.69 ETC 239.71 CLP-117.94

PLANETOCENTRIC CONIC

C3 15.120 VHL 3.888 DLA -38.28 RAL 327.89 RAD 6567.6 VEL 11.684 PTH 2.05 VHP 4.567 DPA 25.20 RAP 280.82 ECC 1.2488

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
63.09	11 53 27	1415.90	28.10	7.91	195.30	117.14	12 17 3	815.9	31.49	359.98
116.91	18 8 5	5527.46	28.11	256.82	195.30	117.13	19 40 13	4927.5	31.51	248.89
63.09	11 53 27	1415.90	28.10	7.91	195.30	117.14	12 17 3	815.9	31.49	359.98
116.91	18 8 5	5527.46	28.11	256.82	195.30	117.13	19 40 13	4927.5	31.51	248.89
63.09	11 53 27	1415.90	28.10	7.91	195.30	117.14	12 17 3	815.9	31.49	359.98
116.91	18 8 5	5527.46	28.11	256.82	195.30	117.13	19 40 13	4927.5	31.51	248.89

DIFFERENTIAL CORRECTIONS
TDE .1332 TRA 1.6960 TC3-2.0174 BAU .4999
RDE -.3071 RRA-1.8232 RC3 1.4301 FAU .07017
FDE 1.2352 FRA 4.4647 FC3-4.0176 BSP 15833
BDE .3347 BRA 2.4901 BC3 2.4729 FSP -2657

MID-COURSE EXECUTION ACCURACY
SGT 3554.5 SGR 3626.9 SG3 790.2
RRT -.9874 RRF -.9955 RTF .9830
SGB 5078.3 R23 .0768 R13 -.9925
SG1 5062.2 SG2 403.8 THA 134.42

ORBIT DETERMINATION ACCURACY
ST 976.1 SR 1122.5 SS 1246.2
CRT -.9774 CRS .9727 CST -.9019
LSA 1909.6 MSA 345.3 SSA 9.5
EL1 1479.3 EL2 156.7 ALF 130.92

LAUNCH DATE SEP 24 1965 FLIGHT TIME 184.00 ARRIVAL DATE MAR 27 1966

HELIOCENTRIC CONIC DISTANCE 501.560

RL 150.07 LAL -.00 LOL .74 VL 27.324 GAL 4.45 AZL 92.85 HCA 221.74 SMA 129.84 ECC .17364 INC 2.8482 V1 29.692
RP 108.22 LAP 1.90 LOP 222.45 VP 37.821 GAP 2.87 AZP 87.87 TAL 157.90 TAP 19.64 RCA 107.29 APO 152.38 V2 35.016
RC 89.783 GL -20.61 GP 46.40 ZAL 47.28 ZAP 111.64 ETS 20.24 ZAE 126.50 ETE 138.04 ZAC 34.45 ETC 239.89 CLP-122.34

PLANETOCENTRIC CONIC

C3 14.790 VHL 3.846 DLA -35.17 RAL 327.14 RAD 6567.6 VEL 11.669 PTH 2.05 VHP 4.493 DPA 21.97 RAP 280.04 ECC 1.2434

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
68.21	12 17 39	1330.63	26.11	359.95	193.05	114.45	12 39 50	730.6	29.18	352.02
111.79	17 37 54	5602.87	26.12	261.83	193.05	114.43	19 11 17	5002.9	29.19	253.90
68.21	12 17 39	1330.63	26.11	359.95	193.05	114.45	12 39 50	730.6	29.18	352.02
111.79	17 37 54	5602.87	26.12	261.83	193.05	114.43	19 11 17	5002.9	29.19	253.90
68.21	12 17 39	1330.63	26.11	359.95	193.05	114.45	12 39 50	730.6	29.18	352.02
111.79	17 37 54	5602.87	26.12	261.83	193.05	114.43	19 11 17	5002.9	29.19	253.90

DIFFERENTIAL CORRECTIONS
TDE .2311 TRA 1.9268 TC3-2.2705 BAU .5214
RDE -.2933 RRA-1.7162 RC3 1.3406 FAU .07181
FDE 1.4299 FRA 4.6935 FC3-4.2035 BSP 16065
BDE .3734 BRA 2.5803 BC3 2.6768 FSP -2753

MID-COURSE EXECUTION ACCURACY
SGT 3937.1 SGR 3322.2 SG3 811.3
RRT -.9889 RRF -.9944 RTF .9852
SGB 5151.5 R23 .0746 R13 -.9917
SG1 5137.6 SG2 377.8 THA 139.89

ORBIT DETERMINATION ACCURACY
ST 1109.6 SR 1035.6 SS 1295.3
CRT -.9927 CRS .9672 CST -.9297
LSA 1968.3 MSA 327.3 SSA 10.4
EL1 1515.0 EL2 91.6 ALF 136.99

LAUNCH DATE SEP 24 1965 FLIGHT TIME 186.00 ARRIVAL DATE MAR 29 1966

HELIOCENTRIC CONIC DISTANCE 507.762

RL 150.07 LAL -.00 LOL .74 VL 27.315 GAL 4.58 AZL 92.46 HCA 224.93 SMA 129.78 ECC .17512 INC 2.4578 V1 29.692
RP 108.26 LAP 1.74 LOP 225.65 VP 37.803 GAP 3.28 AZP 88.26 TAL 157.43 TAP 22.36 RCA 107.05 APO 152.51 V2 35.003
RC 92.112 GL -17.75 GP 43.34 ZAL 45.79 ZAP 115.57 ETS 22.63 ZAE 126.55 ETE 142.65 ZAC 31.43 ETC 239.47 CLP-126.40

PLANETOCENTRIC CONIC

C3 14.673 VHL 3.831 DLA -32.29 RAL 326.58 RAD 6567.6 VEL 11.664 PTH 2.05 VHP 4.465 DPA 18.90 RAP 279.45 ECC 1.2415

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
73.80	12 49 52	1223.28	24.13	350.68	191.41	112.13	13 10 16	623.3	26.92	342.78
106.20	17 1 13	5706.68	24.14	268.94	191.41	112.12	18 36 20	5106.7	26.93	261.04
73.80	12 49 52	1223.28	24.13	350.68	191.41	112.13	13 10 16	623.3	26.92	342.78
106.20	17 1 13	5706.68	24.14	268.94	191.41	112.12	18 36 20	5106.7	26.93	261.04
110.00	15 59 21	610.17	17.27	302.16	187.82	119.97	16 9 31	10.2	21.13	295.15
110.00	18 50 56	5367.79	31.40	245.55	194.10	104.27	20 20 24	4767.8	33.04	236.71

DIFFERENTIAL CORRECTIONS
TDE .3361 TRA 2.1515 TC3-2.4767 BAU .5418
RDE -.2792 RRA-1.6114 RC3 1.2221 FAU .07165
FDE 1.5596 FRA 4.8541 FC3-4.2276 BSP 16292
BDE .4370 BRA 2.6880 BC3 2.7618 FSP -2784

MID-COURSE EXECUTION ACCURACY
SGT 4283.0 SGR 3029.8 SG3 818.3
RRT -.9895 RRF -.9930 RTF .9864
SGB 5246.3 R23 .0694 R13 -.9909
SG1 5234.0 SG2 359.2 THA 144.82

ORBIT DETERMINATION ACCURACY
ST 1249.1 SR 952.3 SS 1341.5
CRT -.9991 CRS .9607 CST -.9488
LSA 2041.7 MSA 312.9 SSA 11.1
EL1 1570.3 EL2 32.3 ALF 142.69

LAUNCH DATE SEP 24 1965 FLIGHT TIME 188.00 ARRIVAL DATE MAR 31 1966

HELIOCENTRIC CONIC DISTANCE 513.939

RL 150.07 LAL -.00 LOL .74 VL 27.306 GAL 4.73 AZL 92.11 HCA 228.12 SMA 129.71 ECC .17681 INC 2.1090 V1 29.692
RP 108.31 LAP 1.57 LOP 228.84 VP 37.783 GAP 3.69 AZP 88.59 TAL 156.93 TAP 25.05 RCA 106.78 APO 152.64 V2 34.990
RC 94.449 GL -15.13 GP 40.44 ZAL 44.45 ZAP 119.39 ETS 24.65 ZAE 126.36 ETE 146.79 ZAC 28.66 ETC 238.37 CLP-130.16

PLANETOCENTRIC CONIC

C3 14.731 VHL 3.838 DLA -29.62 RAL 326.18 RAD 6567.6 VEL 11.667 PTH 2.05 VHP 4.477 DPA 16.00 RAP 279.05 ECC 1.2424

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
80.93	13 39 42	1061.58	22.21	337.73	190.27	110.12	13 57 23	461.6	24.75	329.87
99.07	16 8 13	5870.13	22.22	280.41	190.27	110.11	17 46 3	5270.1	24.75	272.55
100.00	15 41 21	668.02	19.68	307.80	189.20	112.97	15 52 29	68.0	22.62	300.24
100.00	16 49 15	5738.92	24.79	271.62	191.22	107.26	18 24 54	5138.9	26.92	263.46
110.00	15 11 14	762.97	11.88	310.72	184.96	122.29	15 23 57	163.0	16.06	304.11
110.00	19 35 51	5216.74	33.38	234.22	193.41	97.84	21 2 48	4616.7	34.10	225.05

DIFFERENTIAL CORRECTIONS
TDE .4430 TRA 2.3669 TC3-2.6435 BAU .5638
RDE -.2594 RRA-1.5079 RC3 1.0995 FAU .07053
FDE 1.6633 FRA 4.9393 FC3-4.1453 BSP 16646
BDE .5134 BRA 2.8064 BC3 2.8630 FSP -2785

MID-COURSE EXECUTION ACCURACY
SGT 4590.7 SGR 2750.8 SG3 811.6
RRT -.9893 RRF -.9911 RTF .9873
SGB 5351.8 R23 .0607 R13 -.9903
SG1 5340.6 SG2 345.2 THA 149.20

ORBIT DETERMINATION ACCURACY
ST 1388.5 SR 868.4 SS 1375.7
CRT -.9993 CRS .9522 CST -.9620
LSA 2117.5 MSA 301.2 SSA 11.8
EL1 1637.4 EL2 27.5 ALF 147.98

LAUNCH DATE SEP 24 1965 FLIGHT TIME 190.00 ARRIVAL DATE APR 2 1966

HELIOCENTRIC CONIC DISTANCE 520,090

RL 150.07 LAL -.00 LOL .74 VL 27.294 GAL 4.89 AZL 91.79 HCA 231.31 SMA 129.63 ECC .17872 INC 1.7936 VI 29.692
RP 108.35 LAP 1.40 LOP 232.04 VP 37,763 GAP 4.10 AZP 88.88 TAL 156.38 TAP 27.69 RCA 106.46 APO 152.80 V2 34.977
RC 96.794 GL -12.72 GP 37.73 ZAL 43.23 ZAP 123.07 ETS 26.35 ZAE 125.97 ETE 150.45 ZAC 26.17 ETC 236.54 CLP-133.63

PLANETOCENTRIC CONIC

C3 14.939 VHL 3.865 DLA -27.15 RAL 325.91 RAD 6567.6 VEL 11.676 PTH 2.05 VHP 4.522 DPA 13.28 RAP 278.85 ECC 1.2459

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	13 41 34	1057.87	15.31	334.50	187.49	114.11	13 59 12	457.9	18.44	327.22
90.00	16 4 14	5880.10	25.58	282.22	191.12	102.58	17 42 14	5280.1	27.06	273.86
100.00	14 27 4	910.88	12.61	322.36	186.15	117.33	14 42 15	310.9	16.17	315.38
100.00	18 1 25	5502.32	28.53	255.06	191.76	99.33	19 33 7	4902.3	29.52	246.39
110.00	14 39 3	873.26	7.81	316.66	183.30	123.39	14 53 36	273.3	12.15	310.25
110.00	20 5 55	5112.71	34.06	226.18	192.47	93.13	21 31 8	4512.7	34.12	216.93

DIFFERENTIAL CORRECTIONS
TDE .5538 TRA 2.5773 TC3-2.7648 BAU .5854
RDE -.2373 RRA-1.4106 RC3 .9736 FAU .06828
FDE 1.7473 FRA 4.9660 FC3-3.9571 BSP 17044
BDE .6025 BRA 2.9381 BC3 2.9312 FSP -2749

MID-COURSE EXECUTION ACCURACY
SGT 4865.9 SGR 2492.5 SG3 794.3
RRT -.9884 RRF -.9887 RTF .9878
SGB 5467.1 R23 .0505 R13 -.9899
SG1 5456.7 SG2 338.0 THA 153.04

ORBIT DETERMINATION ACCURACY
ST 1528.8 SR 788.2 SS 1402.1
CRT -.9944 CRS .9415 CST -.9714
LSA 2199.7 MSA 292.2 SSA 12.3
EL1 1718.4 EL2 73.8 ALF 152.80

LAUNCH DATE SEP 24 1965 FLIGHT TIME 192.00 ARRIVAL DATE APR 4 1966

HELIOCENTRIC CONIC DISTANCE 526,216

RL 150.07 LAL -.00 LOL .74 VL 27.282 GAL 5.07 AZL 91.51 HCA 234.50 SMA 129.55 ECC .18085 INC 1.5054 VI 29.692
RP 108.39 LAP 1.23 LOP 235.23 VP 37.742 GAP 4.51 AZP 89.13 TAL 155.81 TAP 30.30 RCA 106.12 APO 152.98 V2 34.964
RC 99.145 GL -10.52 GP 35.22 ZAL 42.11 ZAP 126.58 ETS 27.80 ZAE 125.45 ETE 153.66 ZAC 24.01 ETC 233.93 CLP-136.84

PLANETOCENTRIC CONIC

C3 15.282 VHL 3.909 DLA -24.86 RAL 325.76 RAD 6567.6 VEL 11.690 PTH 2.06 VHP 4.597 DPA 10.77 RAP 278.86 ECC 1.2515

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 49 53	1235.22	10.13	344.94	185.72	116.59	13 10 28	635.2	13.62	338.00
90.00	16 54 42	5712.92	27.52	270.37	191.23	96.95	18 29 55	5112.9	28.20	261.77
100.00	13 48 54	1044.71	8.31	329.98	184.75	118.82	14 6 18	444.7	12.10	323.23
100.00	18 38 23	5378.66	29.56	246.01	191.47	94.68	20 8 1	4778.7	29.89	237.22
110.00	14 14 29	964.45	4.36	321.48	182.33	123.94	14 30 33	364.5	8.79	315.19
110.00	20 29 17	5031.68	34.18	219.85	191.66	89.39	21 53 9	4431.7	33.72	210.64

DIFFERENTIAL CORRECTIONS
TDE .6682 TRA 2.7841 TC3-2.8436 BAU .6065
RDE -.2133 RRA-1.3210 RC3 .8523 FAU .06522
FDE 1.8114 FRA 4.9452 FC3-3.6947 BSP 17460
BDE .7014 BRA 3.0816 BC3 2.9685 FSP -2679

MID-COURSE EXECUTION ACCURACY
SGT 5111.6 SGR 2257.2 SG3 768.9
RRT -.9867 RRF -.9857 RTF .9881
SGB 5587.8 R23 .0400 R13 -.9895
SG1 5577.7 SG2 336.4 THA 156.37

ORBIT DETERMINATION ACCURACY
ST 1668.5 SR 712.7 SS 1420.8
CRT -.9849 CRS .9279 CST -.9782
LSA 2286.7 MSA 285.5 SSA 12.7
EL1 1810.8 EL2 113.6 ALF 157.09

LAUNCH DATE SEP 24 1965 FLIGHT TIME 194.00 ARRIVAL DATE APR 6 1966

HELIOCENTRIC CONIC DISTANCE 532,315

RL 150.07 LAL -.00 LOL .74 VL 27.268 GAL 5.27 AZL 91.24 HCA 237.68 SMA 129.45 ECC .18321 INC 1.2333 VI 29.692
RP 108.43 LAP 1.05 LOP 238.42 VP 37.721 GAP 4.93 AZP 89.34 TAL 155.20 TAP 32.88 RCA 105.74 APO 153.17 V2 34.951
RC 101.502 GL -8.51 GP 32.90 ZAL 41.09 ZAP 129.90 ETS 29.05 ZAE 124.84 ETE 156.45 ZAC 22.19 ETC 230.50 CLP-139.81

PLANETOCENTRIC CONIC

C3 15.750 VHL 3.969 DLA -22.74 RAL 325.71 RAD 6567.6 VEL 11.710 PTH 2.06 VHP 4.696 DPA 8.45 RAP 279.07 ECC 1.2592

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 16 50	1356.93	6.34	351.88	184.88	117.65	12 39 27	756.9	10.00	345.11
90.00	17 27 19	5604.83	28.16	262.53	191.12	93.07	19 0 44	5004.8	28.29	253.87
100.00	13 21 12	1149.17	4.84	335.79	184.06	119.53	13 40 21	549.2	8.74	329.17
100.00	19 5 38	5287.83	29.87	239.28	191.19	91.15	20 33 46	4687.8	29.71	230.48
110.00	13 54 42	1044.14	1.32	325.64	181.87	124.16	14 12 6	444.1	5.80	319.41
110.00	20 48 38	4965.63	34.01	214.70	191.08	86.35	22 11 23	4365.6	33.13	205.57

DIFFERENTIAL CORRECTIONS
TDE .7853 TRA 2.9889 TC3-2.8837 BAU .6269
RDE -.1878 RRA-1.2394 RC3 .7400 FAU .06161
FDE 1.8553 FRA 4.8872 FC3-3.3865 BSP 17903
BDE .8074 BRA 3.2356 BC3 2.9771 FSP -2590

MID-COURSE EXECUTION ACCURACY
SGT 5330.7 SGR 2045.1 SG3 737.9
RRT -.9842 RRF -.9818 RTF .9882
SGB 5709.5 R23 .0302 R13 -.9891
SG1 5699.5 SG2 339.1 THA 159.24

ORBIT DETERMINATION ACCURACY
ST 1805.6 SR 642.3 SS 1431.5
CRT -.9705 CRS .9105 CST -.9832
LSA 2375.6 MSA 280.6 SSA 13.0
EL1 1910.9 EL2 146.4 ALF 160.84

LAUNCH DATE SEP 24 1965 FLIGHT TIME 196.00 ARRIVAL DATE APR 8 1966

HELIOCENTRIC CONIC DISTANCE 538,385

RL 150.07 LAL -.00 LOL .74 VL 27.254 GAL 5.48 AZL 90.99 HCA 240.86 SMA 129.35 ECC .18580 INC .9916 VI 29.692
RP 108.46 LAP .87 LOP 241.60 VP 37.699 GAP 5.34 AZP 89.52 TAL 154.55 TAP 35.42 RCA 105.32 APO 153.39 V2 34.939
RC 103.862 GL -6.67 GP 30.77 ZAL 40.13 ZAP 133.03 ETS 30.16 ZAE 124.17 ETE 158.85 ZAC 20.73 ETC 226.30 CLP-142.57

PLANETOCENTRIC CONIC

C3 16.340 VHL 4.042 DLA -20.78 RAL 325.74 RAD 6567.7 VEL 11.736 PTH 2.07 VHP 4.818 DPA 6.32 RAP 279.46 ECC 1.2689

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 51 49	1455.93	3.19	357.44	184.59	118.15	12 16 5	855.9	6.93	350.76
90.00	17 52 35	5522.56	28.32	256.52	191.09	90.06	19 24 37	4922.6	28.03	247.86
100.00	12 59 21	1237.98	1.85	340.68	183.85	119.84	13 19 59	638.0	5.80	334.13
100.00	19 27 44	5215.74	29.85	233.92	191.07	88.33	20 54 40	4615.7	29.30	225.16
110.00	13 38 18	1115.91	-1.42	329.39	181.81	124.16	13 56 54	515.9	3.07	323.18
110.00	21 5 16	4910.58	33.69	210.44	190.76	83.84	22 27 7	4310.6	32.47	201.41

DIFFERENTIAL CORRECTIONS
TDE .9085 TRA 3.1965 TC3-2.8825 BAU .6448
RDE -.1630 RRA-1.1674 RC3 .6348 FAU .05735
FDE 1.8885 FRA 4.8083 FC3-3.0386 BSP 18274
BDE .9230 BRA 3.4030 BC3 2.9516 FSP -2472

MID-COURSE EXECUTION ACCURACY
SGT 5529.4 SGR 1857.2 SG3 703.7
RRT -.9807 RRF -.9771 RTF .9881
SGB 5832.9 R23 .0225 R13 -.9887
SG1 5822.7 SG2 345.2 THA 161.70

ORBIT DETERMINATION ACCURACY
ST 1943.4 SR 579.2 SS 1439.2
CRT -.9510 CRS .8892 CST -.9870
LSA 2471.2 MSA 276.8 SSA 13.3
EL1 2020.5 EL2 172.3 ALF 164.06

LAUNCH DATE SEP 24 1965 FLIGHT TIME 198.00 ARRIVAL DATE APR 10 1966

HELIOCENTRIC CONIC DISTANCE 544.427

RL 150.07 LAL -.00 LOL .74 VL 27.239 GAL 5.71 AZL 90.76 HCA 244.05 SMA 129.25 ECC .18864 INC .7588 V1 29.692
RP 108.50 LAP .68 LOP 244.78 VP 37.676 GAP 5.76 AZP 89.67 TAL 153.88 TAP 37.92 RCA 104.87 APO 153.63 V2 34.926
RC 106.225 GL -4.99 GP 28.82 ZAL 39.24 ZAP 135.96 ETS 31.17 ZAE 123.48 ETE 160.92 ZAC 19.67 ETC 221.42 CLP-145.14

PLANETOCENTRIC CONIC

C3 17.051 VHL 4.129 DLA -18.97 RAL 325.84 RAD 6567.7 VEL 11,766 PTH 2.08 VHP 4.960 DPA 4.39 RAP 280.03 ECC 1.2806

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 31 41	1541.65	.42	2.23	184.69	118.31	11 57 23	941.6	4.21	355.59
90.00	18 13 31	5456.38	28.23	251.68	191.23	87.64	19 44 28	4856.4	27.60	243.07
100.00	12 41 24	1316.66	-.82	345.00	183.99	119.88	13 3 21	716.7	3.16	338.47
100.00	19 46 29	5156.59	29.65	229.54	191.14	86.03	21 12 26	4556.6	28.79	220.84
110.00	13 24 27	1181.79	-3.93	332.83	182.05	123.98	13 44 9	581.8	.55	326.62
110.00	21 19 56	4864.23	33.30	206.88	190.68	81.77	22 41 0	4264.2	31.80	197.97

DIFFERENTIAL CORRECTIONS
TDE 1.0318 TRA 3.4030 TC3-2.8562 BAU .6628
RDE -.1364 RRA-1.1023 RC3 .5448 FAU .05318
FDE 1.9007 FRA 4.7062 FC3-2.7000 BSP 18712
BDE 1.0407 BRA 3.5770 BC3 2.9077 FSP -2357

MID-COURSE EXECUTION ACCURACY
SGT 5704.6 SGR 1689.3 SG3 667.1
RRT -.9762 RRF -.9714 RTF .9879
SGB 5949.5 R23 .0154 R13 -.9883
SG1 5939.0 SG2 352.2 THA 163.82

ORBIT DETERMINATION ACCURACY
ST 2073.2 SR 521.0 SS 1437.4
CRT -.9247 CRS .8614 CST -.9898
LSA 2561.3 MSA 274.0 SSA 13.4
EL1 2128.9 EL2 193.2 ALF 166.81

LAUNCH DATE SEP 24 1965 FLIGHT TIME 200.00 ARRIVAL DATE APR 12 1966

HELIOCENTRIC CONIC DISTANCE 550.437

RL 150.07 LAL -.00 LOL .74 VL 27.222 GAL 5.96 AZL 90.54 HCA 247.23 SMA 129.14 ECC .19174 INC .5385 V1 29.692
RP 108.54 LAP .50 LOP 247.96 VP 37.653 GAP 6.19 AZP 89.79 TAL 153.17 TAP 40.40 RCA 104.38 APO 153.90 V2 34.914
RC 108.588 GL -3.45 GP 27.05 ZAL 38.40 ZAP 138.71 ETS 32.12 ZAE 122.78 ETE 162.69 ZAC 18.99 ETC 216.05 CLP-147.54

PLANETOCENTRIC CONIC

C3 17.885 VHL 4.229 DLA -17.28 RAL 326.01 RAD 6567.7 VEL 11.801 PTH 2.09 VHP 5.120 DPA 2.63 RAP 280.76 ECC 1.2943

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 14 58	1618.39	-2.05	6.51	185.09	118.25	11 41 56	1018.4	1.74	359.88
90.00	18 31 34	5401.76	28.01	247.70	191.54	85.66	20 1 36	4801.8	27.11	239.15
100.00	12 26 19	1388.12	-3.24	348.92	184.43	119.73	12 49 27	788.1	.74	342.40
100.00	20 2 54	5107.27	29.36	225.90	191.40	84.14	21 28 1	4507.3	28.24	217.27
110.00	13 12 37	1243.10	-6.26	336.05	182.57	123.67	13 33 20	643.1	-1.79	329.82
110.00	21 33 6	4825.05	32.87	203.90	190.84	80.06	22 53 31	4225.1	31.15	195.10

DIFFERENTIAL CORRECTIONS
TDE 1.1586 TRA 3.6124 TC3-2.8034 BAU .6795
RDE -.1102 RRA-1.0449 RC3 .4658 FAU .04892
FDE 1.9022 FRA 4.5936 FC3-2.3682 BSP 19127
BDE 1.1638 BRA 3.7605 BC3 2.8418 FSP -2236

MID-COURSE EXECUTION ACCURACY
SGT 5861.6 SGR 1541.3 SG3 629.8
RRT -.9705 RRF -.9646 RTF .9877
SGB 6060.8 R23 .0099 R13 -.9880
SG1 6050.1 SG2 360.1 THA 165.63

ORBIT DETERMINATION ACCURACY
ST 2198.5 SR 469.3 SS 1431.2
CRT -.8908 CRS .8266 CST -.9920
LSA 2651.0 MSA 271.9 SSA 13.5
EL1 2238.3 EL2 209.4 ALF 169.14

LAUNCH DATE SEP 24 1965 FLIGHT TIME 202.00 ARRIVAL DATE APR 14 1966

HELIOCENTRIC CONIC DISTANCE 556.414

RL 150.07 LAL -.00 LOL .74 VL 27.205 GAL 6.23 AZL 90.33 HCA 250.40 SMA 129.02 ECC .19511 INC .3284 V1 29.692
RP 108.58 LAP .31 LOP 251.14 VP 37.630 GAP 6.62 AZP 89.89 TAL 152.44 TAP 42.85 RCA 103.85 APO 154.19 V2 34.903
RC 110.951 GL -2.05 GP 25.44 ZAL 37.60 ZAP 141.29 ETS 33.04 ZAE 122.09 ETE 164.21 ZAC 18.71 ETC 210.44 CLP-149.78

PLANETOCENTRIC CONIC

C3 18.847 VHL 4.341 DLA -15.72 RAL 326.23 RAD 6567.8 VEL 11.842 PTH 2.10 VHP 5.297 DPA 1.04 RAP 281.65 ECC 1.3102

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 0 47	1688.56	-4.31	10.43	185.76	118.01	11 28 55	1088.6	-.52	3.79
90.00	18 47 30	5356.14	27.73	244.39	192.04	84.02	20 16 46	4756.1	26.61	235.90
100.00	12 13 26	1454.09	-5.46	352.56	185.12	119.43	12 37 41	854.1	-1.50	346.02
100.00	20 17 31	5065.84	29.04	222.86	191.86	82.57	21 41 57	4465.8	27.71	214.31
110.00	13 2 24	1300.73	-8.42	339.11	183.31	123.25	13 24 5	700.7	-3.99	332.83
110.00	21 45 3	4791.97	32.46	201.41	191.20	78.64	23 4 55	4192.0	30.55	192.71

DIFFERENTIAL CORRECTIONS
TDE 1.2885 TRA 3.8260 TC3-2.7286 BAU .6948
RDE -.0844 RRA -.9944 RC3 .3974 FAU .04471
FDE 1.8946 FRA 4.4755 FC3-2.0539 BSP 19535
BDE 1.2913 BRA 3.9531 BC3 2.7573 FSP -2114

MID-COURSE EXECUTION ACCURACY
SGT 6001.8 SGR 1410.8 SG3 592.9
RRT -.9636 RRF -.9565 RTF .9874
SGB 6165.4 R23 .0056 R13 -.9876
SG1 6154.4 SG2 367.9 THA 167.19

ORBIT DETERMINATION ACCURACY
ST 2318.1 SR 424.0 SS 1421.3
CRT -.8483 CRS .7837 CST -.9936
LSA 2738.6 MSA 270.1 SSA 13.6
EL1 2346.1 EL2 221.9 ALF 171.10

LAUNCH DATE SEP 24 1965 FLIGHT TIME 204.00 ARRIVAL DATE APR 16 1966

HELIOCENTRIC CONIC DISTANCE 562.358

RL 150.07 LAL -.00 LOL .74 VL 27.187 GAL 6.52 AZL 90.13 HCA 253.58 SMA 128.90 ECC .19877 INC .1259 V1 29.692
RP 108.61 LAP .12 LOP 254.32 VP 37.607 GAP 7.06 AZP 89.96 TAL 151.69 TAP 45.27 RCA 103.28 APO 154.52 V2 34.892
RC 113.313 GL -.77 GP 23.98 ZAL 36.83 ZAP 143.69 ETS 33.97 ZAE 121.43 ETE 165.52 ZAC 18.79 ETC 204.89 CLP-151.89

PLANETOCENTRIC CONIC

C3 19.946 VHL 4.466 DLA -14.28 RAL 326.49 RAD 6567.8 VEL 11.888 PTH 2.11 VHP 5.490 DPA -.38 RAP 282.67 ECC 1.3283

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 48 36	1753.65	-6.38	14.10	186.64	117.65	11 17 49	1153.7	-2.62	7.43
90.00	19 1 48	5317.87	27.43	241.63	192.70	82.67	20 30 26	4717.9	26.13	233.20
100.00	12 2 20	1515.74	-7.51	355.99	186.02	119.02	12 27 35	915.7	-3.58	349.41
100.00	20 30 45	5031.01	28.70	220.33	192.50	81.28	21 54 36	4431.0	27.20	211.85
110.00	12 53 32	1355.34	-10.45	342.05	184.25	122.73	13 16 8	755.3	-6.06	335.70
110.00	21 56 2	4764.18	32.07	199.33	191.77	77.47	23 15 26	4164.2	30.01	190.72

DIFFERENTIAL CORRECTIONS
TDE 1.4222 TRA 4.0455 TC3-2.6343 BAU .7082
RDE -.0591 RRA -.9503 RC3 .3384 FAU .04058
FDE 1.8801 FRA 4.3563 FC3-1.7614 BSP 19908
BDE 1.4234 BRA 4.1556 BC3 2.6559 FSP -1992

MID-COURSE EXECUTION ACCURACY
SGT 6127.4 SGR 1295.9 SG3 556.9
RRT -.9553 RRF -.9472 RTF .9871
SGB 6262.9 R23 .0023 R13 -.9872
SG1 6251.7 SG2 375.4 THA 168.54

ORBIT DETERMINATION ACCURACY
ST 2432.1 SR 385.0 SS 1408.2
CRT -.7959 CRS .7316 CST -.9949
LSA 2823.9 MSA 268.5 SSA 13.6
EL1 2451.5 EL2 231.3 ALF 172.75

LAUNCH DATE SEP 24 1965 FLIGHT TIME 206.00 ARRIVAL DATE APR 18 1966

HELIOCENTRIC CONIC DISTANCE 568.264

RL	150.07	LAL	-.00	LOL	.74	VL	27.169	GAL	6.83	AZL	89.93	HCA	256.75	SMA	128.77	ECC	.20274	INC .0667	VI	29.692
RP	108.64	LAP	-.07	LOP	257.49	VP	37.583	GAP	7.51	AZP	90.02	TAL	150.31	TAP	47.66	RCA	102.66	APO 154.88	V2	34.881
RC	115.673	GL	.40	GP	22.66	ZAL	36.10	ZAP	145.95	ETS	34.92	ZAE	120.80	ETE	166.64	ZAC	19.21	ETC 199.64	CLP	-153.88

PLANETOCENTRIC CONIC

C3 21.192 VHL 4.604 DLA -12.93 RAL 326.80 RAD 6567.9 VEL 11.940 PTH 2.12 VHP 5.699 DPA -1.66 RAP 283.82 ECC 1.3488

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 38 2	1814.71	-8.29	17.56	187.71	117.17	11 8 17	1214.7	-4.58	10.85
90.00	19 14 49	5285.81	27.13	239.33	193.53	81.55	20 42 55	4685.8	25.68	230.96
100.00	11 52 40	1573.89	-9.42	359.26	187.11	118.50	12 18 54	973.9	-5.54	352.62
100.00	20 42 51	5001.86	28.38	218.22	193.30	80.21	22 6 13	4401.9	26.74	209.80
110.00	12 45 49	1407.42	-12.35	344.88	185.36	122.13	13 9 17	807.4	-8.02	338.46
110.00	22 6 12	4741.09	31.71	197.63	192.51	76.51	23 25 13	4141.1	29.53	189.10

DIFFERENTIAL CORRECTIONS

TDE 1.5625 TRA 4.2747 TC3-2.5206 BAU .7187
RDE -.0351 RRA -.9123 RC3 .2865 FAU .03645
FDE 1.8641 FRA 4.2423 FC3-1.4889 BSP 20200
BDE 1.5628 BRA 4.3710 BC3 2.5368 FSP -1867

MID-COURSE EXECUTION ACCURACY

SGT 6242.3 SGR 1195.3 SG3 522.8
RRT -.9458 RRF -.9367 RTF .9867
SGB 6355.7 R23 .0000 R13 -.9867
SG1 6344.2 SG2 382.1 THA 169.70

ORBIT DETERMINATION ACCURACY

ST 2543.3 SR 352.3 SS 1395.0
CRT -.7342 CRS .6709 CST -.9960
LSA 2909.8 MSA 266.8 SSA 13.6
EL1 2556.5 EL2 238.0 ALF 174.14

LAUNCH DATE SEP 24 1965 FLIGHT TIME 208.00 ARRIVAL DATE APR 20 1966

HELIOCENTRIC CONIC DISTANCE 574.131

RL	150.07	LAL	-.00	LOL	.74	VL	27.150	GAL	7.17	AZL	89.74	HCA	259.92	SMA	128.64	ECC	.20704	INC .2583	VI	29.692
RP	108.68	LAP	-.25	LOP	260.66	VP	37.560	GAP	7.97	AZP	90.05	TAL	150.11	TAP	50.04	RCA	102.01	APO 155.28	V2	34.870
RC	118.029	GL	1.46	GP	21.46	ZAL	35.40	ZAP	148.06	ETS	35.92	ZAE	120.20	ETE	167.60	ZAC	19.92	ETC 194.87	CLP	-155.76

PLANETOCENTRIC CONIC

C3 22.599 VHL 4.754 DLA -11.69 RAL 327.14 RAD 6567.9 VEL 11.999 PTH 2.14 VHP 5.924 DPA -2.80 RAP 285.08 ECC 1.3719

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 28 49	1872.45	-10.07	20.87	188.95	116.61	11 0 1	1272.4	-6.42	14.10
90.00	19 26 45	5259.12	26.85	237.43	194.51	80.64	20 54 24	4659.1	25.28	229.11
100.00	11 44 14	1629.13	-11.19	2.39	188.36	117.90	12 11 23	1029.1	-7.37	355.69
100.00	20 54 1	4977.68	28.09	216.48	194.26	79.34	-22 16 58	4377.7	26.33	208.12
110.00	12 39 5	1457.35	-14.14	347.64	186.64	121.45	13 3 22	857.4	-9.87	341.14
110.00	22 15 39	4722.22	31.40	196.24	193.42	75.75	23 34 21	4122.2	29.13	187.78

DIFFERENTIAL CORRECTIONS

TDE 1.7037 TRA 4.5090 TC3-2.4002 BAU .7289
RDE -.0109 RRA -.8785 RC3 .2435 FAU .03267
FDE 1.8406 FRA 4.1284 FC3-1.2514 BSP 20539
BDE 1.7038 BRA 4.5937 BC3 2.4126 FSP -1754

MID-COURSE EXECUTION ACCURACY

SGT 6342.0 SGR 1105.8 SG3 489.9
RRT -.9348 RRF -.9247 RTF .9863
SGB 6437.7 R23 -.0019 R13 -.9863
SG1 6426.0 SG2 387.8 THA 170.71

ORBIT DETERMINATION ACCURACY

ST 2644.4 SR 324.7 SS 1377.7
CRT -.6608 CRS .5992 CST -.9968
LSA 2987.6 MSA 265.1 SSA 13.6
EL1 2653.2 EL2 242.9 ALF 175.32

LAUNCH DATE SEP 24 1965 FLIGHT TIME 210.00 ARRIVAL DATE APR 22 1966

HELIOCENTRIC CONIC DISTANCE 579.954

RL	150.07	LAL	-.00	LOL	.74	VL	27.130	GAL	7.53	AZL	89.56	HCA	263.10	SMA	128.51	ECC	.21170	INC .4444	VI	29.692
RP	108.71	LAP	-.44	LOP	263.84	VP	37.536	GAP	8.45	AZP	90.05	TAL	149.30	TAP	52.39	RCA	101.30	APO 155.71	V2	34.860
RC	120.382	GL	2.43	GP	20.37	ZAL	34.72	ZAP	150.04	ETS	37.00	ZAE	119.64	ETE	168.44	ZAC	20.86	ETC 190.66	CLP	-157.54

PLANETOCENTRIC CONIC

C3 24.181 VHL 4.917 DLA -10.53 RAL 327.51 RAD 6568.0 VEL 12.065 PTH 2.16 VHP 6.164 DPA -3.81 RAP 286.44 ECC 1.3980

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 20 44	1927.43	-11.73	24.06	190.34	115.96	10 52 52	1327.4	-8.14	17.22
90.00	19 37 46	5237.19	26.59	235.87	195.62	79.90	21 5 3	4637.2	24.93	227.60
100.00	11 36 50	1681.92	-12.86	5.43	189.77	117.22	12 4 52	1081.9	-9.11	358.65
100.00	21 4 21	4957.93	27.84	215.07	195.36	78.64	22 26 59	4357.9	25.99	206.76
110.00	12 33 11	1505.46	-15.83	350.34	188.07	120.70	12 58 17	905.5	-11.64	343.74
110.00	22 24 29	4707.15	31.15	195.14	194.47	75.15	23 42 57	4107.2	28.79	186.73

DIFFERENTIAL CORRECTIONS

TDE 1.8495 TRA 4.7526 TC3-2.2707 BAU .7371
RDE .0127 RRA -.8488 RC3 .2066 FAU .02908
FDE 1.8149 FRA 4.0196 FC3-1.0411 BSP 20853
BDE 1.8496 BRA 4.8278 BC3 2.2801 FSP -1647

MID-COURSE EXECUTION ACCURACY

SGT 6430.7 SGR 1026.4 SG3 458.9
RRT -.9223 RRF -.9114 RTF .9859
SGB 6512.1 R23 -.0033 R13 -.9859
SG1 6500.3 SG2 392.4 THA 171.59

ORBIT DETERMINATION ACCURACY

ST 2739.3 SR 302.2 SS 1359.3
CRT -.5778 CRS .5186 CST -.9974
LSA 3061.5 MSA 263.2 SSA 13.5
EL1 2744.9 EL2 246.2 ALF 176.32

LAUNCH DATE SEP 24 1965 FLIGHT TIME 212.00 ARRIVAL DATE APR 24 1966

HELIOCENTRIC CONIC DISTANCE 585.731

RL	150.07	LAL	-.00	LOL	.74	VL	27.110	GAL	7.92	AZL	89.37	HCA	266.26	SMA	128.37	ECC	.21673	INC .6282	VI	29.692
RP	108.74	LAP	-.63	LOP	267.00	VP	37.513	GAP	8.94	AZP	90.04	TAL	148.47	TAP	54.73	RCA	100.55	APO 156.20	V2	34.851
RC	122.731	GL	3.31	GP	19.38	ZAL	34.06	ZAP	151.90	ETS	38.17	ZAE	119.10	ETE	169.16	ZAC	22.01	ETC 187.04	CLP	-159.25

PLANETOCENTRIC CONIC

C3 25.960 VHL 5.095 DLA -9.46 RAL 327.90 RAD 6568.0 VEL 12.138 PTH 2.18 VHP 6.420 DPA -4.70 RAP 287.89 ECC 1.4272

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 13 38	1980.08	-13.28	27.15	191.87	115.24	10 46 38	1380.1	-9.77	20.23
90.00	19 48 0	5219.51	26.38	234.62	196.87	79.31	21 14 59	4619.5	24.63	226.39
100.00	11 30 20	1732.63	-14.42	8.39	191.31	116.47	11 59 13	1132.6	-10.75	1.52
100.00	21 13 59	4942.19	27.62	213.95	196.59	78.09	22 36 21	4342.2	25.70	205.68
110.00	12 28 1	1551.99	-17.43	353.00	189.63	119.88	12 53 53	952.0	-13.32	346.30
110.00	22 32 47	4695.59	30.94	194.30	195.67	74.69	23 51 3	4095.6	28.53	185.93

DIFFERENTIAL CORRECTIONS

TDE 2.0004 TRA 5.0071 TC3-2.1343 BAU .7432
RDE .0358 RRA -.8228 RC3 .1751 FAU .02568
FDE 1.7883 FRA 3.9174 FC3 -.8564 BSP 21140
BDE 2.0007 BRA 5.0742 BC3 2.1415 FSP -1545

MID-COURSE EXECUTION ACCURACY

SGT 6509.5 SGR 955.7 SG3 429.8
RRT -.9085 RRF -.8968 RTF .9855
SGB 6579.3 R23 -.0044 R13 -.9855
SG1 6567.4 SG2 395.8 THA 172.38

ORBIT DETERMINATION ACCURACY

ST 2827.9 SR 284.3 SS 1340.4
CRT -.4872 CRS .4311 CST -.9979
LSA 3131.4 MSA 261.1 SSA 13.4
EL1 2831.3 EL2 248.0 ALF 177.17

LAUNCH DATE SEP 24 1965 FLIGHT TIME 214.00 ARRIVAL DATE APR 26 1966

DISTANCE 591.457

HELIOCENTRIC CONIC

RL 150.07 LAL -.00 LOL .74 VL 27.089 GAL 8.33 AZL 89.19 HCA 269.43 SMA 128.24 ECC .22219 INC .8105 VI 29.692
RP 108.76 LAP -.81 LOP 270.17 VP 37.490 GAP 9.45 AZP 90.01 TAL 147.63 TAP 57.06 RCA 99.74 APO 156.73 V2 34.842
RC 125.075 GL 4.11 GP 18.48 ZAL 33.42 ZAP 153.65 ETS 39.47 ZAE 118.60 ETE 169.79 ZAC 23.32 ETC 183.96 CLP-160.88

PLANETOCENTRIC CONIC

C3 27.958 VHL 5.288 DLA -8.46 RAL 328.31 RAD 6568.1 VEL 12.220 PTH 2.20 VHP 6.692 DPA -5.48 RAP 289.43 ECC 1.4601

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 7 22	2030.74	-14.73	30.17	193.53	114.46	10 41 13	1430.7	-11.30	23.16
90.00	19 57 32	5205.68	26.20	233.65	198.23	78.85	21 24 18	4605.7	24.40	225.45
100.00	11 24 37	1781.56	-15.88	11.28	192.97	115.66	11 54 18	1181.6	-12.30	4.33
100.00	21 22 59	4930.10	27.45	213.09	197.94	77.67	22 45 9	4330.1	25.47	204.85
110.00	12 23 30	1597.17	-18.94	355.63	191.31	119.00	12 50 7	997.2	-14.93	348.82
110.00	22 40 35	4687.25	30.79	193.70	196.98	74.36	23 58 42	4087.2	28.34	185.36

DIFFERENTIAL CORRECTIONS

TDE 2.1600 TRA 5.2769 TC3-1.9882 BAU .7452
RDE .0579 RRA -.8002 RC3 .1470 FAU .02231
FDE 1.7644 FRA 3.8249 FC3 -.6909 BSP 21318
BDE 2.1608 BRA 5.3372 BC3 1.9936 FSP -1441

MID-COURSE EXECUTION ACCURACY

SGT 6581.7 SGR 892.5 SG3 402.9
RRT -.8934 RRF -.8810 RTF .9851
SGB 6641.9 R23 -.0050 R13 -.9851
SG1 6630.0 SG2 398.1 THA 173.07

ORBIT DETERMINATION ACCURACY

ST 2913.8 SR 270.4 SS 1323.1
CRT -.3930 CRS .3408 CST -.9984
LSA 3201.0 MSA 258.5 SSA 13.3
EL1 2915.7 EL2 248.5 ALF 177.90

LAUNCH DATE SEP 24 1965 FLIGHT TIME 216.00 ARRIVAL DATE APR 28 1966

DISTANCE 597.125

HELIOCENTRIC CONIC

RL 150.07 LAL -.00 LOL .74 VL 27.068 GAL 8.78 AZL 89.01 HCA 272.60 SMA 128.10 ECC .22810 INC .9925 VI 29.692
RP 108.79 LAP -.99 LOP 273.34 VP 37.467 GAP 9.97 AZP 89.96 TAL 146.78 TAP 59.38 RCA 98.88 APO 157.31 V2 34.834
RC 127.413 GL 4.84 GP 17.66 ZAL 32.80 ZAP 155.30 ETS 40.91 ZAE 118.13 ETE 170.34 ZAC 24.76 ETC 181.38 CLP-162.45

PLANETOCENTRIC CONIC

C3 30.203 VHL 5.496 DLA -7.54 RAL 328.74 RAD 6568.2 VEL 12.312 PTH 2.22 VHP 6.983 DPA -6.15 RAP 291.03 ECC 1.4971

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 1 51	2079.66	-16.08	33.12	195.30	113.62	10 36 31	1479.7	-12.75	26.02
90.00	20 6 27	5195.40	26.06	232.93	199.70	78.51	21 33 2	4595.4	24.21	224.75
100.00	11 19 34	1828.93	-17.26	14.13	194.75	114.79	11 50 3	1228.9	-13.77	7.07
100.00	21 31 25	4921.36	27.32	212.47	199.40	77.37	22 53 26	4321.4	25.30	204.25
110.00	12 19 33	1641.15	-20.37	358.24	193.12	118.06	12 46 54	1041.2	-16.46	351.30
110.00	22 47 56	4681.90	30.69	193.32	198.42	74.15	24 5 58	4081.9	28.21	184.99

DIFFERENTIAL CORRECTIONS

TDE 2.3216 TRA 5.5560 TC3-1.8454 BAU .7468
RDE .0802 RRA -.7794 RC3 .1239 FAU .01932
FDE 1.7370 FRA 3.7361 FC3 -.5539 BSP 21575
BDE 2.3229 BRA 5.6104 BC3 1.8495 FSP -1352

MID-COURSE EXECUTION ACCURACY

SGT 6641.6 SGR 835.1 SG3 377.5
RRT -.8768 RRF -.8639 RTF .9848
SGB 6693.9 R23 -.0055 R13 -.9848
SG1 6682.0 SG2 399.1 THA 173.69

ORBIT DETERMINATION ACCURACY

ST 2989.0 SR 259.8 SS 1303.6
CRT -.2947 CRS .2467 CST -.9987
LSA 3261.2 MSA 255.8 SSA 13.2
EL1 2990.0 EL2 248.1 ALF 178.52

LAUNCH DATE SEP 24 1965 FLIGHT TIME 218.00 ARRIVAL DATE APR 30 1966

DISTANCE 602.730

HELIOCENTRIC CONIC

RL 150.07 LAL -.00 LOL .74 VL 27.047 GAL 9.26 AZL 88.82 HCA 275.76 SMA 127.95 ECC .23451 INC 1.1753 VI 29.692
RP 108.81 LAP -1.17 LOP 276.50 VP 37.445 GAP 10.52 AZP 89.88 TAL 145.92 TAP 61.69 RCA 97.95 APO 157.96 V2 34.826
RC 129.747 GL 5.49 GP 16.92 ZAL 32.20 ZAP 156.85 ETS 42.52 ZAE 117.68 ETE 170.82 ZAC 26.30 ETC 179.22 CLP-163.96

PLANETOCENTRIC CONIC

C3 32.729 VHL 5.721 DLA -6.68 RAL 329.17 RAD 6568.3 VEL 12.414 PTH 2.24 VHP 7.292 DPA -6.73 RAP 292.69 ECC 1.5386

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 56 59	2127.07	-17.35	36.02	197.18	112.73	10 32 26	1527.1	-14.12	28.83
90.00	20 14 48	5188.37	25.96	232.44	201.27	78.29	21 41 16	4588.4	24.09	224.27
100.00	11 15 8	1874.94	-18.55	16.94	196.64	113.87	11 46 23	1274.9	-15.16	9.78
100.00	21 39 20	4915.73	27.23	212.08	200.96	77.17	23 1 15	4315.7	25.20	203.87
110.00	12 16 6	1684.09	-21.72	.84	195.03	117.06	12 44 10	1084.1	-17.92	353.77
110.00	22 54 52	4679.35	30.64	193.13	199.96	74.05	24 12 51	4079.4	28.15	184.82

DIFFERENTIAL CORRECTIONS

TDE 2.4897 TRA 5.8498 TC3-1.7011 BAU .7457
RDE .1023 RRA -.7604 RC3 .1039 FAU .01650
FDE 1.7107 FRA 3.6547 FC3 -.4364 BSP 21804
BDE 2.4918 BRA 5.8990 BC3 1.7043 FSP -1268

MID-COURSE EXECUTION ACCURACY

SGT 6693.3 SGR 782.7 SG3 353.8
RRT -.8588 RRF -.8455 RTF .9845
SGB 6739.0 R23 -.0059 R13 -.9845
SG1 6727.1 SG2 399.0 THA 174.24

ORBIT DETERMINATION ACCURACY

ST 3058.2 SR 251.9 SS 1284.7
CRT -.1971 CRS .1535 CST -.9990
LSA 3317.0 MSA 252.7 SSA 13.0
EL1 3058.6 EL2 246.9 ALF 179.06

LAUNCH DATE SEP 24 1965 FLIGHT TIME 220.00 ARRIVAL DATE MAY 2 1966

DISTANCE 608.264

HELIOCENTRIC CONIC

RL 150.07 LAL -.00 LOL .74 VL 27.026 GAL 9.78 AZL 88.64 HCA 278.92 SMA 127.81 ECC .24146 INC 1.3601 VI 29.692
RP 108.84 LAP -1.34 LOP 279.67 VP 37.422 GAP 11.10 AZP 89.79 TAL 145.07 TAP 63.99 RCA 96.95 APO 158.67 V2 34.819
RC 132.074 GL 6.08 GP 16.24 ZAL 31.62 ZAP 158.31 ETS 44.33 ZAE 117.25 ETE 171.25 ZAC 27.92 ETC 177.42 CLP-165.43

PLANETOCENTRIC CONIC

C3 35.575 VHL 5.964 DLA -5.89 RAL 329.61 RAD 6568.4 VEL 12.528 PTH 2.27 VHP 7.622 DPA -7.21 RAP 294.40 ECC 1.5855

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 52 41	2173.14	-18.54	38.87	199.15	111.79	10 28 54	1573.1	-15.42	31.59
90.00	20 22 37	5184.37	25.91	232.16	202.93	78.16	21 49 2	4584.4	24.02	224.00
100.00	11 11 14	1919.74	-19.76	19.71	198.62	112.90	11 43 14	1319.7	-16.49	12.45
100.00	21 46 45	4913.01	27.19	211.89	202.62	77.08	23 8 38	4313.0	25.14	203.69
110.00	12 13 5	1726.09	-23.00	3.43	197.04	116.01	12 41 52	1126.1	-19.32	356.23
110.00	23 1 23	4679.42	30.64	193.14	201.60	74.06	24 19 23	4079.4	28.16	184.82

DIFFERENTIAL CORRECTIONS

TDE 2.6654 TRA 6.1604 TC3-1.5566 BAU .7415
RDE .1242 RRA -.7429 RC3 .0866 FAU .01383
FDE 1.6859 FRA 3.5811 FC3 -.3365 BSP 22003
BDE 2.6683 BRA 6.2051 BC3 1.5590 FSP -1189

MID-COURSE EXECUTION ACCURACY

SGT 6737.8 SGR 734.6 SG3 331.8
RRT -.8394 RRF -.8258 RTF .9843
SGB 6777.7 R23 -.0061 R13 -.9843
SG1 6766.0 SG2 397.6 THA 174.75

ORBIT DETERMINATION ACCURACY

ST 3121.6 SR 246.1 SS 1266.7
CRT -.1027 CRS .0637 CST -.9992
LSA 3368.6 MSA 249.2 SSA 12.9
EL1 3121.7 EL2 244.8 ALF 179.53

LAUNCH DATE SEP 25 1965 FLIGHT TIME 70.00 ARRIVAL DATE DEC 4 1965

HELIOCENTRIC CONIC DISTANCE 130.890

RL	150.02	LAL	-.00	LOL	1.72	VL	16.038	GAL	24.33	AZL	93.27	HCA	38.18	SMA	87.88	ECC	.76474	INC	3.2711	VI	29.701
RP	108.22	LAP	-2.02	LOP	39.86	VP	30.700	GAP	-48.52	AZP	92.57	TAL	171.73	TAP	209.91	RCA	20.68	APO	155.09	V2	35.016
RC	79.613	GL	-2.88	GP	-3.96	ZAL	64.71	ZAP	33.19	ETS	170.53	ZAE	135.24	ETE	179.87	ZAC	22.07	ETC	52.32	CLP	32.98

PLANETOCENTRIC CONIC

C3 277.987 VHL 16.673 DLA -23.58 RAL 299.69 RAD 6571.6 VEL 19.982 PTH 3.14 VHP 27.199 DPA -26.01 RAP 250.56 ECC 5.5750

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 41 7	1935.05	-11.95	24.51	196.91	115.86	11 13 22	1335.0	-8.38	17.65
90.00	15 27 38	979.65	17.43	329.73	209.98	112.68	15 43 58	379.7	20.35	322.28
100.00	11 43 43	1732.96	-14.43	8.41	195.67	116.47	12 12 36	1133.0	-10.76	1.54
100.00	17 7 43	656.97	19.97	307.11	211.10	112.72	17 18 40	57.0	22.88	299.52
110.00	12 14 26	1636.64	-20.23	357.97	192.53	118.16	12 41 43	1036.6	-16.30	351.05
110.00	18 53 29	5614.10	25.98	262.64	213.85	113.03	20 27 3	5014.1	28.87	254.65

DIFFERENTIAL CORRECTIONS

TDE	-.4617	TRA	-1.8935	TC3	-.1163	BAU	.4321												
RDE	-1.2713	RRA	.3759	RC3	.0016	FAU	.01161												
FDE	.1694	FRA	.7091	FC3	-.0362	BSP	1806												
BDE	1.3526	BRA	1.9305	BC3	.1163	FSP	-50												

MID-COURSE EXECUTION ACCURACY

SGT	824.3	SGR	459.1	SG3	25.7						
RRT	-.0868	RRF	.0833	RTF	-.6163						
SGB	943.6	R23	-.0062	R13	.6170						
SG1	825.7	SG2	456.6	THA	176.01						

ORBIT DETERMINATION ACCURACY

ST	265.8	SR	438.9	SS	232.2						
CRT	.5168	CRS	.5086	CST	.9967						
LSA	495.0	MSA	268.3	SSA	14.1						
EL1	466.3	EL2	214.2	ALF	67.66						

LAUNCH DATE SEP 25 1965 FLIGHT TIME 72.00 ARRIVAL DATE DEC 6 1965

HELIOCENTRIC CONIC DISTANCE 136.488

RL	150.02	LAL	-.00	LOL	1.72	VL	16.858	GAL	23.26	AZL	92.82	HCA	41.37	SMA	89.37	ECC	.73810	INC	2.8235	VI	29.701
RP	108.18	LAP	-1.87	LOP	43.06	VP	31.120	GAP	-46.36	AZP	92.12	TAL	170.92	TAP	212.29	RCA	23.40	APO	155.33	V2	35.030
RC	77.423	GL	-2.74	GP	-4.06	ZAL	63.36	ZAP	31.69	ETS	169.99	ZAE	135.25	ETE	180.27	ZAC	21.26	ETC	56.15	CLP	31.46

PLANETOCENTRIC CONIC

C3 254.070 VHL 15.940 DLA -23.17 RAL 301.11 RAD 6571.5 VEL 19.375 PTH 3.10 VHP 26.187 DPA -26.43 RAP 252.38 ECC 5.1813

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 40 48	1944.28	-12.23	25.05	197.42	115.74	11 13 13	1344.3	-8.66	18.18
90.00	15 39 12	947.07	18.27	327.71	210.72	112.02	15 54 59	347.1	21.10	320.18
100.00	11 44 18	1739.31	-14.62	8.78	196.21	116.37	12 13 18	1139.3	-10.96	1.90
100.00	17 18 23	627.27	20.74	305.24	211.78	112.02	17 28 50	27.3	23.55	297.57
110.00	12 16 25	1638.63	-20.29	358.09	193.16	118.12	12 43 44	1038.6	-16.37	351.16
110.00	19 2 45	5588.76	26.65	260.97	214.40	112.25	20 35 54	4988.8	29.42	252.88

DIFFERENTIAL CORRECTIONS

TDE	-.5142	TRA	-1.9442	TC3	-.1298	BAU	.4407												
RDE	-1.2240	RRA	.3847	RC3	.0012	FAU	.01148												
FDE	.1894	FRA	.7408	FC3	-.0391	BSP	1106												
BDE	1.3276	BRA	1.9819	BC3	.1298	FSP	-47												

MID-COURSE EXECUTION ACCURACY

SGT	885.0	SGR	465.0	SG3	27.9						
RRT	-.0839	RRF	.0877	RTF	-.6347						
SGB	999.7	R23	-.0145	R13	.6355						
SG1	886.1	SG2	462.7	THA	176.53						

ORBIT DETERMINATION ACCURACY

ST	293.8	SR	442.3	SS	249.9						
CRT	.5466	CRS	.5328	CST	.9970						
LSA	517.0	MSA	277.3	SSA	14.5						
EL1	480.2	EL2	226.6	ALF	63.78						

LAUNCH DATE SEP 25 1965 FLIGHT TIME 74.00 ARRIVAL DATE DEC 8 1965

HELIOCENTRIC CONIC DISTANCE 142.189

RL	150.02	LAL	-.00	LOL	1.72	VL	17.571	GAL	22.24	AZL	92.43	HCA	44.57	SMA	90.87	ECC	.71157	INC	2.4289	VI	29.701
RP	108.14	LAP	-1.70	LOP	46.26	VP	31.527	GAP	-44.30	AZP	91.73	TAL	170.11	TAP	214.68	RCA	26.21	APO	155.53	V2	35.043
RC	75.249	GL	-2.59	GP	-4.18	ZAL	62.07	ZAP	30.22	ETS	169.40	ZAE	135.33	ETE	180.72	ZAC	20.55	ETC	60.33	CLP	29.96

PLANETOCENTRIC CONIC

C3 232.275 VHL 15.241 DLA -22.75 RAL 302.44 RAD 6571.3 VEL 18.804 PTH 3.06 VHP 25.209 DPA -26.83 RAP 254.23 ECC 4.8227

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 40 13	1952.97	-12.48	25.56	197.82	115.62	11 12 46	1353.0	-8.93	18.68
90.00	15 50 28	913.72	19.11	325.62	211.32	111.30	16 5 42	313.7	21.84	318.01
100.00	11 44 34	1745.27	-14.80	9.13	196.66	116.27	12 13 40	1145.3	-11.15	2.24
100.00	17 28 48	5884.70	21.51	281.20	212.31	111.27	19 6 53	5284.7	24.21	273.44
110.00	12 18 3	1640.32	-20.34	358.19	193.67	118.08	12 45 23	1040.3	-16.43	351.26
110.00	19 11 49	5562.40	27.32	259.21	214.80	111.40	20 44 31	4962.4	29.97	251.03

DIFFERENTIAL CORRECTIONS

TDE	-.4714	TRA	-1.9008	TC3	-.1282	BAU	.3982												
RDE	-1.1780	RRA	.3905	RC3	.0003	FAU	.01187												
FDE	.1985	FRA	.7618	FC3	-.0443	BSP	2671												
BDE	1.2688	BRA	1.9405	BC3	.1282	FSP	-67												

MID-COURSE EXECUTION ACCURACY

SGT	885.8	SGR	470.6	SG3	30.0						
RRT	-.1084	RRF	.0998	RTF	-.6550						
SGB	1003.0	R23	-.0015	R13	.6556						
SG1	887.8	SG2	466.8	THA	175.44						

ORBIT DETERMINATION ACCURACY

ST	292.5	SR	445.4	SS	260.1						
CRT	.5171	CRS	.5375	CST	.9970						
LSA	519.8	MSA	285.0	SSA	14.4						
EL1	479.5	EL2	232.6	ALF	64.97						

LAUNCH DATE SEP 25 1965 FLIGHT TIME 76.00 ARRIVAL DATE DEC 10 1965

HELIOCENTRIC CONIC DISTANCE 148.004

RL	150.02	LAL	-.00	LOL	1.72	VL	18.240	GAL	21.28	AZL	92.08	HCA	47.77	SMA	92.38	ECC	.68534	INC	2.0764	VI	29.701
RP	108.10	LAP	-1.54	LOP	49.47	VP	31.919	GAP	-42.35	AZP	91.40	TAL	169.31	TAP	217.07	RCA	29.07	APO	155.70	V2	35.056
RC	73.094	GL	-2.42	GP	-4.30	ZAL	60.81	ZAP	28.77	ETS	168.73	ZAE	135.49	ETE	181.21	ZAC	19.96	ETC	64.87	CLP	28.48

PLANETOCENTRIC CONIC

C3 212.476 VHL 14.577 DLA -22.32 RAL 303.72 RAD 6571.2 VEL 18.270 PTH 3.03 VHP 24.265 DPA -27.23 RAP 256.12 ECC 4.4968

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 39 22	1961.29	-12.73	26.04	198.12	115.51	11 12 3	1361.3	-9.19	19.15
90.00	16 1 32	879.51	19.94	323.46	211.78	110.53	16 16 11	279.5	22.56	315.76
100.00	11 44 31	1750.98	-14.97	9.47	197.01	116.18	12 13 42	1151.0	-11.33	2.57
100.00	17 39 3	5853.09	22.28	279.17	212.72	110.47	19 16 36	5253.1	24.86	271.32
110.00	12 19 20	1641.84	-20.39	358.29	194.09	118.05	12 46 42	1041.8	-16.48	351.34
110.00	19 20 44	5534.99	27.98	257.36	215.07	110.48	20 52 59	4935.0	30.51	249.07

DIFFERENTIAL CORRECTIONS

TDE	-.4980	TRA	-1.9284	TC3	-.1382	BAU	.3927												
RDE	-1.1311	RRA	.3964	RC3	-.0006	FAU	.01190												
FDE	.2164	FRA	.7918	FC3	-.0485	BSP	2559												
BDE	1.2359	BRA	1.9687	BC3	.1382	FSP	-71												

MID-COURSE EXECUTION ACCURACY

SGT	955.9	SGR	475.4	SG3	32.4						
RRT	-.1131	RRF	.1071	RTF	-.6726						
SGB	1047.9	R23	-.0051	R13	.6733						
SG1	935.9	SG2	471.3	THA	175.58						

ORBIT DETERMINATION ACCURACY

ST	314.5	SR	447.5	SS	276.9						
CRT	.5302	CRS	.5538	CST	.9971						
LSA	538.4	MSA	292.7	SSA	14.6						
EL1	489.6	EL2	243.6	ALF	62.09						

LAUNCH DATE SEP 25 1965 FLIGHT TIME 78.00 ARRIVAL DATE DEC 12 1965

DISTANCE 153.917

HELIOCENTRIC CONIC

RL	150.02	LAL	-.00	LOL	1.72	VL	18.868	GAL	20.36	AZL	91.76	HCA	50.97	SMA	93.91	ECC	.65949	INC	1.7577	V1	29.701
RP	108.06	LAP	-1.37	LOP	52.68	VP	32.296	GAP	-40.50	AZP	91.11	TAL	168.52	TAP	219.49	RCA	31.98	APO	155.84	V2	35.069
RC	70.962	GL	-2.23	GP	-4.43	ZAL	59.61	ZAP	27.35	ETS	167.98	ZAE	135.74	ETE	181.76	ZAC	19.51	ETC	69.73	CLP	27.02

PLANETOCENTRIC CONIC

C3 194.430 VHL 13.944 DLA -21.86 RAL 304.94 RAD 6571.1 VEL 17.769 PTH 2.99 VHP 23.353 DPA -27.62 RAP 258.05 ECC 4.1998

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 38 14	1969.13	-12.96	26.51	198.34	115.40	11 11 3	1369.1	-9.43	19.60
90.00	16 12 20	844.46	20.76	321.21	212.10	109.70	16 26 25	244.5	23.26	313.43
100.00	11 44 10	1756.33	-15.13	9.79	197.26	116.09	12 13 26	1156.3	-11.50	2.88
100.00	17 49 5	5820.54	23.03	277.05	212.98	109.60	19 26 6	5220.5	25.50	269.11
110.00	12 20 18	1643.09	-20.43	358.36	194.41	118.02	12 47 41	1043.1	-16.53	351.42
110.00	19 29 27	5506.54	28.65	255.41	215.19	109.50	21 1 14	4906.5	31.03	247.02

DIFFERENTIAL CORRECTIONS

TDE -.5136 TRA-1.9461 TC3 -.1467 BAU .3813
RDE-1.0844 RRA .4009 RC3 -.0017 FAU .01200
FDE .2337 FRA .8214 FC3 -.0534 BSP 2697
BDE 1.1999 BRA 1.9870 BC3 .1467 FSP -77

MID-COURSE EXECUTION ACCURACY

SGT 976.9 SGR 479.7 SG3 35.0
RRT -.1215 RRF .1159 RTF -.6900
SGB 1088.3 R23 -.0062 R13 .6907
SG1 979.2 SG2 475.0 THA 175.53

ORBIT DETERMINATION ACCURACY

ST 333.9 SR 448.8 SS 293.4
CRT .5357 CRS .5667 CST .9970
LSA 555.8 MSA 299.7 SSA 14.8
EL1 498.4 EL2 253.9 ALF 59.62

LAUNCH DATE SEP 25 1965 FLIGHT TIME 80.00 ARRIVAL DATE DEC 14 1965

DISTANCE 159.824

HELIOCENTRIC CONIC

RL	150.02	LAL	-.00	LOL	1.72	VL	19.457	GAL	19.48	AZL	91.47	HCA	54.18	SMA	95.43	ECC	.63411	INC	1.4665	V1	29.701
RP	108.02	LAP	-1.19	LOP	55.89	VP	32.658	GAP	-38.73	AZP	90.86	TAL	167.75	TAP	221.93	RCA	34.92	APO	155.94	V2	35.082
RC	68.856	GL	-2.02	GP	-4.58	ZAL	58.46	ZAP	25.96	ETS	167.14	ZAE	136.06	ETE	182.37	ZAC	19.21	ETC	74.85	CLP	25.58

PLANETOCENTRIC CONIC

C3 177.971 VHL 13.341 DLA -21.39 RAL 306.09 RAD 6570.9 VEL 17.300 PTH 2.95 VHP 22.471 DPA -28.01 RAP 260.00 ECC 3.9290

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 36 50	1976.52	-13.17	26.94	198.45	115.29	11 9 46	1376.5	-9.66	20.03
90.00	16 22 55	808.56	21.57	318.89	212.28	108.81	16 36 23	208.6	23.94	311.02
100.00	11 43 30	1761.34	-15.28	10.08	197.41	116.01	12 12 52	1161.3	-11.66	3.16
100.00	17 58 56	5787.01	23.78	274.84	213.09	108.66	19 35 23	5187.0	26.11	266.81
110.00	12 20 55	1644.08	-20.46	358.42	194.63	118.00	12 48 19	1044.1	-16.56	351.47
110.00	19 38 0	5477.04	29.30	253.36	215.16	108.45	21 9 17	4877.0	31.53	244.87

DIFFERENTIAL CORRECTIONS

TDE -.5287 TRA-1.9645 TC3 -.1553 BAU .3696
RDE-1.0379 RRA .4045 RC3 -.0031 FAU .01211
FDE .2516 FRA .8519 FC3 -.0589 BSP 2832
BDE 1.1649 BRA 2.0057 BC3 .1554 FSP -85

MID-COURSE EXECUTION ACCURACY

SGT 1021.9 SGR 483.3 SG3 37.7
RRT -.1303 RRF .1253 RTF -.7067
SGB 1130.5 R23 -.0075 R13 .7074
SG1 1024.4 SG2 478.0 THA 175.49

ORBIT DETERMINATION ACCURACY

ST 354.4 SR 449.3 SS 310.6
CRT .5402 CRS .5784 CST .9969
LSA 574.6 MSA 305.9 SSA 15.0
EL1 507.8 EL2 263.9 ALF 56.95

LAUNCH DATE SEP 25 1965 FLIGHT TIME 82.00 ARRIVAL DATE DEC 16 1965

DISTANCE 166.020

HELIOCENTRIC CONIC

RL	150.02	LAL	-.00	LOL	1.72	VL	20.010	GAL	18.64	AZL	91.20	HCA	57.39	SMA	96.95	ECC	.60928	INC	1.1978	V1	29.701
RP	107.98	LAP	-1.01	LOP	59.10	VP	33.004	GAP	-37.05	AZP	90.65	TAL	167.00	TAP	224.38	RCA	37.88	APO	156.02	V2	35.095
RC	66.778	GL	-1.78	GP	-4.74	ZAL	57.35	ZAP	24.58	ETS	166.18	ZAE	136.48	ETE	183.04	ZAC	19.09	ETC	80.15	CLP	24.15

PLANETOCENTRIC CONIC

C3 162.948 VHL 12.765 DLA -20.90 RAL 307.17 RAD 6570.8 VEL 16.860 PTH 2.91 VHP 21.617 DPA -28.38 RAP 261.99 ECC 3.6817

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 35 9	1983.49	-13.37	27.35	198.47	115.19	11 8 12	1383.5	-9.87	20.43
90.00	16 33 15	771.77	22.36	316.48	212.31	107.85	16 46 7	171.8	24.59	308.52
100.00	11 42 32	1766.03	-15.42	10.36	197.46	115.93	12 11 58	1166.0	-11.81	3.43
100.00	18 8 34	5752.51	24.52	272.53	213.06	107.66	19 44 26	5152.5	26.70	264.41
110.00	12 21 12	1644.81	-20.49	358.46	194.75	117.98	12 48 37	1044.8	-16.59	351.51
110.00	19 46 22	5446.49	29.94	251.21	214.98	107.33	21 17 9	4846.5	32.01	242.62

DIFFERENTIAL CORRECTIONS

TDE -.5405 TRA-1.9803 TC3 -.1634 BAU .3561
RDE -.9918 RRA .4071 RC3 -.0048 FAU .01226
FDE .2697 FRA .8829 FC3 -.0651 BSP 3034
BDE 1.1295 BRA 2.0217 BC3 .1635 FSP -93

MID-COURSE EXECUTION ACCURACY

SGT 1066.8 SGR 486.4 SG3 40.7
RRT -.1407 RRF .1357 RTF -.7230
SGB 1172.5 R23 -.0082 R13 .7237
SG1 1069.6 SG2 480.3 THA 175.40

ORBIT DETERMINATION ACCURACY

ST 374.8 SR 449.0 SS 328.2
CRT .5422 CRS .5884 CST .9965
LSA 593.8 MSA 311.4 SSA 15.2
EL1 517.0 EL2 273.5 ALF 54.26

LAUNCH DATE SEP 25 1965 FLIGHT TIME 84.00 ARRIVAL DATE DEC 18 1965

DISTANCE 172.197

HELIOCENTRIC CONIC

RL	150.02	LAL	-.00	LOL	1.72	VL	20.528	GAL	17.84	AZL	90.95	HCA	60.60	SMA	98.47	ECC	.58506	INC	.9474	V1	29.701
RP	107.94	LAP	-.83	LOP	62.31	VP	33.334	GAP	-35.44	AZP	90.47	TAL	166.26	TAP	226.86	RCA	40.86	APO	156.07	V2	35.108
RC	64.732	GL	-1.52	GP	-4.91	ZAL	56.30	ZAP	23.23	ETS	165.08	ZAE	136.98	ETE	183.79	ZAC	19.14	ETC	85.53	CLP	22.74

PLANETOCENTRIC CONIC

C3 149.231 VHL 12.216 DLA -20.38 RAL 308.19 RAD 6570.6 VEL 16.449 PTH 2.87 VHP 20.791 DPA -28.75 RAP 264.00 ECC 3.4560

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 33 11	1990.08	-13.56	27.74	198.39	115.10	11 6 21	1390.1	-10.07	20.81
90.00	16 43 22	734.07	23.12	313.98	212.19	106.82	16 55 37	134.1	25.21	305.95
100.00	11 41 14	1770.42	-15.55	10.62	197.42	115.85	12 10 45	1170.4	-11.95	3.68
100.00	18 18 0	5717.00	25.23	270.14	212.88	106.59	19 53 17	5117.0	27.26	261.92
110.00	12 21 9	1645.32	-20.50	358.49	194.77	117.97	12 48 35	1045.3	-16.60	351.54
110.00	19 54 34	5414.87	30.56	248.96	214.65	106.12	21 24 49	4814.9	32.46	240.26

DIFFERENTIAL CORRECTIONS

TDE -.5543 TRA-1.9988 TC3 -.1723 BAU .3439
RDE -.9458 RRA .4089 RC3 -.0068 FAU .01241
FDE .2888 FRA .9153 FC3 -.0720 BSP 3171
BDE 1.0963 BRA 2.0402 BC3 .1724 FSP -101

MID-COURSE EXECUTION ACCURACY

SGT 1115.8 SGR 488.8 SG3 44.0
RRT -.1509 RRF .1468 RTF -.7382
SGB 1218.1 R23 -.0100 R13 .7390
SG1 1118.8 SG2 481.9 THA 175.35

ORBIT DETERMINATION ACCURACY

ST 397.2 SR 447.8 SS 346.7
CRT .5449 CRS .5975 CST .9962
LSA 615.2 MSA 315.9 SSA 15.4
EL1 527.7 EL2 282.7 ALF 51.22

LAUNCH DATE SEP 25 1965 FLIGHT TIME 86.00 ARRIVAL DATE DEC 20 1965

HELIOCENTRIC CONIC DISTANCE 178.452

RL	150.02	LAL	-.00	LOL	1.72	VL	21.016	GAL	17.07	AZL	90.71	HCA	63.81	SMA	99.97	ECC	.56151	INC	.7123	V1	29.701
RP	107.90	LAP	-.64	LOP	65.53	VP	33.649	GAP	-33.89	AZP	90.31	TAL	165.55	TAP	229.37	RCA	43.83	APO	156.10	V2	35.120
RC	62.721	GL	-1.22	GP	-5.10	ZAL	55.29	ZAP	21.91	ETS	163.82	ZAE	137.57	ETE	184.63	ZAC	19.38	ETC	90.88	CLP	21.33

PLANETOCENTRIC CONIC

C3 136.698 VHL 11.692 DLA -19.85 RAL 309.15 RAD 6570.5 VEL 16.063 PTH 2.83 VHP 19.991 DPA -29.10 RAP 266.05 ECC 3.2497

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 30 54	1996.33	-13.75	28.11	198.22	115.00	11 4 10	1396.3	-10.26	21.17
90.00	16 53 17	695.42	23.86	311.39	211.92	105.72	17 4 52	95.4	25.79	303.25
100.00	11 39 37	1774.56	-15.67	10.87	197.27	115.78	12 9 12	1174.6	-12.08	3.92
100.00	18 27 14	5680.47	25.91	267.64	212.55	105.45	20 1 55	5080.5	27.78	259.34
110.00	12 20 46	1645.63	-20.51	358.51	194.69	117.96	12 48 12	1045.6	-16.61	351.56
110.00	20 2 35	5382.16	31.15	246.60	214.16	104.84	21 32 18	4782.2	32.87	237.80

DIFFERENTIAL CORRECTIONS

TDE	-.5648	TRA	-2.0146	TC3	-.1803	BAU	.3300												
RDE	-.9003	RRA	.4098	RC3	-.0092	FAU	.01260												
FDE	.3082	FRA	.9486	FC3	-.0798	BSP	3370												
BDE	1.0628	BRA	2.0559	BC3	.1806	FSP	-111												

MID-COURSE EXECUTION ACCURACY

SGT	1164.6	SGR	490.6	SG3	47.5						
RRT	-.1627	RRF	.1591	RTF	-.7531						
SGB	1263.7	R23	-.0112	R13	.7539						
SG1	1167.9	SG2	482.7	THA	175.27						

ORBIT DETERMINATION ACCURACY

ST	419.4	SR	445.8	SS	365.7						
CRT	.5452	CRS	.6053	CST	.9957						
LSA	637.2	MSA	319.7	SSA	15.5						
EL1	538.5	EL2	291.1	ALF	48.20						

LAUNCH DATE SEP 25 1965 FLIGHT TIME 88.00 ARRIVAL DATE DEC 22 1965

HELIOCENTRIC CONIC DISTANCE 184.777

RL	150.02	LAL	-.00	LOL	1.72	VL	21.473	GAL	16.33	AZL	90.49	HCA	67.03	SMA	101.45	ECC	.53865	INC	.4895	V1	29.701
RP	107.87	LAP	-.45	LOP	68.75	VP	33.949	GAP	-32.41	AZP	90.19	TAL	164.87	TAP	231.90	RCA	46.80	APO	156.10	V2	35.132
RC	60.751	GL	-.90	GP	-5.31	ZAL	54.33	ZAP	20.61	ETS	162.36	ZAE	138.26	ETE	185.57	ZAC	19.80	ETC	96.09	CLP	19.94

PLANETOCENTRIC CONIC

C3 125.247 VHL 11.191 DLA -19.30 RAL 310.04 RAD 6570.3 VEL 15.703 PTH 2.79 VHP 19.216 DPA -29.45 RAP 268.11 ECC 3.0612

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 28 19	2002.34	-13.92	28.47	197.95	114.91	11 1 41	1402.3	-10.44	21.51
90.00	17 2 59	655.79	24.56	308.70	211.49	104.55	17 13 55	55.8	26.32	300.47
100.00	11 37 40	1778.52	-15.79	11.10	197.04	115.72	12 7 19	1178.5	-12.20	4.15
100.00	18 36 18	5642.89	26.57	265.04	212.06	104.23	20 10 21	5042.9	28.26	256.65
110.00	12 20 1	1645.81	-20.52	358.52	194.52	117.96	12 47 27	1045.8	-16.62	351.57
110.00	20 10 27	5348.36	31.71	244.12	213.52	103.48	21 39 35	4748.4	33.24	235.23

DIFFERENTIAL CORRECTIONS

TDE	-.5744	TRA	-2.0302	TC3	-.1882	BAU	.3158												
RDE	-.8552	RRA	.4102	RC3	-.0120	FAU	.01281												
FDE	.3284	FRA	.9831	FC3	-.0886	BSP	3576												
BDE	1.0303	BRA	2.0712	BC3	.1886	FSP	-122												

MID-COURSE EXECUTION ACCURACY

SGT	1215.2	SGR	491.9	SG3	51.3						
RRT	-.1756	RRF	.1725	RTF	-.7674						
SGB	1311.0	R23	-.0127	R13	.7682						
SG1	1218.9	SG2	482.8	THA	175.18						

ORBIT DETERMINATION ACCURACY

ST	442.5	SR	442.9	SS	385.5						
CRT	.5446	CRS	.6121	CST	.9951						
LSA	660.5	MSA	322.6	SSA	15.7						
EL1	550.2	EL2	298.8	ALF	45.05						

LAUNCH DATE SEP 25 1965 FLIGHT TIME 90.00 ARRIVAL DATE DEC 24 1965

HELIOCENTRIC CONIC DISTANCE 191.169

RL	150.02	LAL	-.00	LOL	1.72	VL	21.901	GAL	15.61	AZL	90.28	HCA	70.25	SMA	102.91	ECC	.51653	INC	.2770	V1	29.701
RP	107.83	LAP	-.26	LOP	71.97	VP	34.234	GAP	-30.99	AZP	90.09	TAL	164.21	TAP	234.46	RCA	49.75	APO	156.07	V2	35.144
RC	58.824	GL	-.55	GP	-5.53	ZAL	53.43	ZAP	19.34	ETS	160.67	ZAE	139.04	ETE	186.63	ZAC	20.40	ETC	101.07	CLP	18.56

PLANETOCENTRIC CONIC

C3 114.784 VHL 10.714 DLA -18.72 RAL 310.87 RAD 6570.2 VEL 15.366 PTH 2.75 VHP 18.465 DPA -29.80 RAP 270.20 ECC 2.8890

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 25 24	2008.19	-14.09	28.82	197.59	114.82	10 58 52	1408.2	-10.62	21.85
90.00	17 12 30	615.14	25.23	305.91	210.92	103.30	17 22 45	15.1	26.81	297.60
100.00	11 35 22	1782.37	-15.90	11.33	196.71	115.65	12 5 5	1182.4	-12.32	4.37
100.00	18 45 12	5604.23	27.19	262.33	211.43	102.93	20 18 37	5004.2	28.70	253.85
110.00	12 18 55	1645.92	-20.52	358.53	194.25	117.96	12 46 21	1045.9	-16.62	351.58
110.00	20 18 9	5313.45	32.24	241.53	212.71	102.03	21 46 42	4713.4	33.56	232.55

DIFFERENTIAL CORRECTIONS

TDE	-.5855	TRA	-2.0474	TC3	-.1966	BAU	.3026												
RDE	-.8106	RRA	.4100	RC3	-.0152	FAU	.01304												
FDE	.3498	FRA	1.0194	FC3	-.0983	BSP	3731												
BDE	.9999	BRA	2.0880	BC3	.1972	FSP	-133												

MID-COURSE EXECUTION ACCURACY

SGT	1269.6	SGR	492.5	SG3	55.4						
RRT	-.1890	RRF	.1871	RTF	-.7807						
SGB	1361.8	R23	-.0150	R13	.7816						
SG1	1273.6	SG2	482.1	THA	175.10						

ORBIT DETERMINATION ACCURACY

ST	467.4	SR	439.0	SS	406.3						
CRT	.5441	CRS	.6180	CST	.9945						
LSA	686.1	MSA	324.5	SSA	15.8						
EL1	563.9	EL2	305.3	ALF	41.71						

LAUNCH DATE SEP 25 1965 FLIGHT TIME 92.00 ARRIVAL DATE DEC 26 1965

HELIOCENTRIC CONIC DISTANCE 197.621

RL	150.02	LAL	-.00	LOL	1.72	VL	22.304	GAL	14.93	AZL	90.07	HCA	73.47	SMA	104.35	ECC	.49517	INC	.0713	V1	29.701
RP	107.80	LAP	-.07	LOP	75.19	VP	34.504	GAP	-29.63	AZP	90.02	TAL	163.58	TAP	237.05	RCA	52.68	APO	156.02	V2	35.155
RC	56.947	GL	-.15	GP	-5.78	ZAL	52.57	ZAP	18.10	ETS	158.68	ZAE	139.92	ETE	187.82	ZAC	21.17	ETC	105.74	CLP	17.19

PLANETOCENTRIC CONIC

C3 105.223 VHL 10.258 DLA -18.12 RAL 311.63 RAD 6570.0 VEL 15.052 PTH 2.71 VHP 17.738 DPA -30.13 RAP 272.32 ECC 2.7317

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 22 7	2013.99	-14.25	29.16	197.14	114.73	10 55 41	1414.0	-10.80	22.19
90.00	17 21 51	5861.47	25.85	280.92	210.19	101.98	18 59 32	5261.5	27.24	272.53
100.00	11 32 43	1786.22	-16.02	11.56	196.28	115.58	12 2 29	1186.2	-12.44	4.59
100.00	18 53 57	5564.47	27.76	259.52	210.64	101.56	20 26 41	4964.5	29.07	250.96
110.00	12 17 27	1646.06	-20.53	358.54	193.89	117.95	12 44 53	1046.1	-16.63	351.58
110.00	20 25 42	5277.40	32.72	238.83	211.75	100.50	21 53 39	4677.4	33.82	229.77

DIFFERENTIAL CORRECTIONS

TDE	-.5940	TRA	-2.0620	TC3	-.2039	BAU	.2881												
RDE	-.7665	RRA	.4094	RC3	-.0191	FAU	.01330												
FDE	.3719	FRA	1.0569	FC3	-.1095	BSP	3936												
BDE	.9697	BRA	2.1022	BC3	.2048	FSP	-145												

MID-COURSE EXECUTION ACCURACY

SGT	1324.2	SGR	492.6	SG3	59.8						
RRT	-.2041	RRF	.2032	RTF	-.7937						
SGB	1412.9	R23	-.0170	R13	.7946						
SG1	1328.6	SG2	480.7	THA	175.00						

ORBIT DETERMINATION ACCURACY

ST	492.3	SR	434.2	SS	427.8						
CRT	.5418	CRS	.6227	CST	.9938						
LSA	712.5	MSA	325.5	SSA	16.0						
EL1	578.2	EL2	310.7	ALF	38.45						

LAUNCH DATE SEP 25 1965 FLIGHT TIME 94.00 ARRIVAL DATE DEC 28 1965

DISTANCE 204.127

HELIOCENTRIC CONIC

RL 150.02 LAL -.00 LOL 1.72 VL 22.681 GAL 14.27 AZL 89.88 HCA 76.69 SMA 105.76 ECC .47459 INC .1237 V1 29.701
RP 107.76 LAP .12 LOP 78.42 VP 34.760 GAP -28.31 AZP 89.97 TAL 162.98 TAP 239.68 RCA 55.57 APO 155.96 V2 35.166
RC 55.125 GL .28 GP -6.05 ZAL 51.76 ZAP 16.91 ETS 156.33 ZAE 140.90 ETE 189.18 ZAC 22.09 ETC 110.07 CLP 15.82

PLANETOCENTRIC CONIC

C3 96.490 VHL 9.823 DLA -17.49 RAL 312.33 RAD 6569.9 VEL 14.759 PTH 2.67 VHP 17.034 DPA -30.47 RAP 274.45 ECC 2.5880

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 18 29	2019.87	-14.42	29.52	196.61	114.64	10 52 9	1419.9	-10.97	22.53
90.00	17 31 3	5818.66	26.42	277.91	209.31	100.58	19 8 1	5218.7	27.61	269.45
100.00	11 29 40	1790.19	-16.13	11.80	195.77	115.51	11 59 30	1190.2	-12.57	4.82
100.00	19 2 33	5523.57	28.28	256.59	209.69	100.10	20 34 37	4923.6	29.39	247.96
110.00	12 15 35	1646.32	-20.54	358.55	193.44	117.95	12 43 1	1046.3	-16.64	351.60
110.00	20 33 7	5240.21	33.15	236.01	210.64	98.88	22 0 27	4640.2	34.02	226.88

DIFFERENTIAL CORRECTIONS

TDE -.6014 TRA-2.0755 TC3 -.2106 BAU .2733
RDE -.7229 RRA .4084 RC3 -.0235 FAU .01360
FDE .3949 FRA 1.0961 FC3 -.1221 BSP 4156
BDE .9403 BRA 2.1153 BC3 .2119 FSP -159

MID-COURSE EXECUTION ACCURACY

SGT 1380.3 SGR 492.3 SG3 64.7
RRT -.2208 RRF .2210 RTF -.8060
SGB 1465.4 R23 -.0192 R13 .8069
SG1 1385.1 SG2 478.4 THA 174.89

ORBIT DETERMINATION ACCURACY

ST 517.9 SR 428.3 SS 450.2
CRT .5383 CRS .6264 CST .9930
LSA 740.2 MSA 325.7 SSA 16.1
EL1 593.7 EL2 314.8 ALF 35.23

LAUNCH DATE SEP 25 1965 FLIGHT TIME 96.00 ARRIVAL DATE DEC 30 1965

DISTANCE 210.684

HELIOCENTRIC CONIC

RL 150.02 LAL -.00 LOL 1.72 VL 23.035 GAL 13.64 AZL 89.68 HCA 79.92 SMA 107.14 ECC .45480 INC .3165 V1 29.701
RP 107.73 LAP .31 LOP 81.64 VP 35.002 GAP -27.05 AZP 89.94 TAL 162.41 TAP 242.34 RCA 58.42 APO 155.87 V2 35.176
RC 53.365 GL .75 GP -6.35 ZAL 51.01 ZAP 15.75 ETS 153.55 ZAE 141.99 ETE 190.72 ZAC 23.15 ETC 114.02 CLP 14.45

PLANETOCENTRIC CONIC

C3 88.516 VHL 9.408 DLA -16.82 RAL 312.96 RAD 6569.7 VEL 14.487 PTH 2.63 VHP 16.352 DPA -30.80 RAP 276.59 ECC 2.4568

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 14 26	2025.96	-14.59	29.88	195.98	114.54	10 48 12	1426.0	-11.16	22.88
90.00	17 40 6	5774.71	26.93	274.80	208.28	99.10	19 16 21	5174.7	27.91	266.27
100.00	11 26 12	1794.40	-16.26	12.05	195.18	115.44	11 56 7	1194.4	-12.70	5.07
100.00	19 11 2	5481.51	28.75	253.55	208.60	98.56	20 42 23	4881.5	29.63	244.86
110.00	12 13 19	1646.83	-20.55	358.58	192.90	117.94	12 40 45	1046.8	-16.65	351.63
110.00	20 40 25	5201.84	33.51	233.08	209.37	97.18	22 7 6	4601.8	34.14	223.89

DIFFERENTIAL CORRECTIONS

TDE -.6077 TRA-2.0881 TC3 -.2165 BAU .2584
RDE -.6799 RRA .4073 RC3 -.0287 FAU .01394
FDE .4192 FRA 1.1373 FC3 -.1363 BSP 4380
BDE .9119 BRA 2.1274 BC3 .2184 FSP -174

MID-COURSE EXECUTION ACCURACY

SGT 1438.0 SGR 491.4 SG3 69.9
RRT -.2392 RRF .2407 RTF -.8177
SGB 1519.6 R23 -.0217 R13 .8187
SG1 1443.4 SG2 475.4 THA 174.76

ORBIT DETERMINATION ACCURACY

ST 544.0 SR 421.3 SS 473.6
CRT .5335 CRS .6289 CST .9920
LSA 769.3 MSA 325.0 SSA 16.2
EL1 610.4 EL2 317.6 ALF 32.07

LAUNCH DATE SEP 25 1965 FLIGHT TIME 98.00 ARRIVAL DATE JAN 1 1966

DISTANCE 217.286

HELIOCENTRIC CONIC

RL 150.02 LAL -.00 LOL 1.72 VL 23.366 GAL 13.03 AZL 89.49 HCA 83.15 SMA 108.49 ECC .43580 INC .5056 V1 29.701
RP 107.70 LAP .50 LOP 84.87 VP 35.231 GAP -25.83 AZP 89.94 TAL 161.88 TAP 245.03 RCA 61.21 APO 155.77 V2 35.186
RC 51.675 GL 1.28 GP -6.67 ZAL 50.31 ZAP 14.66 ETS 150.24 ZAE 143.17 ETE 192.49 ZAC 24.34 ETC 117.60 CLP 13.08

PLANETOCENTRIC CONIC

C3 81.240 VHL 9.013 DLA -16.13 RAL 313.52 RAD 6569.6 VEL 14.233 PTH 2.59 VHP 15.691 DPA -31.13 RAP 278.76 ECC 2.3370

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 9 58	2032.45	-14.77	30.27	195.28	114.43	10 43 51	1432.4	-11.35	23.26
90.00	17 49 3	5729.59	27.38	271.57	207.11	97.54	19 24 33	5129.6	28.14	262.99
100.00	11 22 19	1799.02	-16.39	12.33	194.50	115.35	11 52 18	1199.0	-12.84	5.33
100.00	19 19 24	5438.25	29.15	250.39	207.37	96.95	20 50 2	4838.2	29.80	241.65
110.00	12 10 36	1647.74	-20.58	358.64	192.28	117.91	12 38 4	1047.7	-16.69	351.68
110.00	20 47 36	5162.30	33.81	230.03	207.96	95.40	22 13 38	4562.3	34.18	220.80

DIFFERENTIAL CORRECTIONS

TDE -.6138 TRA-2.0999 TC3 -.2216 BAU .2437
RDE -.6374 RRA .4062 RC3 -.0347 FAU .01431
FDE .4449 FRA 1.1806 FC3 -.1525 BSP 4602
BDE .8848 BRA 2.1388 BC3 .2243 FSP -191

MID-COURSE EXECUTION ACCURACY

SGT 1497.5 SGR 490.3 SG3 75.6
RRT -.2594 RRF .2625 RTF -.8287
SGB 1575.7 R23 -.0247 R13 .8298
SG1 1503.5 SG2 471.6 THA 174.61

ORBIT DETERMINATION ACCURACY

ST 571.1 SR 413.1 SS 498.1
CRT .5276 CRS .6304 CST .9911
LSA 800.0 MSA 323.4 SSA 16.3
EL1 628.6 EL2 318.8 ALF 29.01

LAUNCH DATE SEP 25 1965 FLIGHT TIME 100.00 ARRIVAL DATE JAN 3 1966

DISTANCE 223.929

HELIOCENTRIC CONIC

RL 150.02 LAL -.00 LOL 1.72 VL 23.676 GAL 12.44 AZL 89.31 HCA 86.38 SMA 109.80 ECC .41759 INC .6919 V1 29.701
RP 107.67 LAP .69 LOP 88.10 VP 35.447 GAP -24.66 AZP 89.96 TAL 161.38 TAP 247.76 RCA 63.95 APO 155.65 V2 35.196
RC 50.062 GL 1.85 GP -7.03 ZAL 49.66 ZAP 13.64 ETS 146.29 ZAE 144.44 ETE 194.53 ZAC 25.64 ETC 120.81 CLP 11.72

PLANETOCENTRIC CONIC

C3 74.604 VHL 8.637 DLA -15.39 RAL 314.01 RAD 6569.5 VEL 13.998 PTH 2.55 VHP 15.052 DPA -31.46 RAP 280.93 ECC 2.2278

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 5 3	2039.51	-14.97	30.69	194.50	114.32	10 39 2	1439.5	-11.56	23.67
90.00	17 57 55	5683.25	27.75	268.23	205.80	95.90	19 32 38	5083.2	28.27	259.60
100.00	11 17 58	1804.23	-16.54	12.64	193.74	115.26	11 48 2	1204.2	-13.01	5.64
100.00	19 27 41	5393.76	29.47	247.13	205.99	95.26	20 57 35	4793.8	29.89	238.35
110.00	12 7 27	1649.21	-20.63	358.73	191.59	117.88	12 34 57	1049.2	-16.74	351.76
110.00	20 54 41	5121.54	34.02	226.87	206.40	93.54	22 20 3	4521.5	34.14	217.62

DIFFERENTIAL CORRECTIONS

TDE -.6190 TRA-2.1106 TC3 -.2255 BAU .2287
RDE -.5955 RRA .4053 RC3 -.0416 FAU .01472
FDE .4722 FRA 1.2262 FC3 -.1708 BSP 4832
BDE .8589 BRA 2.1492 BC3 .2293 FSP -209

MID-COURSE EXECUTION ACCURACY

SGT 1558.6 SGR 488.8 SG3 81.8
RRT -.2819 RRF .2868 RTF -.8393
SGB 1633.4 R23 -.0280 R13 .8404
SG1 1565.3 SG2 467.0 THA 174.45

ORBIT DETERMINATION ACCURACY

ST 598.8 SR 403.8 SS 523.8
CRT .5202 CRS .6304 CST .9900
LSA 832.3 MSA 320.9 SSA 16.4
EL1 646.1 EL2 318.6 ALF 26.07

LAUNCH DATE SEP 25 1965 FLIGHT TIME 102.00 ARRIVAL DATE JAN 5 1966

HELIOCENTRIC CONIC DISTANCE 230.607

RL	150.02	LAL	-.00	LOL	1.72	VL	23.967	GAL	11.88	AZL	89.12	HCA	89.61	SMA	111.07	ECC	.40018	INC	.8770	VI	29.701
RP	107.64	LAP	.88	LOP	91.33	VP	35.651	GAP	-23.53	AZP	89.99	TAL	160.92	TAP	250.53	RCA	66.62	APO	155.52	V2	35.204
RC	48.537	GL	2.49	GP	-7.43	ZAL	49.07	ZAP	12.71	ETS	141.58	ZAE	145.79	ETE	196.90	ZAC	27.03	ETC	123.68	CLP	10.35

PLANETOCENTRIC CONIC

C3	68.559	VHL	8.280	DLA	-14.62	RAL	314.44	RAD	6569.3	VEL	13.781	PTH	2.52	VHP	14.433	DPA	-31.80	RAP	283.12	ECC	2.1283

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 59 38	2047.36	15.19	31.16	193.64	114.19	10 33 45	1447.4	-11.80	24.13
90.00	18 6 43	5635.63	28.03	264.77	204.35	94.19	19 40 39	5035.6	28.32	256.12
100.00	11 13 8	1810.23	-16.72	13.00	192.91	115.15	11 43 18	1210.2	-13.19	5.98
100.00	19 35 54	5347.99	29.71	243.75	204.48	93.49	21 5 2	4748.0	29.87	234.94
110.00	12 3 49	1651.43	-20.70	358.86	190.82	117.83	12 31 21	1051.4	-16.81	351.89
110.00	21 1 42	5079.55	34.15	223.59	204.71	91.61	22 26 22	4479.6	34.00	214.35

DIFFERENTIAL CORRECTIONS

TDE	-.6239	TRA	-2.1203	TC3	-.2282	BAU	.2140
RDE	-.5540	RRA	.4047	RC3	-.0496	FAU	.01517
FDE	.5014	FRA	1.2745	FC3	-.1915	BSP	5068
BDE	.8344	BRA	2.1585	BC3	.2335	FSP	-228

MID-COURSE EXECUTION ACCURACY

SGT	1621.2	SGR	487.3	SG3	88.6			
RRT	-.3067	RRF	.3137	RTF	-.8492			
SGB	1692.8	R23	-.0318	R13	.8505			
SG1	1628.6	SG2	461.7	THA	174.27			

ORBIT DETERMINATION ACCURACY

ST	627.2	SR	393.1	SS	551.0			
CRT	.5112	CRS	.6290	CST	.9889			
LSA	866.3	MSA	317.5	SSA	16.5			
EL1	669.0	EL2	316.7	ALF	23.27			

LAUNCH DATE SEP 25 1965 FLIGHT TIME 104.00 ARRIVAL DATE JAN 7 1966

HELIOCENTRIC CONIC DISTANCE 237.316

RL	150.02	LAL	-.00	LOL	1.72	VL	24.239	GAL	11.34	AZL	88.94	HCA	92.84	SMA	112.31	ECC	.38356	INC	1.0621	VI	29.701
RP	107.62	LAP	1.06	LOP	94.57	VP	35.842	GAP	-22.43	AZP	90.05	TAL	160.49	TAP	253.34	RCA	69.23	APO	155.38	V2	35.213
RC	47.108	GL	3.18	GP	-7.87	ZAL	48.54	ZAP	11.91	ETS	136.01	ZAE	147.21	ETE	199.66	ZAC	28.52	ETC	126.22	CLP	8.97

PLANETOCENTRIC CONIC

C3	63.058	VHL	7.941	DLA	-13.79	RAL	314.79	RAD	6569.2	VEL	13.580	PTH	2.48	VHP	13.835	DPA	-32.16	RAP	285.32	ECC	2.0378

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 53 41	2056.23	-15.44	31.70	192.73	114.04	10 27 58	1456.2	-12.06	24.65
90.00	18 15 29	5586.69	28.22	261.21	202.78	92.41	19 48 36	4986.7	28.26	252.54
100.00	11 7 46	1817.25	-16.92	13.42	192.02	115.02	11 38 3	1217.3	-13.41	6.39
100.00	19 44 6	5300.91	29.85	240.25	202.84	91.66	21 12 27	4700.9	29.76	231.45
110.00	11 59 41	1654.62	-20.80	359.05	189.99	117.76	12 27 16	1054.6	-16.92	352.07
110.00	21 8 40	5036.31	34.18	220.22	202.90	89.61	22 32 36	4436.3	33.75	211.00

DIFFERENTIAL CORRECTIONS

TDE	-.6282	TRA	-2.1289	TC3	-.2293	BAU	.1995
RDE	-.5130	RRA	.4046	RC3	-.0586	FAU	.01567
FDE	.5326	FRA	1.3257	FC3	-.2151	BSP	5304
BDE	.8110	BRA	2.1670	BC3	.2766	FSP	-250

MID-COURSE EXECUTION ACCURACY

SGT	1685.1	SGR	485.9	SG3	96.0			
RRT	-.3344	RRF	.3438	RTF	-.8587			
SGB	1753.8	R23	-.0362	R13	.8600			
SG1	1693.6	SG2	455.6	THA	174.06			

ORBIT DETERMINATION ACCURACY

ST	656.3	SR	381.0	SS	579.6			
CRT	.5000	CRS	.6257	CST	.9876			
LSA	901.8	MSA	313.4	SSA	16.6			
EL1	691.2	EL2	313.3	ALF	20.60			

LAUNCH DATE SEP 25 1965 FLIGHT TIME 106.00 ARRIVAL DATE JAN 9 1966

HELIOCENTRIC CONIC DISTANCE 244.052

RL	150.02	LAL	-.00	LOL	1.72	VL	24.493	GAL	10.83	AZL	88.75	HCA	96.08	SMA	113.50	ECC	.36772	INC	1.2483	VI	29.701
RP	107.60	LAP	1.24	LOP	97.80	VP	36.022	GAP	-21.38	AZP	90.13	TAL	160.11	TAP	256.19	RCA	71.76	APO	155.23	V2	35.220
RC	45.785	GL	3.94	GP	-8.36	ZAL	48.08	ZAP	11.27	ETS	129.50	ZAE	148.67	ETE	202.89	ZAC	30.08	ETC	128.47	CLP	7.59

PLANETOCENTRIC CONIC

C3	58.058	VHL	7.620	DLA	-12.92	RAL	315.07	RAD	6569.1	VEL	13.395	PTH	2.45	VHP	13.256	DPA	-32.53	RAP	287.53	ECC	1.9555

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 47 11	2066.39	-15.72	32.31	191.75	113.86	10 21 37	1466.4	-12.36	25.24
90.00	18 24 14	5536.37	28.31	257.53	201.08	90.57	19 56 31	4936.4	28.09	248.87
100.00	11 1 50	1825.54	-17.16	13.92	191.07	114.86	11 32 15	1225.5	-13.66	6.88
100.00	19 52 16	5252.46	29.89	236.65	201.09	89.77	21 19 49	4652.5	29.54	227.86
110.00	11 55 0	1658.99	-20.94	359.32	189.10	117.66	12 22 39	1059.0	-17.07	352.33
110.00	21 15 35	4991.77	34.11	216.74	200.97	87.55	22 38 47	4391.8	33.39	207.57

DIFFERENTIAL CORRECTIONS

TDE	-.6323	TRA	-2.1363	TC3	-.2285	BAU	.1853
RDE	-.4724	RRA	.4053	RC3	-.0690	FAU	.01621
FDE	.5665	FRA	1.3802	FC3	-.2418	BSP	5541
BDE	.7893	BRA	2.1744	BC3	.2387	FSP	-274

MID-COURSE EXECUTION ACCURACY

SGT	1750.3	SGR	484.8	SG3	104.1			
RRT	-.3651	RRF	.3773	RTF	-.8676			
SGB	1816.2	R23	-.0411	R13	.8690			
SG1	1759.8	SG2	448.9	THA	173.82			

ORBIT DETERMINATION ACCURACY

ST	686.0	SR	367.4	SS	609.9			
CRT	.4862	CRS	.6200	CST	.9863			
LSA	939.3	MSA	308.4	SSA	16.7			
EL1	714.6	EL2	308.2	ALF	18.07			

LAUNCH DATE SEP 25 1965 FLIGHT TIME 108.00 ARRIVAL DATE JAN 11 1966

HELIOCENTRIC CONIC DISTANCE 250.811

RL	150.02	LAL	-.00	LOL	1.72	VL	24.731	GAL	10.33	AZL	88.56	HCA	99.32	SMA	114.64	ECC	.35266	INC	1.4368	VI	29.701
RP	107.57	LAP	1.42	LOP	101.04	VP	36.191	GAP	-20.36	AZP	90.23	TAL	159.76	TAP	259.08	RCA	74.21	APO	155.07	V2	35.227
RC	44.580	GL	4.78	GP	-8.90	ZAL	47.68	ZAP	10.83	ETS	122.11	ZAE	150.14	ETE	206.67	ZAC	31.71	ETC	130.44	CLP	6.20

PLANETOCENTRIC CONIC

C3	53.523	VHL	7.316	DLA	-11.98	RAL	315.28	RAD	6568.9	VEL	13.224	PTH	2.42	VHP	12.698	DPA	-32.93	RAP	289.75	ECC	1.8809

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 40 3	2078.11	-16.04	33.02	190.72	113.65	10 14 41	1478.1	-12.71	25.93
90.00	18 33 2	5484.61	28.29	253.74	199.28	88.67	20 4 26	4884.6	27.80	245.11
100.00	10 55 17	1835.37	-17.44	14.52	190.07	114.67	11 25 53	1235.4	-13.97	7.45
100.00	20 0 29	5202.59	29.82	232.95	199.23	87.82	21 27 11	4602.6	29.20	224.20
110.00	11 49 45	1664.83	-21.12	359.67	188.15	117.52	12 17 29	1064.8	-17.27	352.66
110.00	21 22 31	4945.90	33.92	213.17	198.95	85.45	22 44 56	4345.9	32.91	204.08

DIFFERENTIAL CORRECTIONS

TDE	-.6389	TRA	-2.1450	TC3	-.2278	BAU	.1729
RDE	-.4320	RRA	.4071	RC3	-.0807	FAU	.01678
FDE	.6038	FRA	1.4388	FC3	-.2714	BSP	5719
BDE	.7712	BRA	2.1833	BC3	.2416	FSP	-299

MID-COURSE EXECUTION ACCURACY

SGT	1819.5	SGR	484.4	SG3	112.9			
RRT	-.3984	RRF	.4144	RTF	-.8757			
SGB	1882.9	R23	-.0476	R13	.8773			
SG1	1830.3	SG2	441.6	THA	173.57			

ORBIT DETERMINATION ACCURACY

ST	718.2	SR	352.2	SS	642.7			
CRT	.4702	CRS	.6114	CST	.9852			
LSA	980.4	MSA	302.4	SSA	16.8			
EL1	741.0	EL2	301.2	ALF	15.63			

LAUNCH DATE SEP 25 1965 FLIGHT TIME 110.00 ARRIVAL DATE JAN 13 1966

HELIOCENTRIC CONIC DISTANCE 257.588

RL	150.02	LAL	-.00	LOL	1.72	VL	24.952	GAL	9.86	AZL	88.37	HCA	102.55	SMA	115.74	ECC	.33835	INC	1.6289	VI	29.701
RP	107.55	LAP	1.59	LOP	104.28	VP	36.349	GAP	-19.37	AZP	90.35	TAL	159.45	TAP	262.01	RCA	76.58	APO	154.90	V2	35.234
RC	43.503	GL	5.71	GP	-9.50	ZAL	47.35	ZAP	10.63	ETS	114.01	ZAE	151.56	ETE	211.10	ZAC	33.41	ETC	132.16	CLP	4.79

PLANETOCENTRIC CONIC

C3 49.416 VHL 7.030 DLA -10.98 RAL 315.41 RAD 6568.8 VEL 13.068 PTH 2.38 VHP 12.158 DPA -33.36 RAP 291.97 ECC 1.8133

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 32 15	2091.72	-16.41	33.85	189.65	113.40	10 7 7	1491.7	-13.10	26.73
90.00	18 41 53	5431.33	28.14	249.85	197.39	86.73	20 12 25	4831.3	27.39	241.27
100.00	10 48 6	1847.05	-17.77	15.23	189.02	114.44	11 18 53	1247.0	-14:32	8.13
100.00	20 8 44	5151.23	29.63	229.14	197.28	85.82	21 34 35	4551.2	28.73	220.45
110.00	11 43 52	1672.39	-21.36	.13	187.17	117.34	12 11 44	1072.4	-17.53	353.10
110.00	21 29 27	4898.65	33.60	209.52	196.84	83.31	22 51 6	4298.7	32.31	200.52

DIFFERENTIAL CORRECTIONS

TDE -.6429 TRA-2.1502 TC3 -.2227 BAU .1597
RDE -.3917 RRA .4101 RC3 -.0941 FAU .01743
FDE .6439 FRA 1.5009 FC3 -.3053 BSP 5965
BDE .7528 BRA 2.1889 BC3 .2418 FSP -327

MID-COURSE EXECUTION ACCURACY

SGT 1886.7 SGR 485.1 SG3 122.6
RRT -.4360 RRF .4555 RTF -.8837
SGB 1948.1 R23 -.0541 R13 .8855
SGI 1899.2 SG2 433.7 THA 173.25

ORBIT DETERMINATION ACCURACY

ST 749.3 SR 335.2 SS 677.0
CRT .4484 CRS .5986 CST .9838
LSA 1022.0 MSA 295.9 SSA 16.9
EL1 766.9 EL2 292.8 ALF 13.32

LAUNCH DATE SEP 25 1965 FLIGHT TIME 112.00 ARRIVAL DATE JAN 15 1966

HELIOCENTRIC CONIC DISTANCE 264.380

RL	150.02	LAL	-.00	LOL	1.72	VL	25.159	GAL	9.41	AZL	88.17	HCA	105.79	SMA	116.80	ECC	.32478	INC	1.8260	VI	29.701
RP	107.54	LAP	1.76	LOP	107.52	VP	36.497	GAP	-18.42	AZP	90.50	TAL	159.19	TAP	264.98	RCA	78.86	APO	154.73	V2	35.239
RC	42.563	GL	6.72	GP	-10.17	ZAL	47.09	ZAP	10.71	ETS	105.58	ZAE	152.87	ETE	216.26	ZAC	35.16	ETC	133.66	CLP	3.37

PLANETOCENTRIC CONIC

C3 45.708 VHL 6.761 DLA -9.91 RAL 315.47 RAD 6568.7 VEL 12.926 PTH 2.36 VHP 11.639 DPA -33.83 RAP 294.20 ECC 1.7522

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 23 44	2107.56	-16.84	34.82	188.55	113.11	9 58 52	1507.6	-13.56	27.67
90.00	18 50 51	5376.43	27.86	245.86	195.42	84.74	20 20 28	4776.4	26.84	237.34
100.00	10 40 11	1860.91	-18.16	16.08	187.94	114.16	11 11 12	1260.9	-14.74	8.95
100.00	20 17 5	5098.31	29.30	225.24	195.25	83.80	21 42 4	4498.3	28.13	216.63
110.00	11 37 19	1682.02	-21.66	.71	186.16	117.11	12 5 21	1082.0	-17.85	353.65
110.00	21 36 27	4849.97	33.15	205.79	194.66	81.14	22 57 17	4250.0	31.57	196.92

DIFFERENTIAL CORRECTIONS

TDE -.6471 TRA-2.1541 TC3 -.2152 BAU .1475
RDE -.3513 RRA .4147 RC3 -.1092 FAU .01813
FDE .6879 FRA 1.5673 FC3 -.3434 BSP 6206
BDE .7363 BRA 2.1937 BC3 .2413 FSP -358

MID-COURSE EXECUTION ACCURACY

SGT 1954.4 SGR 487.6 SG3 133.1
RRT -.4774 RRF .5006 RTF -.8912
SGB 2014.3 R23 -.0615 R13 .8932
SGI 1968.9 SG2 425.3 THA 172.87

ORBIT DETERMINATION ACCURACY

ST 781.0 SR 316.4 SS 713.7
CRT .4201 CRS .5799 CST .9823
LSA 1065.7 MSA 288.7 SSA 16.9
EL1 793.9 EL2 282.5 ALF 11.08

LAUNCH DATE SEP 25 1965 FLIGHT TIME 114.00 ARRIVAL DATE JAN 17 1966

HELIOCENTRIC CONIC DISTANCE 271.184

RL	150.02	LAL	-.00	LOL	1.72	VL	25.352	GAL	8.98	AZL	87.97	HCA	109.03	SMA	117.81	ECC	.31194	INC	2.0296	VI	29.701
RP	107.52	LAP	1.92	LOP	110.76	VP	36.635	GAP	-17.49	AZP	90.66	TAL	158.96	TAP	267.99	RCA	81.06	APO	154.56	V2	35.244
RC	41.769	GL	7.83	GP	-10.92	ZAL	46.92	ZAP	11.09	ETS	97.27	ZAE	153.98	ETE	222.20	ZAC	36.98	ETC	134.94	CLP	1.93

PLANETOCENTRIC CONIC

C3 42.370 VHL 6.509 DLA -8.75 RAL 315.45 RAD 6568.6 VEL 12.796 PTH 2.33 VHP 11.139 DPA -34.35 RAP 296.44 ECC 1.6973

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 14 26	2126.02	-17.33	35.95	187.43	112.75	9 49 52	1526.0	-14.09	28.76
90.00	18 59 59	5319.81	27.44	241.77	193.38	82.74	20 28 39	4719.8	26.15	233.34
100.00	10 31 31	1877.34	-18.61	17.08	186.84	113.82	11 2 48	1277.3	-15.24	9.92
100.00	20 25 35	5043.72	28.83	221.25	193.17	81.75	21 49 39	4443.7	27.39	212.74
110.00	11 30 3	1694.04	-22.03	1.45	185.12	116.82	11 58 17	1094.0	-18.25	354.35
110.00	21 43 32	4799.78	32.56	201.99	192.43	78.97	23 3 32	4199.8	30.70	193.27

DIFFERENTIAL CORRECTIONS

TDE -.6499 TRA-2.1547 TC3 -.2024 BAU .1352
RDE -.3107 RRA .4213 RC3 -.1264 FAU .01893
FDE .7359 FRA 1.6376 FC3 -.3868 BSP 6512
BDE .7204 BRA 2.1955 BC3 .2386 FSP -394

MID-COURSE EXECUTION ACCURACY

SGT 2019.7 SGR 492.6 SG3 144.6
RRT -.5228 RRF .5494 RTF -.8985
SGB 2078.9 R23 -.0690 R13 .9007
SGI 2036.8 SG2 416.4 THA 172.41

ORBIT DETERMINATION ACCURACY

ST 811.7 SR 295.8 SS 752.5
CRT .3820 CRS .5528 CST .9807
LSA 1110.5 MSA 281.2 SSA 16.9
EL1 820.5 EL2 270.4 ALF 8.90

LAUNCH DATE SEP 25 1965 FLIGHT TIME 116.00 ARRIVAL DATE JAN 19 1966

HELIOCENTRIC CONIC DISTANCE 277.995

RL	150.02	LAL	-.00	LOL	1.72	VL	25.532	GAL	8.57	AZL	87.76	HCA	112.27	SMA	118.77	ECC	.29982	INC	2.2413	VI	29.701
RP	107.51	LAP	2.07	LOP	114.01	VP	36.763	GAP	-16.60	AZP	90.85	TAL	158.77	TAP	271.04	RCA	83.16	APO	154.38	V2	35.249
RC	41.131	GL	9.05	GP	-11.77	ZAL	46.83	ZAP	11.78	ETS	89.54	ZAE	154.82	ETE	228.90	ZAC	38.84	ETC	136.03	CLP	.47

PLANETOCENTRIC CONIC

C3 39.379 VHL 6.275 DLA -7.51 RAL 315.34 RAD 6568.5 VEL 12.679 PTH 2.30 VHP 10.659 DPA -34.94 RAP 298.69 ECC 1.6481

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 4 16	2147.52	-17.89	37.28	186.30	112.32	9 40 3	1547.5	-14.70	30.05
90.00	19 9 19	5261.35	26.87	237.59	191.29	80.71	20 37 1	4661.3	25.31	229.27
100.00	10 22 0	1896.74	-19.14	18.28	185.74	113.41	10 53 37	1296.7	-15.81	11.07
100.00	20 34 16	4987.36	28.21	217.18	191.03	79.69	21 57 24	4387.4	26.50	208.79
110.00	11 22 0	1708.85	-22.48	2.36	184.08	116.45	11 50 29	1108.9	-18.75	355.22
110.00	21 50 45	4748.01	31.82	198.14	190.17	76.80	23 9 53	4148.0	29.68	189.58

DIFFERENTIAL CORRECTIONS

TDE -.6545 TRA-2.1560 TC3 -.1882 BAU .1253
RDE -.2692 RRA .4304 RC3 -.1457 FAU .01976
FDE .7901 FRA 1.7139 FC3 -.4343 BSP 6760
BDE .7077 BRA 2.1986 BC3 .2380 FSP -431

MID-COURSE EXECUTION ACCURACY

SGT 2086.9 SGR 501.0 SG3 157.2
RRT -.5710 RRF .6013 RTF -.9052
SGB 2146.2 R23 -.0779 R13 .9077
SGI 2107.2 SG2 407.3 THA 171.89

ORBIT DETERMINATION ACCURACY

ST 843.8 SR 273.1 SS 794.8
CRT .3302 CRS .5130 CST .9791
LSA 1159.0 MSA 273.2 SSA 16.9
EL1 849.1 EL2 256.2 ALF 6.71

LAUNCH DATE SEP 25 1965 FLIGHT TIME 118.00 ARRIVAL DATE JAN 21 1966

HELIOCENTRIC CONIC DISTANCE 284.811

RL	150.02	LAL	-.00	LOL	1.72	VL	25.699	GAL	8.18	AZL	87.54	HCA	115.51	SMA	119.69	ECC	.28839	INC	2.4632
RP	107.50	LAP	2.22	LOP	117.25	VP	36.883	GAP	-15.74	AZP	91.06	TAL	158.63	TAP	274.14	RCA	85.17	APO	154.20
RC	40.657	GL	10.39	GP	-12.72	ZAL	46.84	ZAP	12.76	ETS	82.68	ZAE	155.28	ETE	236.22	ZAC	40.77	ETC	136.94

VI	29.701	V2	35.252	CLP	-1.02														

PLANETOCENTRIC CONIC

C3	36.713	VHL	6.059	DLA	-6.16	RAL	315.16	RAD	6568.4	VEL	12.573	PTH	2.28	VHP	10.198	DPA	-35.62	RAP	300.96

ECC	1.6042																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 53 9	2172.54	-18.53	38.84	185.17	111.81	9 29 22	1572.5	-15.40	31.55
90.00	19 18 57	5200.90	26.14	233.32	189.18	78.69	20 45 38	4600.9	24.31	225.12
100.00	10 11 34	1919.57	-19.75	19.70	184.64	112.90	10 43 34	1319.6	-16.48	12.44
100.00	20 43 13	4929.10	27.43	213.02	188.88	77.63	22 5 22	4329.1	25.45	204.78
110.00	11 13 7	1726.87	-23.03	3.48	183.04	115.99	11 41 54	1126.9	-19.34	356.28
110.00	21 58 9	4694.56	30.92	194.23	187.89	74.65	23 16 24	4094.6	28.51	185.86

DIFFERENTIAL CORRECTIONS								MID-COURSE EXECUTION ACCURACY								ORBIT DETERMINATION ACCURACY							
TDE	-.6626	TRA	-2.1570	TC3	-.1717	BAU	.1177	SGT	2155.1	SGR	514.0	SG3	170.9	ST	878.3	SR	248.8	SS	840.4
RDE	-.2266	RRA	.4426	RC3	-.1673	FAU	.02064	RRT	-.6203	RRF	.6552	RTF	-.9114	CRT	.2589	CRS	.4532	CST	.9779
FDE	.8506	FRA	1.7956	FC3	-.4867	BSP	7000	SGB	2215.6	R23	-.0890	R13	.9143	LSA	1212.2	MSA	264.4	SSA	16.8
BDE	.7002	BRA	2.2019	BC3	.2397	FSP	-472	SG1	2179.4	SG2	398.7	THA	171.29	EL1	880.8	EL2	239.7	ALF	4.53

LAUNCH DATE SEP 25 1965 FLIGHT TIME 120.00 ARRIVAL DATE JAN 23 1966

HELIOCENTRIC CONIC DISTANCE 291.629

RL	150.02	LAL	-.00	LOL	1.72	VL	25.854	GAL	7.80	AZL	87.30	HCA	118.75	SMA	120.56	ECC	.27763	INC	2.6973
RP	107.49	LAP	2.36	LOP	120.50	VP	36.994	GAP	-14.90	AZP	91.30	TAL	158.52	TAP	277.27	RCA	87.09	APO	154.03
RC	40.351	GL	11.87	GP	-13.80	ZAL	46.96	ZAP	14.03	ETS	76.85	ZAE	155.28	ETE	243.91	ZAC	42.76	ETC	137.68

VI	29.701	V2	35.255	CLP	-2.54														

PLANETOCENTRIC CONIC

C3	34.354	VHL	5.861	DLA	-4.71	RAL	314.88	RAD	6568.4	VEL	12.479	PTH	2.26	VHP	9.759	DPA	-36.39	RAP	303.24

ECC	1.5654																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 41 0	2201.60	-19.25	40.66	184.08	111.18	9 17 42	1601.6	-16.20	33.31
90.00	19 28 55	5138.28	25.23	228.96	187.06	76.69	20 54 33	4538.3	23.14	220.90
100.00	10 0 8	1946.34	-20.45	21.38	183.57	112.29	10 32 35	1346.3	-17.25	14.05
100.00	20 52 28	4868.78	26.48	208.79	186.72	75.60	22 13 37	4268.8	24.24	200.71
110.00	11 3 19	1748.57	-23.67	4.84	182.03	115.42	11 32 27	1148.6	-20.05	357.57
110.00	22 5 47	4639.31	29.86	190.28	185.62	72.53	23 23 7	4039.3	27.18	182.11

DIFFERENTIAL CORRECTIONS								MID-COURSE EXECUTION ACCURACY								ORBIT DETERMINATION ACCURACY							
TDE	-.6712	TRA	-2.1568	TC3	-.1518	BAU	.1122	SGT	2222.0	SGR	533.2	SG3	185.8	ST	912.8	SR	223.6	SS	889.8
RDE	-.1823	RRA	.4585	RC3	-.1913	FAU	.02158	RRT	-.6706	RRF	.7096	RTF	-.9173	CRT	.1535	CRS	.3607	CST	.9765
FDE	.9185	FRA	1.8830	FC3	-.5438	BSP	7244	SGB	2285.0	R23	-.1009	R13	.9206	LSA	1268.6	MSA	255.8	SSA	16.7
BDE	.6955	BRA	2.2049	BC3	.2442	FSP	-517	SG1	2251.5	SG2	390.3	THA	170.57	EL1	913.5	EL2	220.8	ALF	2.29

LAUNCH DATE SEP 25 1965 FLIGHT TIME 122.00 ARRIVAL DATE JAN 25 1966

HELIOCENTRIC CONIC DISTANCE 298.445

RL	150.02	LAL	-.00	LOL	1.72	VL	25.998	GAL	7.45	AZL	87.05	HCA	121.99	SMA	121.38	ECC	.26752	INC	2.9466
RP	107.48	LAP	2.50	LOP	123.75	VP	37.097	GAP	-14.09	AZP	91.56	TAL	158.45	TAP	280.44	RCA	88.31	APO	153.85
RC	40.219	GL	13.49	GP	-15.03	ZAL	47.19	ZAP	15.56	ETS	72.02	ZAE	154.76	ETE	251.59	ZAC	44.81	ETC	138.26

VI	29.701	V2	35.257	CLP	-4.08														

PLANETOCENTRIC CONIC

C3	32.289	VHL	5.682	DLA	-3.13	RAL	314.52	RAD	6568.3	VEL	12.396	PTH	2.24	VHP	9.341	DPA	-37.28	RAP	305.55

ECC	1.5314																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 27 43	2235.33	-20.07	42.80	183.02	110.41	9 4 58	1635.3	-17.11	35.37
90.00	19 39 20	5073.30	24.13	224.51	184.95	74.72	21 3 53	4473.3	21.80	216.61
100.00	9 47 36	1977.64	-21.25	23.37	182.54	111.53	10 20 33	1377.6	-18.14	15.95
100.00	21 2 8	4806.22	25.35	204.49	184.57	73.60	22 22 14	4206.2	22.86	196.57
110.00	10 52 30	1774.48	-24.41	6.48	181.07	114.70	11 22 4	1174.5	-20.87	359.12
110.00	22 13 44	4582.14	28.62	186.29	183.38	70.46	23 30 6	3982.1	25.69	178.33

DIFFERENTIAL CORRECTIONS								MID-COURSE EXECUTION ACCURACY								ORBIT DETERMINATION ACCURACY							
TDE	-.6825	TRA	-2.1560	TC3	-.1288	BAU	.1093	SGT	2288.0	SGR	560.2	SG3	201.9	ST	948.8	SR	199.3	SS	943.3
RDE	-.1354	RRA	.4787	RC3	-.2181	FAU	.02256	RRT	-.7196	RRF	.7625	RTF	-.9228	CRT	-.0041	CRS	.2146	CST	.9753
FDE	.9953	FRA	1.9763	FC3	-.6050	BSP	7483	SGB	2355.6	R23	-.1141	R13	.9266	LSA	1329.8	MSA	247.1	SSA	16.5
BDE	.6958	BRA	2.2085	BC3	.2533	FSP	-566	SG1	2324.3	SG2	382.9	THA	169.73	EL1	948.8	EL2	199.3	ALF	179.95

LAUNCH DATE SEP 25 1965 FLIGHT TIME 124.00 ARRIVAL DATE JAN 27 1966

HELIOCENTRIC CONIC DISTANCE 305.257

RL	150.02	LAL	-.00	LOL	1.72	VL	26.131	GAL	7.12	AZL	86.79	HCA	125.23	SMA	122.16	ECC	.25805	INC	3.2141
RP	107.48	LAP	2.62	LOP	126.99	VP	37.191	GAP	-13.30	AZP	91.86	TAL	158.42	TAP	283.65	RCA	90.63	APO	153.68
RC	40.263	GL	15.26	GP	-16.43	ZAL	47.55	ZAP	17.35	ETS	68.14	ZAE	153.71	ETE	258.87	ZAC	46.93	ETC	138.68

VI	29.701	V2	35.259	CLP	-5.67														

PLANETOCENTRIC CONIC

C3	30.507	VHL	5.523	DLA	-1.41	RAL	314.07	RAD	6568.2	VEL	12.324	PTH	2.22	VHP	8.946	DPA	-38.32	RAP	307.90

ECC	1.5021																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 13 8	2274.39	-20.97	45.31	182.04	109.47	8 51 2	1674.4	-18.13	37.79
90.00	19 50 18	5005.69	22.84	219.97	182.88	72.80	21 13 43	4405.7	20.28	212.24
100.00	9 33 49	2014.11	-22.14	25.71	181.58	110.61	10 7 23	1414.1	-19.14	18.20
100.00	21 12 18	4741.20	24.03	200.11	182.47	71.66	22 31 19	4141.2	21.30	192.38
110.00	10 40 34	1805.19	-25.27	8.45	180.18	113.82	11 10 39	1205.2	-21.84	.99
110.00	22 22 2	4522.89	27.21	182.26	181.19	68.46	23 37 25	3922.9	24.04	174.53

DIFFERENTIAL CORRECTIONS								MID-COURSE EXECUTION ACCURACY								ORBIT DETERMINATION ACCURACY							
TDE	-.6961	TRA	-2.1541	TC3	-.1026	BAU	.1093	SGT	2351.7	SGR	597.1	SG3	219.3	ST	985.4	SR	180.2	SS	1001.2
RDE	-.0849	RRA	.5044	RC3	-.2476	FAU	.02358	RRT	-.7659	RRF	.8118	RTF	-.9280	CRT	-.2347	CRS	-.0118	CST	.9743
FDE	1.0822	FRA	2.0752	FC3	-.6692	BSP	7728	SGB	2426.3	R23	-.1279	R13	.9325	LSA	1395.9	MSA	238.9	SSA	16.2
BDE	.7012	BRA	2.2124	BC3	.2680	FSP	-619	SG1	2396.9	SG2	376.7	THA	168.71	EL1	986.3	EL2	175.0	ALF	177.46

LAUNCH DATE SEP 25 1965 FLIGHT TIME 126.00 ARRIVAL DATE JAN 29 1966

HELIOCENTRIC CONIC DISTANCE 312.064

RL 150.02 LAL -.00 LOL 1.72 VL 26.255 GAL 6.80 AZL 86.50 HCA 128.47 SMA 122.89 ECC .24920 INC 3.5039 V1 29.701
RP 107.48 LAP 2.74 LOP 130.24 VP 37.279 GAP -12.54 AZP 92.18 TAL 158.42 TAP 286.89 RCA 92.27 APO 153.51 V2 35.259
RC 40.482 GL 17.21 GP -18.03 ZAL 48.06 ZAP 19.40 ETS 65.07 ZAE 152.14 ETE 265.44 ZAC 49.15 ETC 138.96 CLP -7.29

PLANETOCENTRIC CONIC

C3 29.005 VHL 5.386 DLA .46 RAL 313.52 RAD 6568.2 VEL 12.263 PTH 2.21 VHP 8.575 DPA -39.53 RAP 310.31 ECC 1.4774

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 57 6	2319.61	-21.97	48.25	181.15	108.33	8 35 46	1719.6	-19.26	40.62
90.00	20 1 56	4935.17	21.35	215.34	180.88	70.94	21 24 12	4335.2	18.55	207.79
100.00	9 18 39	2056.54	-23.13	28.47	180.72	109.48	9 52 56	1456.5	-20.26	20.85
100.00	21 23 4	4673.47	22.51	195.66	180.43	69.79	22 40 58	4073.5	19.55	188.11
110.00	10 27 24	1841.39	-26.25	10.82	179.39	112.73	10 58 5	1241.4	-22.94	3.22
110.00	22 30 49	4461.39	25.60	178.20	179.07	66.54	23 45 11	3861.4	22.21	170.69

DIFFERENTIAL CORRECTIONS

TDE -.7136 TRA-2.1518 TC3 -.0745 BAU .1122
RDE -.0295 RRA .5366 RC3 -.2797 FAU .02460
FDE 1.1810 FRA 2.1791 FC3 -.7341 BSP 7967
BDE .7142 BRA 2.2177 BC3 .2894 FSP -675

MID-COURSE EXECUTION ACCURACY

SGT 2413.2 SGR 646.3 SG3 237.9
RRT -.8072 RRF .8556 RTF -.9329
SGB 2498.2 R23 -.1425 R13 .9382
SG1 2470.3 SG2 372.6 THA 167.51

ORBIT DETERMINATION ACCURACY

ST 1023.7 SR 174.4 SS 1064.1
CRT -.5252 CRS -.3189 CST .9735
LSA 1468.6 MSA 231.3 SSA 15.7
ELI 1027.9 EL2 147.8 ALF 174.78

LAUNCH DATE SEP 25 1965 FLIGHT TIME 128.00 ARRIVAL DATE JAN 31 1966

HELIOCENTRIC CONIC DISTANCE 318.861

RL 150.02 LAL -.00 LOL 1.72 VL 26.369 GAL 6.51 AZL 86.18 HCA 131.71 SMA 123.58 ECC .24094 INC 3.8211 V1 29.701
RP 107.48 LAP 2.85 LOP 133.49 VP 37.359 GAP -11.80 AZP 92.54 TAL 158.45 TAP 290.16 RCA 93.80 APO 153.35 V2 35.259
RC 40.875 GL 19.34 GP -19.87 ZAL 48.72 ZAP 21.72 ETS 62.69 ZAE 150.10 ETE 271.10 ZAC 51.46 ETC 139.10 CLP -8.95

PLANETOCENTRIC CONIC

C3 27.784 VHL 5.271 DLA 2.49 RAL 312.87 RAD 6568.1 VEL 12.213 PTH 2.19 VHP 8.231 DPA -40.95 RAP 312.80 ECC 1.4572

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 39 25	2371.94	-23.05	51.70	180.39	106.92	8 18 57	1771.9	-20.52	43.95
90.00	20 14 26	4861.36	19.64	210.61	178.97	69.18	21 35 27	4261.4	16.63	203.22
100.00	9 1 55	2105.82	-24.21	31.73	179.99	108.09	9 37 1	1505.8	-21.51	23.98
100.00	21 34 37	4602.71	20.77	191.12	178.49	68.01	22 51 19	4002.7	17.60	183.75
110.00	10 12 50	1883.88	-27.33	13.64	178.75	111.38	10 44 14	1283.9	-24.18	5.89
110.00	22 40 12	4397.42	23.81	174.10	177.06	64.71	23 53 29	3797.4	20.20	166.81

DIFFERENTIAL CORRECTIONS

TDE -.7327 TRA-2.1462 TC3 -.0404 BAU .1179
RDE .0322 RRA .5763 RC3 -.3147 FAU .02566
FDE 1.2915 FRA 2.2850 FC3 -.7997 BSP 8270
BDE .7334 BRA 2.2222 BC3 .3173 FSP -738

MID-COURSE EXECUTION ACCURACY

SGT 2467.6 SGR 710.3 SG3 257.2
RRT -.8433 RRF .8928 RTF -.9376
SGB 2567.8 R23 -.1560 R13 .9439
SG1 2540.9 SG2 370.7 THA 166.05

ORBIT DETERMINATION ACCURACY

ST 1060.7 SR 191.6 SS 1130.7
CRT -.7857 CRS -.6228 CST .9728
LSA 1545.7 MSA 225.2 SSA 15.0
ELI 1071.4 EL2 117.4 ALF 171.82

LAUNCH DATE SEP 25 1965 FLIGHT TIME 130.00 ARRIVAL DATE FEB 2 1966

HELIOCENTRIC CONIC DISTANCE 325.647

RL 150.02 LAL -.00 LOL 1.72 VL 26.474 GAL 6.23 AZL 85.83 HCA 134.95 SMA 124.22 ECC .23325 INC 4.1719 V1 29.701
RP 107.48 LAP 2.95 LOP 136.74 VP 37.433 GAP -11.08 AZP 92.95 TAL 158.52 TAP 293.46 RCA 95.25 APO 153.19 V2 35.258
RC 41.437 GL 21.68 GP -21.98 ZAL 49.56 ZAP 24.31 ETS 60.90 ZAE 147.63 ETE 275.78 ZAC 53.91 ETC 139.11 CLP -10.66

PLANETOCENTRIC CONIC

C3 26.853 VHL 5.182 DLA 4.71 RAL 312.11 RAD 6568.1 VEL 12.175 PTH 2.18 VHP 7.918 DPA -42.61 RAP 315.40 ECC 1.4419

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 19 48	2432.55	-24.19	55.78	179.80	105.18	8 0 21	1832.6	-21.87	47.87
90.00	20 27 59	4783.81	17.69	205.75	177.19	67.52	21 47 43	4183.8	14.49	198.54
100.00	8 43 22	2163.04	-25.37	35.59	179.43	106.37	9 19 25	1563.0	-22.88	27.68
100.00	21 47 7	4528.55	18.81	186.48	176.68	66.33	23 2 35	3928.5	15.45	179.30
110.00	9 56 41	1933.58	-28.52	17.02	178.28	109.70	10 28 54	1333.6	-25.57	9.09
110.00	22 50 17	4330.78	21.81	169.96	175.17	63.00	24 2 28	3730.8	18.01	162.88

DIFFERENTIAL CORRECTIONS

TDE -.7609 TRA-2.1442 TC3 -.0110 BAU .1261
RDE .1035 RRA .6259 RC3 -.3511 FAU .02655
FDE 1.4188 FRA 2.3941 FC3 -.8558 BSP 8499
BDE .7679 BRA 2.2337 BC3 .3513 FSP -799

MID-COURSE EXECUTION ACCURACY

SGT 2523.2 SGR 792.3 SG3 277.3
RRT -.8724 RRF .9228 RTF -.9418
SGB 2644.6 R23 -.1692 R13 .9494
SG1 2618.2 SG2 373.3 THA 164.36

ORBIT DETERMINATION ACCURACY

ST 1103.2 SR 237.9 SS 1203.8
CRT -.9331 CRS -.8259 CST .9727
LSA 1635.3 MSA 219.9 SSA 14.2
ELI 1125.4 EL2 83.8 ALF 168.56

LAUNCH DATE SEP 25 1965 FLIGHT TIME 132.00 ARRIVAL DATE FEB 4 1966

HELIOCENTRIC CONIC DISTANCE 332.421

RL 150.02 LAL -.00 LOL 1.72 VL 26.571 GAL 5.96 AZL 85.44 HCA 138.19 SMA 124.82 ECC .22611 INC 4.5646 V1 29.701
RP 107.49 LAP 3.04 LOP 140.00 VP 37.500 GAP -10.38 AZP 93.41 TAL 158.60 TAP 296.79 RCA 96.60 APO 153.04 V2 35.256
RC 42.162 GL 24.24 GP -24.43 ZAL 50.60 ZAP 27.22 ETS 59.61 ZAE 144.76 ETE 279.52 ZAC 56.51 ETC 138.99 CLP -12.40

PLANETOCENTRIC CONIC

C3 26.236 VHL 5.122 DLA 7.12 RAL 311.23 RAD 6568.1 VEL 12.150 PTH 2.18 VHP 7.840 DPA -44.57 RAP 318.18 ECC 1.4318

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 57 55	2502.91	-25.36	60.60	179.43	103.04	7 39 38	1902.9	-23.31	52.53
90.00	20 42 54	4701.91	15.48	200.75	175.58	65.99	22 1 16	4101.9	12.11	193.70
100.00	8 22 40	2229.56	-26.56	40.17	179.10	104.24	8 59 49	1629.6	-24.34	32.08
100.00	22 0 50	4450.49	16.61	181.73	175.04	64.78	23 15 0	3850.5	13.08	174.72
110.00	9 38 42	1991.62	-29.78	21.06	178.06	107.61	10 11 53	1391.6	-27.09	12.91
110.00	23 1 17	4261.20	19.60	165.77	173.45	61.42	24 12 18	3661.2	15.63	158.90

DIFFERENTIAL CORRECTIONS

TDE -.7957 TRA-2.1419 TC3 .0180 BAU .1364
RDE .1871 RRA .6867 RC3 -.3886 FAU .02728
FDE 1.5617 FRA 2.5001 FC3 -.9000 BSP 8746
BDE .8174 BRA 2.2493 BC3 .3890 FSP -861

MID-COURSE EXECUTION ACCURACY

SGT 2573.5 SGR 895.3 SG3 297.4
RRT -.8953 RRF .9459 RTF -.9458
SGB 2724.8 R23 -.1797 R13 .9548
SG1 2698.1 SG2 380.3 THA 162.34

ORBIT DETERMINATION ACCURACY

ST 1147.6 SR 312.9 SS 1281.2
CRT -.9874 CRS -.9260 CST .9730
LSA 1734.8 MSA 216.1 SSA 13.2
ELI 1188.5 EL2 47.7 ALF 164.91

LAUNCH DATE SEP 25 1965 FLIGHT TIME 134.00 ARRIVAL DATE FEB 6 1966

HELIOCENTRIC CONIC DISTANCE 339.180

RL	150.02	LAL	-.00	LOL	1.72	VL	26.660	GAL	5.72	AZL	84.99	HCA	141.42	SMA	125.38	ECC	.21951	INC	5.0103	VI	29.701
RP	107.49	LAP	3.12	LOP	143.25	VP	37.560	GAP	-9.70	AZP	93.92	TAL	158.71	TAP	300.13	RCA	97.86	APO	152.90	V2	35.254
RC	43.042	GL	27.04	GP	-27.25	ZAL	51.86	ZAP	30.47	ETS	58.71	ZAE	141.52	ETE	282.40	ZAC	59.30	ETC	138.78	CLP	-14.19

PLANETOCENTRIC CONIC

C3	25.968	VHL	5.096	DLA	9.74	RAL	310.23	RAD	6568.0	VEL	12.139	PTH	2.18	VHP	7.404	DPA	-46.86	RAP	321.21	ECC	1.4274

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 33 15	2584.92	-26.49	66.34	179.33	100.38	7 16 20	1984.9	-24.79	58.08
90.00	20 59 33	4614.82	13.01	195.56	174.20	64.62	22 16 28	4014.8	9.48	188.65
100.00	7 59 23	2307.09	-27.74	45.63	179.05	101.60	8 37 50	1707.1	-25.86	37.33
100.00	22 16 6	4367.88	14.15	176.83	173.62	63.39	23 28 54	3767.9	10.46	169.98
110.00	9 18 33	2059.39	-31.08	25.92	178.15	105.00	9 52 52	1459.4	-28.71	17.52
110.00	23 13 26	4188.34	17.17	161.52	171.93	59.98	24 23 14	3588.3	13.05	154.83

DIFFERENTIAL CORRECTIONS

TDE	-.8370	TRA	-2.1380	TC3	.0484	BAU	.1488
RDE	.2873	RRA	.7606	RC3	-.4258	FAU	.02780
FDE	1.7189	FRA	2.5953	FC3	-.9269	BSP	9072
BDE	.8849	BRA	2.2693	BC3	.4286	FSP	-925

MID-COURSE EXECUTION ACCURACY

SGT	2614.8	SGR	1022.6	SG3	316.2				
RRT	-.9132	RRF	.9629	RTF	-.9496				
SGB	2807.6	R23	-.1858	R13	.9604				
SG1	2780.1	SG2	391.8	THA	159.93				

ORBIT DETERMINATION ACCURACY

ST	1192.0	SR	415.1	SS	1360.7				
CRT	-.9994	CRS	-.9694	CST	.9736				
LSA	1843.5	MSA	214.4	SSA	12.1				
EL1	1262.2	EL2	13.6	ALF	160.81				

LAUNCH DATE SEP 25 1965 FLIGHT TIME 136.00 ARRIVAL DATE FEB 8 1966

HELIOCENTRIC CONIC DISTANCE 345.921

RL	150.02	LAL	-.00	LOL	1.72	VL	26.742	GAL	5.49	AZL	84.48	HCA	144.65	SMA	125.90	ECC	.21342	INC	5.5239	VI	29.701
RP	107.50	LAP	3.19	LOP	146.50	VP	37.615	GAP	-9.05	AZP	94.51	TAL	158.84	TAP	303.49	RCA	99.03	APO	152.77	V2	35.250
RC	44.068	GL	30.09	GP	-30.52	ZAL	53.36	ZAP	34.10	ETS	58.15	ZAE	137.90	ETE	284.53	ZAC	62.33	ETC	138.48	CLP	-16.01

PLANETOCENTRIC CONIC

C3	26.114	VHL	5.110	DLA	12.59	RAL	309.08	RAD	6568.1	VEL	12.145	PTH	2.18	VHP	7.220	DPA	-49.52	RAP	324.61	ECC	1.4298

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 5 6	2681.20	-27.49	73.21	179.54	97.07	6 49 47	2081.2	-26.23	64.77
90.00	21 18 34	4521.31	10.22	190.11	173.12	63.45	22 33 55	3921.3	6.57	183.32
100.00	7 32 56	2397.95	-28.81	52.17	179.34	98.32	8 12 54	1798.0	-27.36	43.67
100.00	22 33 25	4279.79	11.40	171.73	172.50	62.18	23 44 45	3679.8	7.59	165.01
110.00	8 55 48	2138.66	-32.33	31.76	178.62	101.76	9 31 26	1538.7	-30.37	23.09
110.00	23 27 3	4111.85	14.51	157.18	170.69	58.71	24 35 35	3511.8	10.26	150.66

DIFFERENTIAL CORRECTIONS

TDE	-.8925	TRA	-2.1386	TC3	.0696	BAU	.1620
RDE	.4110	RRA	.8506	RC3	-.4589	FAU	.02780
FDE	1.8918	FRA	2.6742	FC3	-.9216	BSP	9351
BDE	.9826	BRA	2.3015	BC3	.4642	FSP	-979

MID-COURSE EXECUTION ACCURACY

SGT	2653.8	SGR	1177.9	SG3	332.7				
RRT	-.9263	RRF	.9750	RTF	-.9530				
SGB	2903.5	R23	-.1872	R13	.9659				
SG1	2874.4	SG2	409.7	THA	157.16				

ORBIT DETERMINATION ACCURACY

ST	1242.8	SR	546.4	SS	1442.7				
CRT	-.9974	CRS	-.9877	CST	.9748				
LSA	1969.4	MSA	213.9	SSA	10.8				
EL1	1357.2	EL2	36.2	ALF	156.31				

LAUNCH DATE SEP 25 1965 FLIGHT TIME 138.00 ARRIVAL DATE FEB 10 1966

HELIOCENTRIC CONIC DISTANCE 352.644

RL	150.02	LAL	-.00	LOL	1.72	VL	26.816	GAL	5.28	AZL	83.87	HCA	147.88	SMA	126.38	ECC	.20782	INC	6.1261	VI	29.701
RP	107.51	LAP	3.25	LOP	149.75	VP	37.665	GAP	-8.41	AZP	95.19	TAL	158.98	TAP	306.86	RCA	100.11	APO	152.64	V2	35.247
RC	45.230	GL	33.42	GP	-34.30	ZAL	55.12	ZAP	38.15	ETS	57.85	ZAE	133.88	ETE	286.05	ZAC	65.64	ETC	138.15	CLP	-17.85

PLANETOCENTRIC CONIC

C3	26.775	VHL	5.174	DLA	15.68	RAL	307.78	RAD	6568.1	VEL	12.172	PTH	2.18	VHP	7.101	DPA	-52.59	RAP	328.59	ECC	1.4407

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 32 22	2795.61	-28.17	81.50	180.11	92.97	6 18 57	2195.6	-27.46	72.91
90.00	21 40 52	4419.31	7.06	184.28	172.45	62.51	22 54 31	3819.3	3.32	177.59
100.00	7 2 21	2505.41	-29.62	60.05	180.00	94.25	7 44 6	1905.4	-28.71	51.37
100.00	22 53 34	4184.73	8.33	166.34	171.77	61.19	24 3 19	3584.7	4.42	159.73
110.00	8 29 48	2231.77	-33.40	38.81	179.54	97.72	9 7 0	1631.8	-31.98	29.87
110.00	23 42 36	4031.14	11.61	152.73	169.80	57.62	24 49 47	3431.1	7.26	146.34

DIFFERENTIAL CORRECTIONS

TDE	-.9616	TRA	-2.1406	TC3	.0863	BAU	.1763
RDE	.5660	RRA	.9583	RC3	-.4848	FAU	.02721
FDE	2.0725	FRA	2.7213	FC3	-.8796	BSP	9707
BDE	1.1158	BRA	2.3453	BC3	.4925	FSP	-1023

MID-COURSE EXECUTION ACCURACY

SGT	2683.7	SGR	1363.5	SG3	344.4				
RRT	-.9361	RRF	.9833	RTF	-.9562				
SGB	3010.2	R23	-.1824	R13	.9715				
SG1	2979.1	SG2	432.1	THA	153.98				

ORBIT DETERMINATION ACCURACY

ST	1235.8	SR	708.8	SS	1521.4				
CRT	-.9925	CRS	-.9952	CST	.9763				
LSA	2109.5	MSA	214.9	SSA	9.5				
EL1	1475.1	EL2	76.1	ALF	151.42				

LAUNCH DATE SEP 25 1965 FLIGHT TIME 140.00 ARRIVAL DATE FEB 12 1966

HELIOCENTRIC CONIC DISTANCE 359.346

RL	150.02	LAL	-.00	LOL	1.72	VL	26.884	GAL	5.09	AZL	83.15	HCA	151.11	SMA	126.82	ECC	.20269	INC	6.8470	VI	29.701
RP	107.53	LAP	3.30	LOP	153.00	VP	37.709	GAP	-7.79	AZP	96.00	TAL	159.13	TAP	310.24	RCA	101.11	APO	152.52	V2	35.242
RC	46.516	GL	37.01	GP	-38.64	ZAL	57.18	ZAP	42.65	ETS	57.76	ZAE	129.40	ETE	287.09	ZAC	69.30	ETC	137.86	CLP	-19.66

PLANETOCENTRIC CONIC

C3	28.122	VHL	5.303	DLA	19.00	RAL	306.28	RAD	6568.1	VEL	12.227	PTH	2.20	VHP	7.070	DPA	-56.08	RAP	333.47	ECC	1.4628

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 53 7	2934.47	-28.24	91.65	181.00	87.89	5 42 2	2334.5	-28.24	82.39
90.00	22 8 8	4304.85	3.42	177.83	172.37	61.87	23 19 53	3704.9	-.37	171.20
100.00	6 26 7	2634.56	-29.88	69.64	181.05	89.21	7 10 2	2034.6	-29.67	60.84
100.00	23 17 49	4080.00	4.85	160.51	171.58	60.47	24 25 49	3480.0	.88	153.38
110.00	7 59 39	2341.97	-34.09	47.34	180.97	92.72	8 38 41	1742.0	-33.34	38.17
110.00	0 4 43	3945.36	8.44	148.10	169.37	56.75	1 10 28	3345.4	4.01	141.82

DIFFERENTIAL CORRECTIONS

TDE	-1.0513	TRA	-2.1476	TC3	.0955	BAU	.1907
RDE	.7641	RRA	1.0852	RC3	-.4982	FAU	.02580
FDE	2.2517	FRA	2.7214	FC3	-.7942	BSP	10136
BDE	1.2997	BRA	2.4062	BC3	.5073	FSP	-1049

MID-COURSE EXECUTION ACCURACY

SGT	2706.2	SGR	1580.7	SG3	348.8				
RRT	-.9432	RRF	.9888	RTF	-.9593				
SGB	3134.0	R23	-.1717	R13	.9771				
SG1	3100.3	SG2	458.4	THA	150.44				

ORBIT DETERMINATION ACCURACY

ST	1353.6	SR	905.7	SS	1591.6				
CRT	-.9884	CRS	-.9983	CST	.9782				
LSA	2266.9	MSA	216.6	SSA	8.1				
EL1	1624.6	EL2	114.6	ALF	146.33				

LAUNCH DATE SEP 25 1965 FLIGHT TIME 142.00 ARRIVAL DATE FEB 14 1966

DISTANCE 366.024

HELIOCENTRIC CONIC

RL 150.02 LAL -.00 LOL 1.72 VL 26.946 GAL 4.91 AZL 82.27 HCA 154.32 SMA 127.22 ECC .19802 INC 7.7313 V1 29.701
RP 107.55 LAP 3.34 LOP 156.25 VP 37.748 GAP -7.19 AZP 96.98 TAL 159.29 TAP 313.61 RCA 102.03 APO 152.42 V2 35.236
RC 47.916 GL 40.89 GP -43.61 ZAL 59.53 ZAP 47.60 ETS 57.86 ZAE 124.43 ETE 287.85 ZAC 73.36 ETC 137.72 CLP -21.37

PLANETOCENTRIC CONIC

C3 30.438 VHL 5.517 DLA 22.56 RAL 304.54 RAD 6568.2 VEL 12.321 PTH 2.22 VHP 7.156 DPA -59.92 RAP 339.79 ECC 1.5009

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 3 26	3110.48	-27.14	104.40	182.03	81.60	4 55 17	2510.5	-28.02	95.85
90.00	22 44 0	4168.45	-.98	170.22	173.18	61.70	23 53 29	3568.5	-4.76	163.58
100.00	5 41 24	2794.59	-29.14	81.47	182.34	83.04	6 27 59	2194.6	-29.80	72.73
100.00	23 48 43	3959.58	.79	153.89	172.20	60.12	24 54 42	3359.6	-3.20	147.37
110.00	7 23 50	2474.15	-34.04	57.65	182.86	86.62	8 5 4	1874.2	-34.13	48.41
110.00	0 26 43	3852.78	4.96	143.20	169.60	56.13	1 30 56	3252.8	.48	136.98

DIFFERENTIAL CORRECTIONS

TDE-1.1688 TRA-2.1619 TC3 .0976 BAU .2044
RDE 1.0207 RRA 1.2309 RC3 -.4926 FAU .02339
FDE 2.4121 FRA 2.6558 FC3 -.6653 BSP 10706
BDE 1.5518 BRA 2.4878 BC3 .5022 FSP -1050

MID-COURSE EXECUTION ACCURACY

SGT 2719.6 SGR 1826.3 SG3 342.7
RRT -.9485 RRF .9923 RTF -.9623
SGB 3275.9 R23 -.1555 R13 .9823
SG1 3239.7 SG2 485.8 THA 146.66

ORBIT DETERMINATION ACCURACY

ST 1416.1 SR 1138.6 SS 1645.0
CRT -.9859 CRS -.9995 CST .9805
LSA 2441.3 MSA 218.7 SSA 6.8
EL1 1811.0 EL2 149.0 ALF 141.29

LAUNCH DATE SEP 25 1965 FLIGHT TIME 144.00 ARRIVAL DATE FEB 16 1966

DISTANCE 372.686

HELIOCENTRIC CONIC

RL 150.02 LAL -.00 LOL 1.72 VL 27.002 GAL 4.76 AZL 81.15 HCA 157.54 SMA 127.59 ECC .19381 INC 8.8493 V1 29.701
RP 107.56 LAP 3.37 LOP 159.50 VP 37.782 GAP -6.61 AZP 98.19 TAL 159.43 TAP 316.96 RCA 102.86 APO 152.32 V2 35.230
RC 49.420 GL 45.03 GP -49.20 ZAL 62.20 ZAP 52.97 ETS 58.16 ZAE 118.92 ETE 288.55 ZAC 77.86 ETC 137.92 CLP -22.85

PLANETOCENTRIC CONIC

C3 34.238 VHL 5.851 DLA 26.32 RAL 302.54 RAD 6568.3 VEL 12.474 PTH 2.26 VHP 7.409 DPA -63.92 RAP 348.51 ECC 1.5635

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	2 50 46	3363.60	-23.40	121.97	182.44	73.59	3 46 50	2763.6	-25.43	113.88
90.00	23 40 39	3974.58	-7.17	159.34	175.69	62.53	24 46 54	3374.6	-10.80	152.54
100.00	4 41 8	3007.84	-26.42	96.71	183.36	75.48	5 31 15	2407.8	-28.15	88.34
100.00	0 36 55	3805.58	-4.43	145.43	174.19	60.41	1 40 20	3205.6	-8.33	138.82
110.00	6 39 46	2636.63	-32.68	70.12	184.96	79.36	7 23 42	2036.6	-33.80	61.07
110.00	0 54 46	3749.55	1.02	137.80	170.80	55.83	1 57 16	3149.5	-3.47	131.59

DIFFERENTIAL CORRECTIONS

TDE-1.4558 TRA-2.3166 TC3 -.0574 BAU .1876
RDE 1.4072 RRA 1.4434 RC3 -.4057 FAU .01515
FDE 2.6337 FRA 2.6140 FC3 -.3832 BSP 8328
BDE 2.0248 BRA 2.7295 BC3 .4C98 FSP -811

MID-COURSE EXECUTION ACCURACY

SGT 2905.9 SGR 2147.3 SG3 334.7
RRT -.9494 RRF .9942 RTF -.9661
SGB 3612.8 R23 -.1362 R13 .9873
SG1 3570.9 SG2 548.7 THA 143.96

ORBIT DETERMINATION ACCURACY

ST 1615.1 SR 1457.0 SS 1739.6
CRT -.9874 CRS -.9999 CST .9858
LSA 2776.8 MSA 216.7 SSA 5.9
EL1 2168.4 EL2 171.9 ALF 137.98

LAUNCH DATE SEP 25 1965 FLIGHT TIME 146.00 ARRIVAL DATE FEB 18 1966

DISTANCE 379.298

HELIOCENTRIC CONIC

RL 150.02 LAL -.00 LOL 1.72 VL 27.053 GAL 4.61 AZL 79.68 HCA 160.74 SMA 127.93 ECC .18999 INC10.3170 V1 29.701
RP 107.58 LAP 3.39 LOP 162.75 VP 37.812 GAP -6.04 AZP 99.75 TAL 159.57 TAP 320.31 RCA 103.63 APO 152.24 V2 35.224
RC 51.018 GL 49.40 GP -55.41 ZAL 65.23 ZAP 58.71 ETS 58.83 ZAE 112.84 ETE 289.55 ZAC 82.84 ETC 138.81 CLP -23.81

PLANETOCENTRIC CONIC

C3 40.455 VHL 6.360 DLA 30.24 RAL 300.14 RAD 6568.6 VEL 12.721 PTH 2.31 VHP 7.905 DPA -67.67 RAP 1.13 ECC 1.6658

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
78.93	23 34 48	3999.20	-16.01	165.68	180.67	64.00	24 41 27	3399.2	-19.38	158.48
101.07	2 37 28	3423.28	-16.00	123.27	180.66	63.99	3 34 31	2823.3	-19.36	116.07
78.93	23 34 48	3999.20	-16.01	165.68	180.67	64.00	24 41 27	3399.2	-19.38	158.48
101.07	2 37 28	3423.28	-16.00	123.27	180.66	63.99	3 34 31	2823.3	-19.36	116.07
110.00	5 40 52	2848.61	-28.96	85.49	186.45	70.99	6 28 21	2248.6	-31.27	77.06
110.00	1 34 31	3621.87	-3.85	131.13	173.56	56.01	2 34 52	3021.9	-8.29	124.85

DIFFERENTIAL CORRECTIONS

TDE-1.6239 TRA-2.3044 TC3 .0246 BAU .2027
RDE 1.8277 RRA 1.5824 RC3 -.3740 FAU .01331
FDE 2.6279 FRA 2.3192 FC3 -.2849 BSP 11105
BDE 2.4449 BRA 2.7954 BC3 .3748 FSP -872

MID-COURSE EXECUTION ACCURACY

SGT 2813.1 SGR 2378.9 SG3 294.1
RRT -.9545 RRF .9955 RTF -.9697
SGB 3684.2 R23 -.1110 R13 .9914
SG1 3643.2 SG2 548.0 THA 140.00

ORBIT DETERMINATION ACCURACY

ST 1630.8 SR 1719.3 SS 1691.0
CRT -.9863 CRS-1.0000 CST .9871
LSA 2902.8 MSA 220.3 SSA 4.5
EL1 2361.5 EL2 196.1 ALF 133.47

LAUNCH DATE SEP 25 1965 FLIGHT TIME 148.00 ARRIVAL DATE FEB 20 1966

DISTANCE 385.877

HELIOCENTRIC CONIC

RL 150.02 LAL -.00 LOL 1.72 VL 27.098 GAL 4.49 AZL 77.66 HCA 163.92 SMA 128.24 ECC .18659 INC12.3409 V1 29.701
RP 107.61 LAP 3.39 LOP 165.99 VP 37.838 GAP -5.50 AZP 101.87 TAL 159.69 TAP 323.61 RCA 104.31 APO 152.16 V2 35.216
RC 52.701 GL 53.89 GP -62.14 ZAL 68.58 ZAP 64.64 ETS 60.47 ZAE 106.20 ETE 291.65 ZAC 88.33 ETC 141.18 CLP -23.55

PLANETOCENTRIC CONIC

C3 51.077 VHL 7.147 DLA 34.17 RAL 297.26 RAD 6568.9 VEL 13.132 PTH 2.40 VHP 8.781 DPA -70.26 RAP 19.26 ECC 1.8406

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
70.02	22 23 20	4245.09	-15.91	184.35	182.44	59.36	23 34 5	3645.1	-19.86	177.45
109.98	3 25 59	3294.43	-15.90	113.42	182.43	59.35	4 20 54	2694.4	-19.85	106.53
70.02	22 23 20	4245.09	-15.91	184.35	182.44	59.36	23 34 5	3645.1	-19.86	177.45
109.98	3 25 59	3294.43	-15.90	113.42	182.43	59.35	4 20 54	2694.4	-19.85	106.53
110.00	3 33 23	3271.91	-16.67	112.13	182.90	59.71	4 27 55	2671.9	-20.56	105.17
110.00	3 19 2	3315.61	-15.15	114.61	181.97	58.99	4 14 18	2715.6	-19.15	107.77

DIFFERENTIAL CORRECTIONS

TDE-2.0413 TRA-2.4492 TC3 .0020 BAU .1864
RDE 2.4239 RRA 1.7325 RC3 -.2729 FAU .00745
FDE 2.6090 FRA 2.0210 FC3 -.1262 BSP 12017
BDE 3.1689 BRA 3.0000 BC3 .2729 FSP -763

MID-COURSE EXECUTION ACCURACY

SGT 2882.7 SGR 2597.4 SG3 248.0
RRT -.9569 RRF .9954 RTF -.9752
SGB 3880.2 R23 -.0844 R13 .9948
SG1 3838.7 SG2 566.2 THA 138.11

ORBIT DETERMINATION ACCURACY

ST 1784.6 SR 2007.5 SS 1648.2
CRT -.9877 CRS -.9998 CST .9907
LSA 3143.7 MSA 219.9 SSA 3.5
EL1 2677.9 EL2 209.0 ALF 131.60

LAUNCH DATE SEP 25 1965 FLIGHT TIME 150.00 ARRIVAL DATE FEB 22 1966

HELIOCENTRIC CONIC DISTANCE 392.404

RL 150.02 LAL -.00 LOL 1.72 VL 27.139 GAL 4.39 AZL 74.68 HCA 167.07 SMA 128.51 ECC .18361 INC15.3249 VI 29.701
RP 107.63 LAP 3.39 LOP 169.24 VP 37.860 GAP -4.37 AZP 104.95 TAL 159.77 TAP 326.84 RCA 104.91 APO 152.10 V2 35.208
RC 54.462 GL 58.29 GP -69.21 ZAL 72.24 ZAP 70.54 ETS 65.19 ZAE 98.98 ETE 297.06 ZAC 94.42 ETC 147.26 CLP -20.18

PLANETOCENTRIC CONIC

C3 78.678 VHL 8.407 DLA 37.87 RAL 293.74 RAD 6569.4 VEL 13.857 PTH 2.53 VHP 10.295 DPA -70.39 RAP 41.85 ECC 2.1632

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
63.73	21 34 41	4427.23	-14.37	197.86	184.52	54.58	22 48 28	3827.2	-18.90	191.39
116.27	3 46 34	3270.17	-14.35	110.44	184.51	54.57	4 41 4	2670.2	-18.88	103.98
63.73	21 34 41	4427.23	-14.37	197.86	184.52	54.58	22 48 28	3827.2	-18.90	191.39
116.27	3 46 34	3270.17	-14.35	110.44	184.51	54.57	4 41 4	2670.2	-18.88	103.98
63.73	21 34 41	4427.23	-14.37	197.86	184.52	54.58	22 48 28	3827.2	-18.90	191.39
116.27	3 46 34	3270.17	-14.35	110.44	184.51	54.57	4 41 4	2670.2	-18.88	103.98

DIFFERENTIAL CORRECTIONS

TDE-2.9155 TRA-2.8019 TC3 -.0408 BAU .1405
RDE 3.1354 RRA 1.7578 RC3 -.1430 FAU .00048
FDE 2.5280 FRA 1.6994 FC3 -.0059 BSP 12656
BDE 4.2815 BRA 3.3076 BC3 .1487 FSP -611

MID-COURSE EXECUTION ACCURACY

SGT 3131.1 SGR 2631.9 SG3 195.5
RRT -.9587 RRF .9924 RTF -.9839
SGB 4090.3 R23 -.0549 R13 .9974
SG1 4049.1 SG2 579.1 THA 140.16

ORBIT DETERMINATION ACCURACY

ST 2115.3 SR 2184.8 SS 1581.8
CRT -.9902 CRS -.9992 CST .9950
LSA 3421.0 MSA 216.5 SSA 2.7
EL1 3033.6 EL2 213.1 ALF 134.06

LAUNCH DATE SEP 25 1965 FLIGHT TIME 152.00 ARRIVAL DATE FEB 24 1966

HELIOCENTRIC CONIC DISTANCE 398.845

RL 150.02 LAL -.00 LOL 1.72 VL 27.175 GAL 4.31 AZL 69.83 HCA 170.17 SMA 128.75 ECC .18106 INC20.1667 VI 29.701
RP 107.66 LAP 3.38 LOP 172.48 VP 37.878 GAP -4.48 AZP 109.89 TAL 159.79 TAP 329.96 RCA 105.44 APO 152.07 V2 35.200
RC 56.291 GL 62.06 GP -76.03 ZAL 76.15 ZAP 76.14 ETS 82.34 ZAE 90.98 ETE 315.14 ZAC 101.40 ETC 166.49 CLP -7.12

PLANETOCENTRIC CONIC

C3 111.829 VHL 10.575 DLA 40.78 RAL 289.39 RAD 6570.1 VEL 15.270 PTH 2.74 VHP 13.011 DPA -67.03 RAP 62.98 ECC 2.8404

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
59.33	20 56 33	4588.13	-10.96	208.66	186.43	50.47	22 13 1	3988.1	-15.98	202.66
120.67	3 49 59	3312.60	-10.95	111.32	186.42	50.46	4 45 12	2712.6	-15.96	105.32
59.33	20 56 33	4588.13	-10.96	208.66	186.43	50.47	22 13 1	3988.1	-15.98	202.66
120.67	3 49 59	3312.60	-10.95	111.32	186.42	50.46	4 45 12	2712.6	-15.96	105.32
59.33	20 56 33	4588.13	-10.96	208.66	186.43	50.47	22 13 1	3988.1	-15.98	202.66
120.67	3 49 59	3312.60	-10.95	111.32	186.42	50.46	4 45 12	2712.6	-15.96	105.32

DIFFERENTIAL CORRECTIONS

TDE-5.3472 TRA-3.6697 TC3 -.1051 BAU .1655
RDE 2.8950 RRA .9444 RC3 -.0350 FAU-.00716
FDE 2.4291 FRA 1.4079 FC3 .0554 BSP 13336
BDE 6.0806 BRA 3.7893 BC3 .1107 FSP -460

MID-COURSE EXECUTION ACCURACY

SGT 3916.4 SGR 1709.5 SG3 143.6
RRT -.9413 RRF .9634 RTF -.9965
SGB 4273.2 R23 -.0227 R13 .9991
SG1 4239.9 SG2 532.9 THA 157.28

ORBIT DETERMINATION ACCURACY

ST 3002.4 SR 1581.6 SS 1518.0
CRT -.9906 CRS -.9953 CST .9992
LSA 3712.6 MSA 191.9 SSA 2.0
EL1 3388.1 EL2 191.4 ALF 152.35

LAUNCH DATE SEP 25 1965 FLIGHT TIME 154.00 ARRIVAL DATE FEB 26 1966

HELIOCENTRIC CONIC DISTANCE 405.113

RL 150.02 LAL -.00 LOL 1.72 VL 27.207 GAL 4.27 AZL 60.75 HCA 173.13 SMA 128.97 ECC .17904 INC29.2496 VI 29.701
RP 107.63 LAP 3.35 LOP 175.72 VP 37.892 GAP -4.04 AZP 119.07 TAL 159.67 TAP 332.81 RCA 105.88 APO 152.06 V2 35.191
RC 58.184 GL 63.78 GP -79.15 ZAL 80.19 ZAP 81.13 ETS 141.20 ZAE 81.46 ETE 14.91 ZAC 110.28 ETC 228.22 CLP 34.93

PLANETOCENTRIC CONIC

C3 218.374 VHL 14.777 DLA 41.53 RAL 284.11 RAD 6571.2 VEL 18.431 PTH 3.04 VHP 18.378 DPA -59.68 RAP 77.98 ECC 4.5939

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
58.26	20 30 48	4719.26	-5.88	215.59	187.45	48.82	21 49 27	4119.3	-11.10	209.88
121.74	3 33 37	3417.68	-5.86	116.00	187.44	48.82	4 30 35	2817.7	-11.09	110.29
58.26	20 30 48	4719.26	-5.88	215.59	187.45	48.82	21 49 27	4119.3	-11.10	209.88
121.74	3 33 37	3417.68	-5.86	116.00	187.44	48.82	4 30 35	2817.7	-11.09	110.29
58.26	20 30 48	4719.26	-5.88	215.59	187.45	48.82	21 49 27	4119.3	-11.10	209.88
121.74	3 33 37	3417.68	-5.86	116.00	187.44	48.82	4 30 35	2817.7	-11.09	110.29

DIFFERENTIAL CORRECTIONS

TDE-7.0958 TRA-3.0130 TC3 -.1622 BAU .6381
RDE-5.9805 RRA-3.6297 RC3 -.1465 FAU-.01780
FDE 2.4636 FRA 1.2517 FC3 .0706 BSP 13605
BDE 9.2799 BRA 4.7173 BC3 .2186 FSP -327

MID-COURSE EXECUTION ACCURACY

SGT 3199.0 SGR 3016.3 SG3 101.4
RRT .9866 RRF -.9959 RTF -.9965
SGB 4396.8 R23 -.0013 R13 -.9995
SG1 4382.1 SG2 358.7 THA 43.29

ORBIT DETERMINATION ACCURACY

ST 2790.8 SR 2386.4 SS 1547.8
CRT .9975 CRS .9993 CST .9995
LSA 3982.8 MSA 127.1 SSA 1.7
EL1 3669.8 EL2 127.0 ALF 40.52

LAUNCH DATE SEP 25 1965 FLIGHT TIME 156.00 ARRIVAL DATE FEB 28 1966

HELIOCENTRIC CONIC DISTANCE 410.884

RL 150.02 LAL -.00 LOL 1.72 VL 27.235 GAL 4.34 AZL 39.74 HCA 175.69 SMA 129.16 ECC .17795 INC50.2586 VI 29.701
RP 107.72 LAP 3.31 LOP 178.96 VP 37.903 GAP -3.72 AZP 140.18 TAL 159.18 TAP 334.87 RCA 106.18 APO 152.14 V2 35.181
RC 60.133 GL 58.90 GP -69.21 ZAL 84.00 ZAP 85.08 ETS 176.41 ZAE 67.64 ETE 49.51 ZAC 124.62 ETC 267.18 CLP 76.01

PLANETOCENTRIC CONIC

C3 594.697 VHL 24.386 DLA 35.85 RAL 278.49 RAD 6572.5 VEL 26.758 PTH 3.39 VHP 30.737 DPA -45.65 RAP 86.85 ECC10.7872

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
67.03	20 51 14	4702.37	-.96	210.27	187.19	54.16	22 9 36	4102.4	-5.63	204.18
112.97	2 28 22	3647.68	-.94	131.13	187.17	54.16	3 29 10	3047.7	-5.61	125.04
67.03	20 51 14	4702.37	-.96	210.27	187.19	54.16	22 9 36	4102.4	-5.63	204.18
112.97	2 28 22	3647.68	-.94	131.13	187.17	54.16	3 29 10	3047.7	-5.61	125.04
67.03	20 51 14	4702.37	-.96	210.27	187.19	54.16	22 9 36	4102.4	-5.63	204.18
112.97	2 28 22	3647.68	-.94	131.13	187.17	54.16	3 29 10	3047.7	-5.61	125.04

DIFFERENTIAL CORRECTIONS

TDE-5.6572 TRA -.5727 TC3 -.1123 BAU 2.3837
RDE-13.8086 RRA-6.8822 RC3 -.2780 FAU-.04450
FDE 2.9616 FRA 1.4616 FC3 .0648 BSP 13265
BDE14.9225 BRA 6.9060 BC3 .2998 FSP -243

MID-COURSE EXECUTION ACCURACY

SGT 1447.1 SGR 4042.8 SG3 75.5
RRT .9206 RRF -.9996 RTF -.9239
SGB 4294.0 R23 -.0329 R13 -.9991
SG1 4260.3 SG2 536.2 THA 71.46

ORBIT DETERMINATION ACCURACY

ST 1330.2 SR 3299.3 SS 1878.6
CRT .9895 CRS 1.0000 CST .9898
LSA 4018.9 MSA 181.0 SSA 1.8
EL1 3552.9 EL2 178.4 ALF 68.19

LAUNCH DATE SEP 25 1965 FLIGHT TIME 158.00 ARRIVAL DATE MAR 2 1966

DISTANCE 422.507

HELIOCENTRIC CONIC
RL 150.02 LAL -.00 LOL 1.72 VL 27.259 GAL 3.36 AZL 171.66 HCA 183.30 SMA 129.33 ECC .17019 INC81.6613 V1 29.701
RP 107.75 LAP 3.27 LOP 182.20 VP 37.911 GAP -1.95 AZP 8.35 TAL 163.21 TAP 346.51 RCA 107.32 APO 151.34 V2 35.171
RC 62.133 GL -46.18 GP 51.11 ZAL 86.79 ZAP 88.25 ETS 187.52 ZAE 65.39 ETE 310.84 ZAC 114.57 ETC 91.10 CLP 87.21

PLANETOCENTRIC CONIC
C31392.351 VHL 37.314 DLA -69.35 RAL 282.55 RAD 6573.2 VEL 38.905 PTH 3.55 VHP 48.272 DPA 75.00 RAP 78.46 ECC23.9146

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
23.61	6 43 40	2448.60	-1.22	77.97	193.00	159.35	7 24 28	1848.6	6.26	75.56
156.39	17 8 19	699.26	-1.22	288.71	193.02	159.35	17 19 59	99.3	6.27	286.30
23.61	6 43 40	2448.60	-1.22	77.97	193.00	159.35	7 24 28	1848.6	6.26	75.56
156.39	17 8 19	699.26	-1.22	288.71	193.02	159.35	17 19 59	99.3	6.27	286.30
23.61	6 43 40	2448.60	-1.22	77.97	193.00	159.35	7 24 28	1848.6	6.26	75.56
156.39	17 8 19	699.26	-1.22	288.71	193.02	159.35	17 19 59	99.3	6.27	286.30

DIFFERENTIAL CORRECTIONS
TDE 9.1986 TRA -.9249 TC3 -.1469 BAU 5.4731
RD-12.4030 RRA 4.2241 RC3 .2547 FAU-.09853
FDE-3.2887 FRA .9921 FC3 .0613 BSP 11056
BDE15.4418 BRA 4.3242 BC3 .2940 FSP -211

MID-COURSE EXECUTION ACCURACY
SGT 1832.5 SGR 3259.4 SG3 69.7
RRT -.9232 RRF .9986 RTF -.9392
SGB 3739.2 R23 -.0456 R13 .9986
SG1 3687.0 SG2 622.8 THA 118.31

ORBIT DETERMINATION ACCURACY
ST 1418.0 SR 1383.6 SS 2175.1
CRT -.9807 CRS -.9995 CST .9863
LSA 3259.1 MSA 233.5 SSA 2.6
EL1 2427.8 EL2 226.4 ALF 125.39

LAUNCH DATE SEP 25 1965 FLIGHT TIME 160.00 ARRIVAL DATE MAR 4 1966

DISTANCE 427.143

HELIOCENTRIC CONIC
RL 150.02 LAL -.00 LOL 1.72 VL 27.279 GAL 3.65 AZL 130.87 HCA 184.91 SMA 129.47 ECC .17078 INC40.8677 V1 29.701
RP 107.78 LAP 3.21 LOP 185.43 VP 37.916 GAP -1.94 AZP 49.24 TAL 161.75 TAP 346.66 RCA 107.36 APO 151.58 V2 35.160
RC 64.180 GL -62.24 GP 74.33 ZAL 83.65 ZAP 86.78 ETS 204.16 ZAE 85.65 ETE 321.51 ZAC 91.44 ETC 104.52 CLP 78.02

PLANETOCENTRIC CONIC
C3 405.241 VHL 20.131 DLA -82.08 RAL 334.26 RAD 6572.1 VEL 22.947 PTH 3.27 VHP 26.269 DPA 80.07 RAP 300.06 ECC 7.6692

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
9.01	9 40 21	2400.80	3.75	84.60	243.72	172.06	10 20 21	1800.8	11.68	83.90
170.99	21 4 11	5885.41	3.76	258.64	243.75	172.06	22 42 16	5285.4	11.68	257.94
9.01	9 40 21	2400.80	3.75	84.60	243.72	172.06	10 20 21	1800.8	11.68	83.90
170.99	21 4 11	5885.41	3.76	258.64	243.75	172.06	22 42 16	5285.4	11.68	257.94
9.01	9 40 21	2400.80	3.75	84.60	243.72	172.06	10 20 21	1800.8	11.68	83.90
170.99	21 4 11	5885.41	3.76	258.64	243.75	172.06	22 42 16	5285.4	11.68	257.94

DIFFERENTIAL CORRECTIONS
TDE 2.3032 TRA-1.3345 TC3 -.1877 BAU 1.6316
RDE .5510 RRA 1.6622 RC3 .2355 FAU-.02871
FDE -.1677 FRA .4664 FC3 .0613 BSP 14438
BDE 2.3682 BRA 2.1316 BC3 .3012 FSP -275

MID-COURSE EXECUTION ACCURACY
SGT 2931.4 SGR 3564.0 SG3 86.0
RRT -.9639 RRF .9956 RTF -.9841
SGB 4614.7 R23 -.0160 R13 .9997
SG1 4574.4 SG2 608.2 THA 129.23

ORBIT DETERMINATION ACCURACY
ST 1055.2 SR 1041.9 SS 664.8
CRT -.6812 CRS -.9509 CST .8744
LSA 1512.2 MSA 595.0 SSA 1.1
EL1 1359.6 EL2 592.0 ALF 135.54

LAUNCH DATE SEP 25 1965 FLIGHT TIME 162.00 ARRIVAL DATE MAR 6 1966

DISTANCE 433.039

HELIOCENTRIC CONIC
RL 150.02 LAL -.00 LOL 1.72 VL 27.297 GAL 3.72 AZL 114.40 HCA 187.62 SMA 129.59 ECC .17026 INC24.4015 V1 29.701
RP 107.81 LAP 3.14 LOP 188.67 VP 37.918 GAP -1.61 AZP 65.79 TAL 161.30 TAP 348.92 RCA 107.52 APO 151.65 V2 35.149
RC 66.268 GL -64.41 GP 84.49 ZAL 79.55 ZAP 85.58 ETS 255.16 ZAE 96.49 ETE 9.73 ZAC 80.00 ETC 151.29 CLP 36.56

PLANETOCENTRIC CONIC
C3 155.673 VHL 12.477 DLA -78.87 RAL 1.30 RAD 6570.7 VEL 16.643 PTH 2.89 VHP 16.392 DPA 68.51 RAP 289.92 ECC 3.5620

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
12.67	11 35 20	2267.01	12.36	81.43	268.81	168.60	12 13 7	1667.0	20.20	80.16
167.33	22 44 53	5760.31	12.37	259.00	268.83	168.60	24 20 53	5160.3	20.20	257.74
12.67	11 35 20	2267.01	12.36	81.43	268.81	168.60	12 13 7	1667.0	20.20	80.16
167.33	22 44 53	5760.31	12.37	259.00	268.83	168.60	24 20 53	5160.3	20.20	257.74
12.67	11 35 20	2267.01	12.36	81.43	268.81	168.60	12 13 7	1667.0	20.20	80.16
167.33	22 44 53	5760.31	12.37	259.00	268.83	168.60	24 20 53	5160.3	20.20	257.74

DIFFERENTIAL CORRECTIONS
TDE-4.0489 TRA-1.8574 TC3 -.1781 BAU .3808
RDE 1.2838 RRA -.0486 RC3 .0420 FAU-.00672
FDE 1.2410 FRA .5381 FC3 .0373 BSP 15289
BDE 4.2475 BRA 1.8580 BC3 .1830 FSP -390

MID-COURSE EXECUTION ACCURACY
SGT 4813.1 SGR 609.8 SG3 121.3
RRT -.2153 RRF .2309 RTF -.9995
SGB 4851.5 R23 -.0127 R13 .9995
SG1 4814.9 SG2 595.3 THA 178.41

ORBIT DETERMINATION ACCURACY
ST 2283.2 SR 590.6 SS 973.2
CRT -.7788 CRS -.7951 CST .9997
LSA 2525.3 MSA 363.0 SSA 1.6
EL1 2330.3 EL2 362.9 ALF 168.32

LAUNCH DATE SEP 25 1965 FLIGHT TIME 164.00 ARRIVAL DATE MAR 8 1966

DISTANCE 439.250

HELIOCENTRIC CONIC
RL 150.02 LAL -.00 LOL 1.72 VL 27.311 GAL 3.75 AZL 106.85 HCA 190.62 SMA 129.68 ECC .16963 INC16.8498 V1 29.701
RP 107.85 LAP 3.06 LOP 191.90 VP 37.918 GAP -1.20 AZP 73.42 TAL 161.07 TAP 351.69 RCA 107.69 APO 151.68 V2 35.138
RC 68.394 GL -61.60 GP 83.42 ZAL 75.32 ZAP 85.13 ETS 306.68 ZAE 103.35 ETE 59.08 ZAC 73.00 ETC 198.36 CLP -42.19

PLANETOCENTRIC CONIC
C3 80.645 VHL 8.980 DLA -74.59 RAL 357.39 RAD 6569.6 VEL 14.212 PTH 2.59 VHP 11.817 DPA 61.09 RAP 288.80 ECC 2.3272

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
17.57	11 29 31	2124.43	20.93	75.99	261.32	163.47	12 4 55	1524.4	28.58	73.82
162.43	22 19 30	5634.26	20.93	258.41	261.35	163.47	23 53 25	5034.3	28.58	256.24
17.57	11 29 31	2124.43	20.93	75.99	261.32	163.47	12 4 55	1524.4	28.58	73.82
162.43	22 19 30	5634.26	20.93	258.41	261.35	163.47	23 53 25	5034.3	28.58	256.24
17.57	11 29 31	2124.43	20.93	75.99	261.32	163.47	12 4 55	1524.4	28.58	73.82
162.43	22 19 30	5634.26	20.93	258.41	261.35	163.47	23 53 25	5034.3	28.58	256.24

DIFFERENTIAL CORRECTIONS
TDE-2.2527 TRA-1.1245 TC3 -.0541 BAU .1093
RDE-1.6170 RRA-1.5602 RC3 .0858 FAU .00492
FDE 1.1458 FRA .7827 FC3 -.0529 BSP 15502
BDE 2.7730 BRA 1.9232 BC3 .1014 FSP -558

MID-COURSE EXECUTION ACCURACY
SGT 3060.5 SGR 3889.0 SG3 174.4
RRT .9733 RRF -.9948 RTF -.9899
SGB 4948.8 R23 .0068 R13 -.9992
SG1 4917.6 SG2 555.6 THA 51.98

ORBIT DETERMINATION ACCURACY
ST 1649.8 SR 1525.7 SS 942.6
CRT .9508 CRS .9854 CST .9897
LSA 2411.4 MSA 351.3 SSA 2.3
EL1 2219.5 EL2 351.3 ALF 42.65

LAUNCH DATE SEP 25 1965 FLIGHT TIME 166.00 ARRIVAL DATE MAR 10 1966

HELIOCENTRIC CONIC DISTANCE 445.554

RL 150.02 LAL -.00 LOL 1.72 VL 27.322 GAL 3.77 AZL 102.64 HCA 193.73 SMA 129.76 ECC .16911 INC12.6402 VI 29.701
RP 107.89 LAP 2.98 LOP 195.13 VP 37.915 GAP -.78 AZP 77.71 TAL 160.89 TAP 354.62 RCA 107.82 APO 151.71 V2 35.126
RC 70.553 GL -57.19 GP 78.69 ZAL 71.22 ZAP 85.51 ETS 328.35 ZAE 108.45 ETE 79.01 ZAC 67.70 ETC 215.63 CLP -66.48

PLANETOCENTRIC CONIC

C3 50.391 VHL 7.099 DLA -70.14 RAL 350.42 RAD 6568.9 VEL 13.105 PTH 2.39 VHP 9.302 DPA 55.41 RAP 288.33 ECC 1.8233

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
22.70	11 12 26	1999.56	27.53	69.03	249.56	157.48	11 45 45	1399.6	34.87	65.73
157.30	21 41 3	5533.22	27.54	256.71	249.59	157.48	23 13 16	4933.2	34.88	253.40
22.70	11 12 26	1999.56	27.53	69.03	249.56	157.48	11 45 45	1399.6	34.87	65.73
157.30	21 41 3	5533.22	27.54	256.71	249.59	157.48	23 13 16	4933.2	34.88	253.40
22.70	11 12 26	1999.56	27.53	69.03	249.56	157.48	11 45 45	1399.6	34.87	65.73
157.30	21 41 3	5533.22	27.54	256.71	249.59	157.48	23 13 16	4933.2	34.88	253.40

DIFFERENTIAL CORRECTIONS
TOE-1.0690 TRA -.5130 TC3 -.0579 BAU .2345
RDE-1.2722 RRA-1.9426 RC3 .3433 FAU .01471
FDE .9568 FRA 1.1208 FC3 -.2527 BSP 15631
BDE 1.6617 BRA 2.0092 BC3 .3481 FSP -776

MID-COURSE EXECUTION ACCURACY
SGT 1495.8 SGR 4754.0 SG3 241.6
RRT .9103 RRF -.9977 RTF -.9286
SGB 4983.7 R23 .0142 R13 -.9988
SG1 4948.1 SG2 594.8 THA 73.78

ORBIT DETERMINATION ACCURACY
ST 937.1 SR 1724.1 SS 893.1
CRT .8618 CRS .9915 CST .9204
LSA 2113.0 MSA 428.2 SSA 3.1
EL1 1915.1 EL2 427.9 ALF 63.47

LAUNCH DATE SEP 25 1965 FLIGHT TIME 168.00 ARRIVAL DATE MAR 12 1966

HELIOCENTRIC CONIC DISTANCE 451.887

RL 150.02 LAL -.00 LOL 1.72 VL 27.331 GAL 3.79 AZL 99.97 HCA 196.87 SMA 129.82 ECC .16878 INC 9.9692 VI 29.701
RP 107.92 LAP 2.88 LOP 198.35 VP 37.910 GAP -.35 AZP 80.45 TAL 160.72 TAP 357.59 RCA 107.91 APO 151.73 V2 35.114
RC 72.741 GL -52.29 GP 74.25 ZAL 67.36 ZAP 86.68 ETS 340.36 ZAE 112.56 ETE 89.76 ZAC 63.16 ETC 223.42 CLP -77.68

PLANETOCENTRIC CONIC

C3 35.617 VHL 5.968 DLA -65.54 RAL 344.50 RAD 6568.4 VEL 12.529 PTH 2.27 VHP 7.748 DPA 50.61 RAP 287.74 ECC 1.5862

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
28.06	11 0 38	1895.77	31.80	60.96	238.10	150.84	11 32 14	1295.8	38.69	56.40
151.94	21 5 34	5462.35	31.81	254.43	238.12	150.84	22 36 36	4862.3	38.70	249.87
28.06	11 0 38	1895.77	31.80	60.96	238.10	150.84	11 32 14	1295.8	38.69	56.40
151.94	21 5 34	5462.35	31.81	254.43	238.12	150.84	22 36 36	4862.3	38.70	249.87
28.06	11 0 38	1895.77	31.80	60.96	238.10	150.84	11 32 14	1295.8	38.69	56.40
151.94	21 5 34	5462.35	31.81	254.43	238.12	150.84	22 36 36	4862.3	38.70	249.87

DIFFERENTIAL CORRECTIONS
TOE -.6224 TRA -.1246 TC3 -.1623 BAU .3164
RDE -.8361 RRA-2.0778 RC3 .6445 FAU .02416
FDE .8174 FRA 1.5277 FC3 -.5873 BSP 15665
BDE 1.0423 BRA 2.0815 BC3 .6646 FSP -1029

MID-COURSE EXECUTION ACCURACY
SGT 691.3 SGR 4944.1 SG3 319.3
RRT .5038 RRF -.9980 RTF -.5308
SGB 4992.2 R23 .0239 R13 -.9983
SG1 4956.5 SG2 595.7 THA 85.91

ORBIT DETERMINATION ACCURACY
ST 603.8 SR 1653.3 SS 884.4
CRT .6057 CRS .9917 CST .7030
LSA 1912.8 MSA 470.7 SSA 3.9
EL1 1696.7 EL2 468.1 ALF 76.48

LAUNCH DATE SEP 25 1965 FLIGHT TIME 170.00 ARRIVAL DATE MAR 14 1966

HELIOCENTRIC CONIC DISTANCE 458.224

RL 150.02 LAL -.00 LOL 1.72 VL 27.337 GAL 3.82 AZL 98.12 HCA 200.04 SMA 129.86 ECC .16865 INC 8.1212 VI 29.701
RP 107.96 LAP 2.77 LOP 201.57 VP 37.902 GAP .08 AZP 82.36 TAL 160.53 TAP .57 RCA 107.96 APO 151.76 V2 35.101
RC 74.954 GL -47.34 GP 70.16 ZAL 63.81 ZAP 88.55 ETS 349.02 ZAE 115.96 ETE 97.74 ZAC 59.01 ETC 228.13 CLP -85.73

PLANETOCENTRIC CONIC

C3 27.454 VHL 5.240 DLA -60.91 RAL 339.93 RAD 6568.1 VEL 12.200 PTH 2.19 VHP 6.713 DPA 46.31 RAP 286.95 ECC 1.4518

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
33.52	10 55 23	1808.87	34.04	52.39	227.85	144.08	11 25 32	1208.9	40.37	46.66
146.48	20 34 22	5418.49	34.05	252.18	227.87	144.08	22 4 41	4818.5	40.38	246.45
33.52	10 55 23	1808.87	34.04	52.39	227.85	144.08	11 25 32	1208.9	40.37	46.66
146.48	20 34 22	5418.49	34.05	252.18	227.87	144.08	22 4 41	4818.5	40.38	246.45
33.52	10 55 23	1808.87	34.04	52.39	227.85	144.08	11 25 32	1208.9	40.37	46.66
146.48	20 34 22	5418.49	34.05	252.18	227.87	144.08	22 4 41	4818.5	40.38	246.45

DIFFERENTIAL CORRECTIONS
TOE -.4147 TRA .1911 TC3 -.3465 BAU .3667
RDE -.5743 RRA-2.1311 RC3 .9372 FAU .03349
FDE .7475 FRA 1.9824 FC3-1.0560 BSP 15658
BDE .7084 BRA 2.1396 BC3 .9992 FSP -1307

MID-COURSE EXECUTION ACCURACY
SGT 722.7 SGR 4933.3 SG3 403.2
RRT -.5982 RRF -.9980 RTF .5777
SGB 4986.0 R23 .0344 R13 -.9977
SG1 4952.5 SG2 576.9 THA 95.08

ORBIT DETERMINATION ACCURACY
ST 471.5 SR 1569.5 SS 909.6
CRT .1337 CRS .9907 CST .2674
LSA 1812.7 MSA 476.7 SSA 4.7
EL1 1570.9 EL2 466.9 ALF 87.48

LAUNCH DATE SEP 25 1965 FLIGHT TIME 172.00 ARRIVAL DATE MAR 16 1966

HELIOCENTRIC CONIC DISTANCE 464.555

RL 150.02 LAL -.00 LOL 1.72 VL 27.340 GAL 3.87 AZL 96.76 HCA 203.22 SMA 129.89 ECC .16873 INC 6.7618 VI 29.701
RP 108.00 LAP 2.66 LOP 204.79 VP 37.893 GAP .51 AZP 83.78 TAL 160.31 TAP 3.53 RCA 107.97 APO 151.80 V2 35.089
RC 77.191 GL -42.55 GP 66.32 ZAL 60.58 ZAP 91.04 ETS 356.04 ZAE 118.82 ETE 104.68 ZAC 55.06 ETC 231.50 CLP -92.59

PLANETOCENTRIC CONIC

C3 22.561 VHL 4.750 DLA -56.39 RAL 336.47 RAD 6567.9 VEL 11.998 PTH 2.14 VHP 5.992 DPA 42.29 RAP 285.99 ECC 1.3713

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
38.96	10 55 42	1733.50	34.70	43.84	219.06	137.69	11 24 35	1133.5	40.41	37.19
141.04	20 6 25	5397.27	34.71	250.48	219.07	137.68	21 36 23	4797.3	40.42	243.83
38.96	10 55 42	1733.50	34.70	43.84	219.06	137.69	11 24 35	1133.5	40.41	37.19
141.04	20 6 25	5397.27	34.71	250.48	219.07	137.68	21 36 23	4797.3	40.42	243.83
38.96	10 55 42	1733.50	34.70	43.84	219.06	137.69	11 24 35	1133.5	40.41	37.19
141.04	20 6 25	5397.27	34.71	250.48	219.07	137.68	21 36 23	4797.3	40.42	243.83

DIFFERENTIAL CORRECTIONS
TOE -.2919 TRA .4797 TC3 -.5967 BAU .4013
RDE -.4341 RRA-2.1345 RC3 1.1891 FAU .04251
FDE .7432 FRA 2.4613 FC3-1.6312 BSP 15639
BDE .5231 BRA 2.1878 BC3 1.3304 FSP -1594

MID-COURSE EXECUTION ACCURACY
SGT 1240.2 SGR 4815.6 SG3 488.6
RRT -.8906 RRF -.9978 RTF .8798
SGB 4972.7 R23 .0453 R13 -.9970
SG1 4942.3 SG2 549.6 THA 103.08

ORBIT DETERMINATION ACCURACY
ST 471.8 SR 1490.9 SS 954.0
CRT -.3610 CRS .9889 CST -.2184
LSA 1772.9 MSA 461.0 SSA 5.5
EL1 1501.5 EL2 436.9 ALF 87.12

LAUNCH DATE SEP 25 1965 FLIGHT TIME 174.00 ARRIVAL DATE MAR 18 1966

DISTANCE 470.872

HELIOCENTRIC CONIC
RL 150.02 LAL -.00 LOL 1.72 VL 27.342 GAL 3.92 AZL 95.72 HCA 206.40 SMA 129.90 ECC .16903 INC 5.7150 V1 29.701
RP 108.04 LAP 2.54 LOP 208.01 VP 37.882 GAP .93 AZP 84.88 TAL 160.06 TAP 6.46 RCA 107.94 APO 151.85 V2 35.076
RC 79.446 GL -38.00 GP 62.62 ZAL 57.68 ZAP 94.04 ETS 2.00 ZAE 121.17 ETE 111.17 ZAC 51.23 ETC 234.11 CLP -98.80

PLANETOCENTRIC CONIC
C3 19.469 VHL 4.412 DLA -52.06 RAL 333.82 RAD 6567.8 VEL 11.868 PTH 2.11 VHP 5.476 DPA 38.46 RAP 284.92 ECC 1.3204

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
44.30	11 0 32	1665.00	34.24	35.61	211.76	131.94	11 28 17	1065.0	39.35	28.33
135.70	19 40 30	5395.02	34.25	249.69	211.77	131.93	21 10 25	4795.0	39.37	242.41
44.30	11 0 32	1665.00	34.24	35.61	211.76	131.94	11 28 17	1065.0	39.35	28.33
135.70	19 40 30	5395.02	34.25	249.69	211.77	131.93	21 10 25	4795.0	39.37	242.41
44.30	11 0 32	1665.00	34.24	35.61	211.76	131.94	11 28 17	1065.0	39.35	28.33
135.70	19 40 30	5395.02	34.25	249.69	211.77	131.93	21 10 25	4795.0	39.37	242.41

DIFFERENTIAL CORRECTIONS
TOE -.1993 TRA .7541 TC3 -.8950 BAU .4275
ROE -.3640 RRA-2.1029 RC3 1.3772 FAU .05084
FOE .7955 FRA 2.9431 FC3-2.2609 BSP 15607
BOE .4150 BRA 2.2341 BC3 1.6425 FSP -1875

MID-COURSE EXECUTION ACCURACY
SGT 1796.4 SGR 4628.6 SG3 571.0
RRT -.9514 RRF -.9976 RTF .9439
SGB 4965.0 R23 .0557 R13 -.9962
SG1 4937.8 SG2 518.8 THA 110.50

ORBIT DETERMINATION ACCURACY
ST 543.9 SR 1414.1 SS 1009.0
CRT -.6697 CRS .9864 CST -.5388
LSA 1767.3 MSA 436.4 SSA 6.3
EL1 1464.0 EL2 390.2 ALF 105.58

LAUNCH DATE SEP 25 1965 FLIGHT TIME 176.00 ARRIVAL DATE MAR 20 1966

DISTANCE 477.172

HELIOCENTRIC CONIC
RL 150.02 LAL -.00 LOL 1.72 VL 27.341 GAL 3.99 AZL 94.88 HCA 209.59 SMA 129.89 ECC .16953 INC 4.8800 V1 29.701
RP 108.08 LAP 2.41 LOP 211.22 VP 37.870 GAP 1.35 AZP 85.75 TAL 159.77 TAP 9.36 RCA 107.87 APO 151.91 V2 35.063
RC 81.719 GL -33.74 GP 59.02 ZAL 55.09 ZAP 97.43 ETS 7.13 ZAE 123.07 ETE 117.39 ZAC 47.48 ETC 236.15 CLP-104.55

PLANETOCENTRIC CONIC
C3 17.454 VHL 4.178 DLA -47.95 RAL 331.79 RAD 6567.7 VEL 11.783 PTH 2.08 VHP 5.105 DPA 34.76 RAP 283.81 ECC 1.2873

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
49.53	11 9 20	1599.40	33.05	27.76	205.84	126.96	11 35 59	999.4	37.61	20.11
130.47	19 15 31	5409.43	33.07	249.98	205.85	126.95	20 45 40	4809.4	37.62	242.32
49.53	11 9 20	1599.40	33.05	27.76	205.84	126.96	11 35 59	999.4	37.61	20.11
130.47	19 15 31	5409.43	33.07	249.98	205.85	126.95	20 45 40	4809.4	37.62	242.32
49.53	11 9 20	1599.40	33.05	27.76	205.84	126.96	11 35 59	999.4	37.61	20.11
130.47	19 15 31	5409.43	33.07	249.98	205.85	126.95	20 45 40	4809.4	37.62	242.32

DIFFERENTIAL CORRECTIONS
TOE -.1144 TRA 1.0189 TC3-1.2188 BAU .4485
ROE -.3333 RRA-2.0460 RC3 1.4860 FAU .05793
FOE .8959 FRA 3.4074 FC3-2.8733 BSP 15521
BOE .3524 BRA 2.2857 BC3 1.9219 FSP -2123

MID-COURSE EXECUTION ACCURACY
SGT 2327.0 SGR 4393.6 SG3 646.3
RRT -.9717 RRF -.9972 RTF .9657
SGB 4971.8 R23 .0650 R13 -.9952
SG1 4947.7 SG2 488.4 THA 117.52

ORBIT DETERMINATION ACCURACY
ST 646.0 SR 1338.0 SS 1071.1
CRT -.8286 CRS .9835 CST -.7138
LSA 1785.0 MSA 410.2 SSA 7.2
EL1 1447.6 EL2 334.3 ALF 113.11

LAUNCH DATE SEP 25 1965 FLIGHT TIME 178.00 ARRIVAL DATE MAR 22 1966

DISTANCE 483.453

HELIOCENTRIC CONIC
RL 150.02 LAL -.00 LOL 1.72 VL 27.338 GAL 4.07 AZL 94.19 HCA 212.78 SMA 129.87 ECC .17024 INC 4.1948 V1 29.701
RP 108.12 LAP 2.27 LOP 214.43 VP 37.856 GAP 1.77 AZP 86.47 TAL 159.44 TAP 12.22 RCA 107.76 APO 151.98 V2 35.050
RC 84.008 GL -29.78 GP 55.50 ZAL 52.78 ZAP 101.11 ETS 11.54 ZAE 124.53 ETE 123.36 ZAC 43.83 ETC 237.69 CLP-109.90

PLANETOCENTRIC CONIC
C3 16.130 VHL 4.016 DLA -44.11 RAL 330.23 RAD 6567.6 VEL 11.727 PTH 2.07 VHP 4.841 DPA 31.17 RAP 282.74 ECC 1.2655

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
54.65	11 21 49	1533.31	31.41	20.22	201.15	122.71	11 47 22	933.3	35.47	12.37
125.35	18 50 30	5439.27	31.43	251.43	201.16	122.70	20 21 10	4839.3	35.48	243.57
54.65	11 21 49	1533.31	31.41	20.22	201.15	122.71	11 47 22	933.3	35.47	12.37
125.35	18 50 30	5439.27	31.43	251.43	201.16	122.70	20 21 10	4839.3	35.48	243.57
54.65	11 21 49	1533.31	31.41	20.22	201.15	122.71	11 47 22	933.3	35.47	12.37
125.35	18 50 30	5439.27	31.43	251.43	201.16	122.70	20 21 10	4839.3	35.48	243.57

DIFFERENTIAL CORRECTIONS
TOE -.0289 TRA 1.2726 TC3-1.5477 BAU .4693
ROE -.3164 RRA-1.9650 RC3 1.5298 FAU .06390
FOE 1.0204 FRA 3.8232 FC3-3.4295 BSP 15565
BOE .3177 BRA 2.3411 BC3 2.1762 FSP -2349

MID-COURSE EXECUTION ACCURACY
SGT 2817.7 SGR 4117.7 SG3 709.3
RRT -.9808 RRF -.9968 RTF .9756
SGB 4989.4 R23 .0722 R13 -.9942
SG1 4968.6 SG2 455.4 THA 124.20

ORBIT DETERMINATION ACCURACY
ST 760.5 SR 1255.7 SS 1131.5
CRT -.9122 CRS .9800 CST -.8124
LSA 1813.2 MSA 384.0 SSA 8.0
EL1 1442.8 EL2 271.3 ALF 120.09

LAUNCH DATE SEP 25 1965 FLIGHT TIME 180.00 ARRIVAL DATE MAR 24 1966

DISTANCE 489.713

HELIOCENTRIC CONIC
RL 150.02 LAL -.00 LOL 1.72 VL 27.334 GAL 4.16 AZL 93.62 HCA 215.97 SMA 129.84 ECC .17116 INC 3.6192 V1 29.701
RP 108.16 LAP 2.13 LOP 217.64 VP 37.840 GAP 2.18 AZP 87.07 TAL 159.07 TAP 15.04 RCA 107.62 APO 152.07 V2 35.036
RC 86.309 GL -26.12 GP 52.07 ZAL 50.74 ZAP 104.98 ETS 15.30 ZAE 125.57 ETE 129.04 ZAC 40.30 ETC 238.71 CLP-114.87

PLANETOCENTRIC CONIC
C3 15.275 VHL 3.908 DLA -40.52 RAL 329.01 RAD 6567.6 VEL 11.690 PTH 2.06 VHP 4.659 DPA 27.69 RAP 281.75 ECC 1.2514

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
59.72	11 38 11	1463.25	29.52	12.75	197.49	119.11	12 2 34	863.3	33.15	4.82
120.28	18 24 29	5484.69	29.54	254.10	197.50	119.10	19 55 54	4884.7	33.17	246.17
59.72	11 38 11	1463.25	29.52	12.75	197.49	119.11	12 2 34	863.3	33.15	4.82
120.28	18 24 29	5484.69	29.54	254.10	197.50	119.10	19 55 54	4884.7	33.17	246.17
59.72	11 38 11	1463.25	29.52	12.75	197.49	119.11	12 2 34	863.3	33.15	4.82
120.28	18 24 29	5484.69	29.54	254.10	197.50	119.10	19 55 54	4884.7	33.17	246.17

DIFFERENTIAL CORRECTIONS
TOE .0603 TRA 1.5153 TC3-1.8635 BAU .4903
ROE -.3053 RRA-1.8691 RC3 1.5139 FAU .06843
FOE 1.1593 FRA 4.1761 FC3-3.8782 BSP 15680
BOE .3112 BRA 2.4062 BC3 2.4009 FSP -2532

MID-COURSE EXECUTION ACCURACY
SGT 3266.2 SGR 3819.9 SG3 757.8
RRT -.9855 RRF -.9961 RTF .9808
SGB 5025.9 R23 .0765 R13 -.9932
SG1 5008.0 SG2 423.1 THA 130.47

ORBIT DETERMINATION ACCURACY
ST 882.2 SR 1170.8 SS 1189.6
CRT -.9576 CRS .9758 CST -.8716
LSA 1853.1 MSA 360.3 SSA 8.9
EL1 1451.5 EL2 205.0 ALF 126.66

LAUNCH DATE SEP 25 1965 FLIGHT TIME 182.00 ARRIVAL DATE MAR 26 1966

HELIOCENTRIC CONIC DISTANCE 495.952

RL 150.02 LAL -.00 LOL 1.72 VL 27.328 GAL 4.27 AZL 93.13 HCA 219.17 SMA 129.80 ECC .17228 INC 3.1261 V1 29.701
RP 108.20 LAP 1.97 LOP 220.84 VP 37.824 GAP 2.59 AZP 87.58 TAL 158.66 TAP 17.83 RCA 107.44 APO 152.16 V2 35.023
RC 88.623 GL -22.76 GP 48.74 ZAL 48.92 ZAP 108.94 ETS 18.49 ZAE 126.22 ETE 134.37 ZAC 36.92 ETC 239.20 CLP-119.48

PLANETOCENTRIC CONIC

C3 14.757 VHL 3.841 DLA -37.18 RAL 328.08 RAD 6567.6 VEL 11.668 PTH 2.05 VHP 4.543 DPA 24.33 RAP 280.89 ECC 1.2429

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
64.83	11 59 6	1384.84	27.51	5.03	194.70	116.06	12 22 11	784.8	30.78	357.09
115.17	17 56 9	5547.65	27.53	258.14	194.70	116.05	19 28 37	4947.7	30.79	250.19
64.83	11 59 6	1384.84	27.51	5.03	194.70	116.06	12 22 11	784.8	30.78	357.09
115.17	17 56 9	5547.65	27.53	258.14	194.70	116.05	19 28 37	4947.7	30.79	250.19
64.83	11 59 6	1384.84	27.51	5.03	194.70	116.06	12 22 11	784.8	30.78	357.09
115.17	17 56 9	5547.65	27.53	258.14	194.70	116.05	19 28 37	4947.7	30.79	250.19

DIFFERENTIAL CORRECTIONS
TDE .1552 TRA 1.7485 TC3-2.1496 BAU .5112
RDE -.2950 RRA-1.7660 RC3 1.4471 FAU .07126
FDE 1.3017 FRA 4.4591 FC3-4.1804 BSP 15856
BDE .3333 BRA 2.4852 BC3 2.5914 FSP -2665

MID-COURSE EXECUTION ACCURACY
SGT 3673.7 SGR 3515.6 SG3 790.8
RRT -.9880 RRF -.9952 RTF .9838
SGB 5084.8 R23 .0770 R13 -.9922
SG1 5069.5 SG2 394.0 THA 136.28

ORBIT DETERMINATION ACCURACY
ST 1010.1 SR 1085.5 SS 1244.5
CRT -.9826 CRS .9709 CST -.9098
LSA 1905.8 MSA 339.3 SSA 9.8
EL1 1476.4 EL2 137.9 ALF 132.90

LAUNCH DATE SEP 25 1965 FLIGHT TIME 184.00 ARRIVAL DATE MAR 28 1966

HELIOCENTRIC CONIC DISTANCE 502.168

RL 150.02 LAL -.00 LOL 1.72 VL 27.320 GAL 4.39 AZL 92.70 HCA 222.36 SMA 129.75 ECC .17361 INC 2.6965 V1 29.701
RP 108.24 LAP 1.82 LOP 224.05 VP 37.806 GAP 3.00 AZP 88.01 TAL 158.21 TAP 20.57 RCA 107.22 APO 152.27 V2 35.010
RC 90.946 GL -19.67 GP 45.55 ZAL 47.29 ZAP 112.90 ETS 21.18 ZAE 126.52 ETE 139.30 ZAC 33.74 ETC 239.11 CLP-123.76

PLANETOCENTRIC CONIC

C3 14.492 VHL 3.807 DLA -34.09 RAL 327.38 RAD 6567.6 VEL 11.657 PTH 2.05 VHP 4.481 DPA 21.12 RAP 280.20 ECC 1.2385

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
70.17	12 26 13	1291.25	25.48	356.54	192.61	113.45	12 47 44	691.3	28.42	348.61
109.83	17 23 27	5633.20	25.49	263.90	192.62	113.44	18 57 20	5033.2	28.43	255.97
70.17	12 26 13	1291.25	25.48	356.54	192.61	113.45	12 47 44	691.3	28.42	348.61
109.83	17 23 27	5633.20	25.49	263.90	192.62	113.44	18 57 20	5033.2	28.43	255.97
110.00	17 5 21	5688.38	23.92	267.42	191.83	115.18	18 40 9	5088.4	27.10	259.71
110.00	17 43 29	5572.11	27.07	259.86	193.35	111.71	19 16 21	4972.1	29.77	251.71

DIFFERENTIAL CORRECTIONS
TDE .2548 TRA 1.9724 TC3-2.3973 BAU .5328
RDE -.2822 RRA-1.6599 RC3 1.3470 FAU .07251
FDE 1.4367 FRA 4.6663 FC3-4.3316 BSP 16099
BDE .3803 BRA 2.5779 BC3 2.7498 FSP -2746

MID-COURSE EXECUTION ACCURACY
SGT 4040.8 SGR 3214.4 SG3 808.1
RRT -.9892 RRF -.9940 RTF .9856
SGB 5163.3 R23 .0738 R13 -.9914
SG1 5150.1 SG2 369.9 THA 141.57

ORBIT DETERMINATION ACCURACY
ST 1143.0 SR 1000.2 SS 1293.3
CRT -.9952 CRS .9650 CST -.9352
LSA 1968.8 MSA 321.8 SSA 10.6
EL1 1517.1 EL2 73.5 ALF 138.83

LAUNCH DATE SEP 25 1965 FLIGHT TIME 186.00 ARRIVAL DATE MAR 30 1966

HELIOCENTRIC CONIC DISTANCE 508.360

RL 150.02 LAL -.00 LOL 1.72 VL 27.311 GAL 4.53 AZL 92.32 HCA 225.55 SMA 129.69 ECC .17515 INC 2.3167 V1 29.701
RP 108.29 LAP 1.65 LOP 227.24 VP 37.787 GAP 3.41 AZP 88.38 TAL 157.73 TAP 23.28 RCA 106.97 APO 152.40 V2 34.996
RC 93.279 GL -16.84 GP 42.51 ZAL 45.84 ZAP 116.80 ETS 23.44 ZAE 126.53 ETE 143.77 ZAC 30.79 ETC 238.38 CLP-127.71

PLANETOCENTRIC CONIC

C3 14.429 VHL 3.799 DLA -31.23 RAL 326.87 RAD 6567.6 VEL 11.654 PTH 2.05 VHP 4.464 DPA 18.07 RAP 279.69 ECC 1.2375

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
76.25	13 3 49	1167.21	23.47	346.14	191.11	111.21	13 23 16	567.2	26.14	338.24
103.75	16 41 44	5755.30	23.48	272.34	191.12	111.20	18 17 39	5155.3	26.15	264.45
76.25	13 3 49	1167.21	23.47	346.14	191.11	111.21	13 23 16	567.2	26.14	338.24
103.75	16 41 44	5755.30	23.48	272.34	191.12	111.20	18 17 39	5155.3	26.15	264.45
110.00	15 35 32	674.07	15.06	305.80	186.75	121.05	15 46 47	74.1	19.07	298.97
110.00	19 9 11	5296.43	32.47	240.26	194.08	101.31	20 37 27	4696.4	33.69	231.24

DIFFERENTIAL CORRECTIONS
TDE .3614 TRA 2.1908 TC3-2.5952 BAU .5533
RDE -.2684 RRA-1.5572 RC3 1.2209 FAU .07200
FDE 1.5638 FRA 4.8073 FC3-4.3199 BSP 16349
BDE .4501 BRA 2.6878 BC3 2.8681 FSP -2767

MID-COURSE EXECUTION ACCURACY
SGT 4372.6 SGR 2927.3 SG3 811.6
RRT -.9894 RRF -.9925 RTF .9867
SGB 5262.0 R23 .0676 R13 -.9907
SG1 5250.1 SG2 353.4 THA 146.31

ORBIT DETERMINATION ACCURACY
ST 1282.5 SR 918.5 SS 1338.7
CRT -.9997 CRS .9580 CST -.9528
LSA 2045.9 MSA 307.7 SSA 11.4
EL1 1577.4 EL2 17.4 ALF 144.39

LAUNCH DATE SEP 25 1965 FLIGHT TIME 188.00 ARRIVAL DATE APR 1 1966

HELIOCENTRIC CONIC DISTANCE 514.528

RL 150.02 LAL -.00 LOL 1.72 VL 27.301 GAL 4.68 AZL 91.98 HCA 228.74 SMA 129.61 ECC .17690 INC 1.9765 V1 29.701
RP 108.33 LAP 1.49 LOP 230.44 VP 37.767 GAP 3.82 AZP 88.70 TAL 157.21 TAP 25.94 RCA 106.69 APO 152.54 V2 34.983
RC 95.621 GL -14.25 GP 39.65 ZAL 44.53 ZAP 120.58 ETS 25.33 ZAE 126.31 ETE 147.77 ZAC 28.11 ETC 236.97 CLP-131.35

PLANETOCENTRIC CONIC

C3 14.532 VHL 3.812 DLA -28.58 RAL 326.51 RAD 6567.6 VEL 11.658 PTH 2.05 VHP 4.485 DPA 15.21 RAP 279.38 ECC 1.2392

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
85.92	14 17 10	929.48	21.53	327.73	190.10	109.27	14 32 40	329.5	23.96	319.88
94.08	15 25 30	708.15	21.54	311.53	190.10	109.26	15 37 18	108.1	23.97	303.68
100.00	14 58 33	795.15	16.12	315.56	187.75	115.52	15 11 48	195.1	19.42	308.33
100.00	17 26 49	5605.75	27.16	262.44	191.89	102.98	19 0 15	5005.8	28.68	253.96
110.00	14 54 43	807.20	10.26	313.12	184.39	122.79	15 8 10	207.2	14.51	306.60
110.00	19 47 8	5166.47	33.78	230.35	193.14	95.59	21 13 15	4566.5	34.18	221.13

DIFFERENTIAL CORRECTIONS
TDE .4700 TRA 2.4006 TC3-2.7511 BAU .5751
RDE -.2490 RRA-1.4565 RC3 1.0929 FAU .07055
FDE 1.6647 FRA 4.8755 FC3-4.2032 BSP 16719
BDE .5318 BRA 2.8079 BC3 2.9603 FSP -2758

MID-COURSE EXECUTION ACCURACY
SGT 4667.1 SGR 2655.1 SG3 802.0
RRT -.9890 RRF -.9904 RTF .9874
SGB 5369.5 R23 .0582 R13 -.9902
SG1 5358.6 SG2 341.4 THA 150.50

ORBIT DETERMINATION ACCURACY
ST 1422.1 SR 836.7 SS 1372.0
CRT -.9983 CRS .9489 CST -.9651
LSA 2125.3 MSA 296.4 SSA 12.0
EL1 1649.4 EL2 42.0 ALF 149.55

LAUNCH DATE SEP 25 1965 FLIGHT TIME 190.00 ARRIVAL DATE APR 3 1966

DISTANCE 520.671

HELIOCENTRIC CONIC

RL 150.02 LAL -.00 LOL 1.72 VL 27.289 GAL 4.85 AZL 91.67 HCA 231.92 SMA 129.53 ECC .17886 INC 1.6683 VI 29.701
RP 108.37 LAP 1.31 LOP 233.63 VP 37.747 GAP 4.23 AZP 88.97 TAL 156.65 TAP 28.57 RCA 106.36 APO 152.70 V2 34.970
RC 97.969 GL -11.88 GP 36.99 ZAL 43.33 ZAP 124.20 ETS 26.93 ZAE 125.90 ETE 151.30 ZAC 25.73 ETC 234.80 CLP-134.73

PLANETOCENTRIC CONIC

C3 14.780 VHL 3.844 DLA -26.14 RAL 326.28 RAD 6567.6 VEL 11.669 PTH 2.05 VHP 4.538 DPA 12.54 RAP 279.27 ECC 1.2432

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	13 13 9	1142.16	12.91	339.52	186.73	115.42	13 32 11	542.2	16.23	332.41
90.00	16 27 42	5791.03	26.75	275.96	191.36	99.65	18 4 13	5191.0	27.81	267.45
100.00	14 6 35	969.60	10.75	325.73	185.61	118.06	14 22 44	369.6	14.42	318.87
100.00	18 16 57	5438.82	29.14	250.44	191.76	96.97	19 47 36	4838.8	29.80	241.69
110.00	14 25 34	910.03	6.42	318.61	183.00	123.65	14 40 44	310.0	10.80	312.26
110.00	20 14 28	5071.15	34.16	222.94	192.18	91.22	21 38 59	4471.2	33.96	213.70

DIFFERENTIAL CORRECTIONS

TDE .5824 TRA 2.6061 TC3-2.8621 BAU .5968
RDE -.2273 RRA-1.3628 RC3 .9649 FAU .06810
FDE 1.7461 FRA 4.8897 FC3-3.9892 BSP 17119
BDE .6252 BRA 2.9409 BC3 3.0204 FSP -2712

MID-COURSE EXECUTION ACCURACY

SGT 4931.0 SGR 2405.0 SG3 782.7
RRT -.9879 RRF -.9878 RTF .9878
SGB 5486.2 R23 .0477 R13 -.9897
SG1 5475.9 SG2 336.1 THA 154.17

ORBIT DETERMINATION ACCURACY

ST 1562.8 SR 758.9 SS 1397.8
CRT -.9919 CRS .9375 CST -.9738
LSA 2211.2 MSA 287.9 SSA 12.5
EL1 1735.2 EL2 86.7 ALF 154.21

LAUNCH DATE SEP 25 1965 FLIGHT TIME 192.00 ARRIVAL DATE APR 5 1966

DISTANCE 526.787

HELIOCENTRIC CONIC

RL 150.02 LAL -.00 LOL 1.72 VL 27.276 GAL 5.03 AZL 91.39 HCA 235.11 SMA 129.44 ECC .18105 INC 1.3860 VI 29.701
RP 108.41 LAP 1.14 LOP 236.82 VP 37.726 GAP 4.64 AZP 89.21 TAL 156.05 TAP 31.16 RCA 106.01 APO 152.88 V2 34.957
RC 100.323 GL -9.72 GP 34.52 ZAL 42.24 ZAP 127.65 ETS 28.30 ZAE 125.37 ETE 154.38 ZAC 23.69 ETC 231.85 CLP-137.85

PLANETOCENTRIC CONIC

C3 15.158 VHL 3.893 DLA -23.88 RAL 326.16 RAD 6567.6 VEL 11.685 PTH 2.06 VHP 4.619 DPA 10.07 RAP 279.36 ECC 1.2495

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 31 19	1289.73	8.45	348.07	185.40	117.13	12 52 49	689.7	12.02	341.21
90.00	17 8 36	5654.77	27.93	266.16	191.25	94.88	18 42 51	5054.8	28.31	257.52
100.00	13 33 11	1090.00	6.82	332.51	184.52	119.17	13 51 21	490.0	10.66	325.82
100.00	18 49 25	5329.73	29.77	242.39	191.39	92.78	20 18 14	4729.7	29.84	233.59
110.00	14 2 48	997.14	3.12	323.19	182.24	124.06	14 19 25	397.1	7.57	316.93
110.00	20 36 17	4995.36	34.12	217.02	191.42	87.72	21 59 33	4395.4	33.42	207.85

DIFFERENTIAL CORRECTIONS

TDE .6984 TRA 2.8092 TC3-2.9290 BAU .6176
RDE -.2036 RRA-1.2770 RC3 .8423 FAU .06485
FDE 1.8071 FRA 4.8606 FC3-3.7039 BSP 17546
BDE .7275 BRA 3.0858 BC3 3.0477 FSP -2639

MID-COURSE EXECUTION ACCURACY

SGT 5167.0 SGR 2178.0 SG3 756.1
RRT -.9859 RRF -.9845 RTF .9881
SGB 5607.3 R23 .0373 R13 -.9893
SG1 5597.2 SG2 336.1 THA 157.35

ORBIT DETERMINATION ACCURACY

ST 1703.1 SR 685.8 SS 1415.8
CRT -.9808 CRS .9229 CST -.9801
LSA 2301.3 MSA 281.5 SSA 12.9
EL1 1831.8 EL2 124.3 ALF 158.34

LAUNCH DATE SEP 25 1965 FLIGHT TIME 194.00 ARRIVAL DATE APR 7 1966

DISTANCE 532.876

HELIOCENTRIC CONIC

RL 150.02 LAL -.00 LOL 1.72 VL 27.262 GAL 5.23 AZL 91.13 HCA 238.29 SMA 129.35 ECC .18346 INC 1.1250 VI 29.701
RP 108.44 LAP .96 LOP 240.01 VP 37.704 GAP 5.05 AZP 89.41 TAL 155.42 TAP 33.71 RCA 105.62 APO 153.08 V2 34.945
RC 102.682 GL -7.74 GP 32.25 ZAL 41.23 ZAP 130.91 ETS 29.49 ZAE 124.75 ETE 157.06 ZAC 22.01 ETC 228.10 CLP-140.74

PLANETOCENTRIC CONIC

C3 15.660 VHL 3.957 DLA -21.79 RAL 326.14 RAD 6567.6 VEL 11.707 PTH 2.06 VHP 4.724 DPA 7.80 RAP 279.65 ECC 1.2577

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 1 53	1401.23	4.94	354.38	-184.81	117.92	12 25 15	801.2	8.64	347.65
90.00	17 37 51	5557.93	28.29	259.11	191.12	91.36	19 10 29	4957.9	28.18	250.44
100.00	13 7 56	1188.06	3.53	337.94	184.03	119.70	13 27 44	588.1	7.46	331.35
100.00	19 14 29	5246.34	29.89	236.20	191.13	89.53	20 41 55	4646.3	29.50	227.41
110.00	13 44 16	1074.19	.18	327.21	181.94	124.18	14 2 10	474.2	4.66	321.00
110.00	20 54 39	4932.97	33.84	212.17	190.91	84.86	22 16 52	4333.0	32.76	203.10

DIFFERENTIAL CORRECTIONS

TDE .8173 TRA 3.0108 TC3-2.9577 BAU .6378
RDE -.1786 RRA-1.1992 RC3 .7298 FAU .06112
FDE 1.8489 FRA 4.7973 FC3-3.3787 BSP 17985
BDE .8366 BRA 3.2408 BC3 3.0464 FSP -2545

MID-COURSE EXECUTION ACCURACY

SGT 5377.6 SGR 1974.0 SG3 724.3
RRT -.9831 RRF -.9804 RTF .9881
SGB 5728.5 R23 .0278 R13 -.9889
SG1 5718.4 SG2 339.9 THA 160.08

ORBIT DETERMINATION ACCURACY

ST 1840.8 SR 618.0 SS 1426.1
CRT -.9646 CRS .9043 CST -.9847
LSA 2393.2 MSA 276.9 SSA 13.2
EL1 1935.6 EL2 154.9 ALF 161.94

LAUNCH DATE SEP 25 1965 FLIGHT TIME 196.00 ARRIVAL DATE APR 9 1966

DISTANCE 538.938

HELIOCENTRIC CONIC

RL 150.02 LAL -.00 LOL 1.72 VL 27.247 GAL 5.45 AZL 90.88 HCA 241.48 SMA 129.24 ECC .18611 INC .8815 VI 29.701
RP 108.48 LAP .77 LOP 243.19 VP 37.681 GAP 5.46 AZP 89.58 TAL 154.76 TAP 36.24 RCA 105.19 APO 153.30 V2 34.932
RC 105.043 GL -5.94 GP 30.17 ZAL 40.29 ZAP 133.97 ETS 30.55 ZAE 124.09 ETE 159.37 ZAC 20.71 ETC 223.64 CLP-143.42

PLANETOCENTRIC CONIC

C3 16.281 VHL 4.035 DLA -19.85 RAL 326.20 RAD 6567.7 VEL 11.733 PTH 2.07 VHP 4.851 DPA 5.73 RAP 280.11 ECC 1.2680

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 38 57	1494.76	1.94	359.61	184.68	118.26	12 3 52	894.8	5.70	352.95
90.00	18 1 16	5482.08	28.28	253.56	191.13	88.58	19 32 38	4882.1	27.79	244.93
100.00	12 47 40	1272.99	.66	342.60	183.97	119.89	13 8 53	673.0	4.63	336.07
100.00	19 35 14	5179.08	29.75	231.20	191.06	86.90	21 1 33	4579.1	29.00	222.48
110.00	13 28 48	1144.08	-2.50	330.86	182.00	124.10	13 47 52	544.1	2.00	324.65
110.00	21 10 35	4880.75	33.45	208.14	190.66	82.51	22 31 56	4280.8	32.05	199.19

DIFFERENTIAL CORRECTIONS

TDE .9420 TRA 3.2159 TC3-2.9453 BAU .6554
RDE -.1542 RRA-1.1308 RC3 .6254 FAU .05679
FDE 1.8796 FRA 4.7158 FC3-3.0199 BSP 18347
BDE .9546 BRA 3.4090 BC3 3.0109 FSP -2425

MID-COURSE EXECUTION ACCURACY

SGT 5568.7 SGR 1793.7 SG3 689.8
RRT -.9792 RRF -.9754 RTF .9880
SGB 5850.5 R23 .0204 R13 -.9885
SG1 5840.2 SG2 346.6 THA 162.43

ORBIT DETERMINATION ACCURACY

ST 1978.8 SR 557.2 SS 1433.0
CRT -.9431 CRS .8815 CST -.9882
LSA 2490.9 MSA 273.4 SSA 13.4
EL1 2048.0 EL2 179.0 ALF 165.01

LAUNCH DATE SEP 25 1965 FLIGHT TIME 198.00 ARRIVAL DATE APR 11 1966

HELIOCENTRIC CONIC DISTANCE 544.969

RL 150.02 LAL -.00 LOL 1.72 VL 27.231 GAL 5.69 AZL 90.65 HCA 244.66 SMA 129.14 ECC .18901 INC .6524 V1 29.701
RP 108.52 LAP .59 LOP 246.37 VP 37.659 GAP 5.88 AZP 89.72 TAL 154.07 TAP 38.72 RCA 104.73 APO 153.54 V2 34.920
RC 107.406 GL -4.29 GP 28.27 ZAL 39.41 ZAP 136.84 ETS 31.52 ZAE 123.41 ETE 161.35 ZAC 19.80 ETC 218.59 CLP-145.92

PLANETOCENTRIC CONIC

C3 17.023 VHL 4.126 DLA -18.06 RAL 326.33 RAD 6567.7 VEL 11.765 PTH 2.08 VHP 4.997 DPA 3.85 RAP 280.75 ECC 1.2801

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 20 13	1576.97	-.72	4.20	184.91	118.31	11 46 30	977.0	3.07	357.57
90.00	18 21 3	5420.29	28.10	249.05	191.32	86.33	19 51 23	4820.3	27.29	240.47
100.00	12 30 51	1349.03	-1.92	346.77	184.24	119.84	12 53 20	749.0	2.06	340.25
100.00	19 53 5	5123.46	29.47	227.09	191.19	84.76	21 18 29	4523.5	28.43	218.44
110.00	13 15 42	1208.55	-4.95	334.23	182.36	123.87	13 35 50	608.5	-.47	328.02
110.00	21 24 44	4836.71	33.01	204.78	190.66	80.56	22 45 21	4236.7	31.35	195.95

DIFFERENTIAL CORRECTIONS
TDE 1.0670 TRA 3.4202 TC3-2.9087 BAU .6731
RDE -.1282 RRA-1.0691 RC3 .5361 FAU .05257
FDE 1.8910 FRA 4.6133 FC3-2.6733 BSP 18780
BDE 1.0747 BRA 3.5834 BC3 2.9577 FSP -2309

MID-COURSE EXECUTION ACCURACY
SGT 5737.2 SGR 1632.8 SG3 653.3
RRT -.9743 RRF -.9693 RTF .9878
SGB 5965.0 R23 .0139 R13 -.9882
SG1 5954.5 SG2 354.1 THA 164.44

ORBIT DETERMINATION ACCURACY
ST 2108.8 SR 501.4 SS 1431.1
CRT -.9146 CRS .8518 CST -.9308
LSA 2583.2 MSA 270.9 SSA 13.5
EL1 2158.5 EL2 198.1 ALF 167.63

LAUNCH DATE SEP 25 1965 FLIGHT TIME 200.00 ARRIVAL DATE APR 13 1966

HELIOCENTRIC CONIC DISTANCE 550.969

RL 150.02 LAL -.00 LOL 1.72 VL 27.215 GAL 5.94 AZL 90.44 HCA 247.83 SMA 129.02 ECC .19216 INC .4354 V1 29.701
RP 108.56 LAP .40 LOP 249.55 VP 37.636 GAP 6.31 AZP 89.84 TAL 153.35 TAP 41.18 RCA 104.23 APO 153.82 V2 34.909
RC 109.770 GL -2.79 GP 26.54 ZAL 38.57 ZAP 139.54 ETS 32.45 ZAE 122.72 ETE 163.05 ZAC 19.29 ETC 213.17 CLP-148.26

PLANETOCENTRIC CONIC

C3 17.887 VHL 4.229 DLA -16.41 RAL 326.52 RAD 6567.7 VEL 11.801 PTH 2.09 VHP 5.161 DPA 2.14 RAP 281.55 ECC 1.2944

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 4 32	1651.23	-3.11	8.34	185.44	118.16	11 32 3	1051.2	.68	1.71
90.00	18 38 16	5368.97	27.82	245.32	191.69	84.48	20 7 45	4769.0	26.76	236.81
100.00	12 16 39	1418.54	-4.27	350.60	184.80	119.61	12 40 17	818.5	-.29	344.07
100.00	20 8 50	5076.90	29.13	223.67	191.53	82.99	21 33 27	4476.9	27.86	215.10
110.00	13 4 28	1268.73	-7.22	337.41	182.97	123.50	13 25 37	668.7	-2.77	331.16
110.00	21 37 30	4799.48	32.56	201.97	190.89	78.96	22 57 30	4199.5	30.69	193.25

DIFFERENTIAL CORRECTIONS
TDE 1.1948 TRA 3.6277 TC3-2.8475 BAU .6897
RDE -.1023 RRA-1.0147 RC3 .4586 FAU .04834
FDE 1.8908 FRA 4.5016 FC3-2.3394 BSP 19201
BDE 1.1992 BRA 3.7670 BC3 2.8642 FSP -2190

MID-COURSE EXECUTION ACCURACY
SGT 5888.1 SGR 1491.0 SG3 616.4
RRT -.9682 RRF -.9620 RTF .9876
SGB 6073.9 R23 .0088 R13 -.9878
SG1 6063.1 SG2 362.1 THA 166.17

ORBIT DETERMINATION ACCURACY
ST 2233.3 SR 451.9 SS 1424.2
CRT -.8780 CRS .8146 CST -.9928
LSA 2673.5 MSA 268.9 SSA 13.6
EL1 2268.6 EL2 212.9 ALF 169.84

LAUNCH DATE SEP 25 1965 FLIGHT TIME 202.00 ARRIVAL DATE APR 15 1966

HELIOCENTRIC CONIC DISTANCE 556.937

RL 150.02 LAL -.00 LOL 1.72 VL 27.197 GAL 6.22 AZL 90.23 HCA 251.01 SMA 128.90 ECC .19560 INC .2278 V1 29.701
RP 108.59 LAP .22 LOP 252.73 VP 37.612 GAP 6.74 AZP 89.93 TAL 152.60 TAP 43.61 RCA 103.69 APO 154.12 V2 34.897
RC 112.133 GL -1.42 GP 24.98 ZAL 37.77 ZAP 142.05 ETS 33.35 ZAE 122.06 ETE 164.51 ZAC 19.16 ETC 207.64 CLP-150.45

PLANETOCENTRIC CONIC

C3 18.880 VHL 4.345 DLA -14.87 RAL 326.77 RAD 6567.8 VEL 11.843 PTH 2.10 VHP 5.341 DPA .60 RAP 282.49 ECC 1.3107

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 51 9	1719.53	-5.29	12.17	186.20	117.86	11 19 49	1119.5	-1.52	5.52
90.00	18 53 35	5325.99	27.50	242.21	192.25	82.95	20 22 21	4726.0	26.24	233.77
100.00	12 4 28	1483.00	-6.43	354.17	185.58	119.26	12 29 11	883.0	-2.48	347.60
100.00	20 22 58	5037.75	28.77	220.82	192.05	81.52	21 46 56	4437.8	27.30	212.32
110.00	12 54 46	1325.43	-9.34	340.44	183.80	123.03	13 16 52	725.4	-4.93	334.13
110.00	21 49 9	4768.09	32.12	199.62	191.34	77.63	23 8 37	4168.1	30.09	191.00

DIFFERENTIAL CORRECTIONS
TDE 1.3266 TRA 3.8407 TC3-2.7630 BAU .7044
RDE -.0770 RRA -.9671 RC3 .3909 FAU .04410
FDE 1.8829 FRA 4.3867 FC3-2.0219 BSP 19590
BDE 1.3289 BRA 3.9606 BC3 2.7905 FSP -2069

MID-COURSE EXECUTION ACCURACY
SGT 6023.5 SGR 1366.3 SG3 580.0
RRT -.9608 RRF -.9535 RTF .9872
SGB 6176.5 R23 .0048 R13 -.9874
SG1 6165.4 SG2 370.0 THA 167.66

ORBIT DETERMINATION ACCURACY
ST 2352.9 SR 408.8 SS 1414.2
CRT -.8324 CRS .7690 CST -.9343
LSA 2762.6 MSA 267.3 SSA 13.6
EL1 2377.6 EL2 224.2 ALF 171.70

LAUNCH DATE SEP 25 1965 FLIGHT TIME 204.00 ARRIVAL DATE APR 17 1966

HELIOCENTRIC CONIC DISTANCE 562.870

RL 150.02 LAL -.00 LOL 1.72 VL 27.179 GAL 6.51 AZL 90.03 HCA 254.19 SMA 128.78 ECC .19932 INC .0252 V1 29.701
RP 108.63 LAP .03 LOP 255.91 VP 37.589 GAP 7.18 AZP 89.99 TAL 151.83 TAP 46.02 RCA 103.11 APO 154.45 V2 34.886
RC 114.493 GL -.17 GP 23.56 ZAL 37.01 ZAP 144.41 ETS 34.27 ZAE 121.41 ETE 165.76 ZAC 19.39 ETC 202.29 CLP-152.51

PLANETOCENTRIC CONIC

C3 20.011 VHL 4.473 DLA -13.45 RAL 327.06 RAD 6567.8 VEL 11.891 PTH 2.11 VHP 5.538 DPA -.78 RAP 283.57 ECC 1.3293

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 39 38	1783.16	-7.30	15.77	187.17	117.43	11 9 21	1183.2	-3.57	9.08
90.00	19 7 26	5289.91	27.17	239.63	192.98	81.69	20 35 36	4689.9	25.74	231.25
100.00	11 53 56	1543.44	-8.42	357.54	186.57	118.79	12 19 40	943.4	-4.52	350.93
100.00	20 35 49	5004.87	28.42	218.44	192.75	80.32	21 59 14	4404.9	26.79	210.01
110.00	12 46 21	1379.26	-11.32	343.34	184.83	122.47	13 9 21	779.3	-6.96	336.97
110.00	21 59 53	4741.81	31.72	197.68	191.97	76.54	23 18 55	4141.8	29.55	189.15

DIFFERENTIAL CORRECTIONS
TDE 1.4653 TRA 4.0630 TC3-2.6549 BAU .7158
RDE -.0530 RRA -.9263 RC3 .3311 FAU .03978
FDE 1.8730 FRA 4.2752 FC3-1.7208 BSP 19879
BDE 1.4663 BRA 4.1673 BC3 2.6754 FSP -1940

MID-COURSE EXECUTION ACCURACY
SGT 6147.7 SGR 1257.2 SG3 545.2
RRT -.9521 RRF -.9437 RTF .9868
SGB 6275.0 R23 .0021 R13 -.9869
SG1 6263.6 SG2 377.4 THA 168.94

ORBIT DETERMINATION ACCURACY
ST 2470.7 SR 372.3 SS 1404.0
CRT -.7779 CRS .7153 CST -.9355
LSA 2853.6 MSA 265.6 SSA 13.7
EL1 2487.7 EL2 232.4 ALF 173.25

LAUNCH DATE SEP 25 1965 FLIGHT TIME 206.00 ARRIVAL DATE APR 19 1966

HELIOCENTRIC CONIC DISTANCE 568.766

RL 150.02 LAL -.00 LOL 1.72 VL 27.160 GAL 6.83 AZL 89.84 HCA 257.36 SMA 128.65 ECC .20335 INC .1642 V1 29.701
RP 108.66 LAP -.16 LOP 259.08 VP 37.566 GAP 7.63 AZP 90.04 TAL 151.04 TAP 48.40 RCA 102.49 APO 154.81 V2 34.875
RC 116.852 GL .96 GP 22.27 ZAL 36.28 ZAP 146.61 ETS 35.22 ZAE 120.80 ETE 166.84 ZAC 19.93 ETC 197.31 CLP-154.46

PLANETOCENTRIC CONIC

C3 21.291 VHL 4.614 DLA -12.13 RAL 327.39 RAD 6567.9 VEL 11.944 PTH 2.13 VHP 5.750 DPA -2.01 RAP 284.77 ECC 1.3504

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 29 38	1843.01	-9.17	19.18	188.33	116.91	11 0 21	1243.0	-5.48	12.44
90.00	19 20 3	5259.74	26.85	237.47	193.86	80.66	20 47 43	4659.7	25.29	229.15
100.00	11 44 47	1600.56	-10.28	.77	187.74	118.22	12 11 27	1000.6	-6.43	354.10
100.00	20 47 36	4977.41	28.09	216.46	193.62	79.33	22 10 33	4377.4	26.33	208.10
110.00	12 39 2	1430.66	-13.19	346.16	186.02	121.83	13 2 53	830.7	-8.88	339.70
110.00	22 9 50	4720.08	31.37	196.08	192.78	75.66	23 28 30	4120.1	29.08	187.63

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE 1.6034 TRA 4.2884 TC3-2.5404 BAU .7276 SGT 6255.2 SGR 1160.1 SG3 511.3 ST 2576.7 SR 340.9 SS 1387.8
RDE -.0284 RRA -.8897 RC3 .2820 FAU .03588 RRT -.9419 RRF -.9326 RTF .9864 CRT -.7111 CRS .6498 CST -.9964
FDE 1.8521 FRA 4.1607 FC3-1.4590 BSP 20243 SGB 6361.8 R23 -.0002 R13 -.9865 LSA 2934.5 MSA 264.1 SSA 13.6
BDE 1.6037 BRA 4.3797 BC3 2.5560 FSP -1826 SG1 6350.3 SG2 383.9 THA 170.05 EL1 2588.1 EL2 238.6 ALF 174.58

LAUNCH DATE SEP 25 1965 FLIGHT TIME 208.00 ARRIVAL DATE APR 21 1966

HELIOCENTRIC CONIC DISTANCE 574.621

RL 150.02 LAL -.00 LOL 1.72 VL 27.141 GAL 7.17 AZL 89.65 HCA 260.53 SMA 128.52 ECC .20772 INC .3527 V1 29.701
RP 108.69 LAP -.35 LOP 262.25 VP 37.542 GAP 8.09 AZP 90.06 TAL 150.23 TAP 50.76 RCA 101.82 APO 155.22 V2 34.865
RC 119.206 GL 1.99 GP 21.10 ZAL 35.57 ZAP 148.68 ETS 36.23 ZAE 120.21 ETE 167.77 ZAC 20.74 ETC 192.84 CLP-156.30

PLANETOCENTRIC CONIC

C3 22.733 VHL 4.768 DLA -10.91 RAL 327.75 RAD 6567.9 VEL 12.005 PTH 2.14 VHP 5.977 DPA -3.10 RAP 286.07 ECC 1.3741

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 20 54	1899.74	-10.90	22.45	189.64	116.30	10 52 34	1299.7	-7.28	15.64
90.00	19 31 41	5234.71	26.56	235.70	194.90	79.81	20 58 56	4634.7	24.89	227.43
100.00	11 36 47	1654.94	-12.01	3.87	189.07	117.58	12 4 22	1054.9	-8.22	357.13
100.00	20 58 29	4954.75	27.79	214.84	194.63	78.53	22 21 4	4354.7	25.93	206.54
110.00	12 32 38	1480.00	-14.94	348.91	187.37	121.11	12 57 18	880.0	-10.71	342.36
110.00	22 19 7	4702.45	31.06	194.80	193.75	74.96	23 37 29	4102.4	28.69	186.40

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE 1.7466 TRA 4.5231 TC3-2.4141 BAU .7373 SGT 6351.8 SGR 1074.4 SG3 479.3 ST 2677.2 SR 315.1 SS 1370.7
RDE -.0045 RRA -.8578 RC3 .2397 FAU .03214 RRT -.9303 RRF -.9200 RTF .9860 CRT -.6342 CRS .5748 CST -.9972
FDE 1.8292 FRA 4.0512 FC3-1.2241 BSP 20570 SGB 6442.1 R23 -.0020 R13 -.9861 LSA 3012.7 MSA 262.4 SSA 13.6
BDE 1.7466 BRA 4.6037 BC3 2.4760 FSP -1716 SG1 6430.3 SG2 389.3 THA 171.02 EL1 2684.7 EL2 242.9 ALF 175.70

LAUNCH DATE SEP 25 1965 FLIGHT TIME 210.00 ARRIVAL DATE APR 23 1966

HELIOCENTRIC CONIC DISTANCE 580.433

RL 150.02 LAL -.00 LOL 1.72 VL 27.121 GAL 7.54 AZL 89.46 HCA 263.70 SMA 128.38 ECC .21245 INC .5376 V1 29.701
RP 108.72 LAP -.53 LOP 265.42 VP 37.519 GAP 8.57 AZP 90.06 TAL 149.40 TAP 53.10 RCA 101.11 APO 155.66 V2 34.856
RC 121.557 GL 2.93 GP 20.04 ZAL 34.89 ZAP 150.62 ETS 37.32 ZAE 119.66 ETE 168.57 ZAC 21.77 ETC 188.34 CLP-158.06

PLANETOCENTRIC CONIC

C3 24.354 VHL 4.935 DLA -9.78 RAL 328.14 RAD 6568.0 VEL 12.072 PTH 2.16 VHP 6.220 DPA -4.07 RAP 287.47 ECC 1.4008

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 13 14	1953.86	-12.51	25.61	191.11	115.61	10 45 48	1353.9	-8.96	18.73
90.00	19 42 27	5214.25	26.31	234.25	196.07	79.13	21 9 21	4614.3	24.54	226.03
100.00	11 29 46	1706.98	-13.63	6.89	190.54	116.86	11 58 13	1107.0	-9.92	.06
100.00	21 8 36	4936.37	27.54	213.54	195.79	77.89	22 30 53	4336.4	25.59	205.28
110.00	12 27 3	1527.58	-16.60	351.60	188.87	120.32	12 52 31	927.6	-12.44	344.95
110.00	22 27 48	4688.53	30.81	193.79	194.86	74.41	23 45 57	4088.5	28.37	185.45

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE 1.8936 TRA 4.7667 TC3-2.2799 BAU .7453 SGT 6436.9 SGR 998.3 SG3 449.0 ST 2770.6 SR 294.1 SS 1352.2
RDE .0189 RRA -.8298 RC3 .2036 FAU .02861 RRT -.9172 RRF -.9061 RTF .9856 CRT -.5477 CRS .4910 CST -.9977
FDE 1.8037 FRA 3.9465 FC3-1.0168 BSP 20886 SGB 6513.8 R23 -.0033 R13 -.9856 LSA 3086.0 MSA 260.6 SSA 13.5
BDE 1.8937 BRA 4.8384 BC3 2.2890 FSP -1612 SG1 6501.9 SG2 393.6 THA 171.87 EL1 2775.3 EL2 245.7 ALF 176.65

LAUNCH DATE SEP 25 1965 FLIGHT TIME 212.00 ARRIVAL DATE APR 25 1966

HELIOCENTRIC CONIC DISTANCE 586.198

RL 150.02 LAL -.00 LOL 1.72 VL 27.100 GAL 7.93 AZL 89.28 HCA 266.87 SMA 128.25 ECC .21756 INC .7201 V1 29.701
RP 108.75 LAP -.72 LOP 268.59 VP 37.495 GAP 9.06 AZP 90.04 TAL 148.56 TAP 55.42 RCA 100.35 APO 156.15 V2 34.846
RC 123.903 GL 3.78 GP 19.08 ZAL 34.23 ZAP 152.44 ETS 38.52 ZAE 119.15 ETE 169.27 ZAC 22.99 ETC 185.59 CLP-159.73

PLANETOCENTRIC CONIC

C3 26.175 VHL 5.116 DLA -8.73 RAL 328.55 RAD 6568.1 VEL 12.147 PTH 2.18 VHP 6.478 DPA -4.92 RAP 288.96 ECC 1.4308

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 6 30	2005.76	-14.02	28.67	192.70	114.86	10 39 56	1405.8	-10.55	21.71
90.00	19 52 28	5197.91	26.10	233.11	197.36	78.60	21 19 6	4597.9	24.26	224.92
100.00	11 23 36	1757.04	-15.15	9.83	192.14	116.08	11 52 53	1157.0	-11.52	2.92
100.00	21 18 3	4921.87	27.33	212.51	197.07	77.38	22 40 5	4321.9	25.31	204.29
110.00	12 22 10	1573.65	-18.16	354.26	190.49	119.47	12 48 24	973.6	-14.10	347.50
110.00	22 35 58	4678.02	30.62	193.04	196.11	74.00	23 53 56	4078.0	28.12	184.73

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE 2.0460 TRA 5.0220 TC3-2.1391 BAU .7510 SGT 6512.8 SGR 930.3 SG3 420.7 ST 2858.0 SR 277.7 SS 1333.4
RDE .0417 RRA -.8051 RC3 .1726 FAU .02525 RRT -.9028 RRF -.8909 RTF .9852 CRT -.4542 CRS .4009 CST -.9982
FDE 1.7776 FRA 3.8487 FC3 -.8350 BSP 21164 SGB 6579.0 R23 -.0043 R13 -.9852 LSA 3155.4 MSA 258.6 SSA 13.4
BDE 2.0465 BRA 5.0861 BC3 2.1460 FSP -1512 SG1 6567.0 SG2 396.8 THA 172.62 EL1 2860.8 EL2 247.1 ALF 177.45

LAUNCH DATE SEP 25 1965 FLIGHT TIME 214.00 ARRIVAL DATE APR 27 1966

HELIOCENTRIC CONIC DISTANCE 591.911

RL 150.02 LAL -.00 LOL 1.72 VL 27.079 GAL 8.36 AZL 89.10 HCA 270.03 SMA 128.11 ECC .22310 INC .9013 VI 29.701
RP 108.78 LAP -.90 LOP 271.75 VP 37.472 GAP 9.57 AZP 90.00 TAL 147.70 TAP 57.74 RCA 99.53 APO 156.69 V2 34.838
RC 126.245 GL 4.55 GP 18.20 ZAL 33.58 ZAP 154.16 ETS 39.84 ZAE 118.66 ETE 169.88 ZAC 24.36 ETC 182.76 CLP-161.34

PLANETOCENTRIC CONIC

C3 28.220 VHL 5.312 DLA -7.76 RAL 328.98 RAD 6568.1 VEL 12.231 PTH 2.20 VHP 6.754 DPA -5.66 RAP 290.52 ECC 1.4644

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 0 35	2055.76	-15.42	31.67	194.42	114.04	10 34 51	1455.8	-12.05	24.62
90.00	20 1 49	5185.32	25.92	232.22	198.77	78.19	21 28 14	4585.3	24.03	224.06
100.00	11 18 11	1805.39	-16.58	12.71	193.87	115.24	11 48 17	1205.4	-13.04	5.70
100.00	21 26 53	4910.92	27.16	211.74	198.47	77.01	22 48 44	4310.9	25.10	203.54
110.00	12 17 55	1618.40	-19.64	356.89	192.24	118.56	12 44 53	1018.4	-15.67	350.01
110.00	22 43 40	4670.67	30.48	192.51	197.48	73.72	24 1 30	4070.7	27.95	184.23

DIFFERENTIAL CORRECTIONS

TDE 2.2079 TRA 5.2931 TC3-1.9890 BAU .7524
RDE .0636 RRA -.7837 RC3 .1450 FAU .02192
FDE 1.7548 FRA 3.7605 FC3 -.6724 BSP 21330
BDE 2.2088 BRA 5.3508 BC3 1.9943 FSP -1411

MID-COURSE EXECUTION ACCURACY

SGT 6582.7 SGR 869.6 SG3 394.5
RRT -.8870 RRF -.8745 RTF .9848
SGB 6639.9 R23 -.0049 R13 -.9848
SG1 6627.9 SG2 398.8 THA 173.29

ORBIT DETERMINATION ACCURACY

ST 2943.2 SR 265.0 SS 1316.6
CRT -.3582 CRS .3088 CST -.9386
LSA 3224.9 MSA 256.0 SSA 13.3
EL1 2944.7 EL2 247.3 ALF 178.14

LAUNCH DATE SEP 25 1965 FLIGHT TIME 216.00 ARRIVAL DATE APR 29 1966

HELIOCENTRIC CONIC DISTANCE 597.565

RL 150.02 LAL -.00 LOL 1.72 VL 27.058 GAL 8.81 AZL 88.92 HCA 273.20 SMA 127.97 ECC .22910 INC 1.0825 VI 29.701
RP 108.80 LAP -1.08 LOP 274.92 VP 37.450 GAP 10.10 AZP 89.94 TAL 146.84 TAP 60.04 RCA 98.65 APO 157.28 V2 34.830
RC 128.581 GL 5.25 GP 17.41 ZAL 32.96 ZAP 155.77 ETS 41.31 ZAE 118.20 ETE 170.41 ZAC 25.84 ETC 180.38 CLP-162.88

PLANETOCENTRIC CONIC

C3 30.517 VHL 5.524 DLA -6.85 RAL 329.42 RAD 6568.2 VEL 12.324 PTH 2.22 VHP 7.048 DPA -6.29 RAP 292.15 ECC 1.5022

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 55 22	2104.09	-16.74	34.61	196.25	113.17	10 30 26	1504.1	-13.46	27.46
90.00	20 10 34	5176.16	25.79	231.58	200.29	77.89	21 36 50	4576.2	23.87	223.44
100.00	11 13 26	1852.23	-17.91	15.55	195.71	114.34	11 44 18	1252.2	-14.48	8.44
100.00	21 35 11	4903.24	27.04	211.20	199.97	76.75	22 56 54	4303.2	24.95	203.02
110.00	12 14 12	1661.99	-21.03	359.50	194.10	117.59	12 41 54	1062.0	-17.17	352.50
110.00	22 50 54	4666.26	30.39	192.19	198.96	73.55	24 8 41	4066.3	27.84	183.93

DIFFERENTIAL CORRECTIONS

TDE 2.3710 TRA 5.5733 TC3-1.8432 BAU .7536
RDE .0859 RRA -.7638 RC3 .1222 FAU .01897
FDE 1.7280 FRA 3.6756 FC3 -.5381 BSP 21581
BDE 2.3725 BRA 5.6254 BC3 1.8472 FSP -1324

MID-COURSE EXECUTION ACCURACY

SGT 6640.0 SGR 814.2 SG3 369.7
RRT -.8697 RRF -.8567 RTF .9845
SGB 6689.8 R23 -.0054 R13 -.9845
SG1 6677.8 SG2 399.6 THA 173.89

ORBIT DETERMINATION ACCURACY

ST 3016.9 SR 255.4 SS 1297.3
CRT -.2587 CRS .2135 CST -.9389
LSA 3284.1 MSA 253.3 SSA 13.2
EL1 3017.6 EL2 246.7 ALF 178.74

LAUNCH DATE SEP 25 1965 FLIGHT TIME 218.00 ARRIVAL DATE MAY 1 1966

HELIOCENTRIC CONIC DISTANCE 603.155

RL 150.02 LAL -.00 LOL 1.72 VL 27.037 GAL 9.30 AZL 88.74 HCA 276.36 SMA 127.82 ECC .23561 INC 1.2648 VI 29.701
RP 108.82 LAP -1.26 LOP 278.08 VP 37.427 GAP 10.65 AZP 89.86 TAL 145.98 TAP 62.34 RCA 97.71 APO 157.94 V2 34.822
RC 130.911 GL 5.88 GP 16.69 ZAL 32.35 ZAP 157.29 ETS 42.96 ZAE 117.76 ETE 170.88 ZAC 27.41 ETC 178.40 CLP-164.37

PLANETOCENTRIC CONIC

C3 33.102 VHL 5.753 DLA -6.02 RAL 329.88 RAD 6568.3 VEL 12.429 PTH 2.25 VHP 7.360 DPA -6.83 RAP 293.84 ECC 1.5448

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 50 46	2150.97	-17.98	37.49	198.18	112.25	10 26 37	1551.0	-14.80	30.26
90.00	20 18 46	5170.18	25.71	231.17	201.90	77.70	21 44 56	4570.2	23.76	223.04
100.00	11 9 15	1897.77	-19.17	18.35	197.65	113.39	11 40 53	1297.8	-15.84	11.13
100.00	21 42 58	4898.61	26.97	210.87	201.58	76.59	23 4 36	4298.6	24.86	202.71
110.00	12 10 58	1704.56	-22.35	2.10	196.07	116.56	12 39 22	1104.6	-18.61	354.97
110.00	22 57 45	4664.58	30.36	192.07	200.55	73.48	24 15 29	4064.6	27.80	183.82

DIFFERENTIAL CORRECTIONS

TDE 2.5411 TRA 5.8690 TC3-1.6961 BAU .7520
RDE .1079 RRA -.7457 RC3 .1025 FAU .01617
FDE 1.7026 FRA 3.5983 FC3 -.4229 BSP 21804
BDE 2.5434 BRA 5.9162 BC3 1.6992 FSP -1242

MID-COURSE EXECUTION ACCURACY

SGT 6689.8 SGR 763.6 SG3 346.6
RRT -.8510 RRF -.8376 RTF .9843
SGB 6733.3 R23 -.0057 R13 -.9843
SG1 6721.4 SG2 399.2 THA 174.43

ORBIT DETERMINATION ACCURACY

ST 3084.8 SR 248.5 SS 1278.8
CRT -.1609 CRS .1202 CST -.9991
LSA 3339.2 MSA 250.2 SSA 13.0
EL1 3085.1 EL2 245.2 ALF 179.25

LAUNCH DATE SEP 25 1965 FLIGHT TIME 220.00 ARRIVAL DATE MAY 3 1966

HELIOCENTRIC CONIC DISTANCE 608.673

RL 150.02 LAL -.00 LOL 1.72 VL 27.015 GAL 9.83 AZL 88.55 HCA 279.53 SMA 127.68 ECC .24267 INC 1.4492 VI 29.701
RP 108.85 LAP -1.43 LOP 281.25 VP 37.405 GAP 11.23 AZP 89.76 TAL 145.11 TAP 64.64 RCA 96.69 APO 158.66 V2 34.816
RC 133.236 GL 6.44 GP 16.03 ZAL 31.77 ZAP 158.73 ETS 44.83 ZAE 117.34 ETE 171.30 ZAC 29.06 ETC 176.75 CLP-165.82

PLANETOCENTRIC CONIC

C3 36.014 VHL 6.001 DLA -5.25 RAL 330.33 RAD 6568.4 VEL 12.545 PTH 2.27 VHP 7.694 DPA -7.28 RAP 295.57 ECC 1.5927

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 46 43	2196.55	-19.13	40.34	200.21	111.29	10 23 20	1596.5	-16.07	33.00
90.00	20 26 27	5167.17	25.66	230.96	203.61	77.60	21 52 35	4567.2	23.70	222.84
100.00	11 5 35	1942.13	-20.34	21.12	199.69	112.39	11 37 57	1342.1	-17.13	13.80
100.00	21 50 16	4896.82	26.94	210.75	203.28	76.53	23 11 53	4296.8	24.82	202.59
110.00	12 8 10	1746.22	-23.60	4.69	198.13	115.48	12 37 16	1146.2	-19.97	357.43
110.00	23 4 11	4665.49	30.38	192.14	202.23	73.52	24 21 57	4065.5	27.82	183.88

DIFFERENTIAL CORRECTIONS

TDE 2.7186 TRA 6.1814 TC3-1.5493 BAU .7471
RDE .1298 RRA -.7288 RC3 .0853 FAU .01353
FDE 1.6786 FRA 3.5283 FC3 -.3252 BSP 22001
BDE 2.7217 BRA 6.2242 BC3 1.5517 FSP -1165

MID-COURSE EXECUTION ACCURACY

SGT 6731.8 SGR 717.0 SG3 325.2
RRT -.8307 RRF -.8171 RTF .9841
SGB 6769.9 R23 -.0059 R13 -.9841
SG1 6758.2 SG2 397.5 THA 174.93

ORBIT DETERMINATION ACCURACY

ST 3146.6 SR 243.5 SS 1261.0
CRT -.0668 CRS .0306 CST -.9993
LSA 3389.6 MSA 246.7 SSA 12.8
EL1 3146.6 EL2 243.0 ALF 179.70

LAUNCH DATE SEP 26 1965 FLIGHT TIME 70.00 ARRIVAL DATE DEC 5 1965

HELIOCENTRIC CONIC DISTANCE 131.449

RL	149.98	LAL	-.00	LOL	2.70	VL	16.250	GAL	23.70	AZL	93.10	HCA	38.80	SMA	88.14	ECC	.75778	INC	3.1041	VI	29.709
RP	108.20	LAP	-1.34	LOP	41.46	VP	30.780	GAP	-47.93	AZP	92.42	TAL	171.67	TAP	210.46	RCA	21.35	APO	154.94	V2	35.023
RC	78.516	GL	-2.81	GP	-3.99	ZAL	64.72	ZAP	32.86	ETS	170.41	ZAE	135.66	ETE	180.09	ZAC	21.41	ETC	55.10	CLP	32.64

PLANETOCENTRIC CONIC

C3	270.332	VHL	16.444	DLA	-23.31	RAL	300.72	RAD	6571.6	VEL	19.791	PTH	3.13
VHP	26.915	DPA	-26.27	RAP	251.94	ECC	5.4500						

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 37 23	1945.23	-12.25	25.10	197.60	115.73	11 9 48	1345.2	-8.69	18.23
90.00	15 31 41	962.42	17.88	328.67	210.84	112.33	15 47 44	362.4	20.75	321.17
100.00	11 40 35	1741.23	-14.68	8.89	196.39	116.34	12 9 36	1141.2	-11.02	2.01
100.00	17 11 11	641.66	20.37	306.15	211.92	112.36	17 21 52	41.7	23.22	298.52
110.00	12 12 13	1642.04	-20.40	358.30	193.31	118.04	12 39 35	1042.0	-16.49	351.36
110.00	18 56 2	5601.65	26.31	261.82	214.61	112.65	20 29 23	5001.7	29.14	253.78

DIFFERENTIAL CORRECTIONS

TDE	-.4711	TRA	-1.8779	TC3	-.1172	BAU	.4238
RDE	-1.2495	RRA	.3804	RC3	.0012	FAU	.01168
FDE	.1752	FRA	.7066	FC3	-.0374	BSP	1744
BDE	1.3353	BRA	1.9160	BC3	.1172	FSP	-50

MID-COURSE EXECUTION ACCURACY

SGT	826.6	SGR	458.7	SG3	26.0		
RRT	-.0869	RRF	.0840	RTF	-.6171		
SGB	945.3	R23	-.0069	R13	.6178		
SG1	828.0	SG2	456.2	THA	176.03		

ORBIT DETERMINATION ACCURACY

ST	260.8	SR	437.5	SS	235.0		
CRT	.5271	CRS	.5225	CST	.9968		
LSA	497.7	MSA	267.3	SSA	14.1		
EL1	467.0	EL2	214.8	ALF	66.82		

LAUNCH DATE SEP 26 1965 FLIGHT TIME 72.00 ARRIVAL DATE DEC 7 1965

HELIOCENTRIC CONIC DISTANCE 137.069

RL	149.98	LAL	-.00	LOL	2.70	VL	17.004	GAL	22.66	AZL	92.67	HCA	41.99	SMA	89.64	ECC	.73101	INC	2.6698	VI	29.709
RP	108.16	LAP	-1.79	LOP	44.66	VP	31.199	GAP	-45.78	AZP	91.98	TAL	170.86	TAP	212.85	RCA	24.11	APO	155.16	V2	35.036
RC	76.333	GL	-2.67	GP	-4.09	ZAL	63.38	ZAP	31.36	ETS	169.86	ZAE	135.70	ETE	180.52	ZAC	20.67	ETC	59.16	CLP	31.12

PLANETOCENTRIC CONIC

C3	246.948	VHL	15.715	DLA	-22.90	RAL	302.11	RAD	6571.4	VEL	19.190	PTH	3.09
VHP	25.906	DPA	-26.68	RAP	253.76	ECC	5.0641						

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 36 57	1954.38	-12.52	25.64	198.07	115.60	11 9 31	1354.4	-8.98	18.76
90.00	15 43 12	929.31	18.72	326.60	211.52	111.64	15 58 41	329.3	21.50	319.03
100.00	11 41 1	1747.58	-14.87	9.27	196.90	116.23	12 10 8	1147.6	-11.22	2.37
100.00	17 21 49	611.34	21.14	304.23	212.54	111.64	17 32 0	11.3	23.89	296.51
110.00	12 14 2	1644.06	-20.46	358.42	193.89	118.00	12 41 26	1044.1	-16.56	351.47
110.00	19 5 17	5575.66	26.98	260.10	215.09	111.83	20 38 13	4975.7	29.70	251.96

DIFFERENTIAL CORRECTIONS

TDE	-.4459	TRA	-1.8508	TC3	-.1184	BAU	.3911
RDE	-1.2035	RRA	.3871	RC3	.0005	FAU	.01197
FDE	.1860	FRA	.7290	FC3	-.0420	BSP	2886
BDE	1.2834	BRA	1.8909	BC3	.1185	FSP	-66

MID-COURSE EXECUTION ACCURACY

SGT	837.6	SGR	464.8	SG3	28.0		
RRT	-.1066	RRF	.0944	RTF	-.6377		
SGB	957.9	R23	.0031	R13	.6383		
SG1	839.7	SG2	461.0	THA	175.15		

ORBIT DETERMINATION ACCURACY

ST	273.6	SR	441.2	SS	246.3		
CRT	.5073	CRS	.5311	CST	.9967		
LSA	504.2	MSA	275.3	SSA	14.0		
EL1	469.5	EL2	221.6	ALF	67.18		

LAUNCH DATE SEP 26 1965 FLIGHT TIME 74.00 ARRIVAL DATE DEC 9 1965

HELIOCENTRIC CONIC DISTANCE 142.806

RL	149.98	LAL	-.00	LOL	2.70	VL	17.711	GAL	21.67	AZL	92.29	HCA	45.19	SMA	91.15	ECC	.70445	INC	2.2859	VI	29.709
RP	108.12	LAP	-1.62	LOP	47.87	VP	31.605	GAP	-43.75	AZP	91.61	TAL	170.05	TAP	215.24	RCA	26.94	APO	155.35	V2	35.049
RC	74.169	GL	-2.50	GP	-4.21	ZAL	62.09	ZAP	29.89	ETS	169.25	ZAE	135.81	ETE	180.99	ZAC	20.05	ETC	63.57	CLP	29.62

PLANETOCENTRIC CONIC

C3	225.686	VHL	15.023	DLA	-22.46	RAL	303.43	RAD	6571.3	VEL	18.628	PTH	3.05
VHP	24.935	DPA	-27.07	RAP	255.63	ECC	4.7142						

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 36 14	1963.14	-12.78	26.15	198.44	115.48	11 8 57	1363.1	-9.25	19.26
90.00	15 54 29	895.34	19.56	324.46	212.07	110.89	16 9 25	295.3	22.23	316.81
100.00	11 41 8	1753.67	-15.05	9.63	197.31	116.14	12 10 22	1153.7	-11.42	2.72
100.00	17 32 16	5868.09	21.92	280.13	213.03	110.85	19 10 4	5268.1	24.55	272.33
110.00	12 15 31	1645.90	-20.52	358.53	194.38	117.96	12 42 57	1045.9	-16.62	351.58
110.00	19 14 23	5548.62	27.65	258.28	215.44	110.94	20 46 52	4948.6	30.24	250.05

DIFFERENTIAL CORRECTIONS

TDE	-.4854	TRA	-1.8901	TC3	-.1302	BAU	.3928
RDE	-1.1565	RRA	.3938	RC3	-.0002	FAU	.01192
FDE	.2051	FRA	.7598	FC3	-.0457	BSP	2470
BDE	1.2543	BRA	1.9307	BC3	.1302	FSP	-66

MID-COURSE EXECUTION ACCURACY

SGT	892.0	SGR	470.1	SG3	30.3		
RRT	-.1069	RRF	.1002	RTF	-.6556		
SGB	1008.3	R23	-.0038	R13	.6563		
SG1	894.0	SG2	466.4	THA	175.57		

ORBIT DETERMINATION ACCURACY

ST	298.6	SR	443.8	SS	263.7		
CRT	.5301	CRS	.5508	CST	.9970		
LSA	524.4	MSA	283.7	SSA	14.4		
EL1	481.2	EL2	233.5	ALF	63.74		

LAUNCH DATE SEP 26 1965 FLIGHT TIME 76.00 ARRIVAL DATE DEC 11 1965

HELIOCENTRIC CONIC DISTANCE 148.645

RL	149.98	LAL	-.00	LOL	2.70	VL	18.374	GAL	20.74	AZL	91.94	HCA	48.39	SMA	92.67	ECC	.67818	INC	1.9421	VI	29.709
RP	108.08	LAP	-1.45	LOP	51.07	VP	31.995	GAP	-41.82	AZP	91.29	TAL	169.26	TAP	217.65	RCA	29.82	APO	155.51	V2	35.063
RC	72.025	GL	-2.32	GP	-4.33	ZAL	60.85	ZAP	28.45	ETS	168.56	ZAE	136.00	ETE	181.51	ZAC	19.56	ETC	68.31	CLP	28.14

PLANETOCENTRIC CONIC

C3	206.333	VHL	14.364	DLA	-22.01	RAL	304.69	RAD	6571.2	VEL	18.101	PTH	3.01
VHP	23.996	DPA	-27.45	RAP	257.53	ECC	4.3957						

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 35 15	1971.39	-13.02	26.64	198.72	115.37	11 8 7	1371.4	-9.50	19.73
90.00	16 5 31	860.57	20.39	322.25	212.48	110.09	16 19 52	260.6	22.94	314.51
100.00	11 40 57	1759.38	-15.22	9.97	197.63	116.04	12 10 16	1159.4	-11.60	3.05
100.00	17 42 31	5835.86	22.68	278.05	213.38	110.01	19 19 47	5235.9	25.20	270.15
110.00	12 16 39	1647.45	-20.57	358.62	194.77	117.92	12 44 6	1047.5	-16.68	351.66
110.00	19 23 18	5520.55	28.32	256.37	215.65	109.99	20 55 18	4920.5	30.78	248.03

DIFFERENTIAL CORRECTIONS

TDE	-.5041	TRA	-1.9100	TC3	-.1390	BAU	.3833
RDE	-1.1099	RRA	.3989	RC3	-.0012	FAU	.01199
FDE	.2223	FRA	.7889	FC3	-.0503	BSP	2532
BDE	1.2191	BRA	1.9512	BC3	.1390	FSP	-71

MID-COURSE EXECUTION ACCURACY

SGT	935.4	SGR	474.8	SG3	32.8		
RRT	-.1139	RRF	.1082	RTF	-.6735		
SGB	1049.1	R23	-.0055	R13	.6742		
SG1	937.5	SG2	470.7	THA	175.58		

ORBIT DETERMINATION ACCURACY

ST	318.4	SR	445.7	SS	280.1		
CRT	.5380	CRS	.5650	CST	.9970		
LSA	541.7	MSA	291.2	SSA	14.6		
EL1	490.4	EL2	243.9	ALF	61.26		

LAUNCH DATE SEP 26 1965 FLIGHT TIME 78.00 ARRIVAL DATE DEC 13 1965

HELIOCENTRIC CONIC DISTANCE 154.583

RL	149.98	LAL	-.00	LOL	2.70	VL	18.996	GAL	19.85	AZL	91.63	HCA	51.59	SMA	94.20	ECC	.65233	INC	1.6307	V1	29.709
RP	108.04	LAP	-1.28	LOP	54.28	VP	32.371	GAP	-39.38	AZP	91.01	TAL	168.49	TAP	220.08	RCA	32.75	APO	155.65	V2	35.076
RC	69.906	GL	-2.12	GP	-4.47	ZAL	59.65	ZAP	27.03	ETS	167.79	ZAE	136.28	ETE	182.09	ZAC	19.21	ETC	73.34	CLP	26.68

PLANETOCENTRIC CONIC

C3	188.707	VHL	13.737	DLA	-21.54	RAL	305.89	RAD	6571.0	VEL	17.608	PTH	2.98	VHP	23.089	DPA	-27.83	RAP	259.46	ECC	4.1056

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 34 0	1979.16	-13.25	27.10	198.90	115.26	11 7 0	1379.2	-9.74	20.18
90.00	16 16 18	824.96	21.20	319.96	212.74	109.22	16 30 2	225.0	23.63	312.13
100.00	11 40 27	1764.72	-15.38	10.28	197.84	115.95	12 9 52	1164.7	-11.77	3.36
100.00	17 52 32	5802.67	23.44	275.87	213.58	109.10	19 29 15	5202.7	25.83	267.89
110.00	12 17 27	1648.72	-20.61	358.70	195.05	117.89	12 44 56	1048.7	-16.72	351.74
110.00	19 32 1	5491.43	28.98	254.36	215.71	108.97	21 3 32	4891.4	31.29	245.92

DIFFERENTIAL CORRECTIONS

TDE	-.5189	TRA	-1.9272	TC3	-.1474	BAU	.3718												
RDE	-1.0636	RRA	.4028	RC3	-.0025	FAU	.01210												
FDE	.2397	FRA	.8184	FC3	-.0555	BSP	2672												
BDE	1.1834	BRA	1.9689	BC3	.1474	FSP	-78												

MID-COURSE EXECUTION ACCURACY

SGT	978.5	SGR	479.0	SG3	35.4														
RRT	-.1223	RRF	.1170	RTF	-.6909														
SGB	1089.5	R23	-.0066	R13	.6917														
SG1	980.8	SG2	474.3	THA	175.53														

ORBIT DETERMINATION ACCURACY

ST	337.9	SR	446.9	SS	296.8														
CRT	.5428	CRS	.5772	CST	.9969														
LSA	559.5	MSA	298.0	SSA	14.8														
EL1	499.4	EL2	254.0	ALF	58.77														

LAUNCH DATE SEP 26 1965 FLIGHT TIME 80.00 ARRIVAL DATE DEC 15 1965

HELIOCENTRIC CONIC DISTANCE 160.613

RL	149.98	LAL	-.00	LOL	2.70	VL	19.580	GAL	18.99	AZL	91.35	HCA	54.80	SMA	95.73	ECC	.62698	INC	1.3455	V1	29.709
RP	108.00	LAP	-1.10	LOP	57.49	VP	32.730	GAP	-38.23	AZP	90.78	TAL	167.72	TAP	222.52	RCA	35.71	APO	155.75	V2	35.089
RC	67.813	GL	-1.90	GP	-4.62	ZAL	58.51	ZAP	25.63	ETS	166.92	ZAE	136.64	ETE	182.73	ZAC	19.03	ETC	78.57	CLP	25.24

PLANETOCENTRIC CONIC

C3	172.638	VHL	13.139	DLA	-21.05	RAL	307.02	RAD	6570.9	VEL	17.145	PTH	2.94	VHP	22.212	DPA	-28.20	RAP	261.42	ECC	3.8412

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 32 29	1986.46	-13.46	27.53	198.98	115.15	11 5 36	1386.5	-9.96	20.60
90.00	16 26 49	788.49	22.00	317.58	212.85	108.29	16 39 58	188.5	24.30	309.66
100.00	11 39 39	1769.70	-15.53	10.58	197.96	115.87	12 9 9	1169.7	-11.92	3.64
100.00	18 2 21	5768.52	24.18	273.61	213.63	108.13	19 38 29	5168.5	26.43	265.53
110.00	12 17 56	1649.72	-20.64	358.76	195.23	117.87	12 45 26	1049.7	-16.75	351.79
110.00	19 40 33	5461.27	29.63	252.26	215.61	107.88	21 11 34	4861.3	31.79	243.71

DIFFERENTIAL CORRECTIONS

TDE	-.5311	TRA	-1.9427	TC3	-.1554	BAU	.3588												
RDE	-1.0175	RRA	.4057	RC3	-.0040	FAU	.01223												
FDE	.2573	FRA	.8485	FC3	-.0613	BSP	2863												
BDE	1.1478	BRA	1.9846	BC3	.1555	FSP	-86												

MID-COURSE EXECUTION ACCURACY

SGT	1022.0	SGR	482.6	SG3	38.2														
RRT	-.1319	RRF	.1267	RTF	-.7078														
SGB	1130.2	R23	-.0074	R13	.7086														
SG1	1024.5	SG2	477.2	THA	175.44														

ORBIT DETERMINATION ACCURACY

ST	357.7	SR	447.3	SS	313.9														
CRT	.5454	CRS	.5879	CST	.9966														
LSA	577.8	MSA	304.1	SSA	15.0														
EL1	508.4	EL2	263.8	ALF	56.23														

LAUNCH DATE SEP 26 1965 FLIGHT TIME 82.00 ARRIVAL DATE DEC 17 1965

HELIOCENTRIC CONIC DISTANCE 166.730

RL	149.98	LAL	-.00	LOL	2.70	VL	20.127	GAL	18.17	AZL	91.08	HCA	58.01	SMA	97.25	ECC	.60221	INC	1.0818	V1	29.709
RP	107.96	LAP	-.92	LOP	60.71	VP	33.074	GAP	-36.56	AZP	90.57	TAL	166.98	TAP	224.99	RCA	38.69	APO	155.82	V2	35.101
RC	65.751	GL	-1.65	GP	-4.78	ZAL	57.42	ZAP	24.26	ETS	165.93	ZAE	137.09	ETE	183.44	ZAC	19.03	ETC	83.93	CLP	23.81

PLANETOCENTRIC CONIC

C3	157.982	VHL	12.569	DLA	-20.54	RAL	308.08	RAD	6570.7	VEL	16.713	PTH	2.90	VHP	21.364	DPA	-28.56	RAP	263.41	ECC	3.6000

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 30 41	1993.33	-13.66	27.94	198.96	115.05	11 3 54	1393.3	-10.17	20.99
90.00	16 37 7	751.14	22.78	315.12	212.81	107.29	16 49 38	151.1	24.93	307.11
100.00	11 38 32	1774.35	-15.67	10.85	197.97	115.79	12 8 7	1174.3	-12.07	3.91
100.00	18 11 57	5733.39	24.90	271.25	213.53	107.09	19 47 30	5133.4	27.01	263.08
110.00	12 18 4	1650.45	-20.67	358.80	195.31	117.85	12 45 35	1050.4	-16.78	351.84
110.00	19 48 54	5430.06	30.26	250.05	215.37	106.71	21 19 24	4830.1	32.25	241.39

DIFFERENTIAL CORRECTIONS

TDE	-.5446	TRA	-1.9603	TC3	-.1640	BAU	.3466												
RDE	-.9716	RRA	.4078	RC3	-.0058	FAU	.01238												
FDE	.2758	FRA	.8797	FC3	-.0678	BSP	3006												
BDE	1.1138	BRA	2.0023	BC3	.1641	FSP	-94												

MID-COURSE EXECUTION ACCURACY

SGT	1068.8	SGR	485.6	SG3	41.3														
RRT	-.1416	RRF	.1371	RTF	-.7238														
SGB	1173.9	R23	-.0089	R13	.7246														
SG1	1071.5	SG2	479.4	THA	175.39														

ORBIT DETERMINATION ACCURACY

ST	379.1	SR	446.9	SS	331.9														
CRT	.5484	CRS	.5976	CST	.9963														
LSA	598.1	MSA	309.4	SSA	15.2														
EL1	518.4	EL2	273.3	ALF	53.38														

LAUNCH DATE SEP 26 1965 FLIGHT TIME 84.00 ARRIVAL DATE DEC 19 1965

HELIOCENTRIC CONIC DISTANCE 172.927

RL	149.98	LAL	-.00	LOL	2.70	VL	20.641	GAL	17.39	AZL	90.84	HCA	61.22	SMA	98.77	ECC	.57806	INC	.8358	V1	29.709
RP	107.92	LAP	-.73	LOP	63.92	VP	33.402	GAP	-34.96	AZP	90.40	TAL	166.26	TAP	227.48	RCA	41.67	APO	155.86	V2	35.114
RC	63.722	GL	-1.37	GP	-4.96	ZAL	56.38	ZAP	22.91	ETS	164.80	ZAE	137.63	ETE	184.24	ZAC	19.20	ETC	89.29	CLP	22.39

PLANETOCENTRIC CONIC

C3	144.606	VHL	12.025	DLA	-20.02	RAL	309.08	RAD	6570.6	VEL	16.308	PTH	2.86	VHP	20.542	DPA	-28.91	RAP	265.44	ECC	3.3798

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 28 35	1999.82	-13.85	28.32	198.85	114.95	11 1 55	1399.8	-10.37	21.37
90.00	16 47 11	712.86	23.53	312.56	212.62	106.22	16 59 4	112.9	25.53	304.46
100.00	11 37 6	1778.69	-15.80	11.11	197.89	115.71	12 6 45	1178.7	-12.21	4.16
100.00	18 21 21	5697.26	25.60	268.79	213.28	105.98	19 56 18	5097.3	27.55	260.53
110.00	12 17 52	1650.94	-20.68	358.83	195.30	117.84	12 45 23	1050.9	-16.80	351.86
110.00	19 57 4	5397.77	30.87	247.73	214.96	105.46	21 27 2	4797.8	32.68	238.97

DIFFERENTIAL CORRECTIONS

TDE	-.5557	TRA	-1.9763	TC3	-.1722	BAU	.3332												
RDE	-.9261	RRA	.4090	RC3	-.0079	FAU	.01255												
FDE	.2947	FRA	.9119	FC3	-.0751	BSP	3193												
BDE	1.0801	BRA	2.0182	BC3	.1723	FSP	-103												

MID-COURSE EXECUTION ACCURACY

SGT	1116.2	SGR	487.9	SG3	44.6														
RRT	-.1526	RRF	.1485	RTF	-.7394														
SGB	1218.2	R23	-.0101	R13	.7402														
SG1	1119.3	SG2	480.9	THA	175.32														

ORBIT DETERMINATION ACCURACY

ST	400.8	SR	445.6	SS	350.5														
CRT	.5495	CRS	.6060	CST	.9959														
LSA	619.2	MSA	313.8	SSA	15.4														
EL1	528.8	EL2	282.2	ALF	50.47														

LAUNCH DATE SEP 26 1965 FLIGHT TIME 86.00 ARRIVAL DATE DEC 21 1965

HELIOCENTRIC CONIC DISTANCE 179.200

RL 149.98 LAL -.00 LOL 2.70 VL 21.123 GAL 16.63 AZL 90.60 HCA 64.44 SMA 100.27 ECC .55460 INC .6043 VI 29.709
RP 107.89 LAP -.55 LOP 67.14 VP 33.715 GAP -33.43 AZP 90.26 TAL 165.56 TAP 230.00 RCA 44.66 APO 155.88 V2 35.126
RC 61.731 GL -1.06 GP -5.15 ZAL 55.38 ZAP 21.58 ETS 163.49 ZAE 138.26 ETE 185.12 ZAC 19.56 ETC 94.55 CLP 20.99

PLANETOCENTRIC CONIC

C3 132.393 VHL 11.506 DLA -19.47 RAL 310.02 RAD 6570.4 VEL 15.929 PTH 2.81 VHP 19.747 DPA -29.25 RAP 267.48 ECC 3.1789

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 26 11	2005.98	-14.02	28.69	198.64	114.86	10 59 37	1406.0	-10.56	21.73
90.00	16 57 2	673.63	24.25	309.91	212.28	105.08	17 8 16	73.6	26.09	301.73
100.00	11 35 21	1782.79	-15.92	11.36	197.71	115.64	12 5 4	1182.8	-12.34	4.40
100.00	18 30 34	5660.10	26.28	266.23	212.87	104.79	20 4 54	5060.1	28.05	257.88
110.00	12 17 20	1651.24	-20.69	358.85	195.18	117.84	12 44 51	1051.2	-16.81	351.88
110.00	20 5 4	5364.41	31.45	245.30	214.40	104.13	21 34 29	4764.4	33.07	236.45

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.5656 TRA-1.9914 TC3 -.1800 BAU .3192 SGT 1165.0 SGR 489.7 SG3 48.1 ST 423.1 SR 443.5 SS 369.7
RDE -.8810 RRA .4094 RC3 -.0105 FAU .01275 RRT -.1646 RRF .1609 RTF -.7543 CRT .5494 CRS .6134 CST .9953
FDE .3143 FRA .9451 FC3 -.0834 BSP 3394 SGB 1263.8 R23 -.0113 R13 .7551 LSA 641.4 MSA 317.4 SSA 15.5
BDE 1.0470 BRA 2.0331 BC3 .1803 FSP -113 SG1 1168.4 SG2 481.6 THA 175.23 EL1 539.8 EL2 290.5 ALF 47.44

LAUNCH DATE SEP 26 1965 FLIGHT TIME 88.00 ARRIVAL DATE DEC 23 1965

HELIOCENTRIC CONIC DISTANCE 185.543

RL 149.98 LAL -.00 LOL 2.70 VL 21.575 GAL 15.90 AZL 90.39 HCA 67.66 SMA 101.75 ECC .53186 INC .3848 VI 29.709
RP 107.85 LAP -.36 LOP 70.36 VP 34.012 GAP -31.97 AZP 90.15 TAL 164.89 TAP 232.55 RCA 47.63 APO 155.87 V2 35.138
RC 59.781 GL -.73 GP -5.36 ZAL 54.44 ZAP 20.29 ETS 161.98 ZAE 138.98 ETE 186.12 ZAC 20.10 ETC 99.61 CLP 19.60

PLANETOCENTRIC CONIC

C3 121.242 VHL 11.011 DLA -18.90 RAL 310.88 RAD 6570.3 VEL 15.575 PTH 2.77 VHP 18.977 DPA -29.59 RAP 269.56 ECC 2.9953

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 23 28	2011.91	-14.19	29.04	198.33	114.76	10 57 0	1411.9	-10.73	22.07
90.00	17 6 41	633.41	24.94	307.17	211.78	103.87	17 17 15	33.4	26.60	298.89
100.00	11 33 15	1786.71	-16.03	11.59	197.44	115.57	12 3 2	1186.7	-12.46	4.62
100.00	18 39 35	5621.88	26.91	263.57	212.32	103.53	20 13 17	5021.9	28.51	255.13
110.00	12 16 26	1651.42	-20.70	358.86	194.96	117.83	12 43 57	1051.4	-16.81	351.89
110.00	20 12 54	5329.94	32.00	242.76	213.68	102.72	21 41 44	4729.9	33.42	233.82

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.5745 TRA-2.0061 TC3 -.1876 BAU .3049 SGT 1215.6 SGR 490.9 SG3 52.0 ST 446.2 SR 440.4 SS 389.7
RDE -.8364 RRA .4093 RC3 -.0135 FAU .01297 RRT -.1777 RRF .1746 RTF -.7685 CRT .5484 CRS .6196 CST .9947
FDE .3346 FRA .9796 FC3 -.0926 BSP 3601 SGB 1310.9 R23 -.0128 R13 .7694 LSA 664.9 MSA 320.2 SSA 15.6
BDE 1.0147 BRA 2.0474 BC3 .1881 FSP -124 SG1 1219.3 SG2 481.6 THA 175.14 EL1 551.7 EL2 297.9 ALF 44.32

LAUNCH DATE SEP 26 1965 FLIGHT TIME 90.00 ARRIVAL DATE DEC 25 1965

HELIOCENTRIC CONIC DISTANCE 191.950

RL 149.98 LAL -.00 LOL 2.70 VL 21.999 GAL 15.21 AZL 90.18 HCA 70.88 SMA 103.21 ECC .50988 INC .1746 VI 29.709
RP 107.81 LAP -.17 LOP 73.58 VP 34.295 GAP -30.56 AZP 90.06 TAL 164.25 TAP 235.13 RCA 50.59 APO 155.84 V2 35.149
RC 57.879 GL -.35 GP -5.59 ZAL 53.55 ZAP 19.02 ETS 160.21 ZAE 139.81 ETE 187.24 ZAC 20.81 ETC 104.39 CLP 18.21

PLANETOCENTRIC CONIC

C3 111.061 VHL 10.539 DLA -18.31 RAL 311.69 RAD 6570.1 VEL 15.245 PTH 2.73 VHP 18.232 DPA -29.92 RAP 271.65 ECC 2.8278

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 20 25	2017.70	-14.36	29.39	197.94	114.67	10 54 2	1417.7	-10.91	22.40
90.00	17 16 9	5880.20	25.58	282.22	211.13	102.58	18 54 9	5280.2	27.06	273.87
100.00	11 30 48	1790.54	-16.14	11.82	197.07	115.50	12 0 39	1190.5	-12.58	4.84
100.00	18 48 26	5582.59	27.51	260.80	211.60	102.19	20 21 29	4982.6	28.91	252.28
110.00	12 15 10	1651.54	-20.70	358.87	194.66	117.83	12 42 42	1051.5	-16.82	351.90
110.00	20 20 34	5294.36	32.50	240.11	212.80	101.22	21 48 48	4694.4	33.71	231.08

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.5855 TRA-2.0231 TC3 -.1959 BAU .2919 SGT 1270.5 SGR 491.5 SG3 56.2 ST 471.5 SR 436.3 SS 410.8
RDE -.7921 RRA .4087 RC3 -.0170 FAU .01321 RRT -.1911 RRF .1893 RTF -.7818 CRT .5478 CRS .6252 CST .9941
FDE .3562 FRA 1.0159 FC3 -.1030 BSP 3749 SGB 1362.2 R23 -.0152 R13 .7828 LSA 691.1 MSA 321.9 SSA 15.8
BDE .9850 BRA 2.0640 BC3 .1966 FSP -135 SG1 1274.5 SG2 480.9 THA 175.07 EL1 565.8 EL2 304.2 ALF 40.97

LAUNCH DATE SEP 26 1965 FLIGHT TIME 92.00 ARRIVAL DATE DEC 27 1965

HELIOCENTRIC CONIC DISTANCE 198.416

RL 149.98 LAL -.00 LOL 2.70 VL 22.396 GAL 14.54 AZL 89.97 HCA 74.10 SMA 104.65 ECC .48866 INC .0232 VI 29.709
RP 107.78 LAP .03 LOP 76.80 VP 34.562 GAP -29.21 AZP 89.99 TAL 163.63 TAP 237.73 RCA 53.51 APO 155.79 V2 35.160
RC 56.028 GL .06 GP -5.84 ZAL 52.71 ZAP 17.79 ETS 158.14 ZAE 140.74 ETE 188.52 ZAC 21.67 ETC 108.84 CLP 16.83

PLANETOCENTRIC CONIC

C3 101.764 VHL 10.088 DLA -17.69 RAL 312.42 RAD 6570.0 VEL 14.937 PTH 2.69 VHP 17.510 DPA -30.24 RAP 273.77 ECC 2.6748

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 17 0	2023.46	-14.52	29.73	197.45	114.58	10 50 43	1423.5	-11.08	22.74
90.00	17 25 27	5837.88	26.17	279.27	210.33	101.21	19 2 45	5237.9	27.46	270.83
100.00	11 27 59	1794.38	-16.26	12.05	196.61	115.44	11 57 54	1194.4	-12.70	5.07
100.00	18 57 8	5542.19	28.05	257.93	210.74	100.77	20 29 31	4942.2	29.25	249.33
110.00	12 13 32	1651.69	-20.71	358.88	194.26	117.82	12 41 3	1051.7	-16.82	351.91
110.00	20 28 5	5257.65	32.95	237.34	211.76	99.64	21 55 43	4657.6	33.93	228.24

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.5932 TRA-2.0367 TC3 -.2028 BAU .2774 SGT 1324.8 SGR 491.5 SG3 60.7 ST 496.3 SR 431.3 SS 432.5
RDE -.7485 RRA .4076 RC3 -.0211 FAU .01349 RRT -.2065 RRF .2057 RTF -.7947 CRT .5450 CRS .6295 CST .9933
FDE .3784 FRA 1.0534 FC3 -.1148 BSP 3959 SGB 1413.1 R23 -.0173 R13 .7957 LSA 717.6 MSA 322.9 SSA 15.9
BDE .9550 BRA 2.0771 BC3 .2039 FSP -148 SG1 1329.3 SG2 479.3 THA 174.96 EL1 580.3 EL2 309.3 ALF 37.76

LAUNCH DATE SEP 26 1965 FLIGHT TIME 94.00 ARRIVAL DATE DEC 29 1965

HELIOCENTRIC CONIC DISTANCE 204.935

RL	149.98	LAL	-.00	LOL	2.70	VL	22.769	GAL	13.89	AZL	89.78	HCA	77.33	SMA	106.06	ECC	.46823	INC	.2217	V1	29.709
RP	107.75	LAP	.22	LOP	80.03	VP	34.816	GAP	-27.91	AZP	89.95	TAL	163.05	TAP	240.37	RCA	56.40	APO	155.72	V2	35.171
RC	54.237	GL	.51	GP	-6.12	ZAL	51.92	ZAP	16.60	ETS	155.69	ZAE	141.77	ETE	189.96	ZAC	22.68	ETC	112.92	CLP	15.46

PLANETOCENTRIC CONIC

C3	93.278	VHL	9.658	DLA	-17.04	RAL	313.09	RAD	6569.8	VEL	14.650	PTH	2.65	VHP	16.810	DPA	-30.56	RAP	275.90	ECC	2.5351

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 13 12	2029.33	-14.69	30.08	196.87	114.49	10 47 1	1429.3	-11.26	23.08
90.00	17 34 35	5794.46	26.71	276.20	209.37	99.77	19 11 10	5194.5	27.79	267.70
100.00	11 24 46	1798.37	-16.37	12.29	196.06	115.36	11 54 45	1198.4	-12.82	5.30
100.00	19 5 42	5500.65	28.55	254.94	209.72	99.27	20 37 22	4900.6	29.53	246.27
110.00	12 11 30	1652.00	-20.72	358.90	193.77	117.82	12 39 2	1052.0	-16.83	351.93
110.00	20 35 28	5219.78	33.35	234.45	210.57	97.98	22 2 28	4619.8	34.09	225.29

DIFFERENTIAL CORRECTIONS

TDE	-.5999	TRA	-2.0495	TC3	-.2090	BAU	.2627												
RDE	-.7054	RRA	.4063	RC3	-.0258	FAU	.01381												
FDE	.4018	FRA	1.0926	FC3	-.1281	BSP	4180												
BDE	.9260	BRA	2.0894	BC3	.2106	FSP	-162												

MID-COURSE EXECUTION ACCURACY

SGT	1380.9	SGR	491.1	SG3	65.7						
RRT	-.2235	RRF	.2238	RTF	-.8070						
SGB	1465.6	R23	-.0195	R13	.8080						
SG1	1385.8	SG2	476.9	THA	174.84						

ORBIT DETERMINATION ACCURACY

ST	521.9	SR	425.2	SS	455.2						
CRT	.5411	CRS	.6328	CST	.9924						
LSA	745.5	MSA	322.9	SSA	16.1						
EL1	595.9	EL2	313.2	ALF	34.57						

LAUNCH DATE SEP 26 1965 FLIGHT TIME 96.00 ARRIVAL DATE DEC 31 1965

HELIOCENTRIC CONIC DISTANCE 211.504

RL	149.98	LAL	-.00	LOL	2.70	VL	23.118	GAL	13.27	AZL	89.59	HCA	80.55	SMA	107.44	ECC	.44860	INC	.4125	V1	29.709
RP	107.72	LAP	.41	LOP	83.26	VP	35.056	GAP	-26.65	AZP	89.93	TAL	162.50	TAP	243.05	RCA	59.24	APO	155.63	V2	35.181
RC	52.511	GL	1.00	GP	-6.42	ZAL	51.18	ZAP	15.46	ETS	152.78	ZAE	142.90	ETE	191.62	ZAC	23.82	ETC	116.63	CLP	14.09

PLANETOCENTRIC CONIC

C3	85.536	VHL	9.249	DLA	-16.36	RAL	313.70	RAD	6569.7	VEL	14.383	PTH	2.61	VHP	16.133	DPA	-30.88	RAP	278.05	ECC	2.4077

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 9 0	2035.46	-14.86	30.45	196.21	114.39	10 42 55	1435.5	-11.44	23.44
90.00	17 43 36	5749.90	27.19	273.03	208.27	98.24	19 19 26	5149.9	28.05	264.46
100.00	11 21 9	1802.65	-16.50	12.55	195.42	115.29	11 51 12	1202.7	-12.96	5.54
100.00	19 14 8	5457.94	28.98	251.83	208.55	97.69	20 45 6	4857.9	29.74	243.11
110.00	12 9 3	1652.60	-20.74	358.93	193.19	117.80	12 36 35	1052.6	-16.85	351.96
110.00	20 42 43	5180.76	33.68	231.46	209.22	96.23	22 9 4	4580.8	34.17	222.25

DIFFERENTIAL CORRECTIONS

TDE	-.6062	TRA	-2.0616	TC3	-.2145	BAU	.2479												
RDE	-.6628	RRA	.4049	RC3	-.0314	FAU	.01415												
FDE	.4264	FRA	1.1339	FC3	-.1433	BSP	4397												
BDE	.8982	BRA	2.1009	BC3	.2168	FSP	-177												

MID-COURSE EXECUTION ACCURACY

SGT	1438.8	SGR	490.2	SG3	71.0						
RRT	-.2421	RRF	.2439	RTF	-.8187						
SGB	1520.0	R23	-.0222	R13	.8198						
SG1	1444.3	SG2	473.8	THA	174.71						

ORBIT DETERMINATION ACCURACY

ST	548.3	SR	418.0	SS	479.0						
CRT	.5362	CRS	.6351	CST	.9915						
LSA	775.1	MSA	322.1	SSA	16.2						
EL1	613.0	EL2	315.6	ALF	31.44						

LAUNCH DATE SEP 26 1965 FLIGHT TIME 98.00 ARRIVAL DATE JAN 2 1966

HELIOCENTRIC CONIC DISTANCE 218.116

RL	149.98	LAL	-.00	LOL	2.70	VL	23.446	GAL	12.67	AZL	89.40	HCA	83.78	SMA	108.78	ECC	.42977	INC	.5999	V1	29.709
RP	107.69	LAP	.60	LOP	86.48	VP	35.282	GAP	-25.45	AZP	89.93	TAL	161.98	TAP	245.76	RCA	62.03	APO	155.53	V2	35.191
RC	50.858	GL	1.55	GP	-6.76	ZAL	50.50	ZAP	14.38	ETS	149.31	ZAE	144.12	ETE	193.52	ZAC	25.07	ETC	119.98	CLP	12.72

PLANETOCENTRIC CONIC

C3	78.476	VHL	8.859	DLA	-15.65	RAL	314.23	RAD	6569.5	VEL	14.136	PTH	2.58	VHP	15.477	DPA	-31.20	RAP	280.21	ECC	2.2915

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 4 21	2042.03	-15.04	30.84	195.47	114.28	10 38 23	1442.0	-11.64	23.82
90.00	17 52 30	5704.15	27.59	269.74	207.02	96.64	19 27 34	5104.2	28.22	261.13
100.00	11 17 5	1807.38	-16.64	12.83	194.71	115.20	11 47 12	1207.4	-13.10	5.82
100.00	19 22 27	5414.04	29.33	248.62	207.24	96.03	20 52 41	4814.0	29.86	239.85
110.00	12 6 10	1653.64	-20.77	358.99	192.53	117.78	12 33 43	1053.6	-16.89	352.02
110.00	20 49 52	5140.55	33.93	228.34	207.73	94.41	22 15 32	4540.5	34.17	219.11

DIFFERENTIAL CORRECTIONS

TDE	-.6115	TRA	-2.0723	TC3	-.2189	BAU	.2330												
RDE	-.6208	RRA	.4035	RC3	-.0377	FAU	.01454												
FDE	.4524	FRA	1.1771	FC3	-.1605	BSP	4626												
BDE	.8714	BRA	2.1112	BC3	.2221	FSP	-194												

MID-COURSE EXECUTION ACCURACY

SGT	1498.0	SGR	489.0	SG3	76.9						
RRT	-.2628	RRF	.2661	RTF	-.8298						
SGB	1575.8	R23	-.0252	R13	.8309						
SG1	1504.1	SG2	469.9	THA	174.57						

ORBIT DETERMINATION ACCURACY

ST	575.3	SR	409.7	SS	503.8						
CRT	.5299	CRS	.6361	CST	.9905						
LSA	806.0	MSA	320.4	SSA	16.3						
EL1	631.3	EL2	316.6	ALF	28.43						

LAUNCH DATE SEP 26 1965 FLIGHT TIME 100.00 ARRIVAL DATE JAN 4 1966

HELIOCENTRIC CONIC DISTANCE 224.767

RL	149.98	LAL	-.00	LOL	2.70	VL	23.752	GAL	12.10	AZL	89.21	HCA	87.01	SMA	110.08	ECC	.41174	INC	.7851	V1	29.709
RP	107.66	LAP	.78	LOP	89.72	VP	35.495	GAP	-24.28	AZP	89.96	TAL	161.50	TAP	248.51	RCA	64.76	APO	155.41	V2	35.200
RC	49.288	GL	2.15	GP	-7.13	ZAL	49.88	ZAP	13.37	ETS	145.16	ZAE	145.44	ETE	195.73	ZAC	26.42	ETC	122.97	CLP	11.35

PLANETOCENTRIC CONIC

C3	72.045	VHL	8.488	DLA	-14.89	RAL	314.69	RAD	6569.4	VEL	13.907	PTH	2.54	VHP	14.843	DPA	-31.52	RAP	282.39	ECC	2.1857

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 59 15	2049.24	-15.24	31.28	194.65	114.16	10 33 24	1449.2	-11.85	24.24
90.00	18 1 18	5657.18	27.91	266.34	205.64	94.97	19 35 35	5057.2	28.31	257.70
100.00	11 12 33	1812.76	-16.79	13.15	193.92	115.10	11 42 45	1212.8	-13.27	6.13
100.00	19 30 42	5368.89	29.61	245.29	205.79	94.30	21 0 11	4768.9	29.89	236.50
110.00	12 2 49	1655.29	-20.82	359.09	191.80	117.74	12 30 24	1055.3	-16.94	352.11
110.00	20 56 55	5099.13	34.10	225.12	206.11	92.51	22 21 54	4499.1	34.07	215.87

DIFFERENTIAL CORRECTIONS

TDE	-.6165	TRA	-2.0824	TC3	-.2222	BAU	.2184												
RDE	-.5793	RRA	.4023	RC3	-.0451	FAU	.01497												
FDE	.4802	FRA	1.2229	FC3	-.1799	BSP	4853												
BDE	.8460	BRA	2.1209	BC3	.2267	FSP	-213												

MID-COURSE EXECUTION ACCURACY

SGT	1559.2	SGR	487.6	SG3	83.2						
RRT	-.2856	RRF	.2909	RTF	-.8403						
SGB	1633.7	R23	-.0286	R13	.8415						
SG1	1566.1	SG2	465.2	THA	174.40						

ORBIT DETERMINATION ACCURACY

ST	603.1	SR	400.0	SS	530.0						
CRT	.5222	CRS	.6359	CST	.9894						
LSA	838.7	MSA	317.8	SSA	16.4						
EL1	651.1	EL2	316.0	ALF	25.52						

LAUNCH DATE SEP 26 1965 FLIGHT TIME 102.00 ARRIVAL DATE JAN 6 1966

HELIOCENTRIC CONIC DISTANCE 231.453

RL	149.98	LAL	-.00	LOL	2.70	VL	24.039	GAL	11.55	AZL	89.03	HCA	90.25	SMA	111.35	ECC	.39452	INC	.9692
RP	107.63	LAP	.97	LOP	92.95	VP	35.696	GAP	-23.16	AZP	90.00	TAL	161.05	TAP	251.30	RCA	67.42	APO	155.28
RC	47.809	GL	2.81	GP	-7.53	ZAL	49.31	ZAP	12.47	ETS	140.22	ZAE	146.83	ETE	198.29	ZAC	27.87	ETC	125.63

VI	29.709																		
V2	35.209																		
CLP	9.97																		

PLANETOCENTRIC CONIC

C3	66.191	VHL	8.136	DLA	-14.10	RAL	315.09	RAD	6569.3	VEL	13.695	PTH	2.50	VHP	14.229	DPA	-31.85	RAP	284.58

ECC	2.0893																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 53 39	2057.30	-15.47	31.76	193.77	114.02	10 27 56	1457.3	-12.09	24.71
90.00	18 10 3	5608.94	28.15	262.83	204.12	93.22	19 43 32	5008.9	28.30	254.17
100.00	11 7 30	1818.99	-16.97	13.53	193.05	114.98	11 37 49	1219.0	-13.46	6.49
100.00	19 38 53	5322.48	29.80	241.85	204.21	92.50	21 7 35	4722.5	29.83	233.05
110.00	11 58 59	1657.75	-20.90	359.24	191.00	117.69	12 26 37	1057.7	-17.03	352.25
110.00	21 3 53	5056.49	34.18	221.79	204.35	90.54	22 28 10	4456.5	33.88	212.56

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-.6236	TRA	-2.0939	TC3	-.2257	BAU	.2052	SGT	1624.6	SGR	486.0	SG3	90.2	ST	633.3	SR	389.0	SS	558.1
RDE	-.5382	RRA	.4016	RC3	-.0534	FAU	.01542	RRT	-.3102	RRF	.3184	RTF	-.8500	CRT	.5139	CRS	.6342	CST	.9884
FDE	.5104	FRA	1.2719	FC3	-.2017	BSP	5023	SGB	1695.7	R23	-.0334	R13	.8513	LSA	874.6	MSA	314.2	SSA	16.5
BDE	.8238	BRA	2.1320	BC3	.2319	FSP	-232	SG1	1632.2	SG2	459.9	THA	174.24	EL1	673.8	EL2	313.6	ALF	22.70

LAUNCH DATE SEP 26 1965 FLIGHT TIME 104.00 ARRIVAL DATE JAN 8 1966

HELIOCENTRIC CONIC DISTANCE 238.169

RL	149.98	LAL	-.00	LOL	2.70	VL	24.307	GAL	11.02	AZL	88.85	HCA	93.48	SMA	112.57	ECC	.37808	INC	1.1536
RP	107.61	LAP	1.15	LOP	96.18	VP	35.885	GAP	-22.08	AZP	90.07	TAL	160.65	TAP	254.13	RCA	70.01	APO	155.13
RC	46.433	GL	3.53	GP	-7.98	ZAL	48.81	ZAP	11.70	ETS	134.38	ZAE	148.27	ETE	201.28	ZAC	29.39	ETC	127.99

VI	29.709																		
V2	35.217																		
CLP	8.59																		

PLANETOCENTRIC CONIC

C3	60.869	VHL	7.802	DLA	-13.25	RAL	315.41	RAD	6569.1	VEL	13.499	PTH	2.47	VHP	13.636	DPA	-32.20	RAP	286.78

ECC	2.0017																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 47 30	2066.45	-15.72	32.32	192.82	113.86	10 21 56	1466.5	-12.36	25.25
90.00	18 18 47	5559.36	28.28	259.21	202.48	91.41	19 51 26	4959.4	28.18	250.55
100.00	11 1 53	1826.30	-17.18	13.98	192.13	114.84	11 32 20	1226.3	-13.69	6.93
100.00	19 47 2	5274.75	29.89	238.31	202.51	90.64	21 14 57	4674.7	29.65	229.51
110.00	11 54 38	1661.23	-21.01	359.45	190.13	117.61	12 22 19	1061.2	-17.15	352.45
110.00	21 10 49	5012.59	34.15	218.36	202.47	88.51	22 34 21	4412.6	33.57	209.17

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-.6280	TRA	-2.1018	TC3	-.2260	BAU	.1909	SGT	1688.7	SGR	484.7	SG3	97.8	ST	662.6	SR	376.6	SS	587.3
RDE	-.4976	RRA	.4013	RC3	-.0630	FAU	.01593	RRT	-.3384	RRF	.3491	RTF	-.8594	CRT	.5023	CRS	.6304	CST	.9871
FDE	.5424	FRA	1.3232	FC3	-.2266	BSP	5254	SGB	1756.8	R23	-.0379	R13	.8608	LSA	910.8	MSA	309.9	SSA	16.6
BDE	.8012	BRA	2.1397	BC3	.2346	FSP	-254	SG1	1697.2	SG2	453.8	THA	174.02	EL1	696.3	EL2	309.9	ALF	20.07

LAUNCH DATE SEP 26 1965 FLIGHT TIME 106.00 ARRIVAL DATE JAN 10 1966

HELIOCENTRIC CONIC DISTANCE 244.910

RL	149.98	LAL	-.00	LOL	2.70	VL	24.557	GAL	10.52	AZL	88.66	HCA	96.72	SMA	113.75	ECC	.36244	INC	1.3392
RP	107.58	LAP	1.33	LOP	99.42	VP	36.062	GAP	-21.03	AZP	90.16	TAL	160.28	TAP	257.00	RCA	72.52	APO	154.98
RC	45.168	GL	4.32	GP	-8.48	ZAL	48.37	ZAP	11.11	ETS	127.61	ZAE	149.74	ETE	204.79	ZAC	30.99	ETC	130.07

VI	29.709																		
V2	35.224																		
CLP	7.20																		

PLANETOCENTRIC CONIC

C3	56.038	VHL	7.486	DLA	-12.35	RAL	315.66	RAD	6569.0	VEL	13.319	PTH	2.43	VHP	13.062	DPA	-32.56	RAP	288.98

ECC	1.9222																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 40 45	2076.98	-16.01	32.95	191.81	113.67	10 15 22	1477.0	-12.67	25.86
90.00	18 27 30	5508.41	28.31	255.48	200.72	89.54	19 59 18	4908.4	27.95	246.84
100.00	10 55 46	1834.96	-17.43	14.50	191.15	114.68	11 26 21	1235.0	-13.95	7.43
100.00	19 55 10	5225.65	29.87	234.66	200.70	88.72	21 22 16	4625.7	29.37	225.89
110.00	11 49 44	1665.98	-21.16	359.74	189.21	117.50	12 17 29	1066.0	-17.31	352.73
110.00	21 17 42	4967.40	34.02	214.84	200.49	86.43	22 40 30	4367.4	33.15	205.71

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-.6318	TRA	-2.1083	TC3	-.2244	BAU	.1770	SGT	1753.7	SGR	483.7	SG3	106.0	ST	692.5	SR	362.6	SS	618.2
RDE	-.4574	RRA	.4019	RC3	-.0739	FAU	.01650	RRT	-.3698	RRF	.3834	RTF	-.8683	CRT	.4879	CRS	.6241	CST	.9858
FDE	.5770	FRA	1.3779	FC3	-.2549	BSP	5495	SGB	1819.2	R23	-.0430	R13	.8698	LSA	948.7	MSA	304.8	SSA	16.7
BDE	.7800	BRA	2.1463	BC3	.2362	FSP	-278	SG1	1763.5	SG2	447.0	THA	173.77	EL1	720.0	EL2	304.5	ALF	17.57

LAUNCH DATE SEP 26 1965 FLIGHT TIME 108.00 ARRIVAL DATE JAN 12 1966

HELIOCENTRIC CONIC DISTANCE 251.673

RL	149.98	LAL	-.00	LOL	2.70	VL	24.791	GAL	10.03	AZL	88.47	HCA	99.95	SMA	114.89	ECC	.34756	INC	1.5275
RP	107.56	LAP	1.50	LOP	102.66	VP	36.229	GAP	-20.02	AZP	90.26	TAL	159.95	TAP	259.91	RCA	74.96	APO	154.82
RC	44.025	GL	5.19	GP	-9.03	ZAL	48.00	ZAP	10.72	ETS	119.96	ZAE	151.19	ETE	208.90	ZAC	32.65	ETC	131.89

VI	29.709																		
V2	35.231																		
CLP	5.80																		

PLANETOCENTRIC CONIC

C3	51.660	VHL	7.187	DLA	-11.39	RAL	315.83	RAD	6568.9	VEL	13.154	PTH	2.40	VHP	12.509	DPA	-32.95	RAP	291.20

ECC	1.8502																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 33 23	2089.16	-16.34	33.69	190.76	113.45	10 8 13	1489.2	-13.03	26.58
90.00	18 36 16	5456.00	28.23	251.65	198.87	87.63	20 7 12	4856.0	27.60	243.04
100.00	10 48 59	1845.26	-17.72	15.12	190.11	114.48	11 19 45	1245.3	-14.27	8.03
100.00	20 3 21	5175.13	29.73	230.91	198.78	86.75	21 29 36	4575.1	28.96	222.19
110.00	11 44 14	1672.27	-21.36	.12	188.24	117.35	12 12 6	1072.3	-17.52	353.09
110.00	21 24 36	4920.89	33.76	211.23	198.41	84.31	22 46 37	4320.9	32.61	202.19

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-.6360	TRA	-2.1138	TC3	-.2206	BAU	.1636	SGT	1819.9	SGR	483.6	SG3	115.1	ST	723.2	SR	347.0	SS	651.2
RDE	-.4174	RRA	.4036	RC3	-.0864	FAU	.01712	RRT	-.4046	RRF	.4214	RTF	-.8766	CRT	.4700	CRS	.6146	CST	.9845
FDE	.6148	FRA	1.4362	FC3	-.2870	BSP	5731	SGB	1883.1	R23	-.0490	R13	.8783	LSA	988.9	MSA	298.9	SSA	16.8
BDE	.7607	BRA	2.1519	BC3	.2369	FSP	-305	SG1	1831.0	SG2	439.5	THA	173.49	EL1	745.0	EL2	297.3	ALF	15.18

LAUNCH DATE SEP 26 1965 FLIGHT TIME 110.00 ARRIVAL DATE JAN 14 1966

HELIOCENTRIC CONIC DISTANCE 258.454

RL	149.98	LAL	-.00	LOL	2.70	VL	25.010	GAL	9.57	AZL	88.28	HCA	103.19	SMA	115.98	ECC	.33345	INC	1.7196	VI	29.709
RP	107.55	LAP	1.67	LOP	105.90	VP	36.384	GAP	-19.04	AZP	90.39	TAL	159.67	TAP	262.86	RCA	77.31	APO	154.66	V2	35.237
RC	43.015	GL	6.15	GP	-9.65	ZAL	47.70	ZAP	10.59	ETS	111.69	ZAE	152.57	ETE	213.72	ZAC	34.37	ETC	133.48	CLP	4.38

PLANETOCENTRIC CONIC

C3	47.702	VHL	6.907	DLA	-10.36	RAL	315.93	RAD	6568.8	VEL	13.002	PTH	2.37	VHP	11.975	DPA	-33.38	RAP	293.42	ECC	1.7850

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 25 20	2103.33	-16.72	34.56	189.66	113.19	10 0 24	1503.3	-13.44	27.42
90.00	18 45 5	5402.07	28.01	247.72	196.93	85.67	20 15 8	4802.1	27.12	239.17
100.00	10 41 32	1857.51	-18.06	15.87	189.04	114.23	11 12 30	1257.5	-14.64	8.75
100.00	20 11 35	5123.12	29.47	227.07	196.79	84.74	21 36 58	4523.1	28.43	218.42
110.00	11 38 6	1680.39	-21.61	.62	187.23	117.15	12 6 6	1080.4	-17.80	353.56
110.00	21 31 31	4873.00	33.38	207.55	196.26	82.16	22 52 44	4273.0	31.34	198.62

DIFFERENTIAL CORRECTIONS

TDE	-.6398	TRA	-2.1180	TC3	-.2142	BAU	.1509												
RDE	-.3774	RRA	.4066	RC3	-.1005	FAU	.01780												
FDE	.6559	FRA	1.4985	FC3	-.3231	BSP	5977												
BDE	.7429	BRA	2.1567	BC3	.2366	FSP	-334												

MID-COURSE EXECUTION ACCURACY

SGT	1886.7	SGR	484.7	SG3	125.0						
RRT	-.4431	RRF	.4635	RTF	-.8845						
SGB	1948.0	R23	-.0556	R13	.8864						
SG1	1899.6	SG2	431.5	THA	173.15						

ORBIT DETERMINATION ACCURACY

ST	754.3	SR	329.6	SS	686.2						
CRT	.4469	CRS	.6006	CST	.9831						
LSA	1030.9	MSA	292.4	SSA	16.8						
EL1	771.0	EL2	288.5	ALF	12.89						

LAUNCH DATE SEP 26 1965 FLIGHT TIME 112.00 ARRIVAL DATE JAN 16 1966

HELIOCENTRIC CONIC DISTANCE 265.248

RL	149.98	LAL	-.00	LOL	2.70	VL	25.213	GAL	9.13	AZL	88.08	HCA	106.43	SMA	117.03	ECC	.32008	INC	1.9169	VI	29.709
RP	107.53	LAP	1.84	LOP	109.14	VP	36.530	GAP	-18.10	AZP	90.54	TAL	159.42	TAP	265.85	RCA	79.57	APO	154.49	V2	35.242
RC	42.147	GL	7.20	GP	-10.34	ZAL	47.47	ZAP	10.75	ETS	103.20	ZAE	153.80	ETE	219.30	ZAC	36.15	ETC	134.86	CLP	2.95

PLANETOCENTRIC CONIC

C3	44.133	VHL	6.643	DLA	-9.26	RAL	315.95	RAD	6568.7	VEL	12.865	PTH	2.34	VHP	11.460	DPA	-33.85	RAP	295.64	ECC	1.7263

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 16 33	2119.84	-17.16	35.57	188.54	112.87	9 51 53	1519.8	-13.92	28.40
90.00	18 54 3	5346.51	27.66	243.69	194.91	83.68	20 23 9	4746.5	26.50	235.22
100.00	10 33 21	1872.05	-18.47	16.76	187.95	113.93	11 4 33	1272.0	-15.08	9.61
100.00	20 19 55	5069.54	29.07	223.13	194.72	82.71	21 44 25	4469.5	27.76	214.58
110.00	11 31 17	1690.66	-21.93	1.24	186.19	116.91	11 59 28	1090.7	-18.14	354.16
110.00	21 38 29	4823.69	32.86	203.79	194.05	80.00	22 58 53	4223.7	31.13	195.00

DIFFERENTIAL CORRECTIONS

TDE	-.6444	TRA	-2.1211	TC3	-.2052	BAU	.1392												
RDE	-.3373	RRA	.4113	RC3	-.1165	FAU	.01853												
FDE	.7014	FRA	1.5652	FC3	-.3636	BSP	6216												
BDE	.7273	BRA	2.1606	BC3	.2359	FSP	-366												

MID-COURSE EXECUTION ACCURACY

SGT	1954.2	SGR	487.6	SG3	135.8						
RRT	-.4852	RRF	.5094	RTF	-.8920						
SGB	2014.1	R23	-.0632	R13	.8941						
SG1	1969.2	SG2	423.1	THA	172.76						

ORBIT DETERMINATION ACCURACY

ST	786.2	SR	310.3	SS	723.9						
CRT	.4171	CRS	.5804	CST	.9816						
LSA	1075.6	MSA	285.1	SSA	16.9						
EL1	798.3	EL2	277.7	ALF	10.65						

LAUNCH DATE SEP 26 1965 FLIGHT TIME 114.00 ARRIVAL DATE JAN 18 1966

HELIOCENTRIC CONIC DISTANCE 272.052

RL	149.98	LAL	-.00	LOL	2.70	VL	25.403	GAL	8.70	AZL	87.88	HCA	109.67	SMA	118.03	ECC	.30744	INC	2.1209	VI	29.709
RP	107.51	LAP	2.00	LOP	112.38	VP	36.665	GAP	-17.18	AZP	90.71	TAL	159.22	TAP	268.89	RCA	81.74	APO	154.31	V2	35.247
RC	41.430	GL	8.35	GP	-11.12	ZAL	47.34	ZAP	11.21	ETS	94.97	ZAE	154.80	ETE	225.69	ZAC	37.98	ETC	136.04	CLP	1.50

PLANETOCENTRIC CONIC

C3	40.926	VHL	6.397	DLA	-8.08	RAL	315.89	RAD	6568.6	VEL	12.739	PTH	2.32	VHP	10.965	DPA	-34.38	RAP	297.88	ECC	1.6735

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 6 57	2139.10	-17.67	36.76	187.40	112.49	9 42 36	1539.1	-14.47	29.54
90.00	19 3 10	5289.23	27.16	239.58	192.84	81.67	20 31 19	4689.2	25.73	231.20
100.00	10 24 23	1889.27	-18.94	17.82	186.83	113.57	10 55 53	1289.3	-15.59	10.63
100.00	20 28 25	5014.30	28.53	219.12	192.60	80.66	21 51 59	4414.3	26.94	210.67
110.00	11 23 44	1703.45	-22.32	2.03	185.14	116.59	11 52 7	1103.5	-18.57	354.30
110.00	21 45 33	4772.87	32.19	199.98	191.80	77.83	23 5 6	4172.9	30.18	191.34

DIFFERENTIAL CORRECTIONS

TDE	-.6498	TRA	-2.1232	TC3	-.1941	BAU	.1292												
RDE	-.2967	RRA	.4182	RC3	-.1345	FAU	.01933												
FDE	.7517	FRA	1.6367	FC3	-.4090	BSP	6449												
BDE	.7144	BRA	2.1640	BC3	.2361	FSP	-401												

MID-COURSE EXECUTION ACCURACY

SGT	2022.2	SGR	493.3	SG3	147.6						
RRT	-.5305	RRF	.5591	RTF	-.8988						
SGB	2081.5	R23	-.0723	R13	.9012						
SG1	2039.8	SG2	414.5	THA	172.31						

ORBIT DETERMINATION ACCURACY

ST	819.0	SR	289.0	SS	764.3						
CRT	.3774	CRS	.5509	CST	.9802						
LSA	1123.0	MSA	277.3	SSA	16.9						
EL1	827.1	EL2	265.0	ALF	8.46						

LAUNCH DATE SEP 26 1965 FLIGHT TIME 116.00 ARRIVAL DATE JAN 20 1966

HELIOCENTRIC CONIC DISTANCE 278.863

RL	149.98	LAL	-.00	LOL	2.70	VL	25.580	GAL	8.30	AZL	87.67	HCA	112.91	SMA	118.98	ECC	.29551	INC	2.3335	VI	29.709
RP	107.50	LAP	2.15	LOP	115.63	VP	36.792	GAP	-16.30	AZP	90.91	TAL	159.05	TAP	271.96	RCA	83.82	APO	154.14	V2	35.251
RC	40.873	GL	9.62	GP	-11.99	ZAL	47.29	ZAP	11.99	ETS	87.41	ZAE	155.47	ETE	232.79	ZAC	39.86	ETC	137.04	CLP	.03

PLANETOCENTRIC CONIC

C3	38.058	VHL	6.169	DLA	-6.80	RAL	315.75	RAD	6568.5	VEL	12.626	PTH	2.29	VHP	10.490	DPA	-34.98	RAP	300.13	ECC	1.6263

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 56 28	2161.53	-18.25	38.15	186.26	112.04	9 32 29	1561.5	-15.10	30.89
90.00	19 12 31	5230.09	26.51	235.37	190.73	79.66	20 39 41	4630.1	24.81	227.11
100.00	10 14 34	1909.58	-19.49	19.08	185.71	113.13	10 46 23	1309.6	-16.19	11.84
100.00	20 37 6	4957.27	27.83	215.02	190.45	78.62	21 59 43	4357.3	25.97	206.71
110.00	11 15 23	1719.14	-22.79	3.00	184.08	116.19	11 44 2	1119.1	-19.09	355.82
110.00	21 52 46	4720.48	31.37	196.11	189.52	75.68	23 11 26	4120.5	29.09	187.65

DIFFERENTIAL CORRECTIONS

TDE	-.6529	TRA	-2.1209	TC3	-.1747	BAU	.1188												
RDE	-.2554	RRA	.4274	RC3	-.1548	FAU	.02023												
FDE	.8070	FRA	1.7124	FC3	-.4601	BSP	6778												
BDE	.7011	BRA	2.1636	BC3	.2334	FSP	-441												

MID-COURSE EXECUTION ACCURACY

SGT	2085.5	SGR	502.6	SG3	160.5						
RRT	-.5802	RRF	.6117	RTF	-.9060						
SGB	2145.2	R23	-.0803	R13	.9086						
SG1	2106.6	SG2	405.3	THA	171.73						

ORBIT DETERMINATION ACCURACY

ST	849.6	SR	265.9	SS	807.1						
CRT	.3209	CRS	.5071	CST	.9785						
LSA	1170.9	MSA	269.5	SSA	16.8						
EL1	854.3	EL2	250.4	ALF	6.28						

LAUNCH DATE SEP 26 1965 FLIGHT TIME 118.00 ARRIVAL DATE JAN 22 1966

HELIOCENTRIC CONIC DISTANCE 285.678

RL 149.98 LAL -.00 LOL 2.70 VL 25.744 GAL 7.92 AZL 87.44 HCA 116.15 SMA 119.89 ECC .28427 INC 2.5565 VI 29.709
RP 107.49 LAP 2.29 LOP 118.87 VP 36.909 GAP -15.44 AZP 91.13 TAL 158.93 TAP 275.08 RCA 85.81 APO 153.96 V2 35.254
RC 40.482 GL 11.00 GP -12.97 ZAL 47.34 ZAP 13.05 ETS 80.80 ZAE 155.72 ETE 240.42 ZAC 41.80 ETC 137.86 CLP -1.48

PLANETOCENTRIC CONIC

C3 35.509 VHL 5.959 DLA -5.42 RAL 315.52 RAD 6568.4 VEL 12.525 PTH 2.27 VHP 10.036 DPA -35.66 RAP 302.39 ECC 1.5844

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 45 1	2187.63	-18.91	39.78	185.13	111.48	9 21 28	1587.6	-15.82	32.46
90.00	19 22 10	5168.96	25.69	231.08	188.61	77.66	20 48 19	4569.0	23.73	222.96
100.00	10 3 48	1933.48	-20.12	20.57	184.61	112.59	10 36 1	1333.5	-16.88	13.27
100.00	20 46 4	4898.34	26.97	210.86	188.28	76.58	22 7 42	4298.3	24.85	202.69
110.00	11 6 11	1738.17	-23.36	4.19	183.04	115.70	11 35 9	1138.2	-19.71	356.95
110.00	22 0 10	4666.42	30.40	192.20	187.24	73.55	23 17 56	4066.4	27.85	183.94

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.6609 TRA-2.1211 TC3 -.1563 BAU .1123 SGT 2152.9 SGR 516.8 SG3 174.5 ST 884.0 SR 241.1 SS 854.0
RDE -.2127 RRA .4400 RC3 -.1775 FAU .02115 RRT -.6301 RRF .6660 RTF -.9122 CRT .2423 CRS .4407 CST .9772
FDE .8698 FRA 1.7944 FC3 -.5157 BSP 7005 SGB 2214.1 R23 -.0915 R13 .9152 LSA 1225.0 MSA 260.9 SSA 16.7
BDE .6943 BRA 2.1662 BC3 .2365 FSP -483 SG1 2178.3 SG2 396.6 THA 171.10 EL1 886.1 EL2 233.3 ALF 4.06

LAUNCH DATE SEP 26 1965 FLIGHT TIME 120.00 ARRIVAL DATE JAN 24 1966

HELIOCENTRIC CONIC DISTANCE 292.494

RL 149.98 LAL -.00 LOL 2.70 VL 25.896 GAL 7.56 AZL 87.21 HCA 119.39 SMA 120.74 ECC .27370 INC 2.7923 VI 29.709
RP 107.48 LAP 2.43 LOP 122.12 VP 37.018 GAP -14.61 AZP 91.37 TAL 158.84 TAP 278.23 RCA 87.70 APO 153.79 V2 35.256
RC 40.263 GL 12.52 GP -14.08 ZAL 47.50 ZAP 14.39 ETS 75.22 ZAE 155.48 ETE 248.23 ZAC 43.80 ETC 138.53 CLP -3.01

PLANETOCENTRIC CONIC

C3 33.261 VHL 5.767 DLA -3.92 RAL 315.21 RAD 6568.3 VEL 12.435 PTH 2.25 VHP 9.602 DPA -36.45 RAP 304.67 ECC 1.5474

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 32 30	2217.94	-19.65	41.69	184.03	110.81	9 9 28	1617.9	-16.64	34.31
90.00	19 32 11	5105.64	24.70	226.71	186.48	75.69	20 57 16	4505.6	22.49	218.74
100.00	9 52 0	1961.46	-20.84	22.34	183.53	111.93	10 24 41	1361.5	-17.68	14.97
100.00	20 55 21	4837.34	25.93	206.62	186.12	74.58	22 15 59	4237.3	23.56	198.62
110.00	10 56 2	1761.01	-24.03	5.63	182.03	115.08	11 25 23	1161.0	-20.45	358.31
110.00	22 7 49	4610.56	29.25	188.26	184.98	71.47	23 24 40	4010.6	26.45	180.20

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.6704 TRA-2.1203 TC3 -.1347 BAU .1082 SGT 2219.4 SGR 537.6 SG3 189.8 ST 919.2 SR 215.6 SS 904.9
RDE -.1680 RRA .4563 RC3 -.2027 FAU .02212 RRT -.6805 RRF .7205 RTF -.9180 CRT .1254 CRS .3366 CST .9759
FDE .9407 FRA 1.8823 FC3 -.5759 BSP 7249 SGB 2283.6 R23 -.1037 R13 .9215 LSA 1283.1 MSA 252.4 SSA 16.6
BDE .6912 BRA 2.1688 BC3 .2434 FSP -530 SG1 2250.3 SG2 388.5 THA 170.35 EL1 919.6 EL2 213.8 ALF 1.78

LAUNCH DATE SEP 26 1965 FLIGHT TIME 122.00 ARRIVAL DATE JAN 26 1966

HELIOCENTRIC CONIC DISTANCE 299.308

RL 149.98 LAL -.00 LOL 2.70 VL 26.037 GAL 7.21 AZL 86.96 HCA 122.63 SMA 121.56 ECC .26379 INC 3.0436 VI 29.709
RP 107.48 LAP 2.56 LOP 125.37 VP 37.118 GAP -13.80 AZP 91.64 TAL 158.80 TAP 281.43 RCA 89.49 APO 153.62 V2 35.258
RC 40.219 GL 14.19 GP -15.35 ZAL 47.78 ZAP 16.00 ETS 70.65 ZAE 154.71 ETE 255.84 ZAC 45.86 ETC 139.04 CLP -4.57

PLANETOCENTRIC CONIC

C3 31.302 VHL 5.595 DLA -2.30 RAL 314.81 RAD 6568.2 VEL 12.356 PTH 2.23 VHP 9.190 DPA -37.37 RAP 306.98 ECC 1.5152

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 18 48	2253.07	-20.48	43.93	182.98	109.99	8 56 21	1653.1	-17.58	36.47
90.00	19 42 40	5039.93	23.52	222.26	184.38	73.75	21 6 40	4439.9	21.06	214.44
100.00	9 39 4	1994.14	-21.66	24.42	182.51	111.12	10 12 18	1394.1	-18.59	16.97
100.00	21 5 5	4774.09	24.71	202.31	183.99	72.63	22 24 39	4174.1	22.10	194.49
110.00	10 44 51	1788.21	-24.80	7.36	181.08	114.32	11 14 39	1188.2	-21.31	359.95
110.00	22 15 47	4552.79	27.94	184.28	182.75	69.45	23 31 40	3952.8	24.89	176.43

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.6828 TRA-2.1187 TC3 -.1102 BAU .1070 SGT 2284.7 SGR 566.6 SG3 206.4 ST 955.7 SR 191.9 SS 960.3
RDE -.1205 RRA .4772 RC3 -.2306 FAU .02314 RRT -.7292 RRF .7730 RTF -.9235 CRT -.0506 CRS .1711 CST .9749
FDE 1.0210 FRA 1.9760 FC3 -.6399 BSP 7478 SGB 2353.9 R23 -.1172 R13 .9275 LSA 1346.3 MSA 243.9 SSA 16.3
BDE .6934 BRA 2.1718 BC3 .2556 FSP -579 SG1 2322.8 SG2 381.4 THA 169.46 EL1 955.8 EL2 191.6 ALF 179.39

LAUNCH DATE SEP 26 1965 FLIGHT TIME 124.00 ARRIVAL DATE JAN 28 1966

HELIOCENTRIC CONIC DISTANCE 306.117

RL 149.98 LAL -.00 LOL 2.70 VL 26.168 GAL 6.89 AZL 86.69 HCA 125.87 SMA 122.32 ECC .25450 INC 3.3140 VI 29.709
RP 107.48 LAP 2.68 LOP 128.62 VP 37.211 GAP -13.02 AZP 91.94 TAL 158.78 TAP 284.66 RCA 91.19 APO 153.45 V2 35.259
RC 40.350 GL 16.02 GP -16.79 ZAL 48.19 ZAP 17.86 ETS 66.99 ZAE 153.42 ETE 262.86 ZAC 48.00 ETC 139.40 CLP -6.17

PLANETOCENTRIC CONIC

C3 29.622 VHL 5.443 DLA -.55 RAL 314.31 RAD 6568.2 VEL 12.288 PTH 2.21 VHP 8.801 DPA -38.43 RAP 309.34 ECC 1.4875

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 3 46	2293.75	-21.41	46.56	182.01	108.99	8 42 0	1693.8	-18.62	38.39
90.00	19 53 43	4971.57	22.14	217.72	182.33	71.88	21 16 35	4371.6	19.46	210.07
100.00	9 24 51	2032.18	-22.57	26.88	181.56	110.14	9 58 44	1432.2	-19.62	19.32
100.00	21 15 19	4708.37	23.31	197.94	181.90	70.73	22 33 47	4108.4	20.47	190.29
110.00	10 32 31	1820.38	-25.69	9.44	180.20	113.37	11 2 52	1220.4	-22.30	1.92
110.00	22 24 9	4492.94	26.44	180.26	180.59	67.50	23 39 2	3892.9	23.16	172.64

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.6980 TRA-2.1161 TC3 -.0826 BAU .1085 SGT 2347.6 SGR 606.1 SG3 224.2 ST 993.3 SR 175.1 SS 1020.1
RDE -.0691 RRA .5037 RC3 -.2613 FAU .02419 RRT -.7746 RRF .8214 RTF -.9287 CRT -.3035 CRS -.0819 CST .9740
FDE 1.1119 FRA 2.0749 FC3 -.7068 BSP 7715 SGB 2424.5 R23 -.1314 R13 .9334 LSA 1415.0 MSA 235.8 SSA 16.0
BDE .7015 BRA 2.1752 BC3 .2741 FSP -633 SG1 2395.3 SG2 375.7 THA 168.40 EL1 994.8 EL2 166.6 ALF 176.85

LAUNCH DATE SEP 26 1965 FLIGHT TIME 126.00 ARRIVAL DATE JAN 30 1966

HELIOCENTRIC CONIC DISTANCE 312.919

RL 149.98 LAL -.00 LOL 2.70 VL 26.289 GAL 6.58 AZL 86.39 HCA 129.11 SMA 123.04 ECC .24583 INC 3.6073 V1 29.709
RP 107.48 LAP 2.80 LOP 131.87 VP 37.297 GAP -12.27 AZP 92.28 TAL 158.81 TAP 287.92 RCA 92.79 APO 153.29 V2 35.253
RC 40.657 GL 18.02 GP -18.44 ZAL 48.75 ZAP 19.98 ETS 64.11 ZAE 151.64 ETE 269.05 ZAC 50.22 ETC 139.62 CLP -7.81

PLANETOCENTRIC CONIC

C3 28.219 VHL 5.312 DLA 1.37 RAL 313.72 RAD 6568.1 VEL 12.231 PTH 2.20 VHP 8.436 DPA -39.68 RAP 311.75 ECC 1.4644

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 47 15	2340.80	-22.42	49.64	181.14	107.77	8 26 16	1740.8	-19.78	41.96
90.00	20 5 30	4900.25	20.56	213.09	180.36	70.09	21 27 10	4300.3	17.66	205.61
100.00	9 9 13	2076.38	-23.58	29.78	180.73	108.93	9 43 50	1476.4	-20.77	22.10
100.00	21 26 13	4639.91	21.70	193.49	179.90	68.92	22 43 33	4039.9	18.64	186.03
110.00	10 18 55	1858.21	-26.68	11.93	179.44	112.20	10 49 54	1258.2	-23.44	4.27
110.00	22 33 0	4430.84	24.76	176.22	178.50	65.65	23 46 51	3830.8	21.26	168.82

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.7168 TRA-2.1127 TC3 -.0525 BAU .1130 SGT 2407.6 SGR 658.5 SG3 243.1 ST 1032.1 SR 174.5 SS 1084.9
RDE -.0125 RRA .5368 RC3 -.2948 FAU .02524 RRT -.8150 RRF .8641 RTF -.9335 CRT -.6017 CRS -.4046 CST .9734
FDE 1.2151 FRA 2.1784 FC3 -.7744 BSP 7961 SGB 2496.0 R23 -.1459 R13 .9391 LSA 1490.1 MSA 228.6 SSA 15.5
BDE .7169 BRA 2.1799 BC3 .2994 FSP -691 SG1 2468.1 SG2 372.2 THA 167.14 EL1 1037.6 EL2 138.6 ALF 174.09

LAUNCH DATE SEP 26 1965 FLIGHT TIME 128.00 ARRIVAL DATE FEB 1 1966

HELIOCENTRIC CONIC DISTANCE 319.712

RL 149.98 LAL -.00 LOL 2.70 VL 26.401 GAL 6.29 AZL 86.07 HCA 132.35 SMA 123.72 ECC .23775 INC 3.9290 V1 29.709
RP 107.48 LAP 2.90 LOP 135.12 VP 37.375 GAP -11.54 AZP 92.65 TAL 158.86 TAP 291.21 RCA 94.30 APO 153.13 V2 35.258
RC 41.135 GL 20.21 GP -20.34 ZAL 49.47 ZAP 22.36 ETS 61.90 ZAE 149.42 ETE 274.26 ZAC 52.55 ETC 139.71 CLP -9.50

PLANETOCENTRIC CONIC

C3 27.095 VHL 5.205 DLA 3.44 RAL 313.02 RAD 6568.1 VEL 12.185 PTH 2.19 VHP 8.100 DPA -41.15 RAP 314.25 ECC 1.4459

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 29 0	2395.23	-23.50	53.26	180.42	106.27	8 8 56	1795.2	-21.05	45.45
90.00	20 18 11	4825.59	18.75	208.36	178.49	68.39	21 38 37	4225.6	15.65	201.05
100.00	8 51 58	2127.67	-24.67	33.20	180.03	107.44	9 27 25	1527.7	-22.05	25.38
100.00	21 37 55	4568.38	19.88	188.95	178.00	67.20	22 54 3	3968.4	16.62	181.68
110.00	10 3 54	1902.52	-27.79	14.90	178.83	110.76	10 35 36	1302.5	-24.71	7.08
110.00	22 42 28	4366.30	22.89	172.15	176.53	63.89	23 55 15	3766.3	19.19	164.96

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.7379 TRA-2.1064 TC3 -.0181 BAU .1200 SGT 2460.7 SGR 726.3 SG3 262.8 ST 1070.1 SR 199.5 SS 1153.7
RDE .0512 RRA .5777 RC3 -.3309 FAU .02631 RRT -.8498 RRF .8998 RTF -.9382 CRT -.8382 CRS -.6909 CST .9728
FDE 1.3310 FRA 2.2836 FC3 -.8406 BSP 8263 SGB 2565.6 R23 -.1592 R13 .9448 LSA 1570.4 MSA 222.8 SSA 14.8
BDE .7396 BRA 2.1842 BC3 .3713 FSP -755 SG1 2538.7 SG2 371.1 THA 165.60 EL1 1083.2 EL2 107.5 ALF 171.03

LAUNCH DATE SEP 26 1965 FLIGHT TIME 130.00 ARRIVAL DATE FEB 3 1966

HELIOCENTRIC CONIC DISTANCE 326.493

RL 149.98 LAL -.00 LOL 2.70 VL 26.504 GAL 6.02 AZL 85.71 HCA 135.59 SMA 124.35 ECC .23024 INC 4.2856 V1 29.709
RP 107.48 LAP 3.00 LOP 138.37 VP 37.446 GAP -10.82 AZP 93.06 TAL 158.94 TAP 294.53 RCA 95.72 APO 152.98 V2 35.257
RC 41.780 GL 22.60 GP -22.53 ZAL 50.37 ZAP 25.04 ETS 60.25 ZAE 146.81 ETE 278.49 ZAC 55.01 ETC 139.67 CLP -11.23

PLANETOCENTRIC CONIC

C3 26.264 VHL 5.125 DLA 5.70 RAL 312.21 RAD 6568.1 VEL 12.151 PTH 2.18 VHP 7.795 DPA -42.87 RAP 316.88 ECC 1.4322

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 8 46	2458.24	-24.64	57.53	179.88	104.42	7 49 44	1858.2	-22.42	49.56
90.00	20 32 0	4747.10	16.72	203.50	176.76	66.81	21 51 7	4147.1	13.43	196.36
100.00	8 32 48	2187.18	-25.82	37.24	179.53	105.61	9 9 16	1587.2	-23.43	29.26
100.00	21 50 38	4493.40	17.83	184.33	176.25	65.61	23 5 32	3893.4	14.39	177.22
110.00	9 47 14	1954.26	-28.99	18.45	178.42	108.97	10 19 48	1354.3	-26.12	10.44
110.00	22 52 42	4299.08	20.81	168.03	174.70	62.25	24 4 21	3699.1	16.94	161.05

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.7674 TRA-2.1027 TC3 .0135 BAU .1295 SGT 2513.5 SGR 812.9 SG3 283.1 ST 1112.9 SR 254.1 SS 1228.5
RDE .1250 RRA .6285 RC3 -.3686 FAU .02724 RRT -.8777 RRF .9283 RTF -.9424 CRT -.9553 CRS -.8626 CST .9729
FDE 1.4636 FRA 2.3906 FC3 -.8978 BSP 8504 SGB 2641.7 R23 -.1718 R13 .9503 LSA 1662.7 MSA 217.9 SSA 13.9
BDE .7775 BRA 2.1946 BC3 .3688 FSP -818 SG1 2615.0 SG2 374.5 THA 163.81 EL1 1139.1 EL2 73.4 ALF 167.65

LAUNCH DATE SEP 26 1965 FLIGHT TIME 132.00 ARRIVAL DATE FEB 5 1966

HELIOCENTRIC CONIC DISTANCE 333.260

RL 149.98 LAL -.00 LOL 2.70 VL 26.599 GAL 5.76 AZL 85.31 HCA 138.83 SMA 124.94 ECC .22328 INC 4.6859 V1 29.709
RP 107.49 LAP 3.08 LOP 141.62 VP 37.512 GAP -10.13 AZP 93.53 TAL 159.05 TAP 297.87 RCA 97.04 APO 152.83 V2 35.255
RC 42.583 GL 25.22 GP -25.05 ZAL 51.47 ZAP 28.03 ETS 59.06 ZAE 143.84 ETE 281.80 ZAC 57.63 ETC 139.52 CLP -13.00

PLANETOCENTRIC CONIC

C3 25.748 VHL 5.074 DLA 8.16 RAL 311.29 RAD 6568.0 VEL 12.129 PTH 2.17 VHP 7.526 DPA -44.89 RAP 319.70 ECC 1.4237

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 46 9	2531.39	-25.78	62.58	179.56	102.13	7 28 20	1931.4	-23.85	54.44
90.00	20 47 15	4664.13	14.42	198.48	175.23	65.37	22 4 59	4064.1	10.98	191.50
100.00	8 11 26	2256.32	-27.00	42.04	179.26	103.35	8 49 2	1656.3	-24.89	33.88
100.00	22 4 39	4414.44	15.55	179.57	174.68	64.15	23 18 13	3814.4	11.95	172.64
110.00	9 28 40	2014.60	-30.25	22.69	178.26	106.74	10 2 15	1414.6	-27.66	14.46
110.00	23 3 54	4228.92	18.53	163.87	173.05	60.75	24 14 23	3628.9	14.50	157.08

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.8047 TRA-2.0998 TC3 .0421 BAU .1407 SGT 2562.2 SGR 921.5 SG3 303.3 ST 1158.5 SR 337.0 SS 1308.0
RDE .2124 RRA .6910 RC3 -.4066 FAU .02794 RRT -.8995 RRF .9500 RTF -.9463 CRT -.9934 CRS -.9425 CST .9734
FDE 1.6129 FRA 2.4941 FC3 -.9394 BSP 8748 SGB 2722.9 R23 -.1816 R13 .9559 LSA 1766.5 MSA 214.7 SSA 12.9
BDE .8323 BRA 2.2106 BC3 .4088 FSP -880 SG1 2695.8 SG2 382.7 THA 161.69 EL1 1205.9 EL2 37.1 ALF 163.86

LAUNCH DATE SEP 26 1965 FLIGHT TIME 134.00 ARRIVAL DATE FEB 7 1966

DISTANCE 340.013

HELIOCENTRIC CONIC

RL 149.98 LAL -.00 LOL 2.70 VL 26.686 GAL 5.52 AZL 84.86 HCA 142.06 SMA 125.48 ECC .21685 INC 5.1415 VI 29.709
RP 107.50 LAP 3.16 LOP 144.87 VP 37.571 GAP -9.46 AZP 94.06 TAL 159.17 TAP 301.23 RCA 98.27 APO 152.70 V2 35.252
RC 43.538 GL 28.07 GP -27.98 ZAL 52.78 ZAP 31.37 ETS 58.25 ZAE 140.51 ETE 284.30 ZAC 60.45 ETC 139.27 CLP -14.81

PLANETOCENTRIC CONIC

C3 25.590 VHL 5.059 DLA 10.82 RAL 310.24 RAD 6568.0 VEL 12.123 PTH 2.17 VHP 7.301 DPA -47.25 RAP 322.79 ECC 1.4211

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 20 36	2616.72	-26.86	68.59	179.53	99.31	7 4 12	2016.7	-25.30	60.27
90.00	21 4 24	4575.76	11.85	193.27	173.94	64.10	22 20 40	3975.8	8.27	186.42
100.00	7 47 21	2336.93	-28.13	47.76	179.28	100.54	8 26 18	1736.9	-26.39	39.39
100.00	22 20 20	4330.79	13.01	174.67	173.35	62.85	23 32 31	3730.8	9.27	167.88
110.00	9 7 52	2084.99	-31.52	27.78	178.43	103.98	9 42 37	1485.0	-29.28	19.30
110.00	23 16 19	4155.49	16.04	159.64	171.63	59.40	24 25 34	3555.5	11.86	153.03

DIFFERENTIAL CORRECTIONS

TDE -.8521 TRA-2.0980 TC3 .0665 BAU .1533
RDE .3182 RRA .7673 RC3 -.4431 FAU .02831
FDE 1.7786 FRA 2.5869 FC3 -.9576 BSP .9002
BDE .9096 BRA 2.2339 BC3 .4481 FSP -.940

MID-COURSE EXECUTION ACCURACY

SGT 2605.6 SGR 1055.3 SG3 322.1
RRT -.9159 RRF .9659 RTF -.9499
SGB 2811.2 R23 -.1871 R13 .9614
SG1 2783.1 SG2 396.5 THA 159.21

ORBIT DETERMINATION ACCURACY

ST 1207.6 SR 447.8 SS 1390.7
CRT -.9995 CRS -.9765 CST .9743
LSA 1883.5 MSA 212.9 SSA 11.7
EL1 1287.9 EL2 12.6 ALF 159.66

LAUNCH DATE SEP 26 1965 FLIGHT TIME 136.00 ARRIVAL DATE FEB 9 1966

DISTANCE 346.747

HELIOCENTRIC CONIC

RL 149.98 LAL -.00 LOL 2.70 VL 26.766 GAL 5.30 AZL 84.33 HCA 145.29 SMA 125.99 ECC .21092 INC 5.6681 VI 29.709
RP 107.51 LAP 3.22 LOP 148.12 VP 37.624 GAP -8.81 AZP 94.66 TAL 159.31 TAP 304.61 RCA 99.42 APO 152.57 V2 35.249
RC 44.633 GL 31.17 GP -31.35 ZAL 54.33 ZAP 35.10 ETS 57.75 ZAE 136.81 ETE 286.09 ZAC 63.50 ETC 138.95 CLP -16.66

PLANETOCENTRIC CONIC

C3 25.859 VHL 5.085 DLA 13.71 RAL 309.04 RAD 6568.0 VEL 12.134 PTH 2.17 VHP 7.131 DPA -50.00 RAP 326.29 ECC 1.4256

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 51 20	2717.09	-27.76	75.80	179.81	95.80	6 36 37	2117.1	-26.67	67.30
90.00	21 24 7	4480.56	8.97	187.76	172.98	63.03	22 38 47	3880.6	5.28	181.03
100.00	7 19 53	2431.49	-29.12	54.62	179.64	97.07	8 0 25	1831.5	-27.84	46.05
100.00	22 38 14	4241.39	10.18	169.54	172.34	61.74	23 48 56	3641.4	6.32	162.87
110.00	8 44 20	2167.28	-32.71	33.90	178.99	100.54	9 20 27	1567.3	-30.91	25.15
110.00	23 30 17	4078.37	13.32	155.32	170.49	58.22	24 38 16	3478.4	9.02	148.86

DIFFERENTIAL CORRECTIONS

TDE -.9087 TRA-2.0952 TC3 .0900 BAU .1675
RDE .4485 RRA .8589 RC3 -.4761 FAU .02829
FDE 1.9557 FRA 2.6570 FC3 -.9472 BSP .9342
BDE 1.0134 BRA 2.2644 BC3 .4645 FSP -.995

MID-COURSE EXECUTION ACCURACY

SGT 2638.5 SGR 1217.4 SG3 337.7
RRT -.9285 RRF .9771 RTF -.9533
SGB 2905.8 R23 -.1867 R13 .9671
SG1 2876.0 SG2 414.9 THA 156.29

ORBIT DETERMINATION ACCURACY

ST 1256.9 SR 587.3 SS 1472.4
CRT -.9962 CRS -.9906 CST .9755
LSA 2011.8 MSA 212.9 SSA 10.4
EL1 1386.6 EL2 46.6 ALF 155.01

LAUNCH DATE SEP 26 1965 FLIGHT TIME 138.00 ARRIVAL DATE FEB 11 1966

DISTANCE 353.462

HELIOCENTRIC CONIC

RL 149.98 LAL -.00 LOL 2.70 VL 26.838 GAL 5.10 AZL 83.71 HCA 148.52 SMA 126.46 ECC .20548 INC 6.2880 VI 29.709
RP 107.52 LAP 3.28 LOP 151.37 VP 37.672 GAP -8.18 AZP 95.37 TAL 159.47 TAP 307.99 RCA 100.47 APO 152.45 V2 35.244
RC 45.858 GL 34.54 GP -35.25 ZAL 56.15 ZAP 39.25 ETS 57.50 ZAE 132.71 ETE 287.33 ZAC 66.86 ETC 138.62 CLP -18.51

PLANETOCENTRIC CONIC

C3 26.667 VHL 5.164 DLA 16.83 RAL 307.68 RAD 6568.1 VEL 12.167 PTH 2.18 VHP 7.030 DPA -53.16 RAP 330.41 ECC 1.4389

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 17 4	2836.83	-28.28	84.51	180.45	91.47	6 4 21	2236.8	-27.78	75.89
90.00	21 47 29	4376.07	5.69	181.83	172.48	62.21	23 0 25	3776.1	1.93	175.17
100.00	6 48 0	2543.63	-29.78	62.88	180.38	92.76	7 30 23	1943.6	-29.07	54.15
100.00	22 59 15	4144.51	7.01	164.09	171.76	60.87	24 8 19	3544.5	3.07	157.52
110.00	8 17 23	2263.96	-33.67	41.28	180.02	96.27	8 55 7	1664.0	-32.44	32.27
110.00	23 46 21	3996.94	10.36	150.87	169.73	57.24	24 52 58	3396.9	5.97	144.53

DIFFERENTIAL CORRECTIONS

TDE -.9811 TRA-2.0956 TC3 .1061 BAU .1824
RDE .6128 RRA .9684 RC3 -.5005 FAU .02760
FDE 2.1395 FRA 2.6931 FC3 -.8961 BSP .9737
BDE 1.1567 BRA 2.3085 BC3 .5117 FSP -.1037

MID-COURSE EXECUTION ACCURACY

SGT 2664.0 SGR 1410.5 SG3 348.1
RRT -.9376 RRF .9847 RTF -.9565
SGB 3014.4 R23 -.1804 R13 .9727
SG1 2982.4 SG2 437.9 THA 152.97

ORBIT DETERMINATION ACCURACY

ST 1309.9 SR 758.9 SS 1550.0
CRT -.9914 CRS -.9964 CST .9771
LSA 2156.0 MSA 214.0 SSA 9.1
EL1 1511.4 EL2 86.1 ALF 150.02

LAUNCH DATE SEP 26 1965 FLIGHT TIME 140.00 ARRIVAL DATE FEB 13 1966

DISTANCE 360.155

HELIOCENTRIC CONIC

RL 149.98 LAL -.00 LOL 2.70 VL 26.905 GAL 4.91 AZL 82.97 HCA 151.74 SMA 126.89 ECC .20051 INC 7.0333 VI 29.709
RP 107.54 LAP 3.32 LOP 154.62 VP 37.714 GAP -7.57 AZP 96.20 TAL 159.63 TAP 311.37 RCA 101.45 APO 152.33 V2 35.239
RC 47.202 GL 38.18 GP -39.73 ZAL 58.24 ZAP 43.85 ETS 57.44 ZAE 128.16 ETE 288.14 ZAC 70.56 ETC 138.33 CLP -20.34

PLANETOCENTRIC CONIC

C3 28.201 VHL 5.311 DLA 20.17 RAL 306.12 RAD 6568.1 VEL 12.230 PTH 2.20 VHP 7.020 DPA -56.73 RAP 335.52 ECC 1.4641

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 35 33	2983.44	-28.07	95.23	181.36	86.10	5 25 17	2383.4	-28.31	86.57
90.00	22 16 34	4257.31	1.89	175.18	172.61	61.74	23 27 31	3657.3	-1.90	168.55
100.00	6 9 55	2679.18	-29.80	72.95	181.47	87.47	6 54 34	2079.2	-29.83	64.15
100.00	23 24 54	4036.80	3.40	158.13	171.78	60.28	24 32 11	3436.8	-.58	151.61
110.00	7 45 59	2378.58	-34.17	50.19	181.54	91.03	8 25 38	1778.6	-33.65	40.99
110.00	0 9 14	3910.16	7.13	146.23	169.47	56.48	1 14 24	3310.2	2.67	139.97

DIFFERENTIAL CORRECTIONS

TDE-1.0778 TRA-2.1035 TC3 .1095 BAU .1965
RDE .8244 RRA 1.0976 RC3 -.5095 FAU .02591
FDE 2.3208 FRA 2.6811 FC3 -.7953 BSP .10143
BDE 1.3569 BRA 2.3726 BC3 .5211 FSP -.1055

MID-COURSE EXECUTION ACCURACY

SGT 2685.5 SGR 1635.7 SG3 350.8
RRT -.9442 RRF .9897 RTF -.9596
SGB 3144.4 R23 -.1683 R13 .9783
SG1 3109.8 SG2 465.3 THA 149.34

ORBIT DETERMINATION ACCURACY

ST 1370.5 SR 966.7 SS 1619.0
CRT -.9878 CRS -.9988 CST .9792
LSA 2321.1 MSA 215.6 SSA 7.8
EL1 1672.6 EL2 123.1 ALF 144.91

LAUNCH DATE SEP 26 1965 FLIGHT TIME 142.00 ARRIVAL DATE FEB 15 1966

HELIOCENTRIC CONIC DISTANCE 366.824

RL	149.98	LAL	-.00	LOL	2.70	VL	26.965	GAL	4.74	AZL	82.05	HCA	154.96	SMA	127.28	ECC	.19599	INC	7.9527	VI	29.709
RP	107.55	LAP	3.36	LOP	157.87	VP	37.752	GAP	-6.97	AZP	97.21	TAL	159.79	TAP	314.75	RCA	102.34	APO	152.23	V2	35.234
RC	48.656	GL	42.08	GP	-44.83	ZAL	60.63	ZAP	48.91	ETS	57.56	ZAE	123.11	ETE	288.72	ZAC	74.66	ETC	138.23	CLP	-22.05

PLANETOCENTRIC CONIC

C3	30.778	VHL	5.548	DLA	23.74	RAL	304.32	RAD	6568.2	VEL	12.335	PTH	2.22	VHP	7.136	DPA	-60.63	RAP	342.23	ECC	1.5065

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	3 41 36	3173.42	-26.44	108.87	182.28	79.46	4 34 29	2573.4	-27.62	100.41
90.00	22 56 11	4111.10	-2.83	167.02	173.78	61.81	24 4 42	3511.1	-6.58	160.34
100.00	5 22 4	2849.46	-28.62	85.46	182.70	81.00	6 9 34	2249.5	-29.57	76.79
100.00	0 2 20	3910.29	-.89	151.19	172.70	60.12	1 7 30	3310.3	-4.86	144.65
110.00	7 8 27	2516.66	-33.82	60.95	183.46	84.67	7 50 23	1916.7	-34.18	51.73
110.00	0 32 27	3815.85	3.55	141.26	169.93	55.98	1 36 2	3215.8	-.94	135.05

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE-1.2005	TRA-2.1158	TC3	.1107	BAU	.2105	SGT 2692.8	SGR 1886.8	SG3	341.8	ST 1431.8	SR 1209.3	SS 1666.3
RDE 1.0976	RRA 1.2434	RC3	-.4995	FAU	.02333	RRT -.9491	RRF .9930	RTF -.9626	CRT -.9858	CRS -.9997	CST .9815
FDE 2.4745	FRA 2.5969	FC3	-.6562	BSP	10801	SGB 3288.0	R23 -.1510	R13 .9835	LSA 2498.3	MSA 217.5	SSA 6.5
BDE 1.6266	BRA 2.4541	BC3	.5116	FSP	-1054	SG1 3251.0	SG2 492.1	THA 145.47	EL1 1867.7	EL2 155.7	ALF 139.88

LAUNCH DATE SEP 26 1965 FLIGHT TIME 144.00 ARRIVAL DATE FEB 17 1966

HELIOCENTRIC CONIC DISTANCE 373.481

RL	149.98	LAL	-.00	LOL	2.70	VL	27.019	GAL	4.59	AZL	80.88	HCA	158.17	SMA	127.64	ECC	.19194	INC	9.1228	VI	29.709
RP	107.57	LAP	3.38	LOP	161.12	VP	37.785	GAP	-6.40	AZP	98.48	TAL	159.93	TAP	318.10	RCA	103.15	APO	152.14	V2	35.227
RC	50.208	GL	46.22	GP	-50.55	ZAL	63.32	ZAP	54.35	ETS	57.89	ZAE	117.53	ETE	289.34	ZAC	79.20	ETC	138.54	CLP	-23.48

PLANETOCENTRIC CONIC

C3	34.976	VHL	5.914	DLA	27.49	RAL	302.24	RAD	6568.4	VEL	12.504	PTH	2.26	VHP	7.431	DPA	-64.61	RAP	351.57	ECC	1.5756

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	2 12 27	3479.35	-20.97	129.58	181.91	70.52	3 10 27	2879.4	-23.44	121.78
90.00	0 12 41	3869.59	-10.42	153.33	177.28	63.52	1 17 11	3269.6	-13.89	146.38
100.00	4 14 10	3087.02	-24.95	102.13	183.34	72.98	5 5 37	2487.0	-27.04	93.96
100.00	0 53 40	3737.15	-6.71	141.64	175.30	60.80	1 55 57	3137.2	-10.56	134.96
110.00	6 21 38	2688.09	-31.97	73.97	185.46	77.19	7 6 26	2088.1	-33.40	65.03
110.00	1 2 41	3708.85	-.53	135.68	171.48	55.82	2 4 30	3108.8	-5.01	129.46

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE-1.5415	TRA-2.3148	TC3	-.0942	BAU	.1854	SGT 2938.4	SGR 2235.3	SG3	334.5	ST 1675.0	SR 1557.4	SS 1776.4
RDE 1.5281	RRA 1.4757	RC3	-.3852	FAU	.01320	RRT -.9492	RRF .9944	RTF -.9666	CRT -.9881	CRS-1.0000	CST .9872
FDE 2.7201	FRA 2.5731	FC3	-.3268	BSP	7397	SGB 3692.0	R23 -.1310	R13 .9884	LSA 2887.9	MSA 215.5	SSA 5.7
BDE 2.1705	BRA 2.7451	BC3	.3966	FSP	-735	SG1 3648.3	SG2 566.5	THA 143.13	EL1 2280.4	EL2 176.2	ALF 137.11

LAUNCH DATE SEP 26 1965 FLIGHT TIME 146.00 ARRIVAL DATE FEB 19 1966

HELIOCENTRIC CONIC DISTANCE 380.077

RL	149.98	LAL	-.00	LOL	2.70	VL	27.068	GAL	4.45	AZL	79.33	HCA	161.37	SMA	127.97	ECC	.18824	INC	10.6723	VI	29.709
RP	107.60	LAP	3.39	LOP	164.37	VP	37.813	GAP	-5.84	AZP	100.12	TAL	160.09	TAP	321.45	RCA	103.88	APO	152.06	V2	35.220
RC	51.850	GL	50.58	GP	-56.88	ZAL	66.36	ZAP	60.14	ETS	58.64	ZAE	111.37	ETE	290.35	ZAC	84.23	ETC	139.62	CLP	-24.32

PLANETOCENTRIC CONIC

C3	41.849	VHL	6.469	DLA	31.37	RAL	299.75	RAD	6568.6	VEL	12.776	PTH	2.32	VHP	7.988	DPA	-68.20	RAP	5.12	ECC	1.6887

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
75.89	23 7 25	4077.06	-16.30	171.68	181.11	62.82	24 15 22	3477.1	-19.82	164.53
104.11	2 53 54	3362.52	-16.29	118.86	181.10	62.81	3 49 57	2762.5	-19.80	111.72
75.89	23 7 25	4077.06	-16.30	171.68	181.11	62.82	24 15 22	3477.1	-19.82	164.53
104.11	2 53 54	3362.52	-16.29	118.86	181.10	62.81	3 49 57	2762.5	-19.80	111.72
110.00	5 16 26	2919.40	-27.29	90.33	186.44	68.57	6 5 6	2319.4	-29.95	82.15
110.00	1 48 0	3568.18	-5.89	128.31	174.89	56.27	2 47 28	2968.2	-10.28	121.97

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE-1.6899	TRA-2.2672	TC3	.0303	BAU	.2048	SGT 2788.0	SGR 2441.8	SG3	286.8	ST 1654.7	SR 1806.1	SS 1696.3
RDE 1.9611	RRA 1.5906	RC3	-.3647	FAU	.01265	RRT -.9546	RRF .9956	RTF -.9702	CRT -.9867	CRS-1.0000	CST .9881
FDE 2.6625	FRA 2.2278	FC3	-.2617	BSP	11231	SGB 3706.1	R23 -.1048	R13 .9923	LSA 2971.5	MSA 218.8	SSA 4.3
BDE 2.5887	BRA 2.7695	BC3	.3660	FSP	-857	SG1 3664.6	SG2 553.1	THA 138.97	EL1 2441.4	EL2 198.7	ALF 132.46

LAUNCH DATE SEP 26 1965 FLIGHT TIME 148.00 ARRIVAL DATE FEB 21 1966

HELIOCENTRIC CONIC DISTANCE 386.644

RL	149.98	LAL	-.00	LOL	2.70	VL	27.112	GAL	4.34	AZL	77.17	HCA	164.55	SMA	128.27	ECC	.18498	INC	12.8339	VI	29.709
RP	107.62	LAP	3.39	LOP	167.61	VP	37.838	GAP	-5.30	AZP	102.38	TAL	160.20	TAP	324.75	RCA	104.54	APO	151.99	V2	35.212
RC	53.572	GL	55.02	GP	-63.69	ZAL	69.71	ZAP	66.06	ETS	60.60	ZAE	104.66	ETE	292.75	ZAC	89.76	ETC	142.45	CLP	-23.72

PLANETOCENTRIC CONIC

C3	53.716	VHL	7.329	DLA	35.23	RAL	296.77	RAD	6568.9	VEL	13.232	PTH	2.42	VHP	8.962	DPA	-70.41	RAP	24.24	ECC	1.8840

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
68.11	22 6 17	4291.39	-15.91	187.98	182.98	58.15	23 17 48	3691.4	-20.00	181.17
111.89	3 31 16	3273.11	-15.89	111.74	182.97	58.14	4 25 50	2673.1	-19.99	104.93
68.11	22 6 17	4291.39	-15.91	187.98	182.98	58.15	23 17 48	3691.4	-20.00	181.17
111.89	3 31 16	3273.11	-15.89	111.74	182.97	58.14	4 25 50	2673.1	-19.99	104.93
68.11	22 6 17	4291.39	-15.91	187.98	182.98	58.15	23 17 48	3691.4	-20.00	181.17
111.89	3 31 16	3273.11	-15.89	111.74	182.97	58.14	4 25 50	2673.1	-19.99	104.93

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE-2.1610	TRA-2.4330	TC3	.0017	BAU	.1825	SGT 2876.7	SGR 2644.7	SG3	238.6	ST 1828.1	SR 2089.7	SS 1645.6
RDE 2.5966	RRA 1.7281	RC3	-.2542	FAU	.00645	RRT -.9570	RRF .9952	RTF -.9762	CRT -.9884	CRS -.9997	CST .9917
FDE 2.6253	FRA 1.9235	FC3	-.1039	BSP	12080	SGB 3907.7	R23 -.0775	R13 .9955	LSA 3220.2	MSA 218.1	SSA 3.3
BDE 3.3782	BRA 2.9843	BC3	.2542	FSP	-735	SG1 3865.7	SG2 570.8	THA 137.51	EL1 2768.6	EL2 209.5	ALF 131.14

LAUNCH DATE SEP 26 1965 FLIGHT TIME 150.00 ARRIVAL DATE FEB 23 1966

HELIOCENTRIC CONIC DISTANCE 393.153

RL 149.98 LAL -.00 LOL 2.70 VL 27.151 GAL 4.24 AZL 73.93 HCA 167.69 SMA 128.53 ECC .18214 INC16.0729 V1 29.709
RP 107.64 LAP 3.38 LOP 170.86 VP 37.858 GAP -4.78 AZP 105.72 TAL 160.28 TAP 327.97 RCA 105.12 APO 151.94 V2 35.204
RC 55.368 GL 59.28 GP -70.78 ZAL 73.34 ZAP 71.90 ETS 66.51 ZAE 97.35 ETE 299.37 ZAC 95.92 ETC 149.90 CLP -19.29

PLANETOCENTRIC CONIC

C3 76.036 VHL 8.720 DLA 38.76 RAL 293.13 RAD 6569.5 VEL 14.049 PTH 2.56 VHP 10.648 DPA -69.91 RAP 46.92 ECC 2.2514

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
62.34	21 21 28	4464.12	-13.97	200.61	185.09	53.47	22 35 52	3864.1	-18.63	194.25
117.66	3 47 2	3267.47	-13.96	109.92	185.08	53.46	4 41 30	2667.5	-18.62	103.56
62.34	21 21 28	4464.12	-13.97	200.61	185.09	53.47	22 35 52	3864.1	-18.63	194.25
117.66	3 47 2	3267.47	-13.96	109.92	185.08	53.46	4 41 30	2667.5	-18.62	103.56
62.34	21 21 28	4464.12	-13.97	200.61	185.09	53.47	22 35 52	3864.1	-18.63	194.25
117.66	3 47 2	3267.47	-13.96	109.92	185.08	53.46	4 41 30	2667.5	-18.62	103.56

DIFFERENTIAL CORRECTIONS

TOE-3.1983 TRA-2.8422 TC3 -.0449 BAU .1303
RDE 3.3017 RRA 1.6917 RC3 -.1200 FAU-.00070
FDE 2.5284 FRA 1.6055 FC3 .0080 BSP 12710
BDE 4.5968 BRA 3.3075 BC3 .1281 FSP -580

MID-COURSE EXECUTION ACCURACY

SGT 3187.3 SGR 2604.3 SG3 185.1
RRT -.9586 RRF .9910 RTF -.9859
SGB 4116.0 R23 -.0474 R13 .9979
SG1 4074.9 SG2 580.1 THA 140.99

ORBIT DETERMINATION ACCURACY

ST 2221.0 SR 2211.2 SS 1573.4
CRT -.9909 CRS -.9990 CST .9960
LSA 3500.3 MSA 213.6 SSA 2.5
EL1 3126.9 EL2 211.2 ALF 135.13

LAUNCH DATE SEP 26 1965 FLIGHT TIME 152.00 ARRIVAL DATE FEB 25 1966

HELIOCENTRIC CONIC DISTANCE 399.567

RL 149.98 LAL -.00 LOL 2.70 VL 27.186 GAL 4.17 AZL 68.54 HCA 170.77 SMA 128.77 ECC .17973 INC21.4569 V1 29.709
RP 107.67 LAP 3.36 LOP 174.10 VP 37.875 GAP -4.30 AZP 111.20 TAL 160.28 TAP 331.05 RCA 105.62 APO 151.91 V2 35.195
RC 57.230 GL 62.75 GP -77.35 ZAL 77.21 ZAP 77.36 ETS 89.54 ZAE 89.18 ETE 323.34 ZAC 103.07 ETC 175.21 CLP -2.36

PLANETOCENTRIC CONIC

C3 124.458 VHL 11.156 DLA 41.34 RAL 288.65 RAD 6570.3 VEL 15.678 PTH 2.79 VHP 13.713 DPA -65.86 RAP 66.93 ECC 3.0483

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
58.52	20 46 6	4619.50	-10.14	210.66	186.93	49.70	22 3 6	4019.5	-15.25	204.76
121.48	3 46 40	3324.20	-10.13	111.62	186.92	49.70	4 42 4	2724.2	-15.23	105.72
58.52	20 46 6	4619.50	-10.14	210.66	186.93	49.70	22 3 6	4019.5	-15.25	204.76
121.48	3 46 40	3324.20	-10.13	111.62	186.92	49.70	4 42 4	2724.2	-15.23	105.72
58.52	20 46 6	4619.50	-10.14	210.66	186.93	49.70	22 3 6	4019.5	-15.25	204.76
121.48	3 46 40	3324.20	-10.13	111.62	186.92	49.70	4 42 4	2724.2	-15.23	105.72

DIFFERENTIAL CORRECTIONS

TOE-6.2228 TRA-3.8068 TC3 -.1186 BAU .2033
RDE 2.1817 RRA .4133 RC3 -.0296 FAU-.00862
FDE 2.4316 FRA 1.3330 FC3 .0600 BSP 13360
BDE 6.5942 BRA 3.8292 BC3 .1722 FSP -431

MID-COURSE EXECUTION ACCURACY

SGT 4131.1 SGR 1157.5 SG3 134.1
RRT -.8992 RRF .9175 RTF -.9984
SGB 4290.2 R23 -.0157 R13 .9993
SG1 4262.0 SG2 490.8 THA 165.66

ORBIT DETERMINATION ACCURACY

ST 3290.1 SR 1123.7 SS 1514.7
CRT -.9865 CRS -.9902 CST .9997
LSA 3788.3 MSA 174.4 SSA 1.9
EL1 3472.3 EL2 174.1 ALF 161.33

LAUNCH DATE SEP 26 1965 FLIGHT TIME 154.00 ARRIVAL DATE FEB 27 1966

HELIOCENTRIC CONIC DISTANCE 405.777

RL 149.98 LAL -.00 LOL 2.70 VL 27.217 GAL 4.15 AZL 58.06 HCA 173.69 SMA 128.97 ECC .17788 INC31.9417 V1 29.709
RP 107.70 LAP 3.33 LOP 177.34 VP 37.888 GAP -3.87 AZP 121.79 TAL 160.12 TAP 333.81 RCA 106.03 APO 151.92 V2 35.186
RC 59.152 GL 63.66 GP -78.62 ZAL 81.16 ZAP 82.13 ETS 153.32 ZAE 79.16 ETE 27.92 ZAC 112.52 ETC 242.08 CLP 46.03

PLANETOCENTRIC CONIC

C3 256.802 VHL 16.025 DLA 41.28 RAL 283.32 RAD 6571.5 VEL 19.445 PTH 3.11 VHP 19.941 DPA -57.60 RAP 80.67 ECC 5.2263

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
58.62	20 25 15	4737.62	-4.84	216.26	187.80	48.96	21 44 13	4137.6	-10.05	210.56
121.38	3 24 59	3444.62	-4.82	117.42	187.79	48.96	4 22 23	2844.6	-10.04	111.72
58.62	20 25 15	4737.62	-4.84	216.26	187.80	48.96	21 44 13	4137.6	-10.05	210.56
121.38	3 24 59	3444.62	-4.82	117.42	187.79	48.96	4 22 23	2844.6	-10.04	111.72
58.62	20 25 15	4737.62	-4.84	216.26	187.80	48.96	21 44 13	4137.6	-10.05	210.56
121.38	3 24 59	3444.62	-4.82	117.42	187.79	48.96	4 22 23	2844.6	-10.04	111.72

DIFFERENTIAL CORRECTIONS

TOE-6.3869 TRA-2.2377 TC3 -.1467 BAU .8107
RDE-7.9477 RRA-4.3407 RC3 -.1851 FAU-.02057
FDE 2.5166 FRA 1.2224 FC3 .0694 BSP 13630
BDE10.1959 BRA 4.8836 BC3 .2361 FSP -307

MID-COURSE EXECUTION ACCURACY

SGT 2563.0 SGR 3562.4 SG3 94.5
RRT .9820 RRF -.9979 RTF -.9907
SGB 4388.6 R23 -.0072 R13 -.9995
SG1 4370.8 SG2 394.5 THA 54.42

ORBIT DETERMINATION ACCURACY

ST 2305.8 SR 2908.4 SS 1579.1
CRT .9971 CRS .9997 CST .9986
LSA 4031.2 MSA 137.0 SSA 1.7
EL1 3709.0 EL2 136.7 ALF 51.61

LAUNCH DATE SEP 26 1965 FLIGHT TIME 156.00 ARRIVAL DATE MAR 1 1966

HELIOCENTRIC CONIC DISTANCE 411.350

RL 149.98 LAL -.00 LOL 2.70 VL 27.243 GAL 4.26 AZL 32.76 HCA 176.09 SMA 129.16 ECC .17712 INC57.2426 V1 29.709
RP 107.73 LAP 3.29 LOP 180.58 VP 37.898 GAP -3.61 AZP 147.18 TAL 159.47 TAP 335.56 RCA 106.28 APO 152.03 V2 35.176
RC 61.127 GL 56.34 GP -65.35 ZAL 84.74 ZAP 85.75 ETS 178.68 ZAE 63.76 ETE 51.86 ZAC 128.76 ETC 271.69 CLP 79.76

PLANETOCENTRIC CONIC

C3 753.470 VHL 27.449 DLA 33.24 RAL 278.06 RAD 6572.7 VEL 29.576 PTH 3.44 VHP 34.641 DPA -41.47 RAP 88.63 ECC13.4002

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
71.82	21 13 51	4631.77	-.33	204.30	187.58	56.76	22 31 3	4031.8	-4.70	198.01
108.18	1 54 25	3748.81	-.31	138.63	187.57	56.76	2 56 54	3148.8	-4.68	132.34
71.82	21 13 51	4631.77	-.33	204.30	187.58	56.76	22 31 3	4031.8	-4.70	198.01
108.18	1 54 25	3748.81	-.31	138.63	187.57	56.76	2 56 54	3148.8	-4.68	132.34
110.00	3 6 25	3527.92	-7.41	126.18	192.25	56.53	4 5 13	2927.9	-11.76	119.75
110.00	1 4 57	3900.65	6.77	145.72	182.90	56.41	2 9 58	3300.7	2.31	139.48

DIFFERENTIAL CORRECTIONS

TOE-5.8522 TRA -.2542 TC3 -.1088 BAU 3.0489
RDE15.0425 RRA-7.4310 RC3 -.2824 FAU-.05490
FDE 3.1396 FRA 1.5594 FC3 .0631 BSP 13030
BDE16.1408 BRA 7.4353 BC3 .3027 FSP -235

MID-COURSE EXECUTION ACCURACY

SGT 1361.3 SGR 3962.6 SG3 72.3
RRT .9046 RRF -.9997 RTF -.9057
SGB 4189.9 R23 -.0390 R13 -.9989
SG1 4153.1 SG2 553.7 THA 72.41

ORBIT DETERMINATION ACCURACY

ST 1221.8 SR 3189.1 SS 1992.6
CRT .9873 CRS 1.0000 CST .9871
LSA 3949.6 MSA 185.4 SSA 1.8
EL1 3610.3 EL2 181.8 ALF 69.22

LAUNCH DATE SEP 26 1965 FLIGHT TIME 158.00 ARRIVAL DATE MAR 3 1966

HELIOCENTRIC CONIC DISTANCE 422.647

RL	149.98	LAL	-.00	LOL	2.70	VL	27.266	GAL	3.34	AZL	161.00	HCA	183.43	SMA	129.31	ECC	.16989	INC	70.9960	VI	29.709
RP	107.76	LAP	3.24	LOP	183.82	VP	37.905	GAP	-1.92	AZP	19.03	TAL	163.27	TAP	346.69	RCA	107.34	APO	151.28	V2	35.166
RC	63.151	GL	-50.86	GP	56.89	ZAL	86.40	ZAP	88.05	ETS	189.14	ZAE	69.92	ETE	309.98	ZAC	108.77	ETC	91.21	CLP	86.44

PLANETOCENTRIC CONIC

C3	1101.044	VHL	33.182	DLA	-73.74	RAL	289.24	RAD	6573.0	VEL	34.962	PTH	3.52	VHP	43.008	DPA	80.71	RAP	73.34	ECC	19.1204

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
18.54	6 55 44	2452.20	-.68	80.37	199.42	163.74	7 36 36	1852.2	7.00	78.54
161.46	17 41 44	677.99	-.67	285.86	199.45	163.74	17 53 2	78.0	7.01	284.03
18.54	6 55 44	2452.20	-.68	80.37	199.42	163.74	7 36 36	1852.2	7.00	78.54
161.46	17 41 44	677.99	-.67	285.86	199.45	163.74	17 53 2	78.0	7.01	284.03
18.54	6 55 44	2452.20	-.68	80.37	199.42	163.74	7 36 36	1852.2	7.00	78.54
161.46	17 41 44	677.99	-.67	285.86	199.45	163.74	17 53 2	78.0	7.01	284.03

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	9.0415	TRA	-1.0573	TC3	-.1518	BAU	4.5200	SGT	1969.2	SGR	3469.8	SG3	71.5	ST	1573.7	SR	2089.1	SS	1991.3
RD	-11.4551	RRA	3.6215	RC3	.2669	FAU	-.07810	RRT	-.9263	RRF	.9980	RTF	-.9461	CRT	-.9797	CRS	-.9992	CST	.9869
FDE	-2.9760	FRA	.8190	FC3	.0614	BSP	11799	SGB	3989.7	R23	-.0329	R13	.9991	LSA	3277.1	MSA	258.7	SSA	2.3
BDE	14.5934	BRA	3.7727	BC3	.3071	FSP	-216	SG1	3935.7	SG2	654.0	THA	118.59	EL1	2603.2	EL2	253.4	ALF	126.83

LAUNCH DATE SEP 26 1965 FLIGHT TIME 160.00 ARRIVAL DATE MAR 5 1966

HELIOCENTRIC CONIC DISTANCE 427.685

RL	149.98	LAL	-.00	LOL	2.70	VL	27.286	GAL	3.57	AZL	126.18	HCA	185.38	SMA	129.45	ECC	.17011	INC	36.1823	VI	29.709
RP	107.80	LAP	3.18	LOP	187.05	VP	37.909	GAP	-1.81	AZP	53.94	TAL	162.12	TAP	347.51	RCA	107.43	APO	151.47	V2	35.155
RC	65.219	GL	-63.47	GP	77.26	ZAL	83.01	ZAP	86.61	ETS	210.53	ZAE	88.17	ETE	326.62	ZAC	88.49	ETC	109.16	CLP	74.43

PLANETOCENTRIC CONIC

C3	322.923	VHL	17.970	DLA	-81.63	RAL	347.02	RAD	6571.8	VEL	21.077	PTH	3.19	VHP	23.519	DPA	77.35	RAP	293.96	ECC	6.3145

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
9.52	10 28 17	2376.48	5.35	84.19	256.21	171.59	11 7 54	1776.5	13.26	83.41
170.48	21 50 8	5862.13	5.36	258.72	256.24	171.59	23 27 50	5262.1	13.27	257.94
9.52	10 28 17	2376.48	5.35	84.19	256.21	171.59	11 7 54	1776.5	13.26	83.41
170.48	21 50 8	5862.13	5.36	258.72	256.24	171.59	23 27 50	5262.1	13.27	257.94
9.52	10 28 17	2376.48	5.35	84.19	256.21	171.59	11 7 54	1776.5	13.26	83.41
170.48	21 50 8	5862.13	5.36	258.72	256.24	171.59	23 27 50	5262.1	13.27	257.94

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-.0662	TRA	-1.4865	TC3	-.1954	BAU	1.2272	SGT	3330.5	SGR	3324.8	SG3	91.8	ST	977.1	SR	1263.7	SS	708.2
RDE	2.6530	RRA	1.4285	RC3	.2064	FAU	-.02214	RRT	-.9685	RRF	.9942	RTF	-.9892	CRT	-.7572	CRS	-.9690	CST	.8952
FDE	.5082	FRA	.4696	FC3	.0594	BSP	14285	SGB	4706.0	R23	-.0200	R13	.9996	LSA	1663.1	MSA	536.0	SSA	1.2
BDE	2.6538	BRA	2.0617	BC3	.2643	FSP	-284	SG1	4668.8	SG2	590.7	THA	135.05	EL1	1504.8	EL2	536.0	ALF	125.52

LAUNCH DATE SEP 26 1965 FLIGHT TIME 162.00 ARRIVAL DATE MAR 7 1966

HELIOCENTRIC CONIC DISTANCE 433.678

RL	149.98	LAL	-.00	LOL	2.70	VL	27.302	GAL	3.62	AZL	112.34	HCA	188.19	SMA	129.56	ECC	.16955	INC	22.3372	VI	29.709
RP	107.83	LAP	3.10	LOP	190.28	VP	37.910	GAP	-1.46	AZP	67.87	TAL	161.74	TAP	349.93	RCA	107.59	APO	151.52	V2	35.143
RC	67.327	GL	-64.14	GP	85.35	ZAL	78.89	ZAP	85.59	ETS	269.21	ZAE	97.93	ETE	22.73	ZAC	78.36	ETC	163.53	CLP	18.48

PLANETOCENTRIC CONIC

C3	132.420	VHL	11.507	DLA	-77.82	RAL	2.12	RAD	6570.4	VEL	15.930	PTH	2.81	VHP	15.165	DPA	66.86	RAP	289.07	ECC	3.1793

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
13.87	11 37 2	2235.46	14.29	80.28	268.95	167.42	12 14 18	1635.5	22.09	78.83
166.13	22 41 52	5732.27	14.30	259.03	268.97	167.42	24 17 24	5132.3	22.10	257.58
13.87	11 37 2	2235.46	14.29	80.28	268.95	167.42	12 14 18	1635.5	22.09	78.83
166.13	22 41 52	5732.27	14.30	259.03	268.97	167.42	24 17 24	5132.3	22.10	257.58
13.87	11 37 2	2235.46	14.29	80.28	268.95	167.42	12 14 18	1635.5	22.09	78.83
166.13	22 41 52	5732.27	14.30	259.03	268.97	167.42	24 17 24	5132.3	22.10	257.58

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-3.9393	TRA	-1.8080	TC3	-.1434	BAU	.2555	SGT	4707.0	SGR	1219.0	SG3	130.2	ST	2342.1	SR	370.9	SS	970.5
RDE	.1321	RRA	-.5156	RC3	.0165	FAU	-.00365	RRT	.8799	RRF	-.8872	RTF	-.9994	CRT	.3892	CRS	.4005	CST	.9999
FDE	1.2357	FRA	.5825	FC3	.0238	BSP	15299	SGB	4862.3	R23	.0105	R13	-.9995	LSA	2539.4	MSA	341.0	SSA	1.8
BDE	3.9416	BRA	1.8800	BC3	.1443	FSP	-418	SG1	4829.4	SG2	564.5	THA	13.02	EL1	2346.6	EL2	341.0	ALF	3.60

LAUNCH DATE SEP 26 1965 FLIGHT TIME 164.00 ARRIVAL DATE MAR 9 1966

HELIOCENTRIC CONIC DISTANCE 439.913

RL	149.98	LAL	-.00	LOL	2.70	VL	27.315	GAL	3.65	AZL	105.71	HCA	191.22	SMA	129.65	ECC	.16896	INC	15.7145	VI	29.709
RP	107.87	LAP	3.02	LOP	193.51	VP	37.908	GAP	-1.05	AZP	74.57	TAL	161.52	TAP	352.74	RCA	107.74	APO	151.55	V2	35.132
RC	69.470	GL	-60.84	GP	82.59	ZAL	74.71	ZAP	85.36	ETS	313.80	ZAE	104.35	ETE	65.28	ZAC	71.83	ETC	203.67	CLP	-51.10

PLANETOCENTRIC CONIC

C3	71.482	VHL	8.455	DLA	-73.55	RAL	356.62	RAD	6569.4	VEL	13.886	PTH	2.54	VHP	11.159	DPA	59.88	RAP	288.47	ECC	2.1764

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
18.77	11 25 0	2093.97	22.63	74.48	259.54	162.13	11 59 54	1494.0	30.21	72.07
161.23	22 10 5	5608.76	22.63	258.11	259.56	162.13	23 43 33	5008.8	30.22	255.69
18.77	11 25 0	2093.97	22.63	74.48	259.54	162.13	11 59 54	1494.0	30.21	72.07
161.23	22 10 5	5608.76	22.63	258.11	259.56	162.13	23 43 33	5008.8	30.22	255.69
18.77	11 25 0	2093.97	22.63	74.48	259.54	162.13	11 59 54	1494.0	30.21	72.07
161.23	22 10 5	5608.76	22.63	258.11	259.56	162.13	23 43 33	5008.8	30.22	255.69

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-1.8368	TRA	-.9301	TC3	-.0402	BAU	.1394	SGT	2550.9	SGR	4234.3	SG3	186.4	ST	1412.5	SR	1644.0	SS	919.8
RDE	-1.6181	RRA	-1.7063	RC3	.1402	FAU	.00737	RRT	.9662	RRF	-.9962	RTF	-.9824	CRT	.9399	CRS	.9886	CST	.9806
FDE	1.0862	FRA	.8454	FC3	-.0892	BSP	15487	SGB	4943.3	R23	.0092	R13	-.9991	LSA	2325.1	MSA	371.2	SSA	2.5
BDE	2.4479	BRA	1.9433	BC3	.1458	FSP	-597	SG1	4910.6	SG2	567.4	THA	59.34	EL1	2135.5	EL2	371.2	ALF	49.60

LAUNCH DATE SEP 26 1965 FLIGHT TIME 166.00 ARRIVAL DATE MAR 11 1966

DISTANCE 446.222

HELIOCENTRIC CONIC

RL	149.98	LAL	-.00	LOL	2.70	VL	27.325	GAL	3.67	AZL	101.91	HCA	194.33	SMA	129.72	ECC	.16851	INCL	1.9123
RP	107.90	LAP	2.93	LOP	196.74	VP	37.905	GAP	-.62	AZP	78.45	TAL	161.34	TAP	355.68	RCA	107.86	APO	151.58
RC	71.643	GL	-56.24	GP	77.80	ZAL	70.68	ZAP	85.95	ETS	332.37	ZAE	109.24	ETE	82.24	ZAC	66.72	ETC	217.87

V1	29.709	V2	35.120	CLP	-70.48														

PLANETOCENTRIC CONIC

C3	45.840	VHL	6.771	DLA	-69.06	RAL	349.66	RAD	6568.7	VEL	12.931	PTH	2.36	VHP	8.899	DPA	54.41	RAP	288.10

ECC	1.7544																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
23.95	11 8 10	1972.41	28.79	67.18	247.51	155.93	11 41 3	1372.4	36.04	63.57
156.05	21 31 22	5513.02	28.80	256.18	247.53	155.93	23 3 15	4913.0	36.05	252.57
23.95	11 8 10	1972.41	28.79	67.18	247.51	155.93	11 41 3	1372.4	36.04	63.57
156.05	21 31 22	5513.02	28.80	256.18	247.53	155.93	23 3 15	4913.0	36.05	252.57
23.95	11 8 10	1972.41	28.79	67.18	247.51	155.93	11 41 3	1372.4	36.04	63.57
156.05	21 31 22	5513.02	28.80	256.18	247.53	155.93	23 3 15	4913.0	36.05	252.57

DIFFERENTIAL CORRECTIONS

TDE	-.9050	TRA	-.3796	TC3	-.0753	BAU	.2630				
RDE	-1.1457	RRA	-1.9840	RC3	.4225	FAU	.01706				
FDE	.8992	FRA	1.1959	FC3	-.3222	BSP	15558				
BDE	1.4600	BRA	2.0200	BC3	.4291	FSP	-821				

MID-COURSE EXECUTION ACCURACY

SGT	1185.4	SGR	4831.2	SG3	256.2						
RRT	.8570	RRF	-.9979	RTF	-.8776						
SGB	4974.5	R23	.0178	R13	-.9987						
SG1	4938.5	SG2	597.6	THA	77.95						

ORBIT DETERMINATION ACCURACY

ST	812.0	SR	1710.8	SS	877.0						
CRT	.8081	CRS	.9918	CST	.8766						
LSA	2039.0	MSA	445.0	SSA	3.2						
EL1	1840.9	EL2	444.5	ALF	67.64						

LAUNCH DATE SEP 26 1965 FLIGHT TIME 168.00 ARRIVAL DATE MAR 13 1966

DISTANCE 452.553

HELIOCENTRIC CONIC

RL	149.98	LAL	-.00	LOL	2.70	VL	27.333	GAL	3.70	AZL	99.45	HCA	197.49	SMA	129.77	ECC	.16825	INC	9.4525
RP	107.94	LAP	2.83	LOP	199.96	VP	37.899	GAP	-.19	AZP	80.98	TAL	161.16	TAP	358.65	RCA	107.94	APO	151.61
RC	73.845	GL	-51.26	GP	73.40	ZAL	66.90	ZAP	87.31	ETS	343.34	ZAE	113.20	ETE	92.11	ZAC	62.27	ETC	224.68

V1	29.709	V2	35.108	CLP	-80.57														

PLANETOCENTRIC CONIC

C3	32.980	VHL	5.743	DLA	-64.42	RAL	343.94	RAD	6568.3	VEL	12.424	PTH	2.25	VHP	7.478	DPA	49.70	RAP	287.54

ECC	1.5428																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
29.37	10 57 31	1871.65	32.62	58.85	236.09	149.16	11 28 43	1271.6	39.38	53.97
150.63	20 56 24	5447.65	32.63	253.80	236.11	149.16	22 27 11	4847.6	39.39	248.92
29.37	10 57 31	1871.65	32.62	58.85	236.09	149.16	11 28 43	1271.6	39.38	53.97
150.63	20 56 24	5447.65	32.63	253.80	236.11	149.16	22 27 11	4847.6	39.39	248.92
29.37	10 57 31	1871.65	32.62	58.85	236.09	149.16	11 28 43	1271.6	39.38	53.97
150.63	20 56 24	5447.65	32.63	253.80	236.11	149.16	22 27 11	4847.6	39.39	248.92

DIFFERENTIAL CORRECTIONS

TDE	-.5469	TRA	-.0153	TC3	-.2062	BAU	.3364				
RDE	-.7411	RRA	-2.0833	RC3	.7346	FAU	.02658				
FDE	.7701	FRA	1.6098	FC3	-.6978	BSP	15595				
BDE	.9211	BRA	2.0834	BC3	.7630	FSP	-1081				

MID-COURSE EXECUTION ACCURACY

SGT	595.9	SGR	4943.0	SG3	335.4						
RRT	.1269	RRF	-.9981	RTF	-.1560						
SGB	4978.8	R23	.0277	R13	-.9981						
SG1	4943.6	SG2	591.0	THA	89.11						

ORBIT DETERMINATION ACCURACY

ST	545.8	SR	1622.7	SS	875.5						
CRT	.4727	CRS	.9916	CST	.5826						
LSA	1862.4	MSA	478.4	SSA	4.0						
EL1	1645.0	EL2	474.5	ALF	80.14						

LAUNCH DATE SEP 26 1965 FLIGHT TIME 170.00 ARRIVAL DATE MAR 15 1966

DISTANCE 458.886

HELIOCENTRIC CONIC

RL	149.98	LAL	-.00	LOL	2.70	VL	27.338	GAL	3.73	AZL	97.73	HCA	200.65	SMA	129.81	ECC	.16819	INC	7.7275
RP	107.98	LAP	2.72	LOP	203.18	VP	37.891	GAP	.23	AZP	82.76	TAL	160.96	TAP	1.61	RCA	107.97	APO	151.64
RC	76.070	GL	-46.29	GP	69.33	ZAL	63.42	ZAP	89.36	ETS	351.49	ZAE	116.51	ETE	99.75	ZAC	58.15	ETC	228.94

V1	29.709	V2	35.095	CLP	-88.20														

PLANETOCENTRIC CONIC

C3	25.755	VHL	5.075	DLA	-59.77	RAL	339.57	RAD	6568.0	VEL	12.130	PTH	2.17	VHP	6.523	DPA	45.43	RAP	286.75

ECC	1.4239																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
34.88	10 53 25	1786.82	34.46	50.13	225.99	142.37	11 23 12	1186.8	40.63	44.12
145.12	20 25 36	5408.85	34.47	251.58	226.01	142.36	21 55 45	4808.8	40.64	245.57
34.88	10 53 25	1786.82	34.46	50.13	225.99	142.37	11 23 12	1186.8	40.63	44.12
145.12	20 25 36	5408.85	34.47	251.58	226.01	142.36	21 55 45	4808.8	40.64	245.57
34.88	10 53 25	1786.82	34.46	50.13	225.99	142.37	11 23 12	1186.8	40.63	44.12
145.12	20 25 36	5408.85	34.47	251.58	226.01	142.36	21 55 45	4808.8	40.64	245.57

DIFFERENTIAL CORRECTIONS

TDE	-.3739	TRA	.2885	TC3	-.4167	BAU	.3822				
RDE	-.5116	RRA	-2.1153	RC3	1.0289	FAU	.03595				
FDE	.7127	FRA	2.0657	FC3	-1.2084	BSP	15589				
BDE	.6336	BRA	2.1349	BC3	1.1101	FSP	-1361				

MID-COURSE EXECUTION ACCURACY

SGT	880.8	SGR	4891.4	SG3	419.8						
RRT	-.7584	RRF	-.9980	RTF	.7422						
SGB	4970.1	R23	.0383	R13	-.9975						
SG1	4937.4	SG2	568.7	THA	97.88						

ORBIT DETERMINATION ACCURACY

ST	464.8	SR	1536.1	SS	905.3						
CRT	-.0460	CRS	.9903	CST	.0929						
LSA	1779.7	MSA	477.2	SSA	4.9						
EL1	1536.3	EL2	464.2	ALF	90.88						

LAUNCH DATE SEP 26 1965 FLIGHT TIME 172.00 ARRIVAL DATE MAR 17 1966

DISTANCE 465.209

HELIOCENTRIC CONIC

RL	149.98	LAL	-.00	LOL	2.70	VL	27.341	GAL	3.78	AZL	96.45	HCA	203.83	SMA	129.83	ECC	.16834	INC	6.4459
RP	108.02	LAP	2.60	LOP	206.40	VP	37.881	GAP	.66	AZP	84.10	TAL	160.73	TAP	4.56	RCA	107.97	APO	151.68
RC	78.316	GL	-41.48	GP	65.48	ZAL	60.26	ZAP	92.00	ETS	358.19	ZAE	119.27	ETE	106.55	ZAC	54.21	ETC	232.04

V1	29.709	V2	35.082	CLP	-94.83														

PLANETOCENTRIC CONIC

C3	21.380	VHL	4.624	DLA	-55.24	RAL	336.26	RAD	6567.9	VEL	11.948	PTH	2.13	VHP	5.854	DPA	41.42	RAP	285.81

ECC	1.3519																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
40.37	10 54 49	1712.46	34.80	41.51	217.40	136.03	11 23 21	1112.5	40.34	34.64
139.63	19 57 46	5392.30	34.81	250.04	217.42	136.02	21 27 39	4792.3	40.36	243.17
40.37	10 54 49	1712.46	34.80	41.51	217.40	136.03	11 23 21	1112.5	40.34	34.64
139.63	19 57 46	5392.30	34.81	250.04	217.42	136.02	21 27 39	4792.3	40.36	243.17
40.37	10 54 49	1712.46	34.80	41.51	217.40	136.03	11 23 21	1112.5	40.34	34.64
139.63	19 57 46	5392.30	34.81	250.04	217.42	136.02	21 27 39	4792.3	40.36	243.17

DIFFERENTIAL CORRECTIONS

TDE	-.2656	TRA	.5684	TC3	-.6908	BAU	.4143				
RDE	-.3928	RRA	-2.1043	RC3	1.2742	FAU	.04492				
FDE	.7204	FRA	2.5410	FC3	-1.8189	BSP	15574				
BDE	.4741	BRA	2.1798	BC3	1.4494	FSP	-1648				

MID-COURSE EXECUTION ACCURACY

SGT	1429.2	SGR	4747.7	SG3	504.7						
RRT	-.9200	RRF	-.9978	RTF	.9107						
SGB	4958.1	R23	.0491	R13	-.9967						
SG1	4928.7	SG2	539.6	THA	105.67						

ORBIT DETERMINATION ACCURACY

ST	496.0	SR	1456.2	SS	952.1						
CRT	-.4832	CRS	.9883	CST	-.3440						
LSA	1750.3	MSA	457.5	SSA	5.7						
EL1	1477.6	EL2	427.9	ALF	100.21						

LAUNCH DATE SEP 26 1965 FLIGHT TIME 174.00 ARRIVAL DATE MAR 19 1966

HELIOCENTRIC CONIC DISTANCE 471.519

RL 149.98 LAL -.00 LOL 2.70 VL 27.341 GAL 3.84 AZL 95.45 HCA 207.02 SMA 129.83 ECC .16871 INC 5.4516 V1 29.709
RP 108.06 LAP 2.47 LOP 209.62 VP 37.870 GAP 1.08 AZP 85.14 TAL 160.46 TAP 7.48 RCA 107.93 APO 151.73 V2 35.069
RC 80.581 GL -36.94 GP 61.76 ZAL 57.43 ZAP 95.12 ETS 3.89 ZAE 121.55 ETE 112.94 ZAC 50.38 ETC 234.43 CLP-100.87

PLANETOCENTRIC CONIC

C3 18.601 VHL 4.313 DLA -50.90 RAL 333.73 RAD 6567.8 VEL 11.831 PTH 2.10 VHP 5.375 DPA 37.59 RAP 284.76 ECC 1.3061

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
45.76	11 0 44	1643.91	34.10	33.24	210.34	130.39	11 28 8	1043.9	39.04	25.81
134.24	19 31 42	5394.61	34.11	249.49	210.35	130.38	21 1 36	4794.6	39.05	242.06
45.76	11 0 44	1643.91	34.10	33.24	210.34	130.39	11 28 8	1043.9	39.04	25.81
134.24	19 31 42	5394.61	34.11	249.49	210.35	130.38	21 1 36	4794.6	39.05	242.06
45.76	11 0 44	1643.91	34.10	33.24	210.34	130.39	11 28 8	1043.9	39.04	25.81
134.24	19 31 42	5394.61	34.11	249.49	210.35	130.38	21 1 36	4794.6	39.05	242.06

DIFFERENTIAL CORRECTIONS
TDE -.1788 TRA .8348 TC3-1.0088 BAU .4392
RDE -.3363 RRA-2.0618 RC3 1.4499 FAU .05311
FDE .7838 FRA 3.0129 FC3-2.4717 BSP 15545
BDE .3809 BRA 2.2244 BC3 1.7663 FSP -1923

MID-COURSE EXECUTION ACCURACY
SGT 1976.3 SGR 4541.6 SG3 585.4
RRT -.9603 RRF -.9975 RTF .9535
SGB 4953.0 R23 .0593 R13 -.9959
SG1 4926.8 SG2 508.2 THA 112.94

ORBIT DETERMINATION ACCURACY
ST 579.2 SR 1377.9 SS 1008.1
CRT -.7296 CRS .9856 CST -.6035
LSA 1750.5 MSA 431.2 SSA 6.5
EL1 1446.2 EL2 377.4 ALF 108.34

LAUNCH DATE SEP 26 1965 FLIGHT TIME 176.00 ARRIVAL DATE MAR 21 1966

HELIOCENTRIC CONIC DISTANCE 477.811

RL 149.98 LAL -.00 LOL 2.70 VL 27.340 GAL 3.91 AZL 94.65 HCA 210.21 SMA 129.82 ECC .16928 INC 4.6537 V1 29.709
RP 108.10 LAP 2.34 LOP 212.83 VP 37.856 GAP 1.49 AZP 85.98 TAL 160.15 TAP 10.36 RCA 107.85 APO 151.80 V2 35.056
RC 82.862 GL -32.69 GP 58.15 ZAL 54.91 ZAP 98.60 ETS 8.78 ZAE 123.37 ETE 119.07 ZAC 46.64 ETC 236.26 CLP-106.46

PLANETOCENTRIC CONIC

C3 16.790 VHL 4.098 DLA -46.80 RAL 331.79 RAD 6567.7 VEL 11.755 PTH 2.07 VHP 5.031 DPA 33.88 RAP 283.70 ECC 1.2763

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
51.04	11 10 40	1577.32	32.73	25.35	204.66	125.54	11 36 57	977.3	37.12	17.60
128.96	19 6 19	5413.62	32.74	250.09	204.67	125.53	20 36 32	4813.6	37.13	242.35
51.04	11 10 40	1577.32	32.73	25.35	204.66	125.54	11 36 57	977.3	37.12	17.60
128.96	19 6 19	5413.62	32.74	250.09	204.67	125.53	20 36 32	4813.6	37.13	242.35
51.04	11 10 40	1577.32	32.73	25.35	204.66	125.54	11 36 57	977.3	37.12	17.60
128.96	19 6 19	5413.62	32.74	250.09	204.67	125.53	20 36 32	4813.6	37.13	242.35

DIFFERENTIAL CORRECTIONS
TDE -.0955 TRA 1.0915 TC3-1.3465 BAU .4597
RDE -.3129 RRA-1.9971 RC3 1.5433 FAU .05996
FDE .8920 FRA 3.4621 FC3-3.0918 BSP 15483
BDE .3271 BRA 2.2759 BC3 2.0481 FSP -2164

MID-COURSE EXECUTION ACCURACY
SGT 2491.3 SGR 4293.2 SG3 657.9
RRT -.9754 RRF -.9971 RTF .9697
SGB 4963.7 R23 .0680 R13 -.9949
SG1 4940.7 SG2 477.4 THA 119.82

ORBIT DETERMINATION ACCURACY
ST 682.9 SR 1300.2 SS 1070.2
CRT -.8576 CRS .9824 CST -.7465
LSA 1771.7 MSA 404.1 SSA 7.3
EL1 1433.6 EL2 318.6 ALF 115.60

LAUNCH DATE SEP 26 1965 FLIGHT TIME 178.00 ARRIVAL DATE MAR 23 1966

HELIOCENTRIC CONIC DISTANCE 484.083

RL 149.98 LAL -.00 LOL 2.70 VL 27.337 GAL 4.00 AZL 94.00 HCA 213.40 SMA 129.80 ECC .17005 INC 3.9957 V1 29.709
RP 108.14 LAP 2.20 LOP 216.04 VP 37.842 GAP 1.91 AZP 86.66 TAL 159.80 TAP 13.20 RCA 107.73 APO 151.87 V2 35.043
RC 85.157 GL -28.75 GP 54.61 ZAL 52.66 ZAP 102.35 ETS 12.97 ZAE 124.75 ETE 124.95 ZAC 43.00 ETC 237.58 CLP-111.67

PLANETOCENTRIC CONIC

C3 15.607 VHL 3.951 DLA -42.96 RAL 330.30 RAD 6567.6 VEL 11.704 PTH 2.06 VHP 4.788 DPA 30.28 RAP 282.69 ECC 1.2569

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
56.23	11 24 29	1509.04	30.96	17.70	200.19	121.42	11 49 38	909.0	34.86	9.80
123.77	18 40 35	5448.60	30.97	251.93	200.20	121.41	20 11 23	4848.6	34.87	244.02
56.23	11 24 29	1509.04	30.96	17.70	200.19	121.42	11 49 38	909.0	34.86	9.80
123.77	18 40 35	5448.60	30.97	251.93	200.20	121.41	20 11 23	4848.6	34.87	244.02
56.23	11 24 29	1509.04	30.96	17.70	200.19	121.42	11 49 38	909.0	34.86	9.80
123.77	18 40 35	5448.60	30.97	251.93	200.20	121.41	20 11 23	4848.6	34.87	244.02

DIFFERENTIAL CORRECTIONS
TDE -.0098 TRA 1.3368 TC3-1.6837 BAU .4807
RDE -.3006 RRA-1.9106 RC3 1.5722 FAU .06567
FDE 1.0226 FRA 3.8572 FC3-3.6426 BSP 15548
BDE .3008 BRA 2.3319 BC3 2.3036 FSP -2379

MID-COURSE EXECUTION ACCURACY
SGT 2964.6 SGR 4008.8 SG3 717.3
RRT -.9826 RRF -.9966 RTF .9776
SGB 4985.9 R23 .0744 R13 -.9939
SG1 4966.1 SG2 444.3 THA 126.34

ORBIT DETERMINATION ACCURACY
ST 795.9 SR 1217.3 SS 1130.3
CRT -.9270 CRS .9786 CST -.8300
LSA 1802.8 MSA 377.8 SSA 8.2
EL1 1432.1 EL2 253.8 ALF 122.36

LAUNCH DATE SEP 26 1965 FLIGHT TIME 180.00 ARRIVAL DATE MAR 25 1966

HELIOCENTRIC CONIC DISTANCE 490.335

RL 149.98 LAL -.00 LOL 2.70 VL 27.331 GAL 4.09 AZL 93.44 HCA 216.59 SMA 129.76 ECC .17103 INC 3.4407 V1 29.709
RP 108.18 LAP 2.05 LOP 219.24 VP 37.826 GAP 2.32 AZP 87.24 TAL 159.42 TAP 16.01 RCA 107.57 APO 151.96 V2 35.030
RC 87.465 GL -25.12 GP 51.18 ZAL 50.67 ZAP 106.25 ETS 16.54 ZAE 125.72 ETE 130.52 ZAC 39.50 ETC 238.37 CLP-116.50

PLANETOCENTRIC CONIC

C3 14.855 VHL 3.854 DLA -39.39 RAL 329.15 RAD 6567.6 VEL 11.672 PTH 2.05 VHP 4.624 DPA 26.80 RAP 281.77 ECC 1.2445

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
61.39	11 42 29	1435.31	28.97	10.04	196.73	117.94	12 6 24	835.3	32.46	2.08
118.61	18 13 25	5500.15	28.98	255.07	196.74	117.93	19 45 5	4900.2	32.47	247.10
61.39	11 42 29	1435.31	28.97	10.04	196.73	117.94	12 6 24	835.3	32.46	2.08
118.61	18 13 25	5500.15	28.98	255.07	196.74	117.93	19 45 5	4900.2	32.47	247.10
61.39	11 42 29	1435.31	28.97	10.04	196.73	117.94	12 6 24	835.3	32.46	2.08
118.61	18 13 25	5500.15	28.98	255.07	196.74	117.93	19 45 5	4900.2	32.47	247.10

DIFFERENTIAL CORRECTIONS
TDE .0811 TRA 1.5721 TC3-2.0006 BAU .5013
RDE -.2925 RRA-1.8130 RC3 1.5388 FAU .06975
FDE 1.1660 FRA 4.1896 FC3-4.0646 BSP 15675
BDE .3036 BRA 2.3997 BC3 2.5240 FSP -2549

MID-COURSE EXECUTION ACCURACY
SGT 3396.6 SGR 3709.0 SG3 761.9
RRT -.9864 RRF -.9959 RTF .9819
SGB 5029.2 R23 .0776 R13 -.9928
SG1 5012.2 SG2 413.1 THA 132.45

ORBIT DETERMINATION ACCURACY
ST 916.3 SR 1133.5 SS 1188.9
CRT -.9658 CRS .9741 CST -.8824
LSA 1847.3 MSA 354.0 SSA 9.1
EL1 1445.6 EL2 186.3 ALF 128.74

LAUNCH DATE SEP 26 1965 FLIGHT TIME 182.00 ARRIVAL DATE MAR 27 1966

HELIOCENTRIC CONIC DISTANCE 496.565

RL 149.98 LAL -.00 LOL 2.70 VL 27.325 GAL 4.21 AZL 92.96 HCA 219.78 SMA 129.72 ECC .17221 INC 2.9636 V1 29.709
RP 108.22 LAP 1.90 LOP 222.45 VP 37.809 GAP 2.73 AZP 87.72 TAL 158.99 TAP 18.77 RCA 107.38 APO 152.06 V2 35.016
RC 89.783 GL -21.78 GP 47.86 ZAL 48.90 ZAP 110.21 ETS 19.55 ZAE 126.30 ETE 135.73 ZAC 36.16 ETC 238.60 CLP-120.99

PLANETOCENTRIC CONIC

C3 14.415 VHL 3.797 DLA -36.07 RAL 328.28 RAD 6567.6 VEL 11.653 PTH 2.05 VHP 4.522 DPA 23.45 RAP 280.99 ECC 1.2372

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
66.66	12 5 41	1350.85	26.90	1.96	194.12	114.99	12 28 12	750.8	30.03	354.00
113.34	17 43 14	5571.24	26.91	259.71	194.12	114.98	19 16 6	4971.2	30.04	251.75
66.66	12 5 41	1350.85	26.90	1.96	194.12	114.99	12 28 12	750.8	30.03	354.00
113.34	17 43 14	5571.24	26.91	259.71	194.12	114.98	19 16 6	4971.2	30.04	251.75
66.66	12 5 41	1350.85	26.90	1.96	194.12	114.99	12 28 12	750.8	30.03	354.00
113.34	17 43 14	5571.24	26.91	259.71	194.12	114.98	19 16 6	4971.2	30.04	251.75

DIFFERENTIAL CORRECTIONS

TDE .1774 TRA 1.7977 TC3-2.2841 BAU .5224
RDE -.2835 RRA-1.7092 RC3 1.4597 FAU .07220
FDE 1.3095 FRA 4.4492 FC3-4.3361 BSP 15873
BDE .3345 BRA 2.4806 BC3 2.7106 FSP -2668

MID-COURSE EXECUTION ACCURACY

SGT 3787.4 SGR 3405.1 SG3 790.7
RRT -.9884 RRF -.9949 RTF .9844
SGB 5093.0 R23 .0771 R13 -.9919
SG1 5078.4 SG2 385.3 THA 138.08

ORBIT DETERMINATION ACCURACY

ST 1043.2 SR 1049.1 SS 1243.3
CRT -.9870 CRS .9689 CST -.9169
LSA 1903.5 MSA 333.4 SSA 10.0
EL1 1474.7 EL2 119.2 ALF 134.83

LAUNCH DATE SEP 26 1965 FLIGHT TIME 184.00 ARRIVAL DATE MAR 29 1966

HELIOCENTRIC CONIC DISTANCE 502.772

RL 149.98 LAL -.00 LOL 2.70 VL 27.316 GAL 4.33 AZL 92.55 HCA 222.97 SMA 129.66 ECC .17360 INC 2.5467 V1 29.709
RP 108.26 LAP 1.74 LOP 225.65 VP 37.790 GAP 3.14 AZP 88.14 TAL 158.53 TAP 21.50 RCA 107.15 APO 152.17 V2 35.003
RC 92.112 GL -18.73 GP 44.69 ZAL 47.32 ZAP 114.15 ETS 22.08 ZAE 126.55 ETE 140.52 ZAC 33.04 ETC 238.22 CLP-125.14

PLANETOCENTRIC CONIC

C3 14.213 VHL 3.770 DLA -33.00 RAL 327.62 RAD 6567.6 VEL 11.645 PTH 2.04 VHP 4.472 DPA 20.26 RAP 280.38 ECC 1.2339

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
72.30	12 36 25	1246.51	24.82	352.77	192.19	112.48	12 57 11	646.5	27.65	344.84
107.70	17 7 18	5669.33	24.83	266.39	192.20	112.47	18 41 47	5069.3	27.66	258.46
72.30	12 36 25	1246.51	24.82	352.77	192.19	112.48	12 57 11	646.5	27.65	344.84
107.70	17 7 18	5669.33	24.83	266.39	192.20	112.47	18 41 47	5069.3	27.66	258.46
110.00	16 13 34	5834.61	19.40	276.36	189.39	118.72	17 50 49	5234.6	23.07	269.15
110.00	18 29 19	5417.27	30.51	249.13	194.45	106.22	19 59 36	4817.3	32.43	240.44

DIFFERENTIAL CORRECTIONS

TDE .2791 TRA 2.0149 TC3-2.5247 BAU .5440
RDE -.2716 RRA-1.6043 RC3 1.3496 FAU .07308
FDE 1.4440 FRA 4.6348 FC3-4.4511 BSP 16142
BDE .3894 BRA 2.5756 BC3 2.8628 FSP -2737

MID-COURSE EXECUTION ACCURACY

SGT 4139.5 SGR 3107.8 SG3 804.1
RRT -.9893 RRF -.9936 RTF .9860
SGB 5176.2 R23 .0726 R13 -.9912
SG1 5163.5 SG2 362.8 THA 143.18

ORBIT DETERMINATION ACCURACY

ST 1176.0 SR 965.4 SS 1291.7
CRT -.9972 CRS .9626 CST -.9403
LSA 1970.6 MSA 316.1 SSA 10.8
EL1 1520.5 EL2 55.6 ALF 140.63

LAUNCH DATE SEP 26 1965 FLIGHT TIME 186.00 ARRIVAL DATE MAR 31 1966

HELIOCENTRIC CONIC DISTANCE 508.955

RL 149.98 LAL -.00 LOL 2.70 VL 27.307 GAL 4.48 AZL 92.18 HCA 226.16 SMA 129.59 ECC .17519 INC 2.1771 V1 29.709
RP 108.31 LAP 1.57 LOP 228.84 VP 37.771 GAP 3.54 AZP 88.49 TAL 158.02 TAP 24.18 RCA 106.89 APO 152.30 V2 34.990
RC 94.449 GL -15.93 GP 41.68 ZAL 45.90 ZAP 118.02 ETS 24.20 ZAE 126.51 ETE 144.85 ZAC 30.17 ETC 237.19 CLP-128.97

PLANETOCENTRIC CONIC

C3 14.201 VHL 3.768 DLA -30.16 RAL 327.15 RAD 6567.6 VEL 11.644 PTH 2.04 VHP 4.465 DPA 17.25 RAP 279.96 ECC 1.2337

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
79.14	13 22 6	1096.95	22.79	340.59	190.84	110.31	13 40 23	496.9	25.35	332.70
100.86	16 17 52	5818.51	22.80	276.80	190.84	110.30	17 54 50	5218.5	25.36	268.92
79.14	13 22 6	1096.95	22.79	340.59	190.84	110.31	13 40 23	496.9	25.35	332.70
100.86	16 17 52	5818.51	22.80	276.80	190.84	110.30	17 54 50	5218.5	25.36	268.92
110.00	15 15 16	728.05	13.15	308.80	185.88	121.84	15 27 24	128.0	17.26	302.11
110.00	19 23 52	5235.41	33.20	235.65	193.88	98.67	20 51 7	4635.4	34.04	226.51

DIFFERENTIAL CORRECTIONS

TDE .3874 TRA 2.2272 TC3-2.7133 BAU .5646
RDE -.2581 RRA-1.5038 RC3 1.2172 FAU .07224
FDE 1.5688 FRA 4.7564 FC3-4.4041 BSP 16407
BDE .4655 BRA 2.6873 BC3 2.9738 FSP -2746

MID-COURSE EXECUTION ACCURACY

SGT 4457.5 SGR 2826.5 SG3 804.4
RRT -.9894 RRF -.9919 RTF .9869
SGB 5278.1 R23 .0655 R13 -.9905
SG1 5266.6 SG2 348.2 THA 147.74

ORBIT DETERMINATION ACCURACY

ST 1315.8 SR 885.5 SS 1336.2
CRT -.9999 CRS .9552 CST -.9566
LSA 2051.7 MSA 302.5 SSA 11.6
EL1 1586.0 EL2 12.1 ALF 146.06

LAUNCH DATE SEP 26 1965 FLIGHT TIME 188.00 ARRIVAL DATE APR 2 1966

HELIOCENTRIC CONIC DISTANCE 515.114

RL 149.98 LAL -.00 LOL 2.70 VL 27.296 GAL 4.63 AZL 91.85 HCA 229.35 SMA 129.52 ECC .17700 INC 1.8453 V1 29.709
RP 108.35 LAP 1.40 LOP 232.04 VP 37.751 GAP 3.95 AZP 88.80 TAL 157.48 TAP 26.83 RCA 106.59 APO 152.44 V2 34.977
RC 96.794 GL -13.37 GP 38.86 ZAL 44.62 ZAP 121.75 ETS 25.98 ZAE 126.26 ETE 148.71 ZAC 27.59 ETC 235.44 CLP-132.51

PLANETOCENTRIC CONIC

C3 14.348 VHL 3.788 DLA -27.55 RAL 326.83 RAD 6567.6 VEL 11.650 PTH 2.05 VHP 4.495 DPA 14.42 RAP 279.74 ECC 1.2361

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	13 50 42	1004.90	16.76	331.28	188.32	113.16	14 7 27	404.9	19.75	323.89
90.00	15 46 42	627.07	25.04	306.73	191.27	103.67	15 57 9	27.1	26.67	298.44
100.00	14 30 52	875.10	13.72	320.29	186.85	116.82	14 45 27	275.1	17.21	313.23
100.00	17 49 13	5520.13	28.33	256.34	192.04	99.98	19 21 14	4920.1	29.41	247.71
110.00	14 39 24	848.28	8.74	315.33	183.92	123.18	14 53 33	248.3	13.05	308.88
110.00	19 57 10	5119.72	34.03	226.72	192.82	93.45	21 22 30	4519.7	34.13	217.48

DIFFERENTIAL CORRECTIONS

TDE .4978 TRA 2.4318 TC3-2.8585 BAU .5865
RDE -.2390 RRA-1.4065 RC3 1.0850 FAU .07052
FDE 1.6671 FRA 4.8097 FC3-4.2551 BSP 16787
BDE .5522 BRA 2.8092 BC3 3.0575 FSP -2728

MID-COURSE EXECUTION ACCURACY

SGT 4740.0 SGR 2562.0 SG3 792.2
RRT -.9887 RRF -.9897 RTF .9875
SGB 5388.1 R23 .0555 R13 -.9900
SG1 5377.5 SG2 338.4 THA 151.76

ORBIT DETERMINATION ACCURACY

ST 1456.1 SR 805.9 SS 1369.0
CRT -.9968 CRS .9454 CST -.9680
LSA 2135.1 MSA 291.7 SSA 12.2
EL1 1663.3 EL2 56.2 ALF 151.08

LAUNCH DATE SEP 26 1965 FLIGHT TIME 190.00 ARRIVAL DATE APR 4 1966

HELIOCENTRIC CONIC DISTANCE 521.247

RL 149.98 LAL -.00 LOL 2.70 VL 27.284 GAL 4.81 AZL 91.54 HCA 232.54 SMA 129.43 ECC .17902 INC 1.5440 VI 29.709
RP 108.39 LAP 1.23 LOP 235.23 VP 37.730 GAP 4.35 AZP 89.06 TAL 156.90 TAP 29.44 RCA 106.26 APO 152.60 V2 34.964
RC 99.145 GL -11.04 GP 36.24 ZAL 43.46 ZAP 125.32 ETS 27.48 ZAE 125.83 ETE 152.12 ZAC 25.33 ETC 232.94 CLP-135.79

PLANETOCENTRIC CONIC

C3 14.634 VHL 3.825 DLA -25.13 RAL 326.64 RAD 6567.6 VEL 11.663 PTH 2.05 VHP 4.555 DPA 11.80 RAP 279.72 ECC 1.2408

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 50 17	1209.18	10.92	343.43	186.18	116.29	13 10 26	609.2	14.36	336.45
90.00	16 45 35	5719.58	27.46	270.85	191.42	97.19	18 20 55	5119.6	28.17	262.26
100.00	13 48 22	1021.69	9.07	328.68	185.20	118.61	14 5 23	421.7	12.82	321.90
100.00	18 30 12	5382.31	29.54	246.28	191.67	94.82	19 59 54	4782.3	29.89	237.50
110.00	14 12 44	945.25	5.09	320.47	182.78	123.85	14 28 29	345.2	9.50	314.16
110.00	20 22 19	5031.51	34.18	219.84	191.87	89.38	21 46 11	4431.5	33.72	210.63

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TOE .6123 TRA 2.6333 TC3-2.9565 BAU .6078 SGT 4993.5 SGR 2320.1 SG3 771.1 ST 1598.0 SR 730.6 SS 1394.3
ROE -.2177 RRA-1.3166 RC3 .9541 FAU .06780 RRT -.9873 RRF -.9869 RTF .9879 CRT -.9889 CRS .9332 CST -.9761
FOE 1.7458 FRA 4.8133 FC3-4.0113 BSP 17189 SGB 5506.2 R23 .0449 R13 -.9895 LSA 2225.1 MSA 283.5 SSA 12.7
BOE .6499 BRA 2.9441 BC3 3.1067 FSP -2674 SG1 5496.0 SG2 335.0 THA 155.26 EL1 1754.3 EL2 99.1 ALF 155.59

LAUNCH DATE SEP 26 1965 FLIGHT TIME 192.00 ARRIVAL DATE APR 6 1966

HELIOCENTRIC CONIC DISTANCE 527.354

RL 149.98 LAL -.00 LOL 2.70 VL 27.270 GAL 4.99 AZL 91.27 HCA 235.72 SMA 129.34 ECC .18126 INC 1.2675 VI 29.709
RP 108.43 LAP 1.05 LOP 238.42 VP 37.709 GAP 4.76 AZP 89.29 TAL 156.29 TAP 32.01 RCA 105.90 APO 152.78 V2 34.951
RC 101.502 GL -8.91 GP 33.82 ZAL 42.38 ZAP 128.70 ETS 28.77 ZAE 125.29 ETE 155.08 ZAC 23.42 ETC 229.66 CLP-138.82

PLANETOCENTRIC CONIC

C3 15.047 VHL 3.879 DLA -22.89 RAL 326.56 RAD 6567.6 VEL 11.680 PTH 2.05 VHP 4.642 DPA 9.38 RAP 279.89 ECC 1.2476

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 14 26	1339.28	6.90	350.88	185.18	117.53	12 36 45	739.3	10.54	344.09
90.00	17 20 47	5601.91	28.17	262.32	191.22	92.97	18 54 9	5001.9	28.29	253.65
100.00	13 18 31	1132.45	5.40	334.87	184.36	119.44	13 37 23	532.5	9.28	328.23
100.00	18 59 23	5283.97	29.88	238.99	191.29	91.00	20 27 27	4684.0	29.70	230.19
110.00	13 51 32	1028.90	1.91	324.85	182.19	124.14	14 8 41	428.9	6.37	318.61
110.00	20 42 51	4960.29	33.99	214.29	191.17	86.10	22 5 31	4360.3	33.07	205.17

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TOE .7295 TRA 2.8322 TC3-3.0122 BAU .6286 SGT 5219.5 SGR 2101.1 SG3 743.2 ST 1738.3 SR 659.7 SS 1411.1
ROE -.1943 RRA-1.2343 RC3 .8310 FAU .06441 RRT -.9851 RRF -.9833 RTF .9880 CRT -.9761 CRS .9176 CST -.9819
FOE 1.8033 FRA 4.7754 FC3-3.7060 BSP 17617 SGB 5626.5 R23 .0347 R13 -.9891 LSA 2317.6 MSA 277.6 SSA 13.0
BOE .7549 BRA 3.0895 BC3 3.1747 FSP -2595 SG1 5616.4 SG2 336.3 THA 158.29 EL1 1854.4 EL2 134.4 ALF 159.56

LAUNCH DATE SEP 26 1965 FLIGHT TIME 194.00 ARRIVAL DATE APR 8 1966

HELIOCENTRIC CONIC DISTANCE 533.434

RL 149.98 LAL -.00 LOL 2.70 VL 27.256 GAL 5.20 AZL 91.01 HCA 238.90 SMA 129.24 ECC .18373 INC 1.0115 VI 29.709
RP 108.46 LAP .87 LOP 241.60 VP 37.687 GAP 5.17 AZP 89.48 TAL 155.64 TAP 34.55 RCA 105.50 APO 152.99 V2 34.939
RC 103.862 GL -6.97 GP 31.60 ZAL 41.39 ZAP 131.90 ETS 29.90 ZAE 124.67 ETE 157.65 ZAC 21.89 ETC 225.63 CLP-141.63

PLANETOCENTRIC CONIC

C3 15.581 VHL 3.947 DLA -20.83 RAL 326.57 RAD 6567.6 VEL 11.703 PTH 2.06 VHP 4.753 DPA 7.17 RAP 280.26 ECC 1.2564

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 47 50	1443.08	3.60	356.72	184.79	118.11	12 11 53	843.1	7.33	350.03
90.00	17 47 28	5513.79	28.32	255.88	191.11	89.74	19 19 22	4913.8	27.98	247.23
100.00	12 55 18	1225.33	2.27	339.99	184.05	119.81	13 15 43	625.3	6.22	333.43
100.00	19 22 41	5206.77	29.83	233.26	191.07	87.98	20 49 28	4606.8	29.23	224.50
110.00	13 34 8	1103.62	-.95	328.75	182.04	124.17	13 52 32	503.6	3.54	322.54
110.00	21 0 21	4901.25	33.62	209.72	190.74	83.42	22 22 2	4301.2	32.35	200.72

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TOE .8501 TRA 3.0310 TC3-3.0287 BAU .6484 SGT 5422.1 SGR 1905.2 SG3 710.8 ST 1876.7 SR 594.4 SS 1421.0
ROE -.1697 RRA-1.1604 RC3 .7184 FAU .06054 RRT -.9819 RRF -.9789 RTF .9880 CRT -.9581 CRS .8977 CST -.9862
FOE 1.8429 FRA 4.7082 FC3-3.3639 BSP 18050 SGB 5747.1 R23 .0257 R13 -.9888 LSA 2412.4 MSA 273.3 SSA 13.3
BOE .8669 BRA 3.2455 BC3 3.1127 FSP -2497 SG1 5736.9 SG2 341.2 THA 160.89 EL1 1961.9 EL2 162.9 ALF 163.00

LAUNCH DATE SEP 26 1965 FLIGHT TIME 196.00 ARRIVAL DATE APR 10 1966

HELIOCENTRIC CONIC DISTANCE 539.486

RL 149.98 LAL -.00 LOL 2.70 VL 27.240 GAL 5.42 AZL 90.77 HCA 242.09 SMA 129.14 ECC .18643 INC .7722 VI 29.709
RP 108.50 LAP .68 LOP 244.78 VP 37.664 GAP 5.58 AZP 89.64 TAL 154.96 TAP 37.05 RCA 105.06 APO 153.21 V2 34.926
RC 106.225 GL -5.21 GP 29.57 ZAL 40.46 ZAP 134.90 ETS 30.91 ZAE 124.02 ETE 159.86 ZAC 20.74 ETC 220.94 CLP-144.25

PLANETOCENTRIC CONIC

C3 16.233 VHL 4.029 DLA -18.93 RAL 326.66 RAD 6567.7 VEL 11.731 PTH 2.07 VHP 4.884 DPA 5.15 RAP 280.79 ECC 1.2672

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 26 38	1532.09	.73	1.70	184.82	118.31	11 52 10	932.1	4.51	355.05
90.00	18 9 23	5443.39	28.19	250.73	191.16	87.17	19 40 7	4843.4	27.50	242.13
100.00	12 36 24	1306.96	-.49	344.46	184.14	119.89	12 58 11	707.0	3.49	337.94
100.00	19 42 19	5143.75	29.59	228.59	191.06	85.53	21 8 2	4543.7	28.65	219.91
110.00	13 19 32	1171.81	-3.55	332.31	182.23	124.02	13 39 4	571.8	.94	326.10
110.00	21 15 40	4851.66	33.17	205.92	190.57	81.22	22 36 32	4251.7	31.60	197.04

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TOE .9764 TRA 3.2338 TC3-3.0049 BAU .6656 SGT 5605.9 SGR 1732.2 SG3 676.2 ST 2015.0 SR 535.9 SS 1427.3
ROE -.1457 RRA-1.0955 RC3 .6149 FAU .05615 RRT -.9777 RRF -.9735 RTF .9879 CRT -.9346 CRS .8733 CST -.9894
FOE 1.8716 FRA 4.6247 FC3-2.9948 BSP 18416 SGB 5867.4 R23 .0188 R13 -.9884 LSA 2512.3 MSA 270.0 SSA 13.5
BOE .9872 BRA 3.4143 BC3 3.0672 FSP -2377 SG1 5857.1 SG2 348.4 THA 163.13 EL1 2076.9 EL2 185.0 ALF 165.93

LAUNCH DATE SEP 26 1965 FLIGHT TIME 198.00 ARRIVAL DATE APR 12 1966

DISTANCE 545.508

HELIOCENTRIC CONIC

RL 149.98 LAL -.00 LOL 2.70 VL 27.224 GAL 5.66 AZL 90.55 HCA 245.26 SMA 129.02 ECC .18939 INC .5466 VI 29.709
RP 108.54 LAP .50 LOP 247.96 VP 37.641 GAP 6.00 AZP 89.77 TAL 154.26 TAP 39.52 RCA 104.59 APO 153.46 V2 34.914
RC 108.588 GL -3.60 GP 27.72 ZAL 39.59 ZAP 137.71 ETS 31.86 ZAE 123.34 ETE 151.77 ZAC 20.00 ETC 215.77 CLP-146.69

PLANETOCENTRIC CONIC

C3 17.004 VHL 4.124 DLA -17.16 RAL 326.82 RAD 6567.7 VEL 11.764 PTH 2.08 VHP 5.035 DPA 3.32 RAP 281.50 ECC 1.2798

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 9 9	1611.28	-1.82	6.11	185.18	118.26	11 36 0	1011.3	1.97	359.48
90.00	18 28 10	5385.48	27.92	246.52	191.41	85.07	19 57 55	4785.5	26.94	237.99
100.00	12 20 37	1380.66	-2.99	348.51	184.53	119.76	12 43 38	780.7	.99	341.99
100.00	19 59 22	5091.33	29.25	224.73	191.26	83.53	21 24 14	4491.3	28.04	216.13
110.00	13 7 7	1234.96	-5.95	335.63	182.70	123.72	13 27 42	635.0	-1.48	329.39
110.00	21 29 21	4809.79	32.69	202.74	190.66	79.40	22 49 31	4209.8	30.88	193.99

DIFFERENTIAL CORRECTIONS

TDE 1.1028 TRA 3.4362 TC3-2.9587 BAU .6832
RDE -.1201 RRA-1.0370 RC3 .5270 FAU .05192
FDE 1.8814 FRA 4.5223 FC3-2.6434 BSP 18844
BDE 1.1094 BRA 3.5892 BC3 3.0052 FSP -2262

MID-COURSE EXECUTION ACCURACY

SGT 5768.1 SGR 1578.3 SG3 639.8
RRT -.9723 RRF -.9670 RTF .9877
SGB 5980.2 R23 .0126 R13 -.9880
SG1 5969.5 SG2 356.2 THA 165.05

ORBIT DETERMINATION ACCURACY

ST 2144.9 SR 482.4 SS 1424.9
CRT -.9036 CRS .8415 CST -.9917
LSA 2606.1 MSA 267.7 SSA 13.6
EL1 2189.2 EL2 202.5 ALF 168.41

LAUNCH DATE SEP 26 1965 FLIGHT TIME 200.00 ARRIVAL DATE APR 14 1966

DISTANCE 551.498

HELIOCENTRIC CONIC

RL 149.98 LAL -.00 LOL 2.70 VL 27.207 GAL 5.92 AZL 90.33 HCA 248.44 SMA 128.91 ECC .19260 INC .3327 VI 29.709
RP 108.58 LAP .31 LOP 251.14 VP 37.618 GAP 6.43 AZP 89.88 TAL 153.52 TAP 41.96 RCA 104.08 APO 153.73 V2 34.903
RC 110.951 GL -2.13 GP 26.04 ZAL 38.75 ZAP 140.34 ETS 32.76 ZAE 122.68 ETE 163.40 ZAC 19.65 ETC 210.35 CLP-148.97

PLANETOCENTRIC CONIC

C3 17.899 VHL 4.231 DLA -15.53 RAL 327.04 RAD 6567.7 VEL 11.802 PTH 2.09 VHP 5.202 DPA 1.66 RAP 282.36 ECC 1.2946

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 54 24	1683.34	-4.14	10.14	185.81	118.04	11 22 27	1083.3	-.36	3.50
90.00	18 44 40	5337.18	27.59	243.02	191.85	83.35	20 13 37	4737.2	26.38	234.56
100.00	12 7 12	1448.40	-5.27	352.25	185.19	119.47	12 31 21	848.4	-1.31	345.70
100.00	20 14 32	5047.34	28.87	221.51	191.66	81.88	21 38 40	4447.3	27.44	213.00
110.00	12 56 28	1294.08	-8.17	338.76	183.41	123.31	13 18 2	694.1	-3.73	332.48
110.00	21 41 46	4774.43	32.21	200.10	190.97	77.90	23 1 20	4174.4	30.21	191.45

DIFFERENTIAL CORRECTIONS

TDE 1.2322 TRA 3.6426 TC3-2.8876 BAU .6993
RDE -.0947 RRA -.9857 RC3 .4505 FAU .04767
FDE 1.8803 FRA 4.4126 FC3-2.3057 BSP 19253
BDE 1.2358 BRA 3.7736 BC3 2.9225 FSP -2143

MID-COURSE EXECUTION ACCURACY

SGT 5913.6 SGR 1442.7 SG3 603.3
RRT -.9658 RRF -.9593 RTF .9874
SGB 6087.0 R23 .0079 R13 -.9876
SG1 6076.1 SG2 364.3 THA 166.69

ORBIT DETERMINATION ACCURACY

ST 2269.3 SR 435.1 SS 1417.9
CRT -.8642 CRS .8019 CST -.9935
LSA 2697.8 MSA 266.0 SSA 13.7
EL1 2300.5 EL2 216.0 ALF 170.51

LAUNCH DATE SEP 26 1965 FLIGHT TIME 202.00 ARRIVAL DATE APR 16 1966

DISTANCE 557.456

HELIOCENTRIC CONIC

RL 149.98 LAL -.00 LOL 2.70 VL 27.189 GAL 6.20 AZL 90.13 HCA 251.62 SMA 128.79 ECC .19609 INC .1274 VI 29.709
RP 108.61 LAP .12 LOP 254.32 VP 37.595 GAP 6.86 AZP 89.96 TAL 152.76 TAP 44.38 RCA 103.53 APO 154.04 V2 34.892
RC 113.313 GL -.80 GP 24.51 ZAL 37.96 ZAP 142.81 ETS 33.65 ZAE 122.02 ETE 164.80 ZAC 19.67 ETC 204.96 CLP-151.11

PLANETOCENTRIC CONIC

C3 18.923 VHL 4.350 DLA -14.03 RAL 327.31 RAD 6567.8 VEL 11.845 PTH 2.10 VHP 5.386 DPA .17 RAP 283.36 ECC 1.3114

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 41 47	1749.94	-6.26	13.89	186.68	117.67	11 10 56	1149.9	-2.50	7.22
90.00	18 59 27	5296.64	27.23	240.11	192.47	81.93	20 27 43	4696.6	25.84	231.72
100.00	11 55 41	1511.47	-7.37	355.75	186.07	119.05	12 20 53	911.5	-3.44	349.17
100.00	20 28 13	5010.34	28.48	218.83	192.25	80.52	21 51 43	4410.3	26.88	210.40
110.00	12 47 16	1349.90	-10.25	341.75	184.33	122.79	13 9 46	749.9	-5.85	335.42
110.00	21 53 7	4744.68	31.77	197.89	191.49	76.66	23 12 12	4144.7	29.61	189.35

DIFFERENTIAL CORRECTIONS

TDE 1.3656 TRA 3.8546 TC3-2.7949 BAU .7137
RDE -.0698 RRA -.9408 RC3 .3842 FAU .04346
FDE 1.8718 FRA 4.3001 FC3-1.9885 BSP 19632
BDE 1.3674 BRA 3.9677 BC3 2.8212 FSP -2024

MID-COURSE EXECUTION ACCURACY

SGT 6044.2 SGR 1323.4 SG3 567.6
RRT -.9578 RRF -.9502 RTF .9871
SGB 6187.4 R23 .0042 R13 -.9872
SG1 6176.2 SG2 372.1 THA 168.11

ORBIT DETERMINATION ACCURACY

ST 2388.5 SR 394.2 SS 1407.6
CRT -.8153 CRS .7534 CST -.9949
LSA 2787.8 MSA 264.4 SSA 13.7
EL1 2410.2 EL2 226.2 ALF 172.27

LAUNCH DATE SEP 26 1965 FLIGHT TIME 204.00 ARRIVAL DATE APR 18 1966

DISTANCE 563.379

HELIOCENTRIC CONIC

RL 149.98 LAL -.00 LOL 2.70 VL 27.170 GAL 6.51 AZL 89.93 HCA 254.79 SMA 128.66 ECC .19988 INC .0674 VI 29.709
RP 108.64 LAP -.07 LOP 257.49 VP 37.571 GAP 7.30 AZP 90.02 TAL 151.97 TAP 46.76 RCA 102.94 APO 154.38 V2 34.881
RC 115.673 GL .42 GP 23.13 ZAL 37.20 ZAP 145.11 ETS 34.56 ZAE 121.40 ETE 166.00 ZAC 20.03 ETC 199.83 CLP-153.13

PLANETOCENTRIC CONIC

C3 20.086 VHL 4.482 DLA -12.63 RAL 327.63 RAD 6567.8 VEL 11.894 PTH 2.11 VHP 5.586 DPA -1.16 RAP 284.49 ECC 1.3306

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 30 53	1812.21	-8.21	17.42	187.74	117.19	11 1 5	1212.2	-4.50	10.71
90.00	19 12 51	5262.64	26.89	237.68	193.26	80.76	20 40 34	4662.6	25.33	229.36
100.00	11 45 43	1570.76	-9.31	359.08	187.15	118.53	12 11 53	970.8	-5.43	352.44
100.00	20 40 42	4979.31	28.11	216.60	193.02	79.40	22 3 42	4379.3	26.36	208.23
110.00	12 39 17	1402.98	-12.19	344.64	185.43	122.19	13 2 40	803.0	-7.85	338.23
110.00	22 3 37	4719.86	31.36	196.07	192.19	75.65	23 22 17	4119.9	29.08	187.61

DIFFERENTIAL CORRECTIONS

TDE 1.5056 TRA 4.0764 TC3-2.6790 BAU .7247
RDE -.0461 RRA -.9023 RC3 .3255 FAU .03916
FDE 1.8614 FRA 4.1921 FC3-1.6880 BSP 19915
BDE 1.5063 BRA 4.1750 BC3 2.6987 FSP -1896

MID-COURSE EXECUTION ACCURACY

SGT 6163.8 SGR 1219.0 SG3 533.4
RRT -.9485 RRF -.9400 RTF .9866
SGB 6283.2 R23 .0017 R13 -.9867
SG1 6271.7 SG2 379.3 THA 169.34

ORBIT DETERMINATION ACCURACY

ST 2505.4 SR 359.6 SS 1397.1
CRT -.7573 CRS .6964 CST -.9960
LSA 2879.0 MSA 262.8 SSA 13.7
EL1 2520.2 EL2 233.5 ALF 173.74

LAUNCH DATE SEP 26 1965 FLIGHT TIME 206.00 ARRIVAL DATE APR 20 1966

HELIOCENTRIC CONIC DISTANCE 569.264

RL 149.98 LAL -.00 LOL 2.70 VL 27.151 GAL 6.83 AZL 89.74 HCA 257.96 SMA 128.53 ECC .20398 INC .2597 V1 29.709
RP 108.68 LAP -.25 LOP 260.67 VP 37.548 GAP 7.75 AZP 90.05 TAL 151.16 TAP 49.13 RCA 102.31 APO 154.75 V2 34.870
RC 118.029 GL 1.52 GP 21.88 ZAL 36.46 ZAP 147.27 ETS 35.51 ZAE 120.80 ETE 167.04 ZAC 20.69 ETC 195.13 CLP-155.03

PLANETOCENTRIC CONIC

C3 21.399 VHL 4.626 DLA -11.34 RAL 327.98 RAD 6567.9 VEL 11.949 PTH 2.13 VHP 5.801 DPA -2.34 RAP 285.73 ECC 1.3522

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 21 24	1870.93	-10.02	20.79	188.97	116.62	10 52 35	1270.9	-6.37	14.01
90.00	19 25 9	5234.25	26.56	235.67	194.21	79.80	20 52 23	4634.3	24.88	227.40
100.00	11 37 2	1626.93	-11.12	2.27	188.39	117.93	12 4 9	1026.9	-7.30	355.56
100.00	20 52 12	4953.49	27.78	214.75	193.95	78.48	22 14 45	4353.5	25.91	206.45
110.00	12 32 20	1453.72	-14.01	347.44	186.71	121.50	12 56 34	853.7	-9.74	340.94
110.00	22 13 23	4699.46	31.01	194.58	193.07	74.84	23 31 42	4099.5	28.62	186.20

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE 1.6456 TRA 4.3019 TC3-2.5577 BAU .7360 SGT 6267.9 SGR 1126.2 SG3 500.3 ST 2611.0 SR 330.1 SS 1381.2
RDE -.0219 RRA -.8678 RC3 .2772 FAU .03529 RRT -.9378 RRF -.9282 RTF .9862 CRT -.6869 CRS .6276 CST -.9968
FDE 1.8412 FRA 4.0818 FC3-1.4278 BSP 20271 SGB 6368.2 R23 -.0004 R13 -.9863 LSA 2960.6 MSA 261.4 SSA 13.7
BDE 1.6458 BRA 4.3886 BC3 2.5727 FSP -1785 SG1 6356.5 SG2 385.6 THA 170.40 EL1 2620.9 EL2 239.0 ALF 175.00

LAUNCH DATE SEP 26 1965 FLIGHT TIME 208.00 ARRIVAL DATE APR 22 1966

HELIOCENTRIC CONIC DISTANCE 575.108

RL 149.98 LAL -.00 LOL 2.70 VL 27.132 GAL 7.18 AZL 89.55 HCA 261.13 SMA 128.40 ECC .20841 INC .4467 V1 29.709
RP 108.71 LAP -.44 LOP 263.84 VP 37.524 GAP 8.21 AZP 90.07 TAL 150.34 TAP 51.47 RCA 101.64 APO 155.16 V2 34.860
RC 120.382 GL 2.52 GP 20.74 ZAL 35.75 ZAP 149.30 ETS 36.53 ZAE 120.23 ETE 167.94 ZAC 21.59 ETC 190.96 CLP-156.84

PLANETOCENTRIC CONIC

C3 22.877 VHL 4.783 DLA -10.14 RAL 328.36 RAD 6567.9 VEL 12.011 PTH 2.14 VHP 6.031 DPA -3.39 RAP 287.08 ECC 1.3765

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 13 7	1926.71	-11.70	24.02	190.36	115.97	10 45 14	1326.7	-8.12	17.18
90.00	19 36 29	5210.81	26.27	234.01	195.30	79.02	21 3 20	4610.8	24.49	225.80
100.00	11 29 27	1680.48	-12.81	5.35	189.79	117.24	11 57 27	1080.5	-9.06	358.57
100.00	21 2 51	4932.27	27.48	213.25	195.02	77.74	22 25 3	4332.3	25.51	205.00
110.00	12 26 17	1502.49	-15.73	350.18	188.13	120.75	12 51 19	902.5	-11.53	343.58
110.00	22 22 30	4683.03	30.71	193.40	194.10	74.20	23 40 33	4083.0	28.24	185.07

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE 1.7895 TRA 4.5360 TC3-2.4267 BAU .7457 SGT 6360.3 SGR 1044.0 SG3 468.9 ST 2709.7 SR 305.9 SS 1363.5
RDE .0018 RRA -.8376 RC3 .2360 FAU .03163 RRT -.9256 RRF -.9151 RTF .9858 CRT -.6059 CRS .5488 CST -.9975
FDE 1.8176 FRA 3.9755 FC3-1.1969 BSP 20598 SGB 6445.4 R23 -.0021 R13 -.9858 LSA 3037.6 MSA 259.9 SSA 13.6
BDE 1.7895 BRA 4.6127 BC3 2.4781 FSP -1679 SG1 6433.5 SG2 390.8 THA 171.33 EL1 2716.0 EL2 242.8 ALF 176.06

LAUNCH DATE SEP 26 1965 FLIGHT TIME 210.00 ARRIVAL DATE APR 24 1966

HELIOCENTRIC CONIC DISTANCE 580.908

RL 149.98 LAL -.00 LOL 2.70 VL 27.111 GAL 7.55 AZL 89.37 HCA 264.30 SMA 128.26 ECC .21322 INC .6301 V1 29.709
RP 108.74 LAP -.63 LOP 267.00 VP 37.501 GAP 8.69 AZP 90.06 TAL 149.50 TAP 53.80 RCA 100.91 APO 155.61 V2 34.851
RC 122.731 GL 3.42 GP 19.71 ZAL 35.06 ZAP 151.19 ETS 37.64 ZAE 119.70 ETE 168.71 ZAC 22.71 ETC 187.34 CLP-158.56

PLANETOCENTRIC CONIC

C3 24.537 VHL 4.954 DLA -9.03 RAL 328.77 RAD 6568.0 VEL 12.080 PTH 2.16 VHP 6.276 DPA -4.32 RAP 288.52 ECC 1.4038

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 5 52	1980.01	-13.27	27.15	191.89	115.24	10 38 52	1380.0	-9.76	20.23
90.00	19 47 1	5191.78	26.01	232.68	196.53	78.40	21 13 33	4591.8	24.15	224.50
100.00	11 22 48	1731.82	-14.39	8.34	191.34	116.49	11 51 40	1131.8	-10.72	1.48
100.00	21 12 46	4915.21	27.23	212.04	196.23	77.16	22 34 41	4315.2	25.19	203.84
110.00	12 21 0	1549.56	-17.35	352.86	189.69	119.93	12 46 50	949.6	-13.24	346.16
110.00	22 31 3	4670.23	30.47	192.48	195.27	73.70	23 48 53	4070.2	27.94	184.20

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE 1.9387 TRA 4.7810 TC3-2.2867 BAU .7530 SGT 6443.2 SGR 971.0 SG3 439.5 ST 2802.7 SR 286.5 SS 1345.6
RDE .0249 RRA -.8112 RC3 .2004 FAU .02811 RRT -.9119 RRF -.9006 RTF .9854 CRT -.5164 CRS .4622 CST -.9980
FDE 1.7933 FRA 3.8758 FC3 -.9918 BSP 20896 SGB 6515.9 R23 -.0033 R13 -.9854 LSA 3111.4 MSA 258.1 SSA 13.5
BDE 1.9389 BRA 4.8493 BC3 2.2955 FSP -1576 SG1 6503.9 SG2 394.8 THA 172.15 EL1 2806.6 EL2 245.0 ALF 176.95

LAUNCH DATE SEP 26 1965 FLIGHT TIME 212.00 ARRIVAL DATE APR 26 1966

HELIOCENTRIC CONIC DISTANCE 586.661

RL 149.98 LAL -.00 LOL 2.70 VL 27.091 GAL 7.95 AZL 89.19 HCA 267.47 SMA 128.12 ECC .21841 INC .8113 V1 29.709
RP 108.76 LAP -.81 LOP 270.17 VP 37.478 GAP 9.18 AZP 90.04 TAL 148.64 TAP 56.11 RCA 100.14 APO 156.10 V2 34.842
RC 125.075 GL 4.24 GP 18.78 ZAL 34.40 ZAP 152.98 ETS 38.86 ZAE 119.19 ETE 169.38 ZAC 23.99 ETC 184.26 CLP-160.21

PLANETOCENTRIC CONIC

C3 26.401 VHL 5.138 DLA -8.00 RAL 329.20 RAD 6568.1 VEL 12.156 PTH 2.18 VHP 6.538 DPA -5.13 RAP 290.04 ECC 1.4345

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 59 29	2031.19	-14.74	30.19	193.56	114.46	10 33 21	1431.2	-11.32	23.19
90.00	19 56 50	5176.74	25.80	231.63	197.87	77.91	21 23 7	4576.7	23.88	223.48
100.00	11 16 58	1781.24	-15.87	11.27	193.01	115.67	11 46 39	1181.2	-12.29	4.31
100.00	21 22 2	4901.92	27.02	211.11	197.57	76.71	22 43 44	4301.9	24.92	202.94
110.00	12 16 24	1595.16	-18.87	355.52	191.38	119.04	12 42 59	995.2	-14.86	348.70
110.00	22 39 6	4660.77	30.29	191.80	196.57	73.34	23 56 47	4060.8	27.71	183.56

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE 2.0926 TRA 5.0365 TC3-2.1421 BAU .7584 SGT 6515.8 SGR 905.7 SG3 411.8 ST 2888.6 SR 271.4 SS 1326.9
RDE .0476 RRA -.7878 RC3 .1700 FAU .02480 RRT -.8967 RRF -.8847 RTF .9850 CRT -.4201 CRS .3695 CST -.9984
FDE 1.7676 FRA 3.7817 FC3 -.8133 BSP 21174 SGB 6578.4 R23 -.0042 R13 -.9850 LSA 3180.0 MSA 256.0 SSA 13.4
BDE 2.0931 BRA 5.0977 BC3 2.1488 FSP -1479 SG1 6566.4 SG2 397.8 THA 172.87 EL1 2890.9 EL2 246.1 ALF 177.72

LAUNCH DATE SEP 26 1965 FLIGHT TIME 214.00 ARRIVAL DATE APR 28 1966

DISTANCE 592.360

HELIOCENTRIC CONIC

RL 149.98 LAL -.00 LOL 2.70 VL 27.070 GAL 8.39 AZL 89.01 HCA 270.64 SMA 127.98 ECC .22403 INC .9916 V1 29.709
RP 108.79 LAP -.99 LOP 273.34 VP 37.455 GAP 9.69 AZP 89.99 TAL 147.77 TAP 58.41 RCA 99.31 APO 156.65 V2 34.834
RC 127.413 GL 4.98 GP 17.93 ZAL 33.75 ZAP 154.66 ETS 40.21 ZAE 118.72 ETE 169.97 ZAC 25.41 ETC 181.65 CLP-161.79

PLANETOCENTRIC CONIC

C3 28.493 VHL 5.338 DLA -7.05 RAL 329.65 RAD 6568.1 VEL 12.242 PTH 2.20 VHP 6.816 DPA -5.83 RAP 291.63 ECC 1.4683

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 53 53	2080.55	-16.11	33.17	195.33	113.61	10 28 34	1480.6	-12.78	26.07
90.00	20 6 0	5165.33	25.64	230.83	199.33	77.54	21 32 6	4565.3	23.66	222.72
100.00	11 11 51	1829.02	-17.26	14.14	194.79	114.79	11 42 20	1229.0	-13.77	7.08
100.00	21 30 43	4892.09	26.87	210.42	199.01	76.37	22 52 16	4292.1	24.72	202.27
110.00	12 12 23	1639.49	-20.32	358.14	193.19	118.10	12 39 43	1039.5	-16.40	351.21
110.00	22 46 41	4654.39	30.16	191.35	197.99	73.10	24 4 15	4054.4	27.55	183.13

DIFFERENTIAL CORRECTIONS

TDE 2.2558 TRA 5.3087 TC3-1.9884 BAU .7594
RDE .0694 RRA -.7675 RC3 .1429 FAU .02151
FDE 1.7451 FRA 3.6975 FC3 -.6537 BSP 21341
BDE 2.2569 BRA 5.3638 BC3 1.9935 FSP -1381

MID-COURSE EXECUTION ACCURACY

SGT 6583.0 SGR 847.2 SG3 386.3
RRT -.8802 RRF -.8676 RTF .9846
SGB 6637.3 R23 -.0048 R13 -.9846
SG1 6625.2 SG2 399.5 THA 173.51

ORBIT DETERMINATION ACCURACY

ST 2972.2 SR 260.0 SS 1310.1
CRT -.3222 CRS .2756 CST -.9387
LSA 3248.6 MSA 253.5 SSA 13.3
EL1 2973.4 EL2 246.0 ALF 178.37

LAUNCH DATE SEP 26 1965 FLIGHT TIME 216.00 ARRIVAL DATE APR 30 1966

DISTANCE 598.001

HELIOCENTRIC CONIC

RL 149.98 LAL -.00 LOL 2.70 VL 27.048 GAL 8.85 AZL 88.83 HCA 273.80 SMA 127.84 ECC .23013 INC 1.1720 V1 29.709
RP 108.81 LAP -1.17 LOP 276.50 VP 37.432 GAP 10.23 AZP 89.92 TAL 146.90 TAP 60.70 RCA 98.42 APO 157.26 V2 34.826
RC 129.747 GL 5.65 GP 17.15 ZAL 33.11 ZAP 156.24 ETS 41.72 ZAE 118.27 ETE 170.43 ZAC 26.93 ETC 179.47 CLP-163.31

PLANETOCENTRIC CONIC

C3 30.843 VHL 5.554 DLA -6.17 RAL 330.11 RAD 6568.2 VEL 12.338 PTH 2.22 VHP 7.113 DPA -6.42 RAP 293.28 ECC 1.5076

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 48 58	2128.31	-17.39	36.09	197.22	112.71	10 24 26	1528.3	-14.16	28.90
90.00	20 14 36	5157.27	25.52	230.27	200.89	77.29	21 40 34	4557.3	23.51	222.17
100.00	11 7 22	1875.36	-18.56	16.96	196.69	113.86	11 38 38	1275.4	-15.18	9.80
100.00	21 38 53	4885.46	26.76	209.95	200.57	76.15	23 0 18	4285.5	24.59	201.83
110.00	12 8 54	1682.69	-21.68	.76	195.11	117.10	12 36 57	1082.7	-17.87	353.69
110.00	22 53 50	4650.88	30.09	191.10	199.52	72.96	24 11 21	4050.9	27.47	182.89

DIFFERENTIAL CORRECTIONS

TDE 2.4209 TRA 5.5905 TC3-1.8394 BAU .7601
RDE .0915 RRA -.7485 RC3 .1204 FAU .01859
FDE 1.7194 FRA 3.6168 FC3 -.5219 BSP 21580
BDE 2.4227 BRA 5.6404 BC3 1.8433 FSP -1296

MID-COURSE EXECUTION ACCURACY

SGT 6638.2 SGR 793.8 SG3 362.1
RRT -.8622 RRF -.8491 RTF .9843
SGB 6685.5 R23 -.0052 R13 -.9843
SG1 6673.5 SG2 400.0 THA 174.09

ORBIT DETERMINATION ACCURACY

ST 3044.8 SR 251.5 SS 1291.2
CRT -.2219 CRS .1796 CST -.9990
LSA 3307.3 MSA 250.8 SSA 13.2
EL1 3045.3 EL2 245.2 ALF 178.94

LAUNCH DATE SEP 26 1965 FLIGHT TIME 218.00 ARRIVAL DATE MAY 2 1966

DISTANCE 603.576

HELIOCENTRIC CONIC

RL 149.98 LAL -.00 LOL 2.70 VL 27.026 GAL 9.35 AZL 88.65 HCA 276.96 SMA 127.69 ECC .23673 INC 1.3537 V1 29.709
RP 108.84 LAP -1.34 LOP 279.67 VP 37.410 GAP 10.78 AZP 89.84 TAL 146.03 TAP 62.99 RCA 97.46 APO 157.92 V2 34.819
RC 132.074 GL 6.25 GP 16.45 ZAL 32.50 ZAP 157.73 ETS 43.41 ZAE 117.85 ETE 170.94 ZAC 28.54 ETC 177.64 CLP-164.78

PLANETOCENTRIC CONIC

C3 33.487 VHL 5.787 DLA -5.36 RAL 330.58 RAD 6568.3 VEL 12.444 PTH 2.25 VHP 7.429 DPA -6.93 RAP 294.99 ECC 1.5511

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 44 38	2174.67	-18.58	38.97	199.21	111.76	10 20 53	1574.7	-15.46	31.68
90.00	20 22 40	5152.32	25.44	229.93	202.55	77.13	21 48 32	4552.3	23.42	221.84
100.00	11 3 27	1920.42	-19.77	19.76	198.69	112.88	11 35 27	1320.4	-16.51	12.49
100.00	21 46 33	4881.79	26.70	209.70	202.22	76.03	23 7 54	4281.8	24.51	201.58
110.00	12 5 54	1724.91	-22.97	3.36	197.13	116.04	12 34 39	1124.9	-19.28	356.16
110.00	23 0 35	4650.07	30.08	191.04	201.15	72.93	24 18 5	4050.1	27.45	182.83

DIFFERENTIAL CORRECTIONS

TDE 2.5928 TRA 5.8877 TC3-1.6900 BAU .7580
RDE .1136 RRA -.7311 RC3 .1010 FAU .01584
FDE 1.6946 FRA 3.5432 FC3 -.4095 BSP 21799
BDE 2.5953 BRA 5.9329 BC3 1.6930 FSP -1216

MID-COURSE EXECUTION ACCURACY

SGT 6685.6 SGR 744.9 SG3 339.7
RRT -.8427 RRF -.8293 RTF .9841
SGB 6727.0 R23 -.0055 R13 -.9841
SG1 6715.1 SG2 399.3 THA 174.62

ORBIT DETERMINATION ACCURACY

ST 3111.1 SR 245.4 SS 1272.9
CRT -.1239 CRS .0861 CST -.9992
LSA 3361.2 MSA 247.8 SSA 13.0
EL1 3111.3 EL2 243.5 ALF 179.44

LAUNCH DATE SEP 26 1965 FLIGHT TIME 220.00 ARRIVAL DATE MAY 4 1966

DISTANCE 609.076

HELIOCENTRIC CONIC

RL 149.98 LAL -.00 LOL 2.70 VL 27.004 GAL 9.88 AZL 88.46 HCA 280.13 SMA 127.55 ECC .24391 INC 1.5377 V1 29.709
RP 108.86 LAP -1.51 LOP 282.83 VP 37.388 GAP 11.37 AZP 89.73 TAL 145.15 TAP 65.28 RCA 96.44 APO 158.66 V2 34.812
RC 134.395 GL 6.79 GP 15.81 ZAL 31.91 ZAP 159.14 ETS 45.32 ZAE 117.44 ETE 171.35 ZAC 30.21 ETC 176.12 CLP-166.21

PLANETOCENTRIC CONIC

C3 36.467 VHL 6.039 DLA -4.61 RAL 331.05 RAD 6568.4 VEL 12.563 PTH 2.28 VHP 7.766 DPA -7.34 RAP 296.74 ECC 1.6002

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 40 50	2219.77	-19.69	41.81	201.28	110.77	10 17 50	1619.8	-16.69	34.42
90.00	20 30 14	5150.26	25.41	229.78	204.30	77.07	21 56 4	4550.3	23.38	221.70
100.00	11 0 1	1964.35	-20.91	22.52	200.78	111.86	11 32 45	1364.4	-17.76	15.14
100.00	21 53 44	4880.91	26.68	209.64	203.96	76.00	23 15 5	4280.9	24.50	201.52
110.00	12 3 18	1766.24	-24.18	5.96	199.25	114.93	12 32 44	1166.2	-20.61	358.63
110.00	23 6 57	4651.79	30.11	191.16	202.88	73.00	24 24 29	4051.8	27.49	182.95

DIFFERENTIAL CORRECTIONS

TDE 2.7725 TRA 6.2023 TC3-1.5409 BAU .7523
RDE .1355 RRA -.7147 RC3 .0840 FAU .01322
FDE 1.6716 FRA 3.4771 FC3 -.3138 BSP 21984
BDE 2.7758 BRA 6.2434 BC3 1.5432 FSP -1141

MID-COURSE EXECUTION ACCURACY

SGT 6725.9 SGR 699.8 SG3 318.8
RRT -.8216 RRF -.8080 RTF .9839
SGB 6762.2 R23 -.0057 R13 -.9839
SG1 6750.5 SG2 397.4 THA 175.10

ORBIT DETERMINATION ACCURACY

ST 3171.7 SR 241.2 SS 1255.6
CRT -.0307 CRS -.0027 CST -.9994
LSA 3410.9 MSA 244.3 SSA 12.8
EL1 3171.7 EL2 241.1 ALF 179.87

LAUNCH DATE SEP 27 1965 FLIGHT TIME 70.00 ARRIVAL DATE DEC 6 1965

HELIOCENTRIC CONIC DISTANCE 132.021

RL 149.94 LAL .00 LOL 3.68 VL 16.404 GAL 23.08 AZL 92.94 HCA 39.41 SMA 88.41 ECC .75079 INC 2.9395 V1 29.717
RP 108.18 LAP -1.87 LOP 43.06 VP 30.860 GAP -47.33 AZP 92.27 TAL 171.60 TAP 211.02 RCA 22.03 APO 154.78 V2 35.030
RC 77.423 GL -2.74 GP -4.01 ZAL 64.72 ZAP 32.52 ETS 170.29 ZAE 136.10 ETE 180.33 ZAC 20.80 ETC 58.05 CLP 32.30

PLANETOCENTRIC CONIC

C3 262.958 VHL 16.216 DLA -23.04 RAL 301.74 RAD 6571.5 VEL 19.603 PTH 3.12 VHP 26.632 DPA -26.52 RAP 253.32 ECC 5.3276

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 33 35	1955.53	-12.56	25.71	198.28	115.59	11 6 10	1355.5	-9.01	18.82
90.00	15 35 45	944.91	18.33	327.58	211.68	111.97	15 51 30	344.9	21.15	320.04
100.00	11 37 21	1749.67	-14.93	9.39	197.10	116.20	12 6 31	1149.7	-11.29	2.49
100.00	17 14 40	626.00	20.77	305.16	212.73	111.99	17 25 6	26.0	23.57	297.49
110.00	12 9 54	1647.62	-20.58	358.63	194.07	117.92	12 37 22	1047.6	-16.68	351.67
110.00	18 58 36	5588.86	26.65	260.98	215.34	112.25	20 31 45	4988.9	29.42	252.89

DIFFERENTIAL CORRECTIONS

TDE -.5450 TRA-1.9273 TC3 -.1281 BAU .4503
RDE-1.2268 RRA .3856 RC3 .0010 FAU .01139
FDE .1887 FRA .7116 FC3 -.0375 BSP 160
BDE 1.3424 BRA 1.9655 BC3 .1281 FSP -34

MID-COURSE EXECUTION ACCURACY

SGT 870.2 SGR 458.1 SG3 26.5
RRT -.0688 RRF .0795 RTF -.6170
SGB 983.4 R23 -.0210 R13 .6178
SG1 871.0 SG2 456.6 THA 177.14

ORBIT DETERMINATION ACCURACY

ST 294.1 SR 435.7 SS 243.3
CRT .5743 CRS .5482 CST .9965
LSA 513.8 MSA 267.1 SSA 14.5
EL1 477.6 EL2 219.7 ALF 62.53

LAUNCH DATE SEP 27 1965 FLIGHT TIME 72.00 ARRIVAL DATE DEC 8 1965

HELIOCENTRIC CONIC DISTANCE 137.664

RL 149.94 LAL .00 LOL 3.68 VL 17.151 GAL 22.07 AZL 92.52 HCA 42.61 SMA 89.91 ECC .72390 INC 2.5179 V1 29.717
RP 108.14 LAP -1.70 LOP 46.26 VP 31.279 GAP -45.21 AZP 91.85 TAL 170.80 TAP 213.41 RCA 24.82 APO 154.99 V2 35.043
RC 75.249 GL -2.58 GP -4.12 ZAL 63.40 ZAP 31.03 ETS 169.72 ZAE 136.16 ETE 180.78 ZAC 20.14 ETC 62.33 CLP 30.78

PLANETOCENTRIC CONIC

C3 239.999 VHL 15.492 DLA -22.61 RAL 303.11 RAD 6571.4 VEL 19.008 PTH 3.08 VHP 25.628 DPA -26.91 RAP 255.15 ECC 4.9498

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 33 1	1964.60	-12.82	26.24	198.71	115.46	11 5 45	1364.6	-9.29	19.34
90.00	15 47 13	911.25	19.17	325.47	212.31	111.25	16 2 25	311.2	21.89	317.85
100.00	11 37 38	1756.02	-15.12	9.77	197.57	116.10	12 6 54	1156.0	-11.49	2.86
100.00	17 25 17	5883.11	21.55	281.10	213.29	111.23	19 3 20	5283.1	24.24	273.34
110.00	12 11 34	1649.67	-20.64	358.76	194.62	117.87	12 39 3	1049.7	-16.75	351.79
110.00	19 7 51	5562.22	27.32	259.20	215.76	111.39	20 40 33	4962.2	29.97	251.01

DIFFERENTIAL CORRECTIONS

TDE -.4730 TRA-1.8536 TC3 -.1224 BAU .3927
RDE-1.1816 RRA .3909 RC3 .0001 FAU .01194
FDE .1940 FRA .7286 FC3 -.0431 BSP 2376
BDE 1.2728 BRA 1.8943 BC3 .1224 FSP -61

MID-COURSE EXECUTION ACCURACY

SGT 852.0 SGR 464.2 SG3 28.4
RRT -.1010 RRF .0937 RTF -.6379
SGB 970.2 R23 -.0027 R13 .6386
SG1 853.8 SG2 460.9 THA 175.55

ORBIT DETERMINATION ACCURACY

ST 283.5 SR 439.5 SS 250.8
CRT .5295 CRS .5472 CST .9969
LSA 510.9 MSA 274.4 SSA 14.2
EL1 472.8 EL2 223.5 ALF 65.27

LAUNCH DATE SEP 27 1965 FLIGHT TIME 74.00 ARRIVAL DATE DEC 10 1965

HELIOCENTRIC CONIC DISTANCE 143.426

RL 149.94 LAL .00 LOL 3.68 VL 17.852 GAL 21.12 AZL 92.14 HCA 45.81 SMA 91.43 ECC .69727 INC 2.1443 V1 29.717
RP 108.10 LAP -1.54 LOP 49.47 VP 31.683 GAP -43.19 AZP 91.50 TAL 170.01 TAP 215.81 RCA 27.68 APO 155.18 V2 35.056
RC 73.094 GL -2.41 GP -4.23 ZAL 62.12 ZAP 29.56 ETS 169.10 ZAE 136.30 ETE 181.28 ZAC 19.62 ETC 66.96 CLP 29.28

PLANETOCENTRIC CONIC

C3 219.205 VHL 14.806 DLA -22.16 RAL 304.41 RAD 6571.3 VEL 18.453 PTH 3.04 VHP 24.661 DPA -27.29 RAP 257.02 ECC 4.6076

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 32 11	1973.29	-13.08	26.75	199.05	115.34	11 5 4	1373.3	-9.56	19.84
90.00	15 58 28	876.73	20.01	323.28	212.80	110.47	16 13 5	276.7	22.62	315.58
100.00	11 37 37	1762.10	-15.30	10.13	197.95	116.00	12 6 59	1162.1	-11.68	3.21
100.00	17 35 43	5851.19	22.32	279.04	213.72	110.42	19 13 15	5251.2	24.90	271.19
110.00	12 12 53	1651.54	-20.70	358.87	195.07	117.83	12 40 25	1051.5	-16.82	351.90
110.00	19 16 57	5534.51	27.99	257.33	216.06	110.47	20 49 11	4934.5	30.52	249.04

DIFFERENTIAL CORRECTIONS

TDE -.4922 TRA-1.8729 TC3 -.1310 BAU .3839
RDE-1.1352 RRA .3965 RC3 -.0008 FAU .01200
FDE .2109 FRA .7570 FC3 -.0474 BSP 2423
BDE 1.2374 BRA 1.9144 BC3 .1310 FSP -66

MID-COURSE EXECUTION ACCURACY

SGT 894.0 SGR 469.5 SG3 30.7
RRT -.1073 RRF .1011 RTF -.6565
SGB 1009.8 R23 -.0044 R13 .6572
SG1 895.9 SG2 465.8 THA 175.58

ORBIT DETERMINATION ACCURACY

ST 302.6 SR 442.1 SS 266.8
CRT .5384 CRS .5624 CST .9970
LSA 527.5 MSA 282.4 SSA 14.4
EL1 482.0 EL2 233.9 ALF 62.91

LAUNCH DATE SEP 27 1965 FLIGHT TIME 76.00 ARRIVAL DATE DEC 12 1965

HELIOCENTRIC CONIC DISTANCE 149.291

RL 149.94 LAL .00 LOL 3.68 VL 18.509 GAL 20.21 AZL 91.81 HCA 49.01 SMA 92.96 ECC .67098 INC 1.8090 V1 29.717
RP 108.06 LAP -1.37 LOP 52.68 VP 32.072 GAP -41.28 AZP 91.19 TAL 169.22 TAP 218.23 RCA 30.59 APO 155.33 V2 35.069
RC 70.962 GL -2.22 GP -4.36 ZAL 60.89 ZAP 28.12 ETS 168.39 ZAE 136.52 ETE 181.83 ZAC 19.23 ETC 71.88 CLP 27.80

PLANETOCENTRIC CONIC

C3 200.295 VHL 14.153 DLA -21.69 RAL 305.65 RAD 6571.1 VEL 17.934 PTH 3.00 VHP 23.728 DPA -27.66 RAP 258.93 ECC 4.2964

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 31 5	1981.46	-13.32	27.23	199.29	115.22	11 4 7	1381.5	-9.81	20.31
90.00	16 9 28	841.40	20.83	321.02	213.14	109.62	16 23 29	241.4	23.32	313.23
100.00	11 37 17	1767.80	-15.47	10.47	198.23	115.90	12 6 45	1167.8	-11.86	3.53
100.00	17 45 57	5818.33	23.08	276.90	214.00	109.54	19 22 55	5218.3	25.54	268.96
110.00	12 13 53	1653.12	-20.75	358.96	195.42	117.79	12 41 26	1053.1	-16.87	351.99
110.00	19 25 51	5505.78	28.66	255.36	216.20	109.48	20 57 37	4905.8	31.04	246.97

DIFFERENTIAL CORRECTIONS

TDE -.5071 TRA-1.8891 TC3 -.1392 BAU .3727
RDE-1.0890 RRA .4009 RC3 -.0019 FAU .01210
FDE .2278 FRA .7856 FC3 -.0523 BSP 2563
BDE 1.2013 BRA 1.9311 BC3 .1392 FSP -72

MID-COURSE EXECUTION ACCURACY

SGT 935.3 SGR 474.2 SG3 33.2
RRT -.1153 RRF .1094 RTF -.6746
SGB 1048.6 R23 -.0054 R13 .6753
SG1 937.4 SG2 470.0 THA 175.53

ORBIT DETERMINATION ACCURACY

ST 321.3 SR 444.0 SS 283.1
CRT .5438 CRS .5753 CST .9969
LSA 544.4 MSA 289.7 SSA 14.6
EL1 490.8 EL2 244.0 ALF 60.59

LAUNCH DATE SEP 27 1965 FLIGHT TIME 78.00 ARRIVAL DATE DEC 14 1965

DISTANCE 155,253

HELIOCENTRIC CONIC

RL	149.94	LAL	.00	LOL	3.68	VL	19.125	GAL	19.34	AZL	91.50	HCA	52.22	SMA	94.49	ECC	.64514	INC	1.5046	VI	29.717
RP	108.02	LAP	-1.19	LOP	55.89	VP	32,446	GAP	-39.46	AZP	90.92	TAL	168.46	TAP	220.67	RCA	33.53	APO	155.45	V2	35.082
RC	68.856	GL	-2.01	GP	-4.50	ZAL	59.71	ZAP	26.70	ETS	167.60	ZAE	136.83	ETE	182.43	ZAC	19.00	ETC	77.04	CLP	26.34

PLANETOCENTRIC CONIC

C3 183.084 VHL 13.531 DLA -21.21 RAL 306.83 RAD 6571.0 VEL 17.447 PTH 2.96 VHP 22.826 DPA -28.03 RAP 260.87 ECC 4.0131

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 29 43	1989.14	-13.54	27.69	199.44	115.11	11 2 52	1389.1	-10.04	20.75
90.00	16 20 12	805.23	21.64	318.67	213.34	108.72	16 33 37	205.2	24.00	310.80
100.00	11 36 39	1773.11	-15.63	10.78	198.41	115.81	12 6 13	1173.1	-12.03	3.84
100.00	17 55 57	5784.53	23.84	274.67	214.14	108.59	19 32 21	5184.5	26.15	266.64
110.00	12 14 32	1654.40	-20.79	359.04	195.67	117.76	12 42 6	1054.4	-16.91	352.06
110.00	19 34 34	5476.01	29.32	253.29	216.19	108.41	21 5 50	4876.0	31.55	244.79

DIFFERENTIAL CORRECTIONS

TDE	-.5219	TRA	-1.9063	TC3	-.1476	BAU	.3613												
RDE	-1.0430	RRA	.4043	RC3	-.0032	FAU	.01221												
FDE	.2452	FRA	.8150	FC3	-.0577	BSP	2691												
BDE	1.1662	BRA	1.9487	BC3	.1476	FSP	-79												

MID-COURSE EXECUTION ACCURACY

SGT	978.8	SGR	478.4	SG3	35.9						
RRT	-.1236	RRF	.1183	RTF	-.6920						
SGB	1089.4	R23	-.0067	R13	.6927						
SG1	981.1	SG2	473.6	THA	175.49						

ORBIT DETERMINATION ACCURACY

ST	341.2	SR	445.1	SS	300.0						
CRT	.5484	CRS	.5870	CST	.9967						
LSA	562.6	MSA	296.3	SSA	14.8						
EL1	500.0	EL2	254.0	ALF	58.05						

LAUNCH DATE SEP 27 1965 FLIGHT TIME 80.00 ARRIVAL DATE DEC 16 1965

DISTANCE 161,306

HELIOCENTRIC CONIC

RL	149.94	LAL	.00	LOL	3.68	VL	19.703	GAL	18.50	AZL	91.23	HCA	55.42	SMA	96.03	ECC	.61982	INC	1.2254	VI	29.717
RP	107.98	LAP	-1.01	LOP	59.10	VP	32,803	GAP	-37.73	AZP	90.70	TAL	167.70	TAP	223.13	RCA	36.51	APO	155.55	V2	35.095
RC	66.778	GL	-1.77	GP	-4.65	ZAL	58.58	ZAP	25.30	ETS	166.71	ZAE	137.23	ETE	183.11	ZAC	18.93	ETC	82.35	CLP	24.90

PLANETOCENTRIC CONIC

C3 167.403 VHL 12.938 DLA -20.71 RAL 307.93 RAD 6570.8 VEL 16.992 PTH 2.92 VHP 21.954 DPA -28.38 RAP 262.84 ECC 3.7550

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 28 5	1996.34	-13.75	28.11	199.48	115.00	11 1 21	1396.3	-10.26	21.17
90.00	16 30 41	768.20	22.43	316.24	213.38	107.75	16 43 29	168.2	24.65	308.28
100.00	11 35 43	1778.05	-15.78	11.07	198.49	115.72	12 5 21	1178.1	-12.19	4.12
100.00	18 5 44	5749.76	24.57	272.35	214.13	107.58	19 41 33	5149.8	26.74	264.22
110.00	12 14 51	1655.38	-20.82	359.10	195.81	117.74	12 42 27	1055.4	-16.95	352.12
110.00	19 43 5	5445.19	29.96	251.12	216.03	107.28	21 13 50	4845.2	32.03	242.52

DIFFERENTIAL CORRECTIONS

TDE	-.5332	TRA	-1.9210	TC3	-.1555	BAU	.3481												
RDE	-.9972	RRA	.4066	RC3	-.0049	FAU	.01235												
FDE	.2629	FRA	.8450	FC3	-.0639	BSP	2887												
BDE	1.1308	BRA	1.9636	BC3	.1556	FSP	-87												

MID-COURSE EXECUTION ACCURACY

SGT	1022.1	SGR	481.9	SG3	38.7						
RRT	-.1334	RRF	.1281	RTF	-.7089						
SGB	1130.0	R23	-.0074	R13	.7097						
SG1	1024.7	SG2	476.4	THA	175.41						

ORBIT DETERMINATION ACCURACY

ST	361.0	SR	445.4	SS	317.3						
CRT	.5505	CRS	.5971	CST	.9964						
LSA	581.2	MSA	302.3	SSA	15.0						
EL1	509.1	EL2	263.7	ALF	55.51						

LAUNCH DATE SEP 27 1965 FLIGHT TIME 82.00 ARRIVAL DATE DEC 18 1965

DISTANCE 167,444

HELIOCENTRIC CONIC

RL	149.94	LAL	.00	LOL	3.68	VL	20.245	GAL	17.70	AZL	90.97	HCA	58.64	SMA	97.55	ECC	.59511	INC	.9666	VI	29.717
RP	107.94	LAP	-.83	LOP	62.31	VP	33,145	GAP	-36.08	AZP	90.50	TAL	166.97	TAP	225.61	RCA	39.50	APO	155.61	V2	35.108
RC	64.732	GL	-1.51	GP	-4.82	ZAL	57.50	ZAP	23.93	ETS	165.68	ZAE	137.71	ETE	183.86	ZAC	19.05	ETC	87.71	CLP	23.47

PLANETOCENTRIC CONIC

C3 153.109 VHL 12.374 DLA -20.19 RAL 308.98 RAD 6570.7 VEL 16.566 PTH 2.88 VHP 21.110 DPA -28.73 RAP 264.84 ECC 3.5198

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 26 9	2003.10	-13.94	28.52	199.43	114.90	10 59 32	1403.1	-10.47	21.56
90.00	16 40 56	730.27	23.20	313.73	213.27	106.71	16 53 6	130.3	25.27	305.67
100.00	11 34 28	1782.64	-15.91	11.35	198.47	115.64	12 4 11	1182.6	-12.33	4.39
100.00	18 15 18	5714.00	25.29	269.93	213.96	106.50	19 50 32	5114.0	27.30	261.71
110.00	12 14 51	1656.09	-20.85	359.14	195.86	117.72	12 42 27	1056.1	-16.97	352.16
110.00	19 51 24	5413.31	30.59	248.85	215.71	106.06	21 21 38	4813.3	32.48	240.14

DIFFERENTIAL CORRECTIONS

TDE	-.5468	TRA	-1.9387	TC3	-.1641	BAU	.3363												
RDE	-.9517	RRA	.4081	RC3	-.0068	FAU	.01250												
FDE	.2816	FRA	.8764	FC3	-.0707	BSP	3014												
BDE	1.0976	BRA	1.9812	BC3	.1643	FSP	-95												

MID-COURSE EXECUTION ACCURACY

SGT	1069.6	SGR	484.8	SG3	41.8						
RRT	-.1430	RRF	.1386	RTF	-.7249						
SGB	1174.3	R23	-.0090	R13	.7257						
SG1	1072.4	SG2	478.5	THA	175.37						

ORBIT DETERMINATION ACCURACY

ST	382.9	SR	444.8	SS	335.6						
CRT	.5534	CRS	.6064	CST	.9961						
LSA	601.9	MSA	307.4	SSA	15.2						
EL1	519.5	EL2	273.0	ALF	52.61						

LAUNCH DATE SEP 27 1965 FLIGHT TIME 84.00 ARRIVAL DATE DEC 20 1965

DISTANCE 173,661

HELIOCENTRIC CONIC

RL	149.94	LAL	.00	LOL	3.68	VL	20.753	GAL	16.94	AZL	90.73	HCA	61.85	SMA	99.07	ECC	.57105	INC	.7250	VI	29.717
RP	107.90	LAP	-.64	LOP	65.53	VP	33,471	GAP	-34.49	AZP	90.34	TAL	166.26	TAP	228.11	RCA	42.50	APO	155.65	V2	35.120
RC	62.721	GL	-1.22	GP	-5.00	ZAL	56.47	ZAP	22.58	ETS	164.51	ZAE	138.29	ETE	184.70	ZAC	19.35	ETC	93.00	CLP	22.05

PLANETOCENTRIC CONIC

C3 140.071 VHL 11.835 DLA -19.65 RAL 309.95 RAD 6570.5 VEL 16.168 PTH 2.84 VHP 20.294 DPA -29.06 RAP 266.87 ECC 3.3052

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 23 56	2009.48	-14.12	28.90	199.28	114.80	10 57 26	1409.5	-10.66	21.93
90.00	16 50 56	691.41	23.93	311.12	213.01	105.61	17 2 28	91.4	25.84	302.97
100.00	11 32 54	1786.93	-16.04	11.60	198.35	115.57	12 2 41	1186.9	-12.47	4.63
100.00	18 24 40	5677.24	25.97	267.42	213.64	105.34	19 59 17	5077.2	27.83	259.11
110.00	12 14 30	1656.57	-20.86	359.17	195.80	117.71	12 42 6	1056.6	-16.99	352.19
110.00	19 59 33	5380.37	31.18	246.46	215.23	104.77	21 29 13	4780.4	32.89	237.66

DIFFERENTIAL CORRECTIONS

TDE	-.5569	TRA	-1.9537	TC3	-.1720	BAU	.3226												
RDE	-.9066	RRA	.4087	RC3	-.0091	FAU	.01269												
FDE	.3006	FRA	.9084	FC3	-.0784	BSP	3210												
BDE	1.0640	BRA	1.9960	BC3	.1723	FSP	-105												

MID-COURSE EXECUTION ACCURACY

SGT	1116.7	SGR	487.1	SG3	45.2						
RRT	-.1542	RRF	.1501	RTF	-.7405						
SGB	1218.3	R23	-.0102	R13	.7413						
SG1	1119.8	SG2	479.9	THA	175.28						

ORBIT DETERMINATION ACCURACY

ST	404.5	SR	443.4	SS	354.3						
CRT	.5539	CRS	.6142	CST	.9956						
LSA	623.2	MSA	311.7	SSA	15.3						
EL1	529.9	EL2	281.8	ALF	49.71						

LAUNCH DATE SEP 27 1965 FLIGHT TIME 86.00 ARRIVAL DATE DEC 22 1965

HELIOCENTRIC CONIC DISTANCE 179.952

RL	149.94	LAL	.00	LOL	3.68	VL	21.230	GAL	16.20	AZL	90.50	HCA	65.07	SMA	100.57	ECC	.54770	INC	.4969	VI	29.717
RP	107.87	LAP	-.45	LOP	68.75	VP	33.781	GAP	-32.98	AZP	90.21	TAL	165.58	TAP	230.65	RCA	45.49	APO	155.66	V2	35.132
RC	60.751	GL	-.90	GP	-5.20	ZAL	55.49	ZAP	21.26	ETS	163.16	ZAE	138.96	ETE	185.64	ZAC	19.82	ETC	98.13	CLP	20.64

PLANETOCENTRIC CONIC

C3	128.176	VHL	11.321	DLA	-19.08	RAL	310.87	RAD	6570.4	VEL	15.796	PTH	2.80	VHP	19.504	DPA	-29.39	RAP	268.92	ECC	3.1034

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 21 24	2015.55	-14.30	29.26	199.03	114.71	10 55 0	1415.6	-10.84	22.28
90.00	17 0 44	651.59	24.63	308.41	212.60	104.42	17 11 36	51.6	26.38	300.18
100.00	11 31 0	1790.97	-16.16	11.85	198.13	115.50	12 0 51	1191.0	-12.59	4.87
100.00	18 33 50	5639.45	26.63	264.80	213.16	104.11	20 7 49	5039.4	28.30	256.40
110.00	12 13 48	1656.85	-20.87	359.19	195.64	117.71	12 41 25	1056.8	-17.00	352.20
110.00	20 7 31	5346.33	31.75	243.97	214.59	103.40	21 36 37	4746.3	33.26	235.07

DIFFERENTIAL CORRECTIONS

TOE	-.5660	TRA-1	.9681	TC3	-.1797	BAU	.3085												
RDE	-.8619	RRA	.4087	RC3	-.0119	FAU	.01290												
FDE	.3202	FRA	.9415	FC3	-.0871	BSP	3416												
BDE	1.0311	BRA	2.0101	BC3	.1801	FSP	-115												

MID-COURSE EXECUTION ACCURACY

SGT	1165.5	SGR	488.8	SG3	48.8						
RRT	-.1664	RRF	.1627	RTF	-.7554						
SGB	1263.8	R23	-.0114	R13	.7562						
SG1	1168.9	SG2	480.5	THA	175.13						

ORBIT DETERMINATION ACCURACY

ST	426.8	SR	441.1	SS	373.7						
CRT	.5534	CRS	.6211	CST	.9350						
LSA	645.6	MSA	315.2	SSA	15.5						
ELI	541.1	EL2	289.8	ALF	46.70						

LAUNCH DATE SEP 27 1965 FLIGHT TIME 88.00 ARRIVAL DATE DEC 24 1965

HELIOCENTRIC CONIC DISTANCE 186.311

RL	149.94	LAL	.00	LOL	3.68	VL	21.677	GAL	15.49	AZL	90.28	HCA	68.29	SMA	102.06	ECC	.52508	INC	.2806	VI	29.717
RP	107.83	LAP	-.26	LOP	71.97	VP	34.076	GAP	-31.52	AZP	90.10	TAL	164.92	TAP	233.21	RCA	48.47	APO	155.65	V2	35.144
RC	58.824	GL	-.54	GP	-5.41	ZAL	54.56	ZAP	19.97	ETS	161.58	ZAE	139.73	ETE	186.70	ZAC	20.47	ETC	103.00	CLP	19.25

PLANETOCENTRIC CONIC

C3	117.322	VHL	10.832	DLA	-18.50	RAL	311.71	RAD	6570.2	VEL	15.449	PTH	2.76	VHP	18.739	DPA	-29.71	RAP	271.00	ECC	2.9308

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 18 33	2021.40	-14.46	29.61	198.69	114.61	10 52 15	1421.4	-11.02	22.62
90.00	17 10 20	610.78	25.30	305.61	212.02	103.17	17 20 31	10.8	26.86	297.29
100.00	11 28 46	1794.85	-16.27	12.08	197.82	115.43	11 58 40	1194.8	-12.71	5.09
100.00	18 42 49	5600.60	27.24	262.08	212.53	102.81	20 16 9	5000.6	28.73	253.59
110.00	12 12 45	1657.01	-20.88	359.20	195.39	117.70	12 40 22	1057.0	-17.00	352.21
110.00	20 15 19	5311.20	32.27	241.37	213.80	101.94	21 43 50	4711.2	33.58	232.38

DIFFERENTIAL CORRECTIONS

TOE	-.5771	TRA-1	.9849	TC3	-.1879	BAU	.2957												
RDE	-.8176	RRA	.4081	RC3	-.0151	FAU	.01312												
FDE	.3411	FRA	.9764	FC3	-.0968	BSP	3558												
BDE	1.0008	BRA	2.0264	BC3	.1885	FSP	-125												

MID-COURSE EXECUTION ACCURACY

SGT	1218.5	SGR	489.8	SG3	52.8						
RRT	-.1788	RRF	.1764	RTF	-.7694						
SGB	1313.3	R23	-.0137	R13	.7702						
SG1	1222.2	SG2	480.5	THA	175.13						

ORBIT DETERMINATION ACCURACY

ST	451.3	SR	437.9	SS	394.2						
CRT	.5534	CRS	.6272	CST	.9944						
LSA	670.5	MSA	317.7	SSA	15.6						
ELI	554.3	EL2	296.9	ALF	43.44						

LAUNCH DATE SEP 27 1965 FLIGHT TIME 90.00 ARRIVAL DATE DEC 26 1965

HELIOCENTRIC CONIC DISTANCE 192.733

RL	149.94	LAL	.00	LOL	3.68	VL	22.096	GAL	14.80	AZL	90.07	HCA	71.51	SMA	103.52	ECC	.50322	INC	.0723	VI	29.717
RP	107.80	LAP	-.07	LOP	75.19	VP	34.355	GAP	-30.13	AZP	90.02	TAL	164.29	TAP	235.80	RCA	51.43	APO	155.61	V2	35.155
RC	56.947	GL	-.15	GP	-5.65	ZAL	53.68	ZAP	18.70	ETS	159.74	ZAE	140.61	ETE	187.90	ZAC	21.27	ETC	107.57	CLP	17.86

PLANETOCENTRIC CONIC

C3	107.417	VHL	10.364	DLA	-17.89	RAL	312.49	RAD	6570.1	VEL	15.125	PTH	2.72	VHP	17.999	DPA	-30.03	RAP	273.10	ECC	2.7678

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 15 21	2027.12	-14.62	29.95	198.26	114.52	10 49 8	1427.1	-11.19	22.95
90.00	17 19 44	5856.97	25.91	280.60	211.30	101.83	18 57 21	5257.0	27.29	272.20
100.00	11 26 10	1798.65	-16.38	12.31	197.41	115.36	11 56 8	1198.7	-12.83	5.31
100.00	18 51 37	5560.67	27.81	259.25	211.74	101.42	20 24 18	4960.7	29.11	250.68
110.00	12 11 20	1657.13	-20.88	359.20	195.04	117.70	12 38 57	1057.1	-17.01	352.22
110.00	20 22 56	5274.96	32.75	238.65	212.84	100.39	21 50 51	4675.0	33.84	229.58

DIFFERENTIAL CORRECTIONS

TOE	-.5850	TRA-1	.9986	TC3	-.1950	BAU	.2814												
RDE	-.7739	RRA	.4070	RC3	-.0188	FAU	.01338												
FDE	.3625	FRA	1.0123	FC3	-.1079	BSP	3763												
BDE	.9701	BRA	2.0396	BC3	.1959	FSP	-137												

MID-COURSE EXECUTION ACCURACY

SGT	1271.2	SGR	490.4	SG3	57.0						
RRT	-.1931	RRF	.1916	RTF	-.7829						
SGB	1362.5	R23	-.0155	R13	.7839						
SG1	1275.3	SG2	479.6	THA	175.04						

ORBIT DETERMINATION ACCURACY

ST	475.5	SR	433.7	SS	415.3						
CRT	.5513	CRS	.6321	CST	.9937						
LSA	696.0	MSA	319.4	SSA	15.8						
ELI	567.7	EL2	303.0	ALF	40.26						

LAUNCH DATE SEP 27 1965 FLIGHT TIME 92.00 ARRIVAL DATE DEC 28 1965

HELIOCENTRIC CONIC DISTANCE 199.213

RL	149.94	LAL	.00	LOL	3.68	VL	22.489	GAL	14.15	AZL	89.87	HCA	74.73	SMA	104.95	ECC	.48215	INC	.1247	VI	29.717
RP	107.76	LAP	.12	LOP	78.42	VP	34.621	GAP	-28.79	AZP	89.97	TAL	163.69	TAP	238.42	RCA	54.35	APO	155.56	V2	35.166
RC	55.125	GL	.28	GP	-5.91	ZAL	52.86	ZAP	17.48	ETS	157.58	ZAE	141.58	ETE	189.26	ZAC	22.23	ETC	111.78	CLP	16.48

PLANETOCENTRIC CONIC

C3	98.380	VHL	9.919	DLA	-17.26	RAL	313.20	RAD	6569.9	VEL	14.823	PTH	2.68	VHP	17.281	DPA	-30.34	RAP	275.22	ECC	2.6191

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 11 48	2032.85	-14.78	30.29	197.73	114.43	10 45 40	1432.8	-11.36	23.28
90.00	17 28 58	5814.04	26.48	277.59	210.42	100.42	19 5 52	5214.0	27.65	269.12
100.00	11 23 11	1802.50	-16.49	12.54	196.91	115.29	11 53 13	1202.5	-12.95	5.54
100.00	19 0 16	5519.63	28.33	256.31	210.79	99.96	20 32 16	4919.6	29.41	247.67
110.00	12 9 31	1657.31	-20.89	359.22	194.60	117.70	12 37 9	1057.3	-17.01	352.23
110.00	20 30 25	5237.58	33.17	235.81	211.72	98.77	21 57 43	4637.6	34.03	226.68

DIFFERENTIAL CORRECTIONS

TOE	-.5921	TRA-2	.0115	TC3	-.2015	BAU	.2668												
RDE	-.7307	RRA	.4056	RC3	-.0232	FAU	.01368												
FDE	.3850	FRA	1.0498	FC3	-.1204	BSP	3976												
BDE	.9405	BRA	2.0520	BC3	.2029	FSP	-150												

MID-COURSE EXECUTION ACCURACY

SGT	1325.6	SGR	490.4	SG3	61.7						
RRT	-.2088	RRF	.2082	RTF	-.7958						
SGB	1413.4	R23	-.0176	R13	.7968						
SG1	1330.2	SG2	477.9	THA	174.93						

ORBIT DETERMINATION ACCURACY

ST	500.4	SR	428.5	SS	437.3						
CRT	.5482	CRS	.6361	CST	.9928						
LSA	722.8	MSA	320.3	SSA	15.9						
ELI	582.4	EL2	307.9	ALF	37.07						

LAUNCH DATE SEP 27 1965 FLIGHT TIME 94.00 ARRIVAL DATE DEC 30 1965

HELIOCENTRIC CONIC DISTANCE 205.745

RL	149.94	LAL	.00	LOL	3.68	VL	22.857	GAL	13.51	AZL	89.68	HCA	77.96	SMA	106.36	ECC	.46188
RP	107.73	LAP	.31	LOP	81.64	VP	34.871	GAP	-27.50	AZP	89.93	TAL	163.12	TAP	241.08	RCA	57.23
RC	53.365	GL	.75	GP	-6.19	ZAL	52.09	ZAP	16.29	ETS	155.02	ZAE	142.65	ETE	190.81	ZAC	23.32

INC	.3188	V1	29.717														
APO	155.48	V2	35.176														
ETC	115.62	CLP	15.10														

PLANETOCENTRIC CONIC

C3	90.138	VHL	9.494	DLA	-16.59	RAL	313.84	RAD	6569.8	VEL	14.542	PTH	2.64	VHP	16.587	DPA	-30.64
RAP	277.35	ECC	2.4834														

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 7 50	2038.72	-14.95	30.64	197.12	114.33	10 41 49	1438.7	-11.54	23.63
90.00	17 38 3	5770.01	26.98	274.46	209.39	98.94	19 14 13	5170.0	27.94	265.93
100.00	11 19 48	1806.52	-16.61	12.78	196.32	115.22	11 49 55	1206.5	-13.08	5.77
100.00	19 8 47	5477.45	28.79	253.25	209.70	98.41	20 40 4	4877.4	29.65	244.56
110.00	12 7 19	1657.68	-20.90	359.24	194.07	117.69	12 34 57	1057.7	-17.03	352.25
110.00	20 37 46	5199.05	33.53	232.86	210.45	97.06	22 4 25	4599.0	34.15	223.67

DIFFERENTIAL CORRECTIONS

TDE	-.5984	TRA	-2.0235	TC3	-.2073	BAU	.2521										
RDE	-.6880	RRA	.4039	RC3	-.0283	FAU	.01401										
FDE	.4085	FRA	1.0890	FC3	-.1346	BSP	4195										
BDE	.9118	BRA	2.0634	BC3	.2092	FSP	-165										

MID-COURSE EXECUTION ACCURACY

SGT	1381.7	SGR	489.9	SG3	66.7						
RRT	-.2261	RRF	.2267	RTF	-.8081						
SGB	1465.9	R23	-.0200	R13	.8091						
SG1	1386.7	SG2	475.5	THA	174.81						

ORBIT DETERMINATION ACCURACY

ST	526.0	SR	422.2	SS	460.3						
CRT	.5440	CRS	.6391	CST	.9919						
LSA	751.0	MSA	320.2	SSA	16.0						
EL1	598.2	EL2	311.5	ALF	33.92						

LAUNCH DATE SEP 27 1965 FLIGHT TIME 96.00 ARRIVAL DATE JAN 1 1966

HELIOCENTRIC CONIC DISTANCE 212.325

RL	149.94	LAL	.00	LOL	3.68	VL	23.202	GAL	12.91	AZL	89.49	HCA	81.19	SMA	107.73	ECC	.44242
RP	107.70	LAP	.50	LOP	84.87	VP	35.108	GAP	-26.26	AZP	89.92	TAL	162.59	TAP	243.77	RCA	60.07
RC	51.675	GL	1.26	GP	-6.50	ZAL	51.37	ZAP	15.16	ETS	151.97	ZAE	143.83	ETE	192.59	ZAC	24.52

INC	.5079	V1	29.717														
APO	155.39	V2	35.186														
ETC	119.09	CLP	13.72														

PLANETOCENTRIC CONIC

C3	82.625	VHL	9.090	DLA	-15.89	RAL	314.42	RAD	6569.6	VEL	14.282	PTH	2.60	VHP	15.915	DPA	-30.95
RAP	279.50	ECC	2.3598														

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 3 28	2044.90	-15.12	31.02	196.42	114.23	10 37 33	1444.9	-11.72	23.99
90.00	17 47 1	5724.83	27.42	271.23	208.21	97.37	19 22 25	5124.8	28.15	262.64
100.00	11 16 0	1810.86	-16.74	13.04	195.65	115.14	11 46 11	1210.9	-13.21	6.02
100.00	19 17 10	5434.10	29.18	250.09	208.46	96.79	20 47 44	4834.1	29.81	241.34
110.00	12 4 41	1658.37	-20.92	359.28	193.45	117.67	12 32 20	1058.4	-17.05	352.29
110.00	20 44 58	5159.36	33.82	229.80	209.03	95.26	22 10 58	4559.4	34.18	220.58

DIFFERENTIAL CORRECTIONS

TDE	-.6039	TRA	-2.0345	TC3	-.2121	BAU	.2373										
RDE	-.6459	RRA	.4021	RC3	-.0341	FAU	.01438										
FDE	.4334	FRA	1.1302	FC3	-.1507	BSP	4420										
BDE	.8843	BRA	2.0738	BC3	.2149	FSP	-181										

MID-COURSE EXECUTION ACCURACY

SGT	1439.3	SGR	489.0	SG3	72.2						
RRT	-.2451	RRF	.2471	RTF	-.8198						
SGB	1520.1	R23	-.0226	R13	.8209						
SG1	1444.8	SG2	472.2	THA	174.67						

ORBIT DETERMINATION ACCURACY

ST	552.3	SR	414.8	SS	484.4						
CRT	.5386	CRS	.6410	CST	.9909						
LSA	780.7	MSA	319.3	SSA	16.2						
EL1	615.4	EL2	313.6	ALF	30.84						

LAUNCH DATE SEP 27 1965 FLIGHT TIME 98.00 ARRIVAL DATE JAN 3 1966

HELIOCENTRIC CONIC DISTANCE 218.948

RL	149.94	LAL	.00	LOL	3.68	VL	23.525	GAL	12.32	AZL	89.31	HCA	84.42	SMA	109.07	ECC	.42376
RP	107.67	LAP	.69	LOP	88.10	VP	35.332	GAP	-25.06	AZP	89.93	TAL	162.09	TAP	246.50	RCA	62.85
RC	50.062	GL	1.83	GP	-6.84	ZAL	50.71	ZAP	14.09	ETS	148.32	ZAE	145.10	ETE	194.64	ZAC	25.83

INC	.6938	V1	29.717														
APO	155.28	V2	35.196														
ETC	122.21	CLP	12.35														

PLANETOCENTRIC CONIC

C3	75.780	VHL	8.705	DLA	-15.16	RAL	314.92	RAD	6569.5	VEL	14.040	PTH	2.56	VHP	15.264	DPA	-31.25
RAP	281.67	ECC	2.2472														

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 58 40	2051.57	-15.31	31.42	195.64	114.12	10 32 51	1451.6	-11.92	24.37
90.00	17 55 51	5678.46	27.78	267.88	206.89	95.73	19 30 30	5078.5	28.28	259.25
100.00	11 11 45	1815.72	-16.88	13.33	194.90	115.04	11 42 1	1215.7	-13.36	6.30
100.00	19 25 27	5389.54	29.49	246.82	207.07	95.10	20 55 16	4789.5	29.89	238.03
110.00	12 1 37	1659.54	-20.96	359.35	192.76	117.64	12 29 16	1059.5	-17.09	352.36
110.00	20 52 5	5118.49	34.03	226.63	207.47	93.40	22 17 23	4518.5	34.13	217.38

DIFFERENTIAL CORRECTIONS

TDE	-.6116	TRA	-2.0472	TC3	-.2173	BAU	.2240										
RDE	-.6043	RRA	.4005	RC3	-.0409	FAU	.01476										
FDE	.4604	FRA	1.1740	FC3	-.1687	BSP	4584										
BDE	.8598	BRA	2.0860	BC3	.2211	FSP	-197										

MID-COURSE EXECUTION ACCURACY

SGT	1501.3	SGR	487.7	SG3	78.2						
RRT	-.2653	RRF	.2697	RTF	-.8306						
SGB	1578.6	R23	-.0265	R13	.8317						
SG1	1507.5	SG2	468.3	THA	174.55						

ORBIT DETERMINATION ACCURACY

ST	581.0	SR	406.1	SS	510.0						
CRT	.5332	CRS	.6419	CST	.9900						
LSA	813.4	MSA	317.3	SSA	16.3						
EL1	635.5	EL2	314.1	ALF	27.77						

LAUNCH DATE SEP 27 1965 FLIGHT TIME 100.00 ARRIVAL DATE JAN 5 1966

HELIOCENTRIC CONIC DISTANCE 225.608

RL	149.94	LAL	.00	LOL	3.68	VL	23.827	GAL	11.76	AZL	89.12	HCA	87.65	SMA	110.36	ECC	.40592
RP	107.64	LAP	.88	LOP	91.33	VP	35.543	GAP	-23.91	AZP	89.96	TAL	161.62	TAP	249.27	RCA	65.57
RC	48.537	GL	2.46	GP	-7.22	ZAL	50.11	ZAP	13.11	ETS	143.97	ZAE	146.45	ETE	197.02	ZAC	27.24

INC	.8777	V1	29.717														
APO	155.16	V2	35.204														
ETC	124.99	CLP	10.97														

PLANETOCENTRIC CONIC

C3	69.549	VHL	8.340	DLA	-14.39	RAL	315.36	RAD	6569.3	VEL	13.817	PTH	2.52	VHP	14.635	DPA	-31.56
RAP	283.84	ECC	2.1446														

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 53 22	2058.93	-15.51	31.86	194.79	113.99	10 27 41	1458.9	-12.14	24.81
90.00	18 4 37	5630.86	28.05	264.43	205.43	94.02	19 38 28	5030.9	28.32	255.77
100.00	11 7 2	1821.27	-17.04	13.67	194.07	114.94	11 37 23	1221.3	-13.53	6.63
100.00	19 33 39	5343.75	29.72	243.43	205.55	93.33	21 2 42	4743.8	29.87	234.63
110.00	11 58 4	1661.38	-21.01	359.46	191.99	117.60	12 25 46	1061.4	-17.15	352.46
110.00	20 59 5	5076.41	34.16	223.35	205.77	91.46	22 23 41	4476.4	33.98	214.11

DIFFERENTIAL CORRECTIONS

TDE	-.6162	TRA	-2.0564	TC3	-.2200	BAU	.2095										
RDE	-.5633	RRA	.3991	RC3	-.0486	FAU	.01521										
FDE	.4886	FRA	1.2199	FC3	-.1893	BSP	4809										
BDE	.8349	BRA	2.0948	BC3	.2253	FSP	-216										

MID-COURSE EXECUTION ACCURACY

SGT	1562.5	SGR	486.3	SG3	84.7						
RRT	-.2886	RRF	.2950	RTF	-.8410						
SGB	1636.4	R23	-.0301	R13	.8423						
SG1	1569.4	SG2	463.5	THA	174.38						

ORBIT DETERMINATION ACCURACY

ST	609.0	SR	396.2	SS	536.7						
CRT	.5252	CRS	.6413	CST	.9889						
LSA	846.5	MSA	314.6	SSA	16.4						
EL1	655.5	EL2	313.2	ALF	24.92						

LAUNCH DATE SEP 27 1965 FLIGHT TIME 102.00 ARRIVAL DATE JAN 7 1966

HELIOCENTRIC CONIC DISTANCE 232.301

RL	149.94	LAL	.00	LOL	3.68	VL	24.110	GAL	11.22	AZL	88.94	HCA	90.88	SMA	111.62	ECC	.38888	INC	1.0609	V1	29.717
RP	107.62	LAP	1.06	LOP	94.57	VP	35.741	GAP	-22.80	AZP	90.02	TAL	161.20	TAP	252.08	RCA	68.21	APO	155.03	V2	35.213
RC	47.108	GL	3.14	GP	-7.63	ZAL	49.57	ZAP	12.23	ETS	138.79	ZAE	147.87	ETE	199.79	ZAC	28.73	ETC	127.47	CLP	9.59

PLANETOCENTRIC CONIC

C3	63.883	VHL	7.993	DLA	-13.57	RAL	315.72	RAD	6569.2	VEL	13.610	PTH	2.49	VHP	14.026	DPA	-31.89	RAP	286.03	ECC	2.0514

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 47 34	2067.22	-15.74	32.36	193.87	113.85	10 22 1	1467.2	-12.39	25.29
90.00	18 13 19	5581.98	28.24	260.86	203.84	92.24	19 46 21	4982.0	28.25	252.20
100.00	11 1 47	1827.74	-17.22	14.06	193.17	114.82	11 32 15	1227.7	-13.73	7.00
100.00	19 41 47	5296.69	29.86	239.94	203.90	91.50	21 10 4	4696.7	29.75	231.14
110.00	11 54 2	1664.08	-21.10	359.62	191.15	117.54	12 21 46	1064.1	-17.24	352.62
110.00	21 6 1	5033.11	34.18	219.97	203.95	89.46	22 29 54	4433.1	33.73	210.75

DIFFERENTIAL CORRECTIONS

TDE	-.6206	TRA	-2.0647	TC3	-.2211	BAU	.1952												
RDE	-.5227	RRA	.3981	RC3	-.0575	FAU	.01570												
FDE	.5189	FRA	1.2684	FC3	-.2128	BSP	5039												
BDE	.8114	BRA	2.1027	BC3	.2285	FSP	-236												

MID-COURSE EXECUTION ACCURACY

SGT	1625.1	SGR	484.8	SG3	91.8						
RRT	-.3145	RRF	.3232	RTF	-.8509						
SGB	1695.9	R23	-.0342	R13	.8523						
SG1	1632.9	SG2	458.0	THA	174.18						

ORBIT DETERMINATION ACCURACY

ST	637.7	SR	384.9	SS	564.8						
CRT	.5154	CRS	.6390	CST	.9877						
LSA	881.4	MSA	311.0	SSA	16.5						
EL1	677.0	EL2	310.7	ALF	22.19						

LAUNCH DATE SEP 27 1965 FLIGHT TIME 104.00 ARRIVAL DATE JAN 9 1966

HELIOCENTRIC CONIC DISTANCE 239.023

RL	149.94	LAL	.00	LOL	3.68	VL	24.374	GAL	10.70	AZL	88.76	HCA	94.12	SMA	112.84	ECC	.37264	INC	1.2445	V1	29.717
RP	107.60	LAP	1.24	LOP	97.80	VP	35.928	GAP	-21.72	AZP	90.09	TAL	160.81	TAP	254.93	RCA	70.79	APO	154.89	V2	35.220
RC	45.785	GL	3.89	GP	-8.09	ZAL	49.09	ZAP	11.50	ETS	132.68	ZAE	149.33	ETE	203.04	ZAC	30.29	ETC	129.65	CLP	8.20

PLANETOCENTRIC CONIC

C3	58.738	VHL	7.664	DLA	-12.70	RAL	316.01	RAD	6569.1	VEL	13.420	PTH	2.45	VHP	13.437	DPA	-32.22	RAP	288.22	ECC	1.9667

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 41 12	2076.68	-16.00	32.93	192.89	113.68	10 15 48	1476.7	-12.66	25.85
90.00	18 22 0	5531.78	28.31	257.19	202.14	90.40	19 54 12	4931.8	28.07	248.54
100.00	10 55 59	1835.37	-17.44	14.52	192.21	114.67	11 26 34	1235.4	-13.97	7.45
100.00	19 49 54	5248.31	29.89	236.34	202.14	89.60	21 17 22	4648.3	29.52	227.56
110.00	11 49 28	1667.88	-21.22	359.86	190.25	117.45	12 17 16	1067.9	-17.37	352.84
110.00	21 12 54	4988.57	34.10	216.49	202.01	87.40	22 36 3	4388.6	33.36	207.33

DIFFERENTIAL CORRECTIONS

TDE	-.6246	TRA	-2.0717	TC3	-.2205	BAU	.1811												
RDE	-.4826	RRA	.3977	RC3	-.0677	FAU	.01624												
FDE	.5516	FRA	1.3200	FC3	-.2394	BSP	5274												
BDE	.7893	BRA	2.1095	BC3	.2307	FSP	-259												

MID-COURSE EXECUTION ACCURACY

SGT	1689.0	SGR	483.5	SG3	99.6						
RRT	-.3433	RRF	.3547	RTF	-.8603						
SGB	1756.9	R23	-.0389	R13	.8618						
SG1	1697.8	SG2	451.8	THA	173.96						

ORBIT DETERMINATION ACCURACY

ST	667.1	SR	372.2	SS	594.6						
CRT	.5032	CRS	.6347	CST	.9864						
LSA	918.0	MSA	306.7	SSA	16.6						
EL1	699.6	EL2	306.7	ALF	19.60						

LAUNCH DATE SEP 27 1965 FLIGHT TIME 106.00 ARRIVAL DATE JAN 11 1966

HELIOCENTRIC CONIC DISTANCE 245.769

RL	149.94	LAL	.00	LOL	3.68	VL	24.621	GAL	10.21	AZL	88.57	HCA	97.35	SMA	114.01	ECC	.35718	INC	1.4296	V1	29.717
RP	107.57	LAP	1.42	LOP	101.04	VP	36.102	GAP	-20.69	AZP	90.18	TAL	160.46	TAP	257.82	RCA	73.29	APO	154.73	V2	35.227
RC	44.580	GL	4.72	GP	-8.60	ZAL	48.68	ZAP	10.95	ETS	125.63	ZAE	150.81	ETE	206.86	ZAC	31.92	ETC	131.58	CLP	6.80

PLANETOCENTRIC CONIC

C3	54.072	VHL	7.353	DLA	-11.78	RAL	316.23	RAD	6569.0	VEL	13.245	PTH	2.42	VHP	12.869	DPA	-32.58	RAP	290.43	ECC	1.8899

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 34 14	2087.59	-16.30	33.60	191.85	113.48	10 9 1	1487.6	-12.98	26.49
90.00	18 30 41	5480.18	28.28	253.42	200.33	88.51	20 2 1	4880.2	27.77	244.79
100.00	10 49 36	1844.44	-17.70	15.07	191.20	114.49	11 20 20	1244.4	-14.24	7.98
100.00	19 58 0	5198.57	29.81	232.65	200.27	87.66	21 24 39	4598.6	29.17	223.90
110.00	11 44 20	1673.03	-21.38	.17	189.30	117.33	12 12 13	1073.0	-17.55	353.13
110.00	21 19 46	4942.74	33.90	212.93	199.97	85.30	22 42 8	4342.7	32.88	203.84

DIFFERENTIAL CORRECTIONS

TDE	-.6285	TRA	-2.0774	TC3	-.2177	BAU	.1675												
RDE	-.4427	RRA	.3982	RC3	-.0792	FAU	.01683												
FDE	.5870	FRA	1.3748	FC3	-.2695	BSP	5511												
BDE	.7687	BRA	2.1152	BC3	.2317	FSP	-284												

MID-COURSE EXECUTION ACCURACY

SGT	1753.9	SGR	482.7	SG3	108.0						
RRT	-.3754	RRF	.3897	RTF	-.8692						
SGB	1819.1	R23	-.0442	R13	.8708						
SG1	1763.9	SG2	444.9	THA	173.70						

ORBIT DETERMINATION ACCURACY

ST	697.1	SR	357.8	SS	626.1						
CRT	.4882	CRS	.6279	CST	.9851						
LSA	956.5	MSA	301.5	SSA	16.7						
EL1	723.5	EL2	300.9	ALF	17.12						

LAUNCH DATE SEP 27 1965 FLIGHT TIME 108.00 ARRIVAL DATE JAN 13 1966

HELIOCENTRIC CONIC DISTANCE 252.536

RL	149.94	LAL	.00	LOL	3.68	VL	24.852	GAL	9.73	AZL	88.38	HCA	100.59	SMA	115.14	ECC	.34251	INC	1.6175	V1	29.717
RP	107.55	LAP	1.59	LOP	104.28	VP	36.266	GAP	-19.68	AZP	90.30	TAL	160.16	TAP	260.75	RCA	75.70	APO	154.58	V2	35.234
RC	43.503	GL	5.62	GP	-9.17	ZAL	48.33	ZAP	10.63	ETS	117.75	ZAE	152.23	ETE	211.34	ZAC	33.61	ETC	133.26	CLP	5.39

PLANETOCENTRIC CONIC

C3	49.849	VHL	7.060	DLA	-10.79	RAL	316.37	RAD	6568.8	VEL	13.085	PTH	2.39	VHP	12.320	DPA	-32.97	RAP	292.64	ECC	1.8204

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 26 37	2100.26	-16.64	34.37	190.77	113.25	10 1 37	1500.3	-13.35	27.24
90.00	18 39 25	5427.14	28.13	249.55	198.42	86.57	20 9 52	4827.1	27.35	240.97
100.00	10 42 34	1855.23	-18.00	15.73	190.14	114.28	11 13 29	1255.2	-14.57	8.61
100.00	20 6 9	5147.40	29.61	228.86	198.30	85.68	21 31 56	4547.4	28.69	220.17
110.00	11 38 35	1679.80	-21.59	.58	188.30	117.17	12 6 35	1079.8	-17.78	353.53
110.00	21 26 37	4895.59	33.58	209.28	197.85	83.17	22 48 13	4295.6	32.27	200.29

DIFFERENTIAL CORRECTIONS

TDE	-.6327	TRA	-2.0822	TC3	-.2129	BAU	.1546												
RDE	-.4030	RRA	.3999	RC3	-.0924	FAU	.01748												
FDE	.6258	FRA	1.4334	FC3	-.3035	BSP	5742												
BDE	.7502	BRA	2.1202	BC3	.2321	FSP	-311												

MID-COURSE EXECUTION ACCURACY

SGT	1820.1	SGR	482.8	SG3	117.3						
RRT	-.4109	RRF	.4286	RTF	-.8775						
SGB	1883.0	R23	-.0503	R13	.8792						
SG1	1831.5	SG2	437.4	THA	173.40						

ORBIT DETERMINATION ACCURACY

ST	728.0	SR	341.8	SS	659.8						
CRT	.4695	CRS	.6176	CST	.9837						
LSA	997.3	MSA	295.5	SSA	16.8						
EL1	748.8	EL2	293.4	ALF	14.74						

LAUNCH DATE SEP 27 1965 FLIGHT TIME 110.00 ARRIVAL DATE JAN 15 1966

DISTANCE 259.319

HELIOCENTRIC CONIC

RL	149.94	LAL	.00	LOL	3.68	VL	25.067	GAL	9.28	AZL	88.19	HCA	103.83	SMA	116.22	ECC	.32859	INC	1.8096	V1	29.717
RP	107.54	LAP	1.76	LOP	107.52	VP	36.419	GAP	-18.72	AZP	90.43	TAL	159.89	TAP	263.72	RCA	78.03	APO	154.41	V2	35.239
RC	42.563	GL	6.61	GP	-9.81	ZAL	48.07	ZAP	10.57	ETS	109.33	ZAE	153.55	ETE	216.57	ZAC	35.35	ETC	134.73	CLP	3.97

PLANETOCENTRIC CONIC

C3 46.037 VHL 6.785 DLA -9.73 RAL 316.43 RAD 6568.7 VEL 12.938 PTH 2.36 VHP 11.791 DPA -33.40 RAP 294.85 ECC 1.7576

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 18 18	2115.03	-17.03	35.28	189.65	112.97	9 53 33	1515.0	-13.78	28.11
90.00	18 48 13	5372.56	27.84	245.58	196.43	84.61	20 17 46	4772.6	26.80	237.07
100.00	10 34 51	1868.07	-18.36	16.51	189.05	114.01	11 5 59	1268.1	-14.96	9.37
100.00	20 14 21	5094.75	29.27	224.98	196.26	83.66	21 39 16	4494.7	28.09	216.38
110.00	11 32 12	1688.50	-21.86	1.11	187.27	116.96	12 0 21	1088.5	-18.07	354.03
110.00	21 33 30	4847.08	33.12	205.57	195.66	81.02	22 54 17	4247.1	31.53	196.71

DIFFERENTIAL CORRECTIONS

TDE -.6367 TRA-2.0855 TC3 -.2051 BAU .1424
RDE -.3634 RRA .4029 RC3 -.1072 FAU .01819
FDE .6682 FRA 1.4959 FC3 -.3420 BSP 5983
BDE .7331 BRA 2.1241 BC3 .2314 FSP -341

MID-COURSE EXECUTION ACCURACY

SGT 1886.6 SGR 484.3 SG3 127.5
RRT -.4503 RRF .4715 RTF -.8854
SGB 1947.7 R23 -.0572 R13 .8873
SG1 1899.8 SG2 429.4 THA 173.05

ORBIT DETERMINATION ACCURACY

ST 759.3 SR 323.9 SS 695.8
CRT .4453 CRS .6024 CST .9823
LSA 1040.1 MSA 288.9 SSA 16.8
EL1 775.0 EL2 284.1 ALF 12.45

LAUNCH DATE SEP 27 1965 FLIGHT TIME 112.00 ARRIVAL DATE JAN 17 1966

DISTANCE 266.115

HELIOCENTRIC CONIC

RL	149.94	LAL	.00	LOL	3.68	VL	25.267	GAL	8.85	AZL	87.99	HCA	107.07	SMA	117.26	ECC	.31542	INC	2.0071	V1	29.717
RP	107.52	LAP	1.92	LOP	110.76	VP	36.562	GAP	-17.78	AZP	90.59	TAL	159.67	TAP	266.74	RCA	80.27	APO	154.24	V2	35.244
RC	41.769	GL	7.70	GP	-10.52	ZAL	47.88	ZAP	10.81	ETS	100.82	ZAE	154.69	ETE	222.61	ZAC	37.14	ETC	136.00	CLP	2.53

PLANETOCENTRIC CONIC

C3 42.605 VHL 6.527 DLA -8.60 RAL 316.41 RAD 6568.6 VEL 12.805 PTH 2.33 VHP 11.282 DPA -33.87 RAP 297.08 ECC 1.7012

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 9 14	2132.25	-17.49	36.34	188.51	112.63	9 44 46	1532.3	-14.27	29.14
90.00	18 57 10	5316.35	27.41	241.52	194.38	82.61	20 25 46	4716.4	26.11	233.10
100.00	10 26 24	1883.32	-18.78	17.45	187.93	113.70	10 57 47	1283.3	-15.41	10.27
100.00	20 22 41	5040.52	28.80	221.02	194.16	81.63	21 46 41	4440.5	27.34	212.52
110.00	11 25 7	1699.46	-22.20	1.78	186.21	116.69	11 53 26	1099.5	-18.44	354.67
110.00	21 40 27	4797.14	32.53	201.79	193.42	78.86	23 0 24	4197.1	30.65	193.08

DIFFERENTIAL CORRECTIONS

TDE -.6416 TRA-2.0879 TC3 -.1947 BAU .1315
RDE -.3234 RRA .4077 RC3 -.1241 FAU .01895
FDE .7151 FRA 1.5629 FC3 -.3851 BSP 6224
BDE .7185 BRA 2.1273 BC3 .2308 FSP -374

MID-COURSE EXECUTION ACCURACY

SGT 1953.9 SGR 487.7 SG3 138.6
RRT -.4932 RRF .5184 RTF -.8928
SGB 2013.8 R23 -.0651 R13 .8950
SG1 1969.3 SG2 421.0 THA 172.64

ORBIT DETERMINATION ACCURACY

ST 791.5 SR 304.0 SS 734.3
CRT .4137 CRS .5804 CST .9809
LSA 1085.6 MSA 281.6 SSA 16.8
EL1 802.7 EL2 272.9 ALF 10.22

LAUNCH DATE SEP 27 1965 FLIGHT TIME 114.00 ARRIVAL DATE JAN 19 1966

DISTANCE 272.920

HELIOCENTRIC CONIC

RL	149.94	LAL	.00	LOL	3.68	VL	25.454	GAL	8.43	AZL	87.79	HCA	110.31	SMA	118.25	ECC	.30297	INC	2.2116	V1	29.717
RP	107.51	LAP	2.07	LOP	114.01	VP	36.696	GAP	-16.87	AZP	90.77	TAL	159.49	TAP	269.80	RCA	82.42	APO	154.07	V2	35.249
RC	41.131	GL	8.89	GP	-11.31	ZAL	47.78	ZAP	11.36	ETS	92.69	ZAE	155.54	ETE	229.43	ZAC	38.99	ETC	137.08	CLP	1.06

PLANETOCENTRIC CONIC

C3 39.527 VHL 6.287 DLA -7.39 RAL 316.31 RAD 6568.5 VEL 12.684 PTH 2.30 VHP 10.793 DPA -34.40 RAP 299.31 ECC 1.6505

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 59 20	2152.35	-18.01	37.58	187.35	112.23	9 35 12	1552.3	-14.84	30.34
90.00	19 6 17	5258.41	26.84	237.38	192.28	80.61	20 33 55	4658.4	25.27	229.06
100.00	10 17 8	1901.37	-19.27	18.57	186.80	113.31	10 48 49	1301.4	-15.95	11.35
100.00	20 31 10	4984.63	28.18	216.98	192.02	79.59	21 54 15	4384.6	26.45	208.60
110.00	11 17 17	1713.04	-22.61	2.62	185.14	116.35	11 45 50	1113.0	-18.89	355.46
110.00	21 47 30	4745.72	31.78	197.97	191.14	76.70	23 6 36	4145.7	29.63	189.42

DIFFERENTIAL CORRECTIONS

TDE -.6487 TRA-2.0888 TC3 -.1862 BAU .1241
RDE -.2830 RRA .4148 RC3 -.1431 FAU .01979
FDE .7671 FRA 1.6346 FC3 -.4334 BSP 6366
BDE .7078 BRA 2.1296 BC3 .2348 FSP -410

MID-COURSE EXECUTION ACCURACY

SGT 2022.1 SGR 494.1 SG3 150.7
RRT -.5375 RRF .5689 RTF -.8986
SGB 2081.6 R23 -.0769 R13 .9011
SG1 2040.2 SG2 413.0 THA 172.20

ORBIT DETERMINATION ACCURACY

ST 825.4 SR 282.2 SS 775.7
CRT .3722 CRS .5482 CST .9797
LSA 1134.7 MSA 273.5 SSA 17.0
EL1 832.7 EL2 259.6 ALF 8.04

LAUNCH DATE SEP 27 1965 FLIGHT TIME 116.00 ARRIVAL DATE JAN 21 1966

DISTANCE 279.731

HELIOCENTRIC CONIC

RL	149.94	LAL	.00	LOL	3.68	VL	25.627	GAL	8.04	AZL	87.57	HCA	113.55	SMA	119.19	ECC	.29124	INC	2.4250	V1	29.717
RP	107.50	LAP	2.22	LOP	117.25	VP	36.820	GAP	-16.00	AZP	90.97	TAL	159.34	TAP	272.89	RCA	84.48	APO	153.90	V2	35.252
RC	40.657	GL	10.20	GP	-12.21	ZAL	47.77	ZAP	12.21	ETS	85.33	ZAE	156.02	ETE	236.90	ZAC	40.89	ETC	137.99	CLP	-.42

PLANETOCENTRIC CONIC

C3 36.781 VHL 6.065 DLA -6.08 RAL 316.13 RAD 6568.4 VEL 12.576 PTH 2.28 VHP 10.323 DPA -35.01 RAP 301.55 ECC 1.6053

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 48 31	2175.75	-18.61	39.04	186.20	111.74	9 24 47	1575.8	-15.49	31.75
90.00	19 15 38	5198.61	26.10	233.16	190.16	78.62	20 42 17	4598.6	24.27	224.97
100.00	10 6 59	1922.65	-19.83	19.89	185.67	112.83	10 39 1	1322.6	-16.57	12.62
100.00	20 39 52	4926.95	27.40	212.87	189.85	77.56	22 1 59	4327.0	25.41	204.63
110.00	11 8 37	1729.64	-23.11	3.65	184.07	115.92	11 37 27	1129.6	-19.43	356.44
110.00	21 54 43	4692.72	30.89	194.10	188.86	74.58	23 12 55	4092.7	28.47	185.74

DIFFERENTIAL CORRECTIONS

TDE -.6534 TRA-2.0888 TC3 -.1634 BAU .1139
RDE -.2415 RRA .4244 RC3 -.1643 FAU .02068
FDE .8253 FRA 1.7115 FC3 -.4868 BSP 6714
BDE .6966 BRA 2.1315 BC3 .2317 FSP -450

MID-COURSE EXECUTION ACCURACY

SGT 2087.7 SGR 504.4 SG3 163.9
RRT -.5887 RRF .6221 RTF -.9065
SGB 2147.8 R23 -.0838 R13 .9093
SG1 2109.5 SG2 403.5 THA 171.60

ORBIT DETERMINATION ACCURACY

ST 857.6 SR 258.3 SS 820.5
CRT .3109 CRS .4999 CST .9781
LSA 1185.1 MSA 265.7 SSA 16.8
EL1 861.7 EL2 244.4 ALF 5.82

LAUNCH DATE SEP 27 1965 FLIGHT TIME 118.00 ARRIVAL DATE JAN 23 1966

HELIOCENTRIC CONIC DISTANCE 286.545

RL 149.94 LAL .00 LOL 3.68 VL 25.789 GAL 7.66 AZL 87.35 HCA 116.79 SMA 120.08 ECC .28019 INC 2.6491 V1 29.717
RP 107.49 LAP 2.36 LOP 120.50 VP 36.935 GAP -15.15 AZP 91.19 TAL 159.24 TAP 276.03 RCA 86.44 APO 153.73 V2 35.255
RC 40.351 GL 11.63 GP -13.22 ZAL 47.87 ZAP 13.36 ETS 78.97 ZAE 156.04 ETE 244.76 ZAC 42.84 ETC 138.74 CLP -1.94

PLANETOCENTRIC CONIC

C3 34.346 VHL 5.861 DLA -4.66 RAL 315.86 RAD 6568.4 VEL 12.479 PTH 2.26 VHP 9.874 DPA -35.71 RAP 303.81 ECC 1.5653

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 36 43	2202.97	-19.29	40.75	185.06	111.14	9 13 26	1603.0	-16.24	33.40
90.00	19 25 19	5136.80	25.20	228.85	188.02	76.64	20 50 55	4536.8	23.12	220.80
100.00	9 55 52	1947.64	-20.49	21.46	184.55	112.26	10 28 20	1347.6	-17.29	14.13
100.00	20 48 51	4867.36	26.46	208.69	187.67	75.55	22 9 58	4267.4	24.21	200.61
110.00	10 59 5	1749.71	-23.70	4.91	183.02	115.39	11 28 15	1149.7	-20.08	357.64
110.00	22 2 7	4638.05	29.83	190.19	186.58	72.48	23 19 25	4038.1	27.15	182.03

DIFFERENTIAL CORRECTIONS

TDE -.6592 TRA-2.0850 TC3 -.1400 BAU .1077
RDE -.1988 RRA .4372 RC3 -.1882 FAU .02168
FDE .8897 FRA 1.7930 FC3 -.5465 BSP 7018
BDE .6885 BRA 2.1303 BC3 .2346 FSP -495

MID-COURSE EXECUTION ACCURACY

SGT 2150.6 SGR 519.9 SG3 178.3
RRT -.6400 RRF .6769 RTF -.9129
SGB 2212.5 R23 -.0941 R13 .9160
SG1 2177.0 SG2 394.6 THA 170.90

ORBIT DETERMINATION ACCURACY

ST 889.8 SR 233.2 SS 868.1
CRT .2234 CRS .4259 CST .9765
LSA 1238.2 MSA 257.5 SSA 16.7
EL1 891.4 EL2 226.9 ALF 3.58

LAUNCH DATE SEP 27 1965 FLIGHT TIME 120.00 ARRIVAL DATE JAN 25 1966

HELIOCENTRIC CONIC DISTANCE 293.359

RL 149.94 LAL .00 LOL 3.68 VL 25.938 GAL 7.31 AZL 87.11 HCA 120.03 SMA 120.93 ECC .26982 INC 2.8866 V1 29.717
RP 107.48 LAP 2.50 LOP 123.75 VP 37.041 GAP -14.32 AZP 91.45 TAL 159.18 TAP 279.21 RCA 88.30 APO 153.56 V2 35.257
RC 40.219 GL 13.20 GP -14.37 ZAL 48.07 ZAP 14.77 ETS 73.66 ZAE 155.55 ETE 252.60 ZAC 44.84 ETC 139.33 CLP -3.49

PLANETOCENTRIC CONIC

C3 32.207 VHL 5.675 DLA -3.13 RAL 315.51 RAD 6568.3 VEL 12.393 PTH 2.24 VHP 9.445 DPA -36.51 RAP 306.09 ECC 1.5301

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 23 49	2234.57	-20.05	42.75	183.96	110.43	9 1 3	1634.6	-17.09	35.33
90.00	19 35 23	5072.78	24.12	224.47	185.90	74.70	20 59 55	4472.8	21.79	216.58
100.00	9 43 42	1976.88	-21.23	23.32	183.48	111.55	10 16 39	1376.9	-18.11	15.91
100.00	20 58 11	4805.70	25.34	204.45	185.52	73.59	22 18 16	4205.7	22.85	196.54
110.00	10 48 35	1773.74	-24.39	6.43	182.01	114.73	11 18 9	1173.7	-20.85	359.08
110.00	22 9 47	4581.61	28.61	186.25	184.32	70.44	23 26 8	3981.6	25.68	178.30

DIFFERENTIAL CORRECTIONS

TDE -.6696 TRA-2.0832 TC3 -.1165 BAU .1051
RDE -.1538 RRA .4540 RC3 -.2146 FAU .02269
FDE .9634 FRA 1.8810 FC3 -.6100 BSP 7255
BDE .6870 BRA 2.1321 BC3 .2442 FSP -542

MID-COURSE EXECUTION ACCURACY

SGT 2216.1 SGR 542.3 SG3 194.0
RRT -.6903 RRF .7313 RTF -.9187
SGB 2281.5 R23 -.1066 R13 .9223
SG1 2248.5 SG2 386.7 THA 170.12

ORBIT DETERMINATION ACCURACY

ST 925.4 SR 207.7 SS 920.4
CRT .0935 CRS .3086 CST .9754
LSA 1297.8 MSA 249.0 SSA 16.5
EL1 925.6 EL2 206.7 ALF 1.26

LAUNCH DATE SEP 27 1965 FLIGHT TIME 122.00 ARRIVAL DATE JAN 27 1966

HELIOCENTRIC CONIC DISTANCE 300.170

RL 149.94 LAL .00 LOL 3.68 VL 26.077 GAL 6.97 AZL 86.86 HCA 123.27 SMA 121.73 ECC .26010 INC 3.1401 V1 29.717
RP 107.48 LAP 2.62 LOP 126.99 VP 37.140 GAP -13.53 AZP 91.72 TAL 159.15 TAP 282.43 RCA 90.07 APO 153.39 V2 35.259
RC 40.263 GL 14.91 GP -15.67 ZAL 48.40 ZAP 16.45 ETS 69.33 ZAE 154.54 ETE 260.03 ZAC 46.92 ETC 139.78 CLP -5.07

PLANETOCENTRIC CONIC

C3 30.352 VHL 5.509 DLA -1.47 RAL 315.06 RAD 6568.2 VEL 12.318 PTH 2.22 VHP 9.039 DPA -37.45 RAP 308.41 ECC 1.4995

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 9 42	2271.17	-20.90	45.10	182.93	109.55	8 47 33	1671.2	-18.04	37.59
90.00	19 45 56	5006.35	22.86	220.02	183.81	72.82	21 9 22	4406.4	20.29	212.29
100.00	9 30 21	2010.99	-22.07	25.51	182.47	110.69	10 3 52	1411.0	-19.05	18.01
100.00	21 7 58	4741.77	24.04	200.15	183.40	71.68	22 26 59	4141.8	21.31	192.41
110.00	10 37 2	1802.27	-25.19	8.26	181.07	113.91	11 7 4	1202.3	-21.74	.81
110.00	22 17 46	4523.25	27.22	182.28	182.12	68.47	23 33 10	3923.2	24.05	174.55

DIFFERENTIAL CORRECTIONS

TDE -.6830 TRA-2.0807 TC3 -.0898 BAU .1054
RDE -.1057 RRA .4755 RC3 -.2438 FAU .02375
FDE 1.0471 FRA 1.9748 FC3 -.6773 BSP 7485
BDE .6911 BRA 2.1343 BC3 .2598 FSP -593

MID-COURSE EXECUTION ACCURACY

SGT 2280.3 SGR 573.6 SG3 211.0
RRT -.7388 RRF .7833 RTF -.9242
SGB 2351.3 R23 -.1202 R13 .9284
SG1 2320.4 SG2 379.9 THA 169.18

ORBIT DETERMINATION ACCURACY

ST 962.4 SR 184.8 SS 977.4
CRT -.1029 CRS .1211 CST .9744
LSA 1362.9 MSA 240.7 SSA 16.2
EL1 962.6 EL2 183.8 ALF 178.83

LAUNCH DATE SEP 27 1965 FLIGHT TIME 124.00 ARRIVAL DATE JAN 29 1966

HELIOCENTRIC CONIC DISTANCE 306.975

RL 149.94 LAL .00 LOL 3.68 VL 26.205 GAL 6.65 AZL 86.59 HCA 126.51 SMA 122.48 ECC .25100 INC 3.4132 V1 29.717
RP 107.48 LAP 2.74 LOP 130.24 VP 37.231 GAP -12.75 AZP 92.03 TAL 159.16 TAP 285.68 RCA 91.74 APO 153.23 V2 35.259
RC 40.482 GL 16.79 GP -17.16 ZAL 48.86 ZAP 18.38 ETS 65.88 ZAE 153.02 ETE 266.72 ZAC 49.06 ETC 140.08 CLP -6.69

PLANETOCENTRIC CONIC

C3 28.773 VHL 5.364 DLA .33 RAL 314.52 RAD 6568.2 VEL 12.253 PTH 2.20 VHP 8.657 DPA -38.55 RAP 310.76 ECC 1.4735

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 54 13	2313.51	-21.84	47.85	181.97	108.48	8 32 47	1713.5	-19.11	40.24
90.00	19 57 6	4937.24	21.40	215.48	181.78	71.00	21 19 23	4337.2	18.61	207.92
100.00	9 15 43	2050.64	-23.00	28.08	181.54	109.64	9 49 53	1450.6	-20.11	20.48
100.00	21 18 18	4675.35	22.55	195.78	181.34	69.84	22 36 13	4075.3	19.60	188.22
110.00	10 24 18	1835.93	-26.10	10.46	180.21	112.90	10 54 54	1235.9	-22.77	2.88
110.00	22 26 11	4462.82	25.64	178.29	179.98	66.58	23 40 34	3862.8	22.25	170.78

DIFFERENTIAL CORRECTIONS

TDE -.6992 TRA-2.0769 TC3 -.0601 BAU .1086
RDE -.0533 RRA .5027 RC3 -.2758 FAU .02484
FDE 1.1421 FRA 2.0736 FC3 -.7474 BSP 7727
BDE .7012 BRA 2.1369 BC3 .2823 FSP -649

MID-COURSE EXECUTION ACCURACY

SGT 2341.7 SGR 615.8 SG3 229.2
RRT -.7834 RRF .8308 RTF -.9294
SGB 2421.4 R23 -.1345 R13 .9343
SG1 2392.2 SG2 374.6 THA 168.06

ORBIT DETERMINATION ACCURACY

ST 1000.4 SR 171.1 SS 1039.2
CRT -.3776 CRS -.1588 CST .9737
LSA 1433.7 MSA 233.0 SSA 15.8
EL1 1002.5 EL2 158.1 ALF 176.21

LAUNCH DATE SEP 27 1965 FLIGHT TIME 126.00 ARRIVAL DATE JAN 31 1966

DISTANCE 313.773

HELIOCENTRIC CONIC

RL	149.94	LAL	.00	LOL	3.68	VL	26.324	GAL	6.35	AZL	86.29	HCA	129.75	SMA	123.19	ECC	.24252	INC	3.7101	V1	29.717
RP	107.48	LAP	2.85	LOP	133.49	VP	37.314	GAP	-12.00	AZP	92.37	TAL	159.20	TAP	288.96	RCA	93.31	APO	153.07	V2	35.259
RC	40.875	GL	18.85	GP	-18.87	ZAL	49.47	ZAP	20.57	ETS	63.19	ZAE	151.05	ETE	272.47	ZAC	51.30	ETC	140.25	CLP	-8.35

PLANETOCENTRIC CONIC

C3 27.467 VHL 5.241 DLA 2.28 RAL 313.88 RAD 6568.1 VEL 12.200 PTH 2.19 VHP 8.299 DPA -39.84 RAP 313.19 ECC 1.4520

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 37 11	2362.46	-22.86	51.07	181.13	107.18	8 16 34	1762.5	-20.29	43.34
90.00	20 9 2	4865.14	19.73	210.85	179.84	69.26	21 30 7	4265.1	16.73	203.46
100.00	8 59 36	2096.66	-24.02	31.12	180.73	108.35	9 34 32	1496.7	-21.29	23.39
100.00	21 29 19	4606.17	20.86	191.33	179.37	68.09	22 46 5	4006.2	17.70	183.96
110.00	10 10 16	1875.43	-27.12	13.07	179.48	111.65	10 41 32	1275.4	-23.94	5.36
110.00	22 35 7	4400.16	23.89	174.27	177.94	64.79	23 48 27	3800.2	20.29	166.97

DIFFERENTIAL CORRECTIONS

TDE	-.7196	TRA	-2.0726	TC3	-.0288	BAU	.1145
RDE	.0047	RRA	.5367	RC3	-.3105	FAU	.02593
FDE	1.2501	FRA	2.1767	FC3	-.8171	BSP	7966
BDE	.7196	BRA	2.1410	BC3	.3119	FSP	-708

MID-COURSE EXECUTION ACCURACY

SGT	2400.4	SGR	671.5	SG3	248.5		
RRT	-.8227	RRF	.8722	RTF	-.9342		
SGB	2492.5	R23	-.1490	R13	.9401		
SG1	2464.6	SG2	371.8	THA	166.73		

ORBIT DETERMINATION ACCURACY

ST	1040.0	SR	176.5	SS	1106.0		
CRT	-.6750	CRS	-.4893	CST	.9732		
LSA	1511.5	MSA	226.0	SSA	15.3		
EL1	1046.9	EL2	129.4	ALF	173.36		

LAUNCH DATE SEP 27 1965 FLIGHT TIME 128.00 ARRIVAL DATE FEB 2 1966

DISTANCE 320.560

HELIOCENTRIC CONIC

RL	149.94	LAL	.00	LOL	3.68	VL	26.433	GAL	6.07	AZL	85.96	HCA	132.99	SMA	123.85	ECC	.23462	INC	4.0365	V1	29.717
RP	107.48	LAP	2.95	LOP	136.74	VP	37.390	GAP	-11.28	AZP	92.75	TAL	159.28	TAP	292.27	RCA	94.80	APO	152.91	V2	35.258
RC	41.437	GL	21.09	GP	-20.83	ZAL	50.25	ZAP	23.03	ETS	61.13	ZAE	148.68	ETE	277.22	ZAC	53.64	ETC	140.30	CLP	-10.06

PLANETOCENTRIC CONIC

C3 26.440 VHL 5.142 DLA 4.40 RAL 313.14 RAD 6568.1 VEL 12.158 PTH 2.18 VHP 7.970 DPA -41.35 RAP 315.70 ECC 1.4351

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 18 23	2419.04	-23.95	54.86	180.44	105.58	7 58 42	1819.0	-21.58	46.99
90.00	20 21 55	4789.63	17.84	206.11	178.02	67.64	21 41 44	4189.6	14.65	198.89
100.00	8 41 47	2150.01	-25.11	34.71	180.07	106.77	9 17 37	1550.0	-22.58	26.83
100.00	21 41 11	4533.89	18.95	186.81	177.52	66.44	22 56 45	3933.9	15.61	179.62
110.00	9 54 46	1921.60	-28.24	16.20	178.90	110.11	10 26 48	1321.6	-25.24	8.31
110.00	22 44 42	4335.06	21.94	170.22	176.02	63.10	23 56 57	3735.1	18.15	163.13

DIFFERENTIAL CORRECTIONS

TDE	-.7453	TRA	-2.0683	TC3	.0028	BAU	.1228
RDE	.0708	RRA	.5791	RC3	-.3475	FAU	.02695
FDE	1.3731	FRA	2.2826	FC3	-.8824	BSP	8200
BDE	.7486	BRA	2.1479	BC3	.3475	FSP	-770

MID-COURSE EXECUTION ACCURACY

SGT	2456.1	SGR	743.5	SG3	268.7		
RRT	-.8556	RRF	.9065	RTF	-.9386		
SGB	2566.2	R23	-.1630	R13	.9457		
SG1	2539.0	SG2	372.2	THA	165.15		

ORBIT DETERMINATION ACCURACY

ST	1081.9	SR	209.8	SS	1178.2		
CRT	-.8815	CRS	-.7508	CST	.9731		
LSA	1598.1	MSA	220.2	SSA	14.6		
EL1	1097.7	EL2	97.6	ALF	170.22		

LAUNCH DATE SEP 27 1965 FLIGHT TIME 130.00 ARRIVAL DATE FEB 4 1966

DISTANCE 327.336

HELIOCENTRIC CONIC

RL	149.94	LAL	.00	LOL	3.68	VL	26.534	GAL	5.81	AZL	85.60	HCA	136.23	SMA	124.47	ECC	.22729	INC	4.3931	V1	29.717
RP	107.49	LAP	3.04	LOP	140.00	VP	37.460	GAP	-10.57	AZP	93.18	TAL	159.38	TAP	295.61	RCA	96.18	APO	152.76	V2	35.256
RC	42.162	GL	23.54	GP	-23.09	ZAL	51.20	ZAP	25.79	ETS	59.61	ZAE	145.95	ETE	281.01	ZAC	56.11	ETC	140.22	CLP	-11.81

PLANETOCENTRIC CONIC

C3 25.706 VHL 5.070 DLA 6.70 RAL 312.29 RAD 6568.0 VEL 12.128 PTH 2.17 VHP 7.674 DPA -43.13 RAP 318.36 ECC 1.4231

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 57 29	2484.53	-25.07	59.33	179.95	103.61	7 38 54	1884.5	-22.95	51.30
90.00	20 36 0	4710.19	15.71	201.25	176.36	66.14	21 54 30	4110.2	12.36	194.18
100.00	8 22 2	2211.86	-26.26	38.94	179.61	104.82	8 58 53	1611.9	-23.97	30.90
100.00	21 54 9	4458.09	16.83	182.19	175.83	64.92	23 8 27	3858.1	13.31	175.16
110.00	9 37 35	1975.42	-29.45	19.92	178.55	108.20	10 10 30	1375.4	-26.68	11.83
110.00	22 55 5	4267.30	19.80	166.13	174.25	61.55	24 6 12	3667.3	15.84	159.24

DIFFERENTIAL CORRECTIONS

TDE	-.7747	TRA	-2.0610	TC3	.0378	BAU	.1334
RDE	.1473	RRA	.6310	RC3	-.3864	FAU	.02793
FDE	1.5106	FRA	2.3862	FC3	-.9406	BSP	8505
BDE	.7885	BRA	2.1555	BC3	.3883	FSP	-837

MID-COURSE EXECUTION ACCURACY

SGT	2503.5	SGR	834.7	SG3	289.1		
RRT	-.8827	RRF	.9335	RTF	-.9429		
SGB	2639.0	R23	-.1744	R13	.9513		
SG1	2612.1	SG2	376.0	THA	163.24		

ORBIT DETERMINATION ACCURACY

ST	1123.1	SR	272.4	SS	1254.2		
CRT	-.9714	CRS	-.8923	CST	.9732		
LSA	1691.6	MSA	216.1	SSA	13.6		
EL1	1153.9	EL2	63.0	ALF	166.70		

LAUNCH DATE SEP 27 1965 FLIGHT TIME 132.00 ARRIVAL DATE FEB 6 1966

DISTANCE 334.097

HELIOCENTRIC CONIC

RL	149.94	LAL	.00	LOL	3.68	VL	26.627	GAL	5.56	AZL	85.19	HCA	139.47	SMA	125.05	ECC	.22050	INC	4.8071	V1	29.717
RP	107.49	LAP	3.12	LOP	143.25	VP	37.523	GAP	-9.89	AZP	93.66	TAL	159.50	TAP	298.96	RCA	97.48	APO	152.62	V2	35.254
RC	43.042	GL	26.21	GP	-25.70	ZAL	52.35	ZAP	28.86	ETS	58.52	ZAE	142.88	ETE	283.91	ZAC	58.75	ETC	140.03	CLP	-13.61

PLANETOCENTRIC CONIC

C3 25.292 VHL 5.029 DLA 9.20 RAL 311.32 RAD 6568.0 VEL 12.111 PTH 2.17 VHP 7.415 DPA -45.22 RAP 321.21 ECC 1.4162

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 34 6	2560.57	-26.18	64.62	179.69	101.18	7 16 46	1960.6	-24.38	56.42
90.00	20 51 38	4626.13	13.33	196.23	174.90	64.79	22 8 45	4026.1	9.83	189.30
100.00	7 59 56	2283.71	-27.41	43.97	179.41	102.41	8 38 0	1683.7	-25.43	35.73
100.00	22 8 29	4378.22	14.46	177.43	174.34	63.55	23 21 27	3778.2	10.80	170.56
110.00	9 18 25	2038.11	-30.70	24.38	178.46	105.84	9 52 23	1438.1	-28.22	16.06
110.00	23 6 29	4196.59	17.45	161.99	172.67	60.13	24 16 26	3596.6	13.34	155.28

DIFFERENTIAL CORRECTIONS

TDE	-.8145	TRA	-2.0571	TC3	.0663	BAU	.1455
RDE	.2386	RRA	.6951	RC3	-.4251	FAU	.02862
FDE	1.6663	FRA	2.4863	FC3	-.9796	BSP	8746
BDE	.8487	BRA	2.1714	BC3	.4302	FSP	-899

MID-COURSE EXECUTION ACCURACY

SGT	2549.9	SGR	948.8	SG3	309.2		
RRT	-.9032	RRF	.9539	RTF	-.9467		
SGB	2720.7	R23	-.1833	R13	.9569		
SG1	2693.3	SG2	385.5	THA	161.02		

ORBIT DETERMINATION ACCURACY

ST	1169.8	SR	363.3	SS	1335.5		
CRT	-.9970	CRS	-.9555	CST	.9738		
LSA	1799.6	MSA	213.1	SSA	12.6		
EL1	1224.6	EL2	26.9	ALF	162.79		

LAUNCH DATE SEP 27 1965 FLIGHT TIME 134.00 ARRIVAL DATE FEB 8 1966

HELIOCENTRIC CONIC DISTANCE 340.842

RL 149.94 LAL .00 LOL 3.68 VL 26.712 GAL 5.33 AZL 84.73 HCA 142.70 SMA 125.59 ECC .21424 INC 5.2729 VI 29.717
RP 107.50 LAP 3.19 LOP 146.50 VP 37.581 GAP -9.22 AZP 94.20 TAL 159.64 TAP 302.34 RCA 98.68 APO 152.49 V2 35.250
RC 44.068 GL 29.11 GP -28.72 ZAL 53.72 ZAP 32.30 ETS 57.79 ZAE 139.47 ETE 286.04 ZAC 61.59 ETC 139.75 CLP -15.45

PLANETOCENTRIC CONIC

C3 25.244 VHL 5.024 DLA 11.90 RAL 310.21 RAD 6568.0 VEL 12.109 PTH 2.17 VHP 7.201 DPA -47.66 RAP 324.37 ECC 1.4154

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 7 37	2649.37	-27.20	70.92	179.72	98.19	6 51 46	2049.4	-25.79	62.54
90.00	21 9 20	4536.40	10.67	190.98	173.71	63.62	22 24 56	3936.4	7.04	184.18
100.00	7 35 1	2367.51	-28.49	49.96	179.50	99.44	8 14 28	1767.5	-26.90	41.53
100.00	22 24 37	4293.49	11.84	172.51	173.10	62.35	23 36 11	3693.5	8.04	165.78
110.00	8 56 56	2111.15	-31.93	29.71	178.71	102.91	9 32 7	1511.2	-29.83	21.13
110.00	23 19 11	4122.61	14.89	157.78	171.34	58.87	24 27 54	3522.6	10.66	151.24

DIFFERENTIAL CORRECTIONS
TDE -.8638 TRA-2.0537 TC3 .0910 BAU .1589
RDE .3497 RRA .7731 RC3 -.4619 FAU .02896
FDE 1.8379 FRA 2.5736 FC3 -.9932 BSP .9020
BDE .9319 BRA 2.1944 BC3 .4707 FSP -959

MID-COURSE EXECUTION ACCURACY
SGT 2589.8 SGR 1089.1 SG3 327.7
RRT -.9188 RRF .9687 RTF -.9503
SGB 2809.5 R23 -.1875 R13 .9625
SG1 2780.8 SG2 400.3 THA 158.40

ORBIT DETERMINATION ACCURACY
ST 1219.0 SR 482.0 SS 1419.3
CRT -.9991 CRS -.9819 CST .9749
LSA 1920.3 MSA 211.8 SSA 11.4
EL1 1310.7 EL2 19.4 ALF 158.44

LAUNCH DATE SEP 27 1965 FLIGHT TIME 136.00 ARRIVAL DATE FEB 10 1966

HELIOCENTRIC CONIC DISTANCE 347.570

RL 149.94 LAL .00 LOL 3.68 VL 26.789 GAL 5.11 AZL 84.19 HCA 145.93 SMA 126.08 ECC .20847 INC 5.8131 VI 29.717
RP 107.51 LAP 3.25 LOP 149.75 VP 37.632 GAP -8.58 AZP 94.82 TAL 159.80 TAP 305.73 RCA 99.80 APO 152.37 V2 35.247
RC 45.230 GL 32.26 GP -32.21 ZAL 55.33 ZAP 36.12 ETS 57.36 ZAE 135.71 ETE 287.52 ZAC 64.68 ETC 139.41 CLP -17.32

PLANETOCENTRIC CONIC

C3 25.638 VHL 5.063 DLA 14.82 RAL 308.96 RAD 6568.0 VEL 12.125 PTH 2.17 VHP 7.045 DPA -50.50 RAP 327.97 ECC 1.4219

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 37 9	2754.06	-27.99	78.48	180.08	94.48	6 23 3	2154.1	-27.07	69.93
90.00	21 29 50	4439.35	7.69	185.41	172.88	62.66	22 43 49	3839.4	3.96	178.71
100.00	7 6 29	2465.94	-29.38	57.14	179.94	95.76	7 47 35	1865.9	-28.27	48.52
100.00	22 43 11	4202.70	8.92	167.35	172.22	61.35	23 53 13	3602.7	5.03	160.73
110.00	8 32 35	2196.53	-33.05	36.12	179.37	99.27	9 9 12	1596.5	-31.42	27.27
110.00	23 33 34	4044.88	12.11	153.48	170.31	57.79	24 40 59	3444.9	7.77	147.07

DIFFERENTIAL CORRECTIONS
TDE -.9247 TRA-2.0506 TC3 .1112 BAU .1734
RDE .4877 RRA .8668 RC3 -.4936 FAU .02881
FDE 2.0210 FRA 2.6366 FC3 -.9730 BSP .9355
BDE 1.0454 BRA 2.2263 BC3 .5060 FSP -1012

MID-COURSE EXECUTION ACCURACY
SGT 2620.9 SGR 1258.5 SG3 342.6
RRT -.9305 RRF .9790 RTF -.9537
SGB 2907.4 R23 -.1859 R13 .9683
SG1 2876.9 SG2 420.0 THA 155.37

ORBIT DETERMINATION ACCURACY
ST 1270.2 SR 630.4 SS 1501.8
CRT -.9949 CRS -.9928 CST .9763
LSA 2054.6 MSA 211.9 SSA 10.1
EL1 1416.9 EL2 57.0 ALF 153.68

LAUNCH DATE SEP 27 1965 FLIGHT TIME 138.00 ARRIVAL DATE FEB 12 1966

HELIOCENTRIC CONIC DISTANCE 354.277

RL 149.94 LAL .00 LOL 3.68 VL 26.860 GAL 4.92 AZL 83.55 HCA 149.16 SMA 126.54 ECC .20320 INC 6.4514 VI 29.717
RP 107.53 LAP 3.30 LOP 153.00 VP 37.678 GAP -7.95 AZP 95.55 TAL 159.96 TAP 309.12 RCA 100.83 APO 152.25 V2 35.242
RC 46.516 GL 35.66 GP -36.23 ZAL 57.18 ZAP 40.38 ETS 57.14 ZAE 131.54 ETE 288.49 ZAC 68.06 ETC 139.07 CLP -19.20

PLANETOCENTRIC CONIC

C3 26.598 VHL 5.157 DLA 17.97 RAL 307.55 RAD 6568.1 VEL 12.164 PTH 2.18 VHP 6.961 DPA -53.75 RAP 332.25 ECC 1.4377

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 1 14	2879.60	-28.32	87.64	180.77	89.90	5 49 13	2279.6	-28.03	78.99
90.00	21 54 26	4332.01	4.29	179.36	172.54	61.98	23 6 38	3732.0	.51	172.72
100.00	6 33 11	2583.07	-29.87	65.81	180.75	91.23	7 16 14	1983.1	-29.38	57.04
100.00	23 5 10	4103.77	5.65	161.83	171.79	60.60	24 13 34	3503.8	1.69	155.28
110.00	8 4 39	2296.91	-33.89	43.83	180.50	94.78	8 42 55	1696.9	-32.85	34.75
110.00	23 50 12	3962.69	9.09	149.03	169.69	56.91	24 56 15	3362.7	4.67	142.73

DIFFERENTIAL CORRECTIONS
TDE-1.0021 TRA-2.0507 TC3 .1238 BAU .1885
RDE .6624 RRA .9783 RC3 -.5156 FAU .02794
FDE 2.2089 FRA 2.6626 FC3 -.9095 BSP .9751
BDE 1.2012 BRA 2.2721 BC3 .5302 FSP -1050

MID-COURSE EXECUTION ACCURACY
SGT 2644.3 SGR 1459.4 SG3 351.7
RRT -.9390 RRF .9860 RTF -.9568
SGB 3020.3 R23 -.1781 R13 .9739
SG1 2987.4 SG2 444.2 THA 151.93

ORBIT DETERMINATION ACCURACY
ST 1325.0 SR 812.0 SS 1579.1
CRT -.9905 CRS -.9973 CST .9780
LSA 2205.2 MSA 213.0 SSA 8.7
EL1 1551.1 EL2 95.6 ALF 148.61

LAUNCH DATE SEP 27 1965 FLIGHT TIME 140.00 ARRIVAL DATE FEB 14 1966

HELIOCENTRIC CONIC DISTANCE 360.961

RL 149.94 LAL .00 LOL 3.68 VL 26.925 GAL 4.74 AZL 82.78 HCA 152.38 SMA 126.96 ECC .19838 INC 7.2226 VI 29.717
RP 107.55 LAP 3.34 LOP 156.25 VP 37.719 GAP -7.35 AZP 96.41 TAL 160.14 TAP 312.52 RCA 101.77 APO 152.15 V2 35.236
RC 47.916 GL 39.33 GP -40.84 ZAL 59.32 ZAP 45.08 ETS 57.11 ZAE 126.92 ETE 289.09 ZAC 71.80 ETC 138.81 CLP -21.04

PLANETOCENTRIC CONIC

C3 28.328 VHL 5.322 DLA 21.33 RAL 305.93 RAD 6568.1 VEL 12.235 PTH 2.20 VHP 6.975 DPA -57.39 RAP 337.62 ECC 1.4662

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 17 4	3035.04	-27.77	98.97	181.67	84.25	5 7 39	2435.0	-28.28	90.34
90.00	22 25 41	4207.94	.30	172.42	172.93	61.68	23 35 49	3607.9	-3.49	165.79
100.00	5 53 0	2725.72	-29.61	76.40	181.86	85.66	6 38 26	2125.7	-29.89	67.61
100.00	23 32 27	3992.50	1.90	155.70	172.03	60.16	24 38 59	3392.5	-2.08	149.17
110.00	7 31 56	2416.20	-34.18	53.13	182.10	89.29	8 12 12	1816.2	-33.90	43.90
110.00	0 13 56	3874.78	5.79	144.36	169.62	56.25	1 18 31	3274.8	1.32	138.13

DIFFERENTIAL CORRECTIONS
TDE-1.1031 TRA-2.0573 TC3 .1255 BAU .2030
RDE .8875 RRA 1.1087 RC3 -.5211 FAU .02608
FDE 2.3887 FRA 2.6356 FC3 -.7969 BSP .0199
BDE 1.4158 BRA 2.3370 BC3 .5360 FSP -1064

MID-COURSE EXECUTION ACCURACY
SGT 2661.0 SGR 1691.8 SG3 352.1
RRT -.9452 RRF .9906 RTF -.9598
SGB 3153.3 R23 -.1646 R13 .9795
SG1 3117.8 SG2 471.6 THA 148.18

ORBIT DETERMINATION ACCURACY
ST 1385.2 SR 1029.9 SS 1644.6
CRT -.9874 CRS -.9991 CST .9802
LSA 2374.5 MSA 214.6 SSA 7.4
EL1 1721.2 EL2 131.2 ALF 143.47

LAUNCH DATE SEP 27 1965 FLIGHT TIME 142.00 ARRIVAL DATE FEB 16 1966

DISTANCE 367.621

HELIOCENTRIC CONIC

RL 149.94 LAL .00 LOL 3.68 VL 26.983 GAL 4.57 AZL 81.82 HCA 155.60 SMA 127.34 ECC .19401 INC 8.1792 VI 29.717
RP 107.56 LAP 3.37 LOP 159.50 VP 37.755 GAP -6.76 AZP 97.46 TAL 160.31 TAP 315.90 RCA 102.64 APO 152.05 V2 35.230
RC 49.420 GL 43.26 GP -46.08 ZAL 61.74 ZAP 50.23 ETS 57.24 ZAE 121.79 ETE 289.52 ZAC 75.95 ETC 138.75 CLP -22.75

PLANETOCENTRIC CONIC

C3 31.181 VHL 5.584 DLA 24.91 RAL 304.07 RAD 6568.2 VEL 12.351 PTH 2.23 VHP 7.122 DPA -61.33 RAP 344.74 ECC 1.5132

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	3 17 33	3243.01	-25.48	113.74	182.40	77.20	4 11 36	2643.0	-26.99	105.40
90.00	23 10 21	4048.05	-4.85	163.49	174.52	62.07	24 17 49	3448.0	-8.55	156.76
100.00	5 1 23	2908.27	-27.92	89.69	182.98	78.87	5 49 51	2308.3	-29.17	81.11
100.00	0 13 8	3858.02	-2.66	148.32	173.31	60.22	1 17 26	3258.0	-6.60	141.75
110.00	6 52 29	2560.68	-33.49	64.35	184.02	82.69	7 35 9	1960.7	-34.13	55.16
110.00	0 38 32	3778.37	2.12	139.30	170.33	55.87	1 41 30	3178.4	-2.37	133.10

DIFFERENTIAL CORRECTIONS

TDE-1.2358 TRA-2.0718 TC3 .1201 BAU .2161
RDE 1.1804 RRA 1.2559 RC3 -.5043 FAU .02313
FDE 2.5384 FRA 2.5365 FC3 -.6423 BSP 10829
BDE 1.7089 BRA 2.4227 BC3 .5184 FSP -1052

MID-COURSE EXECUTION ACCURACY

SGT 2668.2 SGR 1950.0 SG3 340.5
RRT -.9497 RRF .9935 RTF -.9628
SGB 3304.8 R23 -.1461 R13 .9846
SG1 3266.9 SG2 498.8 THA 144.28

ORBIT DETERMINATION ACCURACY

ST 1449.9 SR 1284.1 SS 1688.0
CRT -.9859 CRS -.9998 CST .9825
LSA 2560.0 MSA 216.2 SSA 6.2
EL1 1930.0 EL2 161.6 ALF 138.52

LAUNCH DATE SEP 27 1965 FLIGHT TIME 144.00 ARRIVAL DATE FEB 18 1966

DISTANCE 374.271

HELIOCENTRIC CONIC

RL 149.94 LAL .00 LOL 3.68 VL 27.036 GAL 4.43 AZL 80.59 HCA 158.80 SMA 127.69 ECC .19010 INC 9.4053 VI 29.717
RP 107.58 LAP 3.39 LOP 162.75 VP 37.787 GAP -6.19 AZP 98.78 TAL 160.45 TAP 319.25 RCA 103.42 APO 151.97 V2 35.224
RC 51.018 GL 47.40 GP -51.92 ZAL 64.44 ZAP 55.75 ETS 57.61 ZAE 116.14 ETE 290.06 ZAC 80.53 ETC 139.17 CLP -24.13

PLANETOCENTRIC CONIC

C3 35.808 VHL 5.984 DLA 28.64 RAL 301.92 RAD 6568.4 VEL 12.537 PTH 2.27 VHP 7.461 DPA -65.27 RAP 354.75 ECC 1.5893

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
85.51	0 29 58	3801.48	-16.08	151.10	180.08	65.98	1 33 20	3201.5	-19.19	143.78
94.49	1 44 45	3559.34	-16.07	133.36	180.07	65.97	2 44 4	2959.3	-19.18	126.04
100.00	3 41 14	3184.57	-22.85	108.62	182.96	70.18	4 34 18	2584.6	-25.34	100.71
100.00	1 16 10	3651.49	-9.53	136.83	176.76	61.53	2 17 2	3051.5	-13.26	130.03
110.00	6 2 26	2742.49	-31.08	77.96	185.85	74.98	6 48 9	2142.5	-32.82	69.17
110.00	1 11 27	3666.32	-2.16	133.46	172.27	55.88	2 12 34	3066.3	-6.62	127.21

DIFFERENTIAL CORRECTIONS

TDE-1.6230 TRA-2.3068 TC3 -.1234 BAU .1844
RDE 1.6546 RRA 1.5055 RC3 -.3648 FAU .01140
FDE 2.7990 FRA 2.5239 FC3 -.2756 BSP 6611
BDE 2.3177 BRA 2.7546 BC3 .3851 FSP -666

MID-COURSE EXECUTION ACCURACY

SGT 2961.4 SGR 2323.4 SG3 333.2
RRT -.9492 RRF .9946 RTF -.9671
SGB 3764.1 R23 -.1254 R13 .9894
SG1 3718.8 SG2 582.4 THA 142.24

ORBIT DETERMINATION ACCURACY

ST 1727.7 SR 1659.2 SS 1807.9
CRT -.9886 CRS-1.0000 CST .9883
LSA 2993.3 MSA 214.9 SSA 5.5
EL1 2388.5 EL2 180.6 ALF 136.17

LAUNCH DATE SEP 27 1965 FLIGHT TIME 146.00 ARRIVAL DATE FEB 20 1966

DISTANCE 380.853

HELIOCENTRIC CONIC

RL 149.94 LAL .00 LOL 3.68 VL 27.083 GAL 4.30 AZL 78.96 HCA 162.00 SMA 128.01 ECC .18655 INC11.0439 VI 29.717
RP 107.61 LAP 3.39 LOP 165.99 VP 37.814 GAP -5.64 AZP 100.52 TAL 160.61 TAP 322.60 RCA 104.13 APO 151.89 V2 35.216
RC 52.701 GL 51.74 GP -58.36 ZAL 67.49 ZAP 61.57 ETS 58.47 ZAE 109.91 ETE 291.13 ZAC 85.60 ETC 140.48 CLP -24.82

PLANETOCENTRIC CONIC

C3 43.410 VHL 6.589 DLA 32.48 RAL 299.34 RAD 6568.6 VEL 12.836 PTH 2.34 VHP 8.084 DPA -68.68 RAP 9.27 ECC 1.7144

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
73.39	22 44 54	4139.26	-16.53	176.53	181.56	61.64	23 53 53	3539.3	-20.19	169.45
106.61	3 5 17	3318.78	-16.51	115.66	181.55	61.63	4 0 35	2718.8	-20.18	108.59
73.39	22 44 54	4139.26	-16.53	176.53	181.56	61.64	23 53 53	3539.3	-20.19	169.45
106.61	3 5 17	3318.78	-16.51	115.66	181.55	61.63	4 0 35	2718.8	-20.18	108.59
110.00	4 48 4	3001.67	-25.13	95.74	186.08	66.02	5 38 6	2401.7	-28.14	87.87
110.00	2 5 13	3504.36	-8.29	124.93	176.54	56.72	3 3 37	2904.4	-12.61	118.50

DIFFERENTIAL CORRECTIONS

TDE-1.7616 TRA-2.2322 TC3 .0336 BAU .2059
RDE 2.1034 RRA 1.5969 RC3 -.3532 FAU .01189
FDE 2.6937 FRA 2.1354 FC3 -.2371 BSP 11324
BDE 2.7436 BRA 2.7446 BC3 .3548 FSP -838

MID-COURSE EXECUTION ACCURACY

SGT 2764.7 SGR 2504.4 SG3 279.0
RRT -.9547 RRF .9957 RTF -.9707
SGB 3730.4 R23 -.0983 R13 .9932
SG1 3688.4 SG2 558.4 THA 137.96

ORBIT DETERMINATION ACCURACY

ST 1680.3 SR 1894.7 SS 1700.0
CRT -.9873 CRS -.9999 CST .9890
LSA 3042.4 MSA 217.2 SSA 4.0
EL1 2524.4 EL2 200.7 ALF 131.52

LAUNCH DATE SEP 27 1965 FLIGHT TIME 148.00 ARRIVAL DATE FEB 22 1966

DISTANCE 387.406

HELIOCENTRIC CONIC

RL 149.94 LAL .00 LOL 3.68 VL 27.126 GAL 4.19 AZL 76.64 HCA 165.17 SMA 128.29 ECC .18342 INC13.3581 VI 29.717
RP 107.63 LAP 3.39 LOP 169.24 VP 37.837 GAP -5.10 AZP 102.93 TAL 160.72 TAP 325.89 RCA 104.76 APO 151.83 V2 35.208
RC 54.462 GL 56.11 GP -65.24 ZAL 70.82 ZAP 67.47 ETS 60.81 ZAE 103.13 ETE 293.92 ZAC 91.17 ETC 143.85 CLP -23.79

PLANETOCENTRIC CONIC

C3 56.691 VHL 7.529 DLA 36.24 RAL 296.26 RAD 6569.0 VEL 13.344 PTH 2.44 VHP 9.166 DPA -70.45 RAP 29.28 ECC 1.9330

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
66.38	21 50 40	4333.48	-15.82	191.28	183.52	56.96	23 2 53	3733.5	-20.06	184.56
113.62	3 34 55	3257.60	-15.81	110.45	183.51	56.96	4 29 13	2657.6	-20.05	103.73
66.38	21 50 40	4333.48	-15.82	191.28	183.52	56.96	23 2 53	3733.5	-20.06	184.56
113.62	3 34 55	3257.60	-15.81	110.45	183.51	56.96	4 29 13	2657.6	-20.05	103.73
66.38	21 50 40	4333.48	-15.82	191.28	183.52	56.96	23 2 53	3733.5	-20.06	184.56
113.62	3 34 55	3257.60	-15.81	110.45	183.51	56.96	4 29 13	2657.6	-20.05	103.73

DIFFERENTIAL CORRECTIONS

TDE-2.2935 TRA-2.4198 TC3 .0015 BAU .1781
RDE 2.7757 RRA 1.7160 RC3 -.2350 FAU .00548
FDE 2.6354 FRA 1.8249 FC3 -.0837 BSP 12194
BDE 3.6007 BRA 2.9665 BC3 .2350 FSP -710

MID-COURSE EXECUTION ACCURACY

SGT 2873.7 SGR 2684.7 SG3 228.6
RRT -.9570 RRF .9949 RTF -.9772
SGB 3932.7 R23 -.0705 R13 .9962
SG1 3890.4 SG2 575.3 THA 137.03

ORBIT DETERMINATION ACCURACY

ST 1874.9 SR 2167.4 SS 1640.0
CRT -.9891 CRS -.9997 CST .9926
LSA 3294.8 MSA 216.2 SSA 3.1
EL1 2858.1 EL2 209.7 ALF 130.82

LAUNCH DATE SEP 27 1965 FLIGHT TIME 150.00 ARRIVAL DATE FEB 24 1966

HELIOCENTRIC CONIC DISTANCE 393.898

RL 149.94 LAL .00 LOL 3.68 VL 27.164 GAL 4.10 AZL 73.11 HCA 168.31 SMA 128.55 ECC .18071 INC16.8867 V1 29.717
RP 107.66 LAP 3.38 LOP 172.48 VP 37.856 GAP -4.59 AZP 106.56 TAL 160.79 TAP 329.10 RCA 105.32 APO 151.78 V2 35.200
RC 56.291 GL 60.23 GP -72.32 ZAL 74.42 ZAP 73.22 ETS 68.32 ZAE 95.72 ETE 302.15 ZAC 97.41 ETC 153.08 CLP -18.02

PLANETOCENTRIC CONIC

C3 82.217 VHL 9.067 DLA 39.59 RAL 292.49 RAD 6569.6 VEL 14.268 PTH 2.60 VHP 11.046 DPA -69.31 RAP 51.78 ECC 2.3531

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
61.08	21 9 2	4499.12	-13.48	203.16	185.66	52.41	22 24 1	3899.1	-18.27	196.90
118.92	3 46 33	3268.36	-13.47	109.62	185.65	52.41	4 41 1	2668.4	-18.25	103.37
61.08	21 9 2	4499.12	-13.48	203.16	185.66	52.41	22 24 1	3899.1	-18.27	196.90
118.92	3 46 33	3268.36	-13.47	109.62	185.65	52.41	4 41 1	2668.4	-18.25	103.37
61.08	21 9 2	4499.12	-13.48	203.16	185.66	52.41	22 24 1	3899.1	-18.27	196.90
118.92	3 46 33	3268.36	-13.47	109.62	185.65	52.41	4 41 1	2668.4	-18.25	103.37

DIFFERENTIAL CORRECTIONS
TDE-3.5453 TRA-2.9003 TC3 -.0506 BAU .1205
RDE 3.4385 RRA 1.5958 RC3 -.0973 FAU-.00192
FDE 2.5257 FRA 1.5149 FC3 .0202 BSP 12743
BDE 4.9389 BRA 3.3103 BC3 .1096 FSP -548

MID-COURSE EXECUTION ACCURACY
SGT 3268.5 SGR 2542.5 SG3 174.8
RRT -.9583 RRF .3891 RTF -.9881
SGB 4141.0 R23 -.0398 R13 .9983
SG1 4100.2 SG2 579.4 THA 142.42

ORBIT DETERMINATION ACCURACY
ST 2351.1 SR 2207.9 SS 1564.2
CRT -.9916 CRS -.9987 CST .9969
LSA 3578.4 MSA 210.0 SSA 2.4
EL1 3218.6 EL2 208.5 ALF 136.81

LAUNCH DATE SEP 27 1965 FLIGHT TIME 152.00 ARRIVAL DATE FEB 26 1966

HELIOCENTRIC CONIC DISTANCE 400.281

RL 149.94 LAL .00 LOL 3.68 VL 27.197 GAL 4.04 AZL 67.09 HCA 171.37 SMA 128.78 ECC .17845 INC22.9085 V1 29.717
RP 107.69 LAP 3.35 LOP 175.72 VP 37.872 GAP -4.12 AZP 112.68 TAL 160.77 TAP 332.14 RCA 105.80 APO 151.76 V2 35.191
RC 58.184 GL 63.34 GP -78.50 ZAL 78.23 ZAP 78.53 ETS 99.44 ZAE 87.34 ETE 334.22 ZAC 104.78 ETC 186.69 CLP 3.92

PLANETOCENTRIC CONIC

C3 139.644 VHL 11.817 DLA 41.79 RAL 287.90 RAD 6570.5 VEL 16.155 PTH 2.84 VHP 14.518 DPA -64.56 RAP 70.60 ECC 3.2982

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
57.88	20 36 27	4649.08	-9.25	212.45	187.42	49.06	21 53 56	4049.1	-14.43	206.64
122.12	3 42 29	3338.72	-9.24	112.10	187.40	49.06	4 38 7	2738.7	-14.42	106.29
57.88	20 36 27	4649.08	-9.25	212.45	187.42	49.06	21 53 56	4049.1	-14.43	206.64
122.12	3 42 29	3338.72	-9.24	112.10	187.40	49.06	4 38 7	2738.7	-14.42	106.29
57.88	20 36 27	4649.08	-9.25	212.45	187.42	49.06	21 53 56	4049.1	-14.43	206.64
122.12	3 42 29	3338.72	-9.24	112.10	187.40	49.06	4 38 7	2738.7	-14.42	106.29

DIFFERENTIAL CORRECTIONS
TDE-7.1179 TRA-3.8639 TC3 -.1334 BAU .2578
RDE .7943 RRA -.3541 RC3 -.0358 FAU-.01018
FDE 2.4373 FRA 1.2652 FC3 .0631 BSP 13373
BDE 7.1621 BRA 3.8801 BC3 .1781 FSP -402

MID-COURSE EXECUTION ACCURACY
SGT 4280.5 SGR 456.6 SG3 125.1
RRT -.3704 RRF .3828 RTF -.9993
SGB 4304.8 R23 -.0097 R13 .9994
SG1 4283.9 SG2 423.8 THA 177.72

ORBIT DETERMINATION ACCURACY
ST 3532.5 SR 391.3 SS 1514.3
CRT -.9239 CRS -.9274 CST 1.0000
LSA 3860.4 MSA 149.1 SSA 1.8
EL1 3551.0 EL2 148.9 ALF 174.15

LAUNCH DATE SEP 27 1965 FLIGHT TIME 154.00 ARRIVAL DATE FEB 28 1966

HELIOCENTRIC CONIC DISTANCE 406.420

RL 149.94 LAL .00 LOL 3.68 VL 27.226 GAL 4.04 AZL 54.88 HCA 174.24 SMA 128.97 ECC .17678 INC35.1225 V1 29.717
RP 107.72 LAP 3.31 LOP 178.96 VP 37.884 GAP -3.71 AZP 124.99 TAL 160.56 TAP 334.79 RCA 106.17 APO 151.77 V2 35.181
RC 60.133 GL 63.24 GP -77.47 ZAL 82.08 ZAP 83.07 ETS 162.60 ZAE 76.69 ETE 38.01 ZAC 114.94 ETC 253.17 CLP 56.21

PLANETOCENTRIC CONIC

C3 306.199 VHL 17.499 DLA 40.74 RAL 282.58 RAD 6571.8 VEL 20.676 PTH 3.17 VHP 21.794 DPA -55.29 RAP 83.17 ECC 6.0393

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
59.40	20 21 48	4750.09	-3.81	216.45	188.16	49.41	21 40 58	4150.1	-8.98	210.72
120.60	3 14 39	3476.22	-3.79	119.25	188.14	49.41	4 12 35	2876.2	-8.97	113.52
59.40	20 21 48	4750.09	-3.81	216.45	188.16	49.41	21 40 58	4150.1	-8.98	210.72
120.60	3 14 39	3476.22	-3.79	119.25	188.14	49.41	4 12 35	2876.2	-8.97	113.52
59.40	20 21 48	4750.09	-3.81	216.45	188.16	49.41	21 40 58	4150.1	-8.98	210.72
120.60	3 14 39	3476.22	-3.79	119.25	188.14	49.41	4 12 35	2876.2	-8.97	113.52

DIFFERENTIAL CORRECTIONS
TDE-5.7942 TRA-1.5685 TC3 -.1318 BAU 1.0379
RDE-9.6128 RRA-4.8514 RC3 -.2166 FAU-.02406
FDE 2.5898 FRA 1.2100 FC3 .0680 BSP 13466
BDE11.2240 BRA 5.0987 BC3 .2535 FSP -285

MID-COURSE EXECUTION ACCURACY
SGT 2066.7 SGR 3857.0 SG3 88.5
RRT .9712 RRF -.9987 RTF -.9792
SGB 4375.9 R23 -.0139 R13 -.9994
SG1 4354.1 SG2 436.1 THA 62.20

ORBIT DETERMINATION ACCURACY
ST 1908.1 SR 3209.8 SS 1623.9
CRT .9959 CRS .9999 CST .9971
LSA 4069.3 MSA 148.9 SSA 1.8
EL1 3731.2 EL2 148.3 ALF 59.32

LAUNCH DATE SEP 27 1965 FLIGHT TIME 156.00 ARRIVAL DATE MAR 2 1966

HELIOCENTRIC CONIC DISTANCE 411.735

RL 149.94 LAL .00 LOL 3.68 VL 27.252 GAL 4.19 AZL 24.39 HCA 176.41 SMA 129.15 ECC .17642 INC65.6090 V1 29.717
RP 107.75 LAP 3.27 LOP 182.20 VP 37.892 GAP -3.52 AZP 155.57 TAL 159.70 TAP 336.12 RCA 106.36 APO 151.93 V2 35.171
RC 62.133 GL 53.00 GP -60.75 ZAL 85.40 ZAP 86.32 ETS 180.16 ZAE 59.39 ETE 52.98 ZAC 133.47 ETC 275.73 CLP 82.46

PLANETOCENTRIC CONIC

C3 960.749 VHL 30.996 DLA 29.86 RAL 277.84 RAD 6572.9 VEL 32.894 PTH 3.49 VHP 39.171 DPA -36.65 RAP 90.31 ECC16.8115

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
80.11	22 6 56	4462.57	.14	191.23	188.10	60.14	23 21 18	3862.6	-3.84	184.70
99.89	0 51 45	3943.55	.15	153.06	188.09	60.14	1 57 28	3343.6	-3.82	146.53
100.00	1 4 25	3903.08	-1.13	150.79	188.83	60.13	2 9 28	3303.1	-5.10	144.25
100.00	0 40 52	3978.27	1.42	154.91	187.36	60.14	1 47 11	3378.3	-2.56	148.39
110.00	4 9 44	3321.55	-14.94	114.94	197.00	58.89	5 5 5	2721.6	-18.95	108.12
110.00	23 48 7	4132.57	15.24	158.34	179.19	59.03	24 57 0	3532.6	11.02	151.78

DIFFERENTIAL CORRECTIONS
TDE-6.1753 TRA .0104 TC3 -.1081 BAU 3.8650
RDE-15.9465 RRA-8.0167 RC3 -.2808 FAU-.06856
FDE 3.3230 FRA 1.6986 FC3 .0618 BSP 12389
BDE17.1005 BRA 8.0167 BC3 .3009 FSP -223

MID-COURSE EXECUTION ACCURACY
SGT 1323.5 SGR 3826.2 SG3 69.9
RRT .8940 RRF -.9998 RTF -.8933
SGB 4048.6 R23 -.0457 R13 -.9987
SG1 4008.9 SG2 566.0 THA 72.45

ORBIT DETERMINATION ACCURACY
ST 1141.7 SR 2992.4 SS 2111.4
CRT .9851 CRS 1.0000 CST .9846
LSA 3831.5 MSA 188.6 SSA 1.7
EL1 3197.5 EL2 183.6 ALF 69.33

LAUNCH DATE SEP 27 1965 FLIGHT TIME 158.00 ARRIVAL DATE MAR 4 1966

DISTANCE 422.907

HELIOCENTRIC CONIC

RL 149.94 LAL .00 LOL 3.68 VL 27.273 GAL 3.30 AZL 151.38 HCA 183.66 SMA 129.30 ECC .16947 INC61.3804 V1 29.717
RP 107.78 LAP 3.21 LOP 185.43 VP 37.898 GAP -1.86 AZP 28.67 TAL 163.43 TAP 347.08 RCA 107.38 APO 151.21 V2 35.160
RC 64.180 GL -54.90 GP 62.22 ZAL 85.95 ZAP 87.85 ETS 191.31 ZAE 74.25 ETE 310.11 ZAC 103.44 ETC 91.86 CLP 85.38

PLANETOCENTRIC CONIC

C3 853.472 VHL 29.214 DLA -77.26 RAL 299.06 RAD 6572.8 VEL 31.221 PTH 3.47 VHP 37.955 DPA 85.61 RAP 54.25 ECC15.0460

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
14.51	7 22 51	2447.76	.11	82.21	209.03	167.26	8 3 39	1847.8	7.91	80.85
165.49	18 25 8	658.56	.11	283.68	209.05	167.26	18 36 6	58.6	7.91	282.32
14.51	7 22 51	2447.76	.11	82.21	209.03	167.26	8 3 39	1847.8	7.91	80.85
165.49	18 25 8	658.56	.11	283.68	209.05	167.26	18 36 6	58.6	7.91	282.32
14.51	7 22 51	2447.76	.11	82.21	209.03	167.26	8 3 39	1847.8	7.91	80.85
165.49	18 25 8	658.56	.11	283.68	209.05	167.26	18 36 6	58.6	7.91	282.32

DIFFERENTIAL CORRECTIONS

TDE 8.2185 TRA-1.1713 TC3 -.1578 BAU 3.5803
RDE-9.1151 RRA 3.0625 RC3 .2712 FAU-.06063
FDE-2.4307 FRA .6903 FC3 .0615 BSP 12305
BDE12.2731 BRA 3.2789 BC3 .3138 FSP -220

MID-COURSE EXECUTION ACCURACY

SGT 2129.0 SGR 3622.3 SG3 74.0
RRT -.9308 RRF .9972 RTF -.9539
SGB 4201.6 R23 -.0223 R13 .9995
SG1 4146.2 SG2 679.9 THA 119.56

ORBIT DETERMINATION ACCURACY

ST 1642.1 SR 1966.0 SS 1676.2
CRT -.9720 CRS -.9382 CST .9843
LSA 3046.3 MSA 302.7 SSA 1.9
EL1 2544.2 EL2 298.2 ALF 129.72

LAUNCH DATE SEP 27 1965 FLIGHT TIME 160.00 ARRIVAL DATE MAR 6 1966

DISTANCE 428.256

HELIOCENTRIC CONIC

RL 149.94 LAL .00 LOL 3.68 VL 27.292 GAL 3.47 AZL 122.27 HCA 185.89 SMA 129.42 ECC .16942 INC32.2686 V1 29.717
RP 107.81 LAP 3.14 LOP 188.67 VP 37.901 GAP -1.67 AZP 57.87 TAL 162.52 TAP 348.41 RCA 107.50 APO 151.35 V2 35.149
RC 66.268 GL -64.25 GP 79.78 ZAL 82.36 ZAP 86.47 ETS 218.69 ZAE 90.40 ETE 333.60 ZAC 85.92 ETC 115.55 CLP 69.68

PLANETOCENTRIC CONIC

C3 260.742 VHL 16.147 DLA -80.81 RAL 355.49 RAD 6571.5 VEL 19.546 PTH 3.11 VHP 21.201 DPA 74.86 RAP 290.76 ECC 5.2911

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
10.45	11 0 0	2349.29	7.10	83.49	264.33	170.74	11 39 9	1749.3	14.99	82.57
169.55	22 18 13	5836.97	7.10	258.91	264.35	170.74	23 55 30	5237.0	15.00	258.00
10.45	11 0 0	2349.29	7.10	83.49	264.33	170.74	11 39 9	1749.3	14.99	82.57
169.55	22 18 13	5836.97	7.10	258.91	264.35	170.74	23 55 30	5237.0	15.00	258.00
10.45	11 0 0	2349.29	7.10	83.49	264.33	170.74	11 39 9	1749.3	14.99	82.57
169.55	22 18 13	5836.97	7.10	258.91	264.35	170.74	23 55 30	5237.0	15.00	258.00

DIFFERENTIAL CORRECTIONS

TDE-1.7001 TRA-1.6327 TC3 -.1970 BAU .8996
RDE 3.3519 RRA 1.1560 RC3 .1667 FAU-.01657
FDE .8864 FRA .4793 FC3 .0550 BSP 14755
BDE 3.7584 BRA 2.0005 BC3 .2581 FSP -310

MID-COURSE EXECUTION ACCURACY

SGT 3732.6 SGR 2881.7 SG3 97.2
RRT -.9651 RRF .9892 RTF -.9926
SGB 4715.5 R23 -.0212 R13 .9995
SG1 4676.9 SG2 602.3 THA 142.58

ORBIT DETERMINATION ACCURACY

ST 1244.6 SR 1417.3 SS 821.4
CRT -.8825 CRS -.9763 CST .9634
LSA 2006.7 MSA 453.2 SSA 1.3
EL1 1831.0 EL2 453.2 ALF 130.80

LAUNCH DATE SEP 27 1965 FLIGHT TIME 162.00 ARRIVAL DATE MAR 8 1966

DISTANCE 434.322

HELIOCENTRIC CONIC

RL 149.94 LAL .00 LOL 3.68 VL 27.307 GAL 3.52 AZL 110.53 HCA 188.77 SMA 129.53 ECC .16886 INC20.5307 V1 29.717
RP 107.85 LAP 3.06 LOP 191.90 VP 37.901 GAP -1.30 AZP 69.69 TAL 162.18 TAP 350.95 RCA 107.66 APO 151.40 V2 35.138
RC 68.394 GL -63.73 GP 85.64 ZAL 78.25 ZAP 85.65 ETS 282.72 ZAE 99.27 ETE 35.23 ZAC 76.85 ETC 175.22 CLP -2.76

PLANETOCENTRIC CONIC

C3 113.630 VHL 10.660 DLA -76.79 RAL 2.24 RAD 6570.2 VEL 15.329 PTH 2.74 VHP 14.095 DPA 65.32 RAP 288.47 ECC 2.8701

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
15.05	11 35 56	2203.33	16.23	79.06	268.31	166.23	12 12 39	1603.3	23.99	77.40
164.95	22 36 4	5703.94	16.24	258.97	268.33	166.23	24 11 8	5103.9	24.00	257.31
15.05	11 35 56	2203.33	16.23	79.06	268.31	166.23	12 12 39	1603.3	23.99	77.40
164.95	22 36 4	5703.94	16.24	258.97	268.33	166.23	24 11 8	5103.9	24.00	257.31
15.05	11 35 56	2203.33	16.23	79.06	268.31	166.23	12 12 39	1603.3	23.99	77.40
164.95	22 36 4	5703.94	16.24	258.97	268.33	166.23	24 11 8	5103.9	24.00	257.31

DIFFERENTIAL CORRECTIONS

TDE-3.4928 TRA-1.6505 TC3 -.1061 BAU .1624
RDE -.7874 RRA -.9516 RC3 .0129 FAU-.00089
FDE 1.2062 FRA .6323 FC3 .0068 BSP 15165
BDE 3.5805 BRA 1.9052 BC3 .1069 FSP -444

MID-COURSE EXECUTION ACCURACY

SGT 4317.1 SGR 2277.4 SG3 140.1
RRT .9634 RRF -.9747 RTF -.9983
SGB 4881.0 R23 .0093 R13 -.9994
SG1 4850.7 SG2 543.2 THA 27.31

ORBIT DETERMINATION ACCURACY

ST 2209.1 SR 793.6 SS 958.4
CRT .8991 CRS .9188 CST .9989
LSA 2513.8 MSA 330.3 SSA 1.9
EL1 2324.0 EL2 330.3 ALF 18.28

LAUNCH DATE SEP 27 1965 FLIGHT TIME 164.00 ARRIVAL DATE MAR 10 1966

DISTANCE 440.576

HELIOCENTRIC CONIC

RL 149.94 LAL .00 LOL 3.68 VL 27.319 GAL 3.55 AZL 104.68 HCA 191.82 SMA 129.61 ECC .16832 INC14.6846 V1 29.717
RP 107.89 LAP 2.98 LOP 195.13 VP 37.899 GAP -.89 AZP 75.61 TAL 161.98 TAP 353.80 RCA 107.79 APO 151.43 V2 35.126
RC 70.553 GL -60.02 GP 81.69 ZAL 74.12 ZAP 85.64 ETS 320.00 ZAE 105.32 ETE 70.59 ZAC 70.70 ETC 208.05 CLP -58.23

PLANETOCENTRIC CONIC

C3 63.681 VHL 7.980 DLA -72.50 RAL 355.77 RAD 6569.2 VEL 13.603 PTH 2.49 VHP 10.567 DPA 58.72 RAP 288.20 ECC 2.0480

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
19.97	11 20 8	2063.77	24.26	72.88	257.58	160.74	11 54 32	1463.8	31.78	70.21
160.03	22 0 14	5583.90	24.27	257.73	257.61	160.74	23 33 18	4983.9	31.79	255.06
19.97	11 20 8	2063.77	24.26	72.88	257.58	160.74	11 54 32	1463.8	31.78	70.21
160.03	22 0 14	5583.90	24.27	257.73	257.61	160.74	23 33 18	4983.9	31.79	255.06
19.97	11 20 8	2063.77	24.26	72.88	257.58	160.74	11 54 32	1463.8	31.78	70.21
160.03	22 0 14	5583.90	24.27	257.73	257.61	160.74	23 33 18	4983.9	31.79	255.06

DIFFERENTIAL CORRECTIONS

TDE-1.4991 TRA -.7473 TC3 -.0356 BAU .1762
RDE-1.5404 RRA-1.8122 RC3 .2039 FAU .00976
FDE 1.0241 FRA .9108 FC3 -.1326 BSP 15417
BDE 2.1494 BRA 1.9602 BC3 .2070 FSP -636

MID-COURSE EXECUTION ACCURACY

SGT 2084.6 SGR 4478.4 SG3 199.2
RRT .9526 RRF -.9970 RTF -.9696
SGB 4939.8 R23 .0123 R13 -.9990
SG1 4905.8 SG2 578.7 THA 65.73

ORBIT DETERMINATION ACCURACY

ST 1202.1 SR 1705.5 SS 897.5
CRT .9196 CRS .9903 CST .9653
LSA 2237.1 MSA 393.1 SSA 2.6
EL1 2049.2 EL2 393.0 ALF 55.61

LAUNCH DATE SEP 27 1965 FLIGHT TIME 166.00 ARRIVAL DATE MAR 12 1966

HELIOCENTRIC CONIC DISTANCE 446.889

RL 149.94 LAL .00 LOL 3.68 VL 27.328 GAL 3.57 AZL 101.24 HCA 194.94 SMA 129.68 ECC .16794 INCl1.2360 V1 29.717
RP 107.92 LAP 2.88 LOP 198.35 VP 37.895 GAP -.47 AZP 79.13 TAL 161.80 TAP 356.74 RCA 107.90 APO 151.45 V2 35.114
RC 72.741 GL -55.26 GP 76.90 ZAL 70.16 ZAP 86.44 ETS 336.10 ZAE 110.00 ETE 85.22 ZAC 65.76 ETC 219.83 CLP -74.11

PLANETOCENTRIC CONIC

C3 41.831 VHL 6.468 DLA -67.97 RAL 348.89 RAD 6568.6 VEL 12.775 PTH 2.32 VHP 8.528 DPA 53.41 RAP 287.89 ECC 1.6884

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
25.22	11 3 57	1945.64	29.97	65.24	245.38	154.34	11 36 22	1345.6	37.12	61.32
154.78	21 21 36	5493.72	29.98	255.60	245.40	154.34	22 53 10	4893.7	37.12	251.68
25.22	11 3 57	1945.64	29.97	65.24	245.38	154.34	11 36 22	1345.6	37.12	61.32
154.78	21 21 36	5493.72	29.98	255.60	245.40	154.34	22 53 10	4893.7	37.12	251.68
25.22	11 3 57	1945.64	29.97	65.24	245.38	154.34	11 36 22	1345.6	37.12	61.32
154.78	21 21 36	5493.72	29.98	255.60	245.40	154.34	22 53 10	4893.7	37.12	251.68

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.7720 TRA -.2526 TC3 -.1006 BAU .2901 SGT 916.8 SGR 4874.5 SG3 271.0 ST 706.9 SR 1684.9 SS 861.1
RDE-1.0173 RRA-2.0092 RC3 .5090 FAU .01950 RRT .7521 RRF -.9980 RTF -.7762 CRT .7313 CRS .9920 CST .8115
FDE .8407 FRA 1.2710 FC3 -.4035 BSP 15535 SGB 4960.0 R23 .0214 R13 -.9985 LSA 1966.8 MSA 460.5 SSA 3.4
BDE 1.2771 BRA 2.0250 BC3 .5188 FSP -871 SG1 4923.8 SG2 598.1 THA 81.83 EL1 1768.5 EL2 459.4 ALF 71.66

LAUNCH DATE SEP 27 1965 FLIGHT TIME 168.00 ARRIVAL DATE MAR 14 1966

HELIOCENTRIC CONIC DISTANCE 453.217

RL 149.94 LAL .00 LOL 3.68 VL 27.335 GAL 3.60 AZL 98.96 HCA 198.10 SMA 129.72 ECC .16775 INC 8.9645 V1 29.717
RP 107.96 LAP -2.77 LOP 201.57 VP 37.888 GAP -.04 AZP 81.47 TAL 161.60 TAP 359.70 RCA 107.96 APO 151.48 V2 35.101
RC 74.954 GL -50.21 GP 72.53 ZAL 66.45 ZAP 88.00 ETS 346.18 ZAE 113.84 ETE 94.38 ZAC 61.38 ETC 225.81 CLP -83.33

PLANETOCENTRIC CONIC

C3 30.604 VHL 5.532 DLA -63.29 RAL 343.39 RAD 6568.2 VEL 12.328 PTH 2.22 VHP 7.227 DPA 48.78 RAP 287.34 ECC 1.5037

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
30.71	10 54 31	1847.76	33.35	56.67	234.04	147.44	11 25 19	1247.8	39.97	51.48
149.29	20 47 8	5433.91	33.36	253.14	234.06	147.44	22 17 42	4833.9	39.98	247.95
30.71	10 54 31	1847.76	33.35	56.67	234.04	147.44	11 25 19	1247.8	39.97	51.48
149.29	20 47 8	5433.91	33.36	253.14	234.06	147.44	22 17 42	4833.9	39.98	247.95
30.71	10 54 31	1847.76	33.35	56.67	234.04	147.44	11 25 19	1247.8	39.97	51.48
149.29	20 47 8	5433.91	33.36	253.14	234.06	147.44	22 17 42	4833.9	39.98	247.95

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.4850 TRA .0898 TC3 -.2595 BAU .3562 SGT 614.5 SGR 4921.4 SG3 351.5 ST 506.2 SR 1586.6 SS 866.3
RDE -.6503 RRA-2.0780 RC3 .8309 FAU .02911 RRT -.3028 RRF -.9981 RTF .2764 CRT .3100 CRS .9914 CST .4317
FDE .7224 FRA 1.6899 FC3 -.8236 BSP 15573 SGB 4959.6 R23 .0316 R13 -.9979 LSA 1813.7 MSA 484.4 SSA 4.2
BDE .8113 BRA 2.0799 BC3 .8705 FSP -1137 SG1 4925.0 SG2 585.2 THA 92.20 EL1 1595.1 EL2 478.7 ALF 83.79

LAUNCH DATE SEP 27 1965 FLIGHT TIME 170.00 ARRIVAL DATE MAR 16 1966

HELIOCENTRIC CONIC DISTANCE 459.544

RL 149.94 LAL .00 LOL 3.68 VL 27.339 GAL 3.64 AZL 97.35 HCA 201.27 SMA 129.75 ECC .16776 INC 7.3511 V1 29.717
RP 108.00 LAP 2.66 LOP 204.79 VP 37.879 GAP .38 AZP 83.14 TAL 161.39 TAP 2.66 RCA 107.98 APO 151.52 V2 35.089
RC 77.191 GL -45.21 GP 68.47 ZAL 63.05 ZAP 90.22 ETS 353.89 ZAE 117.04 ETE 101.74 ZAC 57.28 ETC 229.68 CLP -90.60

PLANETOCENTRIC CONIC

C3 24.200 VHL 4.919 DLA -58.61 RAL 339.21 RAD 6568.0 VEL 12.066 PTH 2.16 VHP 6.344 DPA 44.54 RAP 286.57 ECC 1.3983

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
36.27	10 51 36	1764.77	34.79	47.81	224.11	140.64	11 21 1	1164.8	40.80	41.53
143.73	20 16 40	5400.22	34.81	250.99	224.13	140.63	21 46 40	4800.2	40.82	244.71
36.27	10 51 36	1764.77	34.79	47.81	224.11	140.64	11 21 1	1164.8	40.80	41.53
143.73	20 16 40	5400.22	34.81	250.99	224.13	140.63	21 46 40	4800.2	40.82	244.71
36.27	10 51 36	1764.77	34.79	47.81	224.11	140.64	11 21 1	1164.8	40.80	41.53
143.73	20 16 40	5400.22	34.81	250.99	224.13	140.63	21 46 40	4800.2	40.82	244.71

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.3398 TRA .3821 TC3 -.4968 BAU .3973 SGT 1061.1 SGR 4838.4 SG3 436.5 ST 471.8 SR 1500.5 SS 901.0
RDE -.4530 RRA-2.0932 RC3 1.1231 FAU .03845 RRT -.8437 RRF -.9980 RTF .8307 CRT -.2143 CRS .9899 CST -.0737
FDE .6786 FRA 2.1474 FC3-1.3756 BSP 15533 SGB 4953.4 R23 .0423 R13 -.9973 LSA 1748.9 MSA 476.5 SSA 5.0
BDE .5663 BRA 2.1278 BC3 1.2281 FSP -1417 SG1 4921.7 SG2 559.9 THA 100.62 EL1 1504.2 EL2 459.6 ALF 94.25

LAUNCH DATE SEP 27 1965 FLIGHT TIME 172.00 ARRIVAL DATE MAR 18 1966

HELIOCENTRIC CONIC DISTANCE 465.860

RL 149.94 LAL .00 LOL 3.68 VL 27.341 GAL 3.69 AZL 96.14 HCA 204.45 SMA 129.77 ECC .16798 INC 6.1413 V1 29.717
RP 108.04 LAP 2.54 LOP 208.01 VP 37.869 GAP .80 AZP 84.41 TAL 161.14 TAP 5.59 RCA 107.97 APO 151.56 V2 35.076
RC 79.446 GL -40.39 GP 64.61 ZAL 59.97 ZAP 93.00 ETS .27 ZAE 119.72 ETE 108.40 ZAC 53.35 ETC 232.52 CLP -97.01

PLANETOCENTRIC CONIC

C3 20.287 VHL 4.504 DLA -54.07 RAL 336.04 RAD 6567.8 VEL 11.902 PTH 2.11 VHP 5.723 DPA 40.54 RAP 285.64 ECC 1.3339

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
41.81	10 54 8	1691.12	34.83	39.12	215.75	134.36	11 22 19	1091.1	40.20	32.06
138.19	19 48 53	5388.48	34.84	249.64	215.76	134.36	21 18 41	4788.5	40.21	242.57
41.81	10 54 8	1691.12	34.83	39.12	215.75	134.36	11 22 19	1091.1	40.20	32.06
138.19	19 48 53	5388.48	34.84	249.64	215.76	134.36	21 18 41	4788.5	40.21	242.57
41.81	10 54 8	1691.12	34.83	39.12	215.75	134.36	11 22 19	1091.1	40.20	32.06
138.19	19 48 53	5388.48	34.84	249.64	215.76	134.36	21 18 41	4788.5	40.21	242.57

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.2428 TRA .6533 TC3 -.7947 BAU .4270 SGT 1616.6 SGR 4672.3 SG3 520.6 ST 525.7 SR 1420.1 SS 950.3
RDE -.3549 RRA-2.0697 RC3 1.3591 FAU .04733 RRT -.9387 RRF -.9977 RTF .9305 CRT -.5802 CRS .9876 CST -.4451
FDE .6994 FRA 2.6181 FC3-2.0198 BSP 15508 SGB 4944.1 R23 .0529 R13 -.9965 LSA 1729.3 MSA 453.4 SSA 5.8
BDE .4301 BRA 2.1704 BC3 1.5744 FSP -1701 SG1 4915.6 SG2 529.6 THA 108.21 EL1 1455.5 EL2 417.8 ALF 103.23

LAUNCH DATE SEP 27 1965 FLIGHT TIME 174.00 ARRIVAL DATE MAR 20 1966

HELIOCENTRIC CONIC DISTANCE 472.162

RL 149.94 LAL .00 LOL 3.68 VL 27.341 GAL 3.76 AZL 95.20 HCA 207.64 SMA 129.76 ECC .16841 INC 5.1959 V1 29.717
RP 108.08 LAP 2.41 LOP 211.22 VP 37.856 GAP 1.22 AZP 85.39 TAL 160.85 TAP 8.49 RCA 107.91 APO 151.62 V2 35.063
RC 81.719 GL -35.86 GP 60.88 ZAL 57.21 ZAP 96.23 ETS 5.71 ZAE 121.92 ETE 114.70 ZAC 49.52 ETC 234.69 CLP-102.89

PLANETOCENTRIC CONIC

C3 17.792 VHL 4.218 DLA -49.72 RAL 333.63 RAD 6567.7 VEL 11.797 PTH 2.09 VHP 5.279 DPA 36.69 RAP 284.63 ECC 1.2928

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
47.25	11 1 11	1622.31	33.89	30.82	208.92	128.85	11 28 13	1022.3	38.66	23.26
132.75	19 22 36	5395.43	33.90	249.37	208.93	128.84	20 52 31	4795.4	38.67	241.81
47.25	11 1 11	1622.31	33.89	30.82	208.92	128.85	11 28 13	1022.3	38.66	23.26
132.75	19 22 36	5395.43	33.90	249.37	208.93	128.84	20 52 31	4795.4	38.67	241.81
47.25	11 1 11	1622.31	33.89	30.82	208.92	128.85	11 28 13	1022.3	38.66	23.26
132.75	19 22 36	5395.43	33.90	249.37	208.93	128.84	20 52 31	4795.4	38.67	241.81

DIFFERENTIAL CORRECTIONS

TDE -.1603 TRA .9112 TC3-1.1318 BAU .4512
RDE -.3100 RRA-2.0169 RC3 1.5221 FAU .05539
FDE .7724 FRA 3.0779 FC3-2.6953 BSP 15498
BDE .3489 BRA 2.2131 BC3 1.8968 FSP -1972

MID-COURSE EXECUTION ACCURACY

SGT 2150.5 SGR 4448.0 SG3 599.2
RRT -.9668 RRF -.9974 RTF .9605
SGB 4940.6 R23 .0627 R13 -.9956
SG1 4915.6 SG2 497.2 THA 115.33

ORBIT DETERMINATION ACCURACY

ST 614.9 SR 1339.8 SS 1006.4
CRT -.7765 CRS .9846 CST -.6544
LSA 1733.5 MSA 425.5 SSA 6.6
EL1 1428.7 EL2 363.4 ALF 111.04

LAUNCH DATE SEP 27 1965 FLIGHT TIME 176.00 ARRIVAL DATE MAR 22 1966

HELIOCENTRIC CONIC DISTANCE 478.446

RL 149.94 LAL .00 LOL 3.68 VL 27.339 GAL 3.83 AZL 94.43 HCA 210.83 SMA 129.75 ECC .16905 INC 4.4328 V1 29.717
RP 108.12 LAP 2.27 LOP 214.43 VP 37.843 GAP 1.64 AZP 86.19 TAL 160.53 TAP 11.36 RCA 107.82 APO 151.68 V2 35.050
RC 84.008 GL -31.62 GP 57.25 ZAL 54.75 ZAP 99.80 ETS 10.37 ZAE 123.67 ETE 120.74 ZAC 45.78 ETC 236.30 CLP-108.33

PLANETOCENTRIC CONIC

C3 16.169 VHL 4.021 DLA -45.63 RAL 331.79 RAD 6567.6 VEL 11.728 PTH 2.07 VHP 4.961 DPA 32.97 RAP 283.62 ECC 1.2661

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
52.59	11 12 20	1554.32	32.35	22.87	203.49	124.13	11 38 15	954.3	36.57	15.04
127.41	18 56 42	5419.36	32.36	250.32	203.50	124.12	20 27 2	4819.4	36.58	242.49
52.59	11 12 20	1554.32	32.35	22.87	203.49	124.13	11 38 15	954.3	36.57	15.04
127.41	18 56 42	5419.36	32.36	250.32	203.50	124.12	20 27 2	4819.4	36.58	242.49
52.59	11 12 20	1554.32	32.35	22.87	203.49	124.13	11 38 15	954.3	36.57	15.04
127.41	18 56 42	5419.36	32.36	250.32	203.50	124.12	20 27 2	4819.4	36.58	242.49

DIFFERENTIAL CORRECTIONS

TDE -.0774 TRA 1.1598 TC3-1.4817 BAU .4712
RDE -.2941 RRA-1.9452 RC3 1.5986 FAU .06198
FDE .8897 FRA 3.5103 FC3-3.3187 BSP 15456
BDE .3041 BRA 2.2647 BC3 2.1796 FSP -2204

MID-COURSE EXECUTION ACCURACY

SGT 2649.0 SGR 4188.0 SG3 668.7
RRT -.9783 RRF -.9970 RTF .9729
SGB 4955.4 R23 .0708 R13 -.9946
SG1 4933.5 SG2 466.1 THA 122.07

ORBIT DETERMINATION ACCURACY

ST 718.4 SR 1261.4 SS 1068.8
CRT -.8809 CRS .9811 CST -.7729
LSA 1758.2 MSA 397.8 SSA 7.5
EL1 1419.8 EL2 302.1 ALF 118.02

LAUNCH DATE SEP 27 1965 FLIGHT TIME 178.00 ARRIVAL DATE MAR 24 1966

HELIOCENTRIC CONIC DISTANCE 484.710

RL 149.94 LAL .00 LOL 3.68 VL 27.335 GAL 3.92 AZL 93.80 HCA 214.02 SMA 129.72 ECC .16988 INC 3.8006 V1 29.717
RP 108.16 LAP 2.13 LOP 217.64 VP 37.828 GAP 2.05 AZP 86.85 TAL 160.17 TAP 14.18 RCA 107.68 APO 151.76 V2 35.036
RC 86.309 GL -27.70 GP 53.70 ZAL 52.57 ZAP 103.59 ETS 14.34 ZAE 124.97 ETE 126.52 ZAC 42.16 ETC 237.38 CLP-113.40

PLANETOCENTRIC CONIC

C3 15.117 VHL 3.888 DLA -41.80 RAL 330.37 RAD 6567.6 VEL 11.683 PTH 2.05 VHP 4.739 DPA 29.37 RAP 282.66 ECC 1.2488

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
57.86	11 27 36	1483.42	30.45	15.10	199.24	120.15	11 52 19	883.4	34.20	7.15
122.14	18 30 8	5459.84	30.46	252.57	199.25	120.14	20 1 8	4859.8	34.21	244.62
57.86	11 27 36	1483.42	30.45	15.10	199.24	120.15	11 52 19	883.4	34.20	7.15
122.14	18 30 8	5459.84	30.46	252.57	199.25	120.14	20 1 8	4859.8	34.21	244.62
57.86	11 27 36	1483.42	30.45	15.10	199.24	120.15	11 52 19	883.4	34.20	7.15
122.14	18 30 8	5459.84	30.46	252.57	199.25	120.14	20 1 8	4859.8	34.21	244.62

DIFFERENTIAL CORRECTIONS

TDE .0091 TRA 1.3971 TC3-1.8248 BAU .4917
ROE -.2859 RRA-1.8553 RC3 1.6095 FAU .06731
FDE 1.0260 FRA 3.8860 FC3-3.8550 BSP 15535
BDE .2860 BRA 2.3225 BC3 2.4332 FSP -2407

MID-COURSE EXECUTION ACCURACY

SGT 3105.2 SGR 3898.2 SG3 724.4
RRT -.9841 RRF -.9964 RTF .9792
SGB 4983.8 R23 .0764 R13 -.9935
SG1 4964.9 SG2 433.6 THA 128.44

ORBIT DETERMINATION ACCURACY

ST 829.8 SR 1178.8 SS 1129.1
CRT -.9395 CRS .9770 CST -.8450
LSA 1793.1 MSA 371.4 SSA 8.4
EL1 1422.2 EL2 235.6 ALF 124.56

LAUNCH DATE SEP 27 1965 FLIGHT TIME 180.00 ARRIVAL DATE MAR 26 1966

HELIOCENTRIC CONIC DISTANCE 490.953

RL 149.94 LAL .00 LOL 3.68 VL 27.329 GAL 4.03 AZL 93.27 HCA 217.21 SMA 129.68 ECC .17092 INC 3.2652 V1 29.717
RP 108.20 LAP 1.97 LOP 220.84 VP 37.811 GAP 2.46 AZP 87.40 TAL 159.76 TAP 16.97 RCA 107.52 APO 151.85 V2 35.023
RC 88.623 GL -24.10 GP 50.27 ZAL 50.63 ZAP 107.52 ETS 17.71 ZAE 125.86 ETE 131.98 ZAC 38.69 ETC 237.92 CLP-118.10

PLANETOCENTRIC CONIC

C3 14.461 VHL 3.803 DLA -38.25 RAL 329.28 RAD 6567.6 VEL 11.655 PTH 2.05 VHP 4.591 DPA 25.89 RAP 281.82 ECC 1.2380

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
63.14	11 47 30	1405.14	28.38	7.19	195.99	116.79	12 10 55	805.1	31.73	359.20
116.86	18 1 35	5518.35	28.39	256.23	196.00	116.78	19 33 33	4918.3	31.74	248.25
63.14	11 47 30	1405.14	28.38	7.19	195.99	116.79	12 10 55	805.1	31.73	359.20
116.86	18 1 35	5518.35	28.39	256.23	196.00	116.78	19 33 33	4918.3	31.74	248.25
63.14	11 47 30	1405.14	28.38	7.19	195.99	116.79	12 10 55	805.1	31.73	359.20
116.86	18 1 35	5518.35	28.39	256.23	196.00	116.78	19 33 33	4918.3	31.74	248.25

DIFFERENTIAL CORRECTIONS

TDE .1015 TRA 1.6244 TC3-2.1426 BAU .5126
ROE -.2798 RRA-1.7556 RC3 1.5619 FAU .07105
FDE 1.1720 FRA 4.1950 FC3-4.2535 BSP 15686
BDE .2976 BRA 2.3918 BC3 2.6515 FSP -2564

MID-COURSE EXECUTION ACCURACY

SGT 3520.0 SGR 3596.2 SG3 764.8
RRT -.9872 RRF -.9956 RTF .9828
SGB 5032.2 R23 .0784 R13 -.9925
SG1 5016.1 SG2 403.0 THA 134.38

ORBIT DETERMINATION ACCURACY

ST 948.6 SR 1095.4 SS 1187.2
CRT -.9728 CRS .9723 CST -.8919
LSA 1840.7 MSA 347.7 SSA 9.3
EL1 1439.4 EL2 167.2 ALF 130.78

LAUNCH DATE SEP 27 1965 FLIGHT TIME 182.00 ARRIVAL DATE MAR 28 1966

HELIOCENTRIC CONIC DISTANCE 497.174

RL 149.94 LAL .00 LOL 3.68 VL 27.322 GAL 4.15 AZL 92.80 HCA 220.40 SMA 129.63 ECC .17217 INC 2.8034 V1 29.717
RP 108.24 LAP 1.82 LOP 224.05 VP 37.793 GAP 2.86 AZP 87.86 TAL 159.32 TAP 19.72 RCA 107.31 APO 151.95 V2 35.010
RC 90.946 GL -20.79 GP 46.96 ZAL 48.91 ZAP 111.48 ETS 20.55 ZAE 126.38 ETE 137.06 ZAC 35.41 ETC 237.88 CLP-122.45

PLANETOCENTRIC CONIC

C3 14.095 VHL 3.754 DLA -34.95 RAL 328.46 RAD 6567.6 VEL 11.640 PTH 2.04 VHP 4.504 DPA 22.56 RAP 281.13 ECC 1.2320

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
68.60	12 13 25	1313.15	26.25	358.64	193.56	113.94	12 35 18	713.2	29.26	350.67
111.40	17 29 8	5599.00	26.26	261.59	193.56	113.93	19 2 27	4999.0	29.26	253.62
68.60	12 13 25	1313.15	26.25	358.64	193.56	113.94	12 35 18	713.2	29.26	350.67
111.40	17 29 8	5599.00	26.26	261.59	193.56	113.93	19 2 27	4999.0	29.26	253.62
68.60	12 13 25	1313.15	26.25	358.64	193.56	113.94	12 35 18	713.2	29.26	350.67
111.40	17 29 8	5599.00	26.26	261.59	193.56	113.93	19 2 27	4999.0	29.26	253.62

DIFFERENTIAL CORRECTIONS
TDE .1997 TRA 1.8427 TC3-2.4219 BAU .5339
RDE -.2720 RRA-1.6520 RC3 1.4708 FAU .07314
FDE 1.3163 FRA 4.4318 FC3-4.4922 BSP 15916
BDE .3374 BRA 2.4748 BC3 2.8336 FSP -2672

MID-COURSE EXECUTION ACCURACY
SGT 3895.0 SGR 3294.4 SG3 789.5
RRT -.9888 RRF -.9946 RTF .9849
SGB 5101.4 R23 .0766 R13 -.9917
SG1 5087.4 SG2 376.5 THA 139.83

ORBIT DETERMINATION ACCURACY
ST 1074.8 SR 1012.4 SS 1241.2
CRT -.9908 CRS .9667 CST -.9234
LSA 1900.9 MSA 327.3 SSA 10.2
EL1 1473.1 EL2 100.2 ALF 136.73

LAUNCH DATE SEP 27 1965 FLIGHT TIME 184.00 ARRIVAL DATE MAR 30 1966

HELIOCENTRIC CONIC DISTANCE 503.372

RL 149.94 LAL .00 LOL 3.68 VL 27.313 GAL 4.28 AZL 92.40 HCA 223.59 SMA 129.57 ECC .17361 INC 2.3987 V1 29.717
RP 108.29 LAP 1.65 LOP 227.24 VP 37.775 GAP 3.27 AZP 88.26 TAL 158.83 TAP 22.42 RCA 107.07 APO 152.06 V2 34.996
RC 93.279 GL -17.77 GP 43.82 ZAL 47.37 ZAP 115.40 ETS 22.32 ZAE 126.57 ETE 141.72 ZAC 32.36 ETC 237.22 CLP-126.48

PLANETOCENTRIC CONIC

C3 13.952 VHL 3.735 DLA -31.90 RAL 327.86 RAD 6567.5 VEL 11.633 PTH 2.04 VHP 4.466 DPA 19.40 RAP 280.60 ECC 1.2296

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
74.65	12 48 53	1194.39	24.14	348.48	191.79	111.52	13 8 47	594.4	26.84	340.55
105.35	16 48 51	5713.27	24.15	269.45	191.80	111.50	18 24 4	5113.3	26.86	261.52
74.65	12 48 53	1194.39	24.14	348.48	191.79	111.52	13 8 47	594.4	26.84	340.55
105.35	16 48 51	5713.27	24.15	269.45	191.80	111.50	18 24 4	5113.3	26.86	261.52
110.00	15 44 27	625.22	16.76	303.03	187.98	120.24	15 54 53	25.2	20.65	296.06
110.00	18 52 27	5330.44	31.99	242.80	194.53	102.74	20 21 17	4730.4	33.41	233.86

DIFFERENTIAL CORRECTIONS
TDE .3036 TRA 2.0537 TC3-2.6535 BAU .5553
RDE -.2610 RRA-1.5492 RC3 1.3502 FAU .07358
FDE 1.4506 FRA 4.5977 FC3-4.5656 BSP 16188
BDE .4004 BRA 2.5725 BC3 2.9773 FSP -2726

MID-COURSE EXECUTION ACCURACY
SGT 4232.9 SGR 3002.2 SG3 799.4
RRT -.9894 RRF -.9931 RTF .9863
SGB 5189.5 R23 .0710 R13 -.9909
SG1 5177.2 SG2 356.1 THA 144.75

ORBIT DETERMINATION ACCURACY
ST 1208.2 SR 930.8 SS 1289.7
CRT -.9987 CRS .9600 CST -.9451
LSA 1973.1 MSA 310.4 SSA 11.0
EL1 1524.7 EL2 38.0 ALF 142.40

LAUNCH DATE SEP 27 1965 FLIGHT TIME 186.00 ARRIVAL DATE APR 1 1966

HELIOCENTRIC CONIC DISTANCE 509.546

RL 149.94 LAL .00 LOL 3.68 VL 27.302 GAL 4.42 AZL 92.04 HCA 226.78 SMA 129.50 ECC .17526 INC 2.0390 V1 29.717
RP 108.33 LAP 1.49 LOP 230.44 VP 37.755 GAP 3.67 AZP 88.60 TAL 158.31 TAP 25.09 RCA 106.80 APO 152.19 V2 34.983
RC 95.621 GL -15.01 GP 40.85 ZAL 45.99 ZAP 119.23 ETS 24.91 ZAE 126.49 ETE 145.91 ZAC 29.58 ETC 235.87 CLP-130.20

PLANETOCENTRIC CONIC

C3 13.988 VHL 3.740 DLA -29.09 RAL 327.43 RAD 6567.6 VEL 11.635 PTH 2.04 VHP 4.468 DPA 16.42 RAP 280.27 ECC 1.2302

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
83.03	13 49 25	997.12	22.09	332.91	190.58	109.43	14 6 2	397.1	24.54	325.04
96.97	15 44 55	623.65	22.10	305.53	190.59	109.42	15 55 18	23.7	24.55	297.65
100.00	15 10 30	734.17	17.87	311.88	188.78	114.37	15 22 44	134.2	21.01	304.50
100.00	17 6 31	5649.88	26.45	265.52	192.04	104.46	18 40 41	5049.9	28.18	257.15
110.00	14 57 11	776.07	11.41	311.44	185.17	122.44	15 10 7	176.1	15.61	304.85
110.00	19 36 19	5180.75	33.68	231.45	193.56	96.23	21 2 40	4580.7	34.17	222.25

DIFFERENTIAL CORRECTIONS
TDE .4138 TRA 2.2605 TC3-2.8312 BAU .5759
RDE -.2478 RRA-1.4514 RC3 1.2111 FAU .07239
FDE 1.5731 FRA 4.7019 FC3-4.4805 BSP 16461
BDE .4823 BRA 2.6864 BC3 3.0793 FSP -2722

MID-COURSE EXECUTION ACCURACY
SGT 4537.8 SGR 2727.6 SG3 796.5
RRT -.9892 RRF -.9913 RTF .9871
SGB 5294.5 R23 .0632 R13 -.9903
SG1 5283.3 SG2 343.8 THA 149.12

ORBIT DETERMINATION ACCURACY
ST 1348.8 SR 853.0 SS 1333.7
CRT -.9995 CRS .9521 CST -.9602
LSA 2058.4 MSA 297.2 SSA 11.8
EL1 1595.7 EL2 23.2 ALF 147.70

LAUNCH DATE SEP 27 1965 FLIGHT TIME 188.00 ARRIVAL DATE APR 3 1966

HELIOCENTRIC CONIC DISTANCE 515.695

RL 149.94 LAL .00 LOL 3.68 VL 27.291 GAL 4.59 AZL 91.72 HCA 229.96 SMA 129.42 ECC .17712 INC 1.7153 V1 29.717
RP 108.37 LAP 1.31 LOP 233.63 VP 37.735 GAP 4.07 AZP 88.90 TAL 157.75 TAP 27.71 RCA 106.50 APO 152.34 V2 34.970
RC 97.969 GL -12.49 GP 38.07 ZAL 44.74 ZAP 122.91 ETS 26.58 ZAE 126.21 ETE 149.63 ZAC 27.11 ETC 233.80 CLP-133.64

PLANETOCENTRIC CONIC

C3 14.177 VHL 3.765 DLA -26.50 RAL 327.16 RAD 6567.6 VEL 11.643 PTH 2.04 VHP 4.506 DPA 13.64 RAP 280.14 ECC 1.2333

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	13 17 11	1104.65	13.99	337.30	187.33	114.87	13 35 36	504.7	17.23	330.12
90.00	16 14 55	5810.06	26.53	277.31	191.56	100.29	17 51 45	5210.1	27.68	268.83
100.00	14 8 20	939.44	11.71	324.01	186.18	117.70	14 24 0	339.4	15.33	317.09
100.00	18 6 27	5450.51	29.04	251.29	192.00	97.41	19 37 18	4850.5	29.76	242.56
110.00	14 25 3	887.00	7.29	317.39	183.53	123.49	14 39 50	287.0	11.65	311.00
110.00	20 6 14	5075.72	34.16	223.29	192.46	91.43	21 30 50	4475.7	33.98	214.05

DIFFERENTIAL CORRECTIONS
TDE .5261 TRA 2.4604 TC3-2.9645 BAU .5977
RDE -.2292 RRA-1.3576 RC3 1.0751 FAU .07039
FDE 1.6691 FRA 4.7415 FC3-4.2986 BSP 16850
BDE .5739 BRA 2.8101 BC3 3.1534 FSP -2695

MID-COURSE EXECUTION ACCURACY
SGT 4809.0 SGR 2471.0 SG3 782.1
RRT -.9883 RRF -.9889 RTF .9876
SGB 5406.8 R23 .0528 R13 -.9898
SG1 5396.3 SG2 336.0 THA 152.96

ORBIT DETERMINATION ACCURACY
ST 1490.2 SR 775.8 SS 1366.0
CRT -.9948 CRS .9417 CST -.9707
LSA 2146.2 MSA 286.9 SSA 12.4
EL1 1678.6 EL2 70.2 ALF 152.57

LAUNCH DATE SEP 27 1965 FLIGHT TIME 190.00 ARRIVAL DATE APR 5 1966

HELIOCENTRIC CONIC DISTANCE 521.820

RL 149.94 LAL .00 LOL 3.68 VL 27.278 GAL 4.76 AZL 91.42 HCA 233.15 SMA 129.33 ECC .17920 INC 1.4208 V1 29.717
RP 108.41 LAP 1.14 LOP 236.82 VP 37.714 GAP 4.48 AZP 89.15 TAL 157.16 TAP 30.30 RCA 106.15 APO 152.51 V2 34.957
RC 100.323 GL -10.20 GP 35.50 ZAL 43.60 ZAP 126.42 ETS 28.00 ZAE 125.76 ETE 152.91 ZAC 24.98 ETC 230.97 CLP-136.82

PLANETOCENTRIC CONIC

C3 14.500 VHL 3.808 DLA -24.11 RAL 327.00 RAD 6567.6 VEL 11.657 PTH 2.05 VHP 4.574 DPA 11.07 RAP 280.20 ECC 1.2386

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 30 27	1267.05	9.15	346.77	185.77	116.91	12 51 34	667.1	12.69	339.88
90.00	17 0 25	5657.63	27.91	266.37	191.39	94.98	18 34 43	5057.6	28.31	257.73
100.00	13 31 43	1069.27	7.50	331.35	184.89	119.02	13 49 33	469.3	11.32	324.64
100.00	18 41 51	5330.64	29.77	242.46	191.54	92.82	20 10 41	4730.6	29.84	233.66
110.00	14 0 27	979.19	3.80	322.25	182.61	124.00	14 16 46	379.2	8.24	315.97
110.00	20 29 36	4993.49	34.11	216.87	191.56	87.63	21 52 50	4393.5	33.41	207.70

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE .6417 TRA 2.6571 TC3-3.0506 BAU .6190 SGT 5051.4 SGR 2236.9 SG3 759.1 ST 1632.2 SR 702.5 SS 1389.8
RDE -.2079 RRA-1.2711 RC3 .9427 FAU .06749 RRT -.9866 RRF -.9858 RTF .9879 CRT -.9852 CRS .9285 CST -.9782
FDE 1.7434 FRA 4.7335 FC3-4.0293 BSP 17270 SGB 5524.5 R23 .0421 R13 -.9894 LSA 2238.5 MSA 279.3 SSA 12.8
BDE .6745 BRA 2.9455 BC3 3.1930 FSP -2637 SG1 5514.4 SG2 334.3 THA 156.31 EL1 1773.5 EL2 110.8 ALF 156.93

LAUNCH DATE SEP 27 1965 FLIGHT TIME 192.00 ARRIVAL DATE APR 7 1966

HELIOCENTRIC CONIC DISTANCE 527.917

RL 149.94 LAL .00 LOL 3.68 VL 27.264 GAL 4.96 AZL 91.15 HCA 236.33 SMA 129.24 ECC .18149 INC 1.1500 V1 29.717
RP 108.44 LAP .96 LOP 240.01 VP 37.692 GAP 4.88 AZP 89.36 TAL 156.52 TAP 32.86 RCA 105.78 APO 152.69 V2 34.945
RC 102.682 GL -8.11 GP 33.13 ZAL 42.54 ZAP 129.74 ETS 29.21 ZAE 125.22 ETE 155.76 ZAC 23.21 ETC 227.38 CLP-139.77

PLANETOCENTRIC CONIC

C3 14.947 VHL 3.866 DLA -21.91 RAL 326.95 RAD 6567.6 VEL 11.676 PTH 2.05 VHP 4.667 DPA 8.70 RAP 280.45 ECC 1.2460

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 58 48	1385.25	5.45	353.48	185.04	117.83	12 21 53	785.2	9.13	346.73
90.00	17 31 42	5552.96	28.29	258.74	191.17	91.18	19 4 15	4953.0	28.16	250.08
100.00	13 4 40	1172.69	4.05	337.09	184.27	119.64	13 24 12	572.7	7.97	330.49
100.00	19 8 32	5240.75	29.89	235.78	191.17	89.31	20 35 53	4640.7	29.47	227.00
110.00	13 40 39	1059.86	.72	326.46	182.20	124.18	13 58 19	459.9	5.20	320.24
110.00	20 49 2	4926.34	33.80	211.65	190.93	84.56	22 11 8	4326.3	32.68	202.60

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE .7611 TRA 2.8532 TC3-3.0933 BAU .6394 SGT 5269.2 SGR 2026.4 SG3 730.2 ST 1773.9 SR 634.3 SS 1406.5
RDE -.1850 RRA-1.1928 RC3 .8190 FAU .06393 RRT -.9841 RRF -.9820 RTF .9880 CRT -.9707 CRS .9119 CST -.9836
FDE 1.7992 FRA 4.6898 FC3-3.7027 BSP 17695 SGB 5645.4 R23 .0322 R13 -.9890 LSA 2335.0 MSA 273.7 SSA 13.2
BDE .7833 BRA 3.0925 BC3 3.1999 FSP -2553 SG1 5635.3 SG2 336.9 THA 159.19 EL1 1878.4 EL2 143.8 ALF 160.74

LAUNCH DATE SEP 27 1965 FLIGHT TIME 194.00 ARRIVAL DATE APR 9 1966

HELIOCENTRIC CONIC DISTANCE 533.988

RL 149.94 LAL .00 LOL 3.68 VL 27.249 GAL 5.17 AZL 90.90 HCA 239.51 SMA 129.13 ECC .18401 INC .8989 V1 29.717
RP 108.48 LAP .77 LOP 243.19 VP 37.670 GAP 5.29 AZP 89.54 TAL 155.86 TAP 35.37 RCA 105.37 APO 152.90 V2 34.932
RC 105.043 GL -6.21 GP 30.96 ZAL 41.56 ZAP 132.87 ETS 30.29 ZAE 124.60 ETE 158.22 ZAC 21.82 ETC 223.08 CLP-142.51

PLANETOCENTRIC CONIC

C3 15.512 VHL 3.939 DLA -19.87 RAL 327.00 RAD 6567.6 VEL 11.700 PTH 2.06 VHP 4.783 DPA 6.54 RAP 280.89 ECC 1.2553

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 34 29	1482.98	2.32	358.96	184.83	118.23	11 59 12	883.0	6.07	352.29
90.00	17 56 22	5471.91	28.26	252.81	191.08	88.21	19 27 34	4871.9	27.72	244.19
100.00	12 43 11	1261.29	1.06	341.96	184.13	119.88	13 4 12	661.3	5.02	335.42
100.00	19 30 22	5168.83	29.71	230.44	191.01	86.50	20 56 31	4568.8	28.91	221.73
110.00	13 24 16	1132.51	-2.05	330.25	182.18	124.13	13 43 9	532.5	2.44	324.05
110.00	21 5 45	4870.37	33.35	207.35	190.58	82.04	22 26 56	4270.4	31.90	198.42

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE .8862 TRA 3.0523 TC3-3.0907 BAU .6574 SGT 5466.4 SGR 1839.7 SG3 697.8 ST 1916.7 SR 572.6 SS 1419.1
RDE -.1622 RRA-1.1238 RC3 .7033 FAU .05968 RRT -.9805 RRF -.9773 RTF .9879 CRT -.9513 CRS .8913 CST -.9876
FDE 1.8422 FRA 4.6244 FC3-3.3305 BSP 18052 SGB 5767.7 R23 .0243 R13 -.9886 LSA 2437.7 MSA 269.6 SSA 13.4
BDE .9009 BRA 3.2526 BC3 3.1697 FSP -2440 SG1 5757.4 SG2 343.1 THA 161.67 EL1 1993.2 EL2 169.8 ALF 164.02

LAUNCH DATE SEP 27 1965 FLIGHT TIME 196.00 ARRIVAL DATE APR 11 1966

HELIOCENTRIC CONIC DISTANCE 540.030

RL 149.94 LAL .00 LOL 3.68 VL 27.233 GAL 5.40 AZL 90.66 HCA 242.69 SMA 129.02 ECC .18677 INC .6637 V1 29.717
RP 108.52 LAP .59 LOP 246.37 VP 37.647 GAP 5.70 AZP 89.70 TAL 155.16 TAP 37.86 RCA 104.93 APO 153.12 V2 34.920
RC 107.406 GL -4.48 GP 28.98 ZAL 40.64 ZAP 135.81 ETS 31.26 ZAE 123.95 ETE 160.35 ZAC 20.84 ETC 218.22 CLP-145.05

PLANETOCENTRIC CONIC

C3 16.195 VHL 4.024 DLA -18.00 RAL 327.12 RAD 6567.6 VEL 11.729 PTH 2.07 VHP 4.919 DPA 4.57 RAP 281.50 ECC 1.2665

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 14 48	1568.18	-.43	3.71	185.00	118.31	11 40 57	968.2	3.36	357.08
90.00	18 17 1	5406.23	28.03	248.02	191.20	85.82	19 47 8	4806.2	27.16	239.47
100.00	12 25 31	1340.03	-1.62	346.28	184.34	119.85	12 47 51	740.0	2.37	339.76
100.00	19 49 0	5109.61	29.38	226.07	191.06	84.23	21 14 10	4509.6	28.27	217.44
110.00	13 10 29	1199.14	-4.59	333.74	182.49	123.91	13 30 28	599.1	-.11	327.53
110.00	21 20 32	4823.26	32.85	203.76	190.50	79.98	22 40 55	4223.3	31.12	194.97

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE 1.0110 TRA 3.2498 TC3-3.0631 BAU .6760 SGT 5640.8 SGR 1672.8 SG3 662.6 ST 2051.3 SR 515.2 SS 1421.5
RDE -.1372 RRA-1.0611 RC3 .6045 FAU .05553 RRT -.9759 RRF -.9715 RTF .9878 CRT -.9251 CRS .8643 CST -.9905
FDE 1.8630 FRA 4.5340 FC3-2.9682 BSP 18484 SGB 5883.6 R23 .0172 R13 -.9882 LSA 2534.2 MSA 266.8 SSA 13.6
BDE 1.0203 BRA 3.4187 BC3 3.1222 FSP -2330 SG1 5873.1 SG2 350.3 THA 163.80 EL1 2106.4 EL2 190.5 ALF 166.81

LAUNCH DATE SEP 27 1965 FLIGHT TIME 198.00 ARRIVAL DATE APR 13 1966

HELIOCENTRIC CONIC DISTANCE 546.042

RL 149.94 LAL .00 LOL 3.68 VL 27.217 GAL 5.64 AZL 90.44 HCA 245.87 SMA 128.91 ECC .18978 INC .4416 V1 29.717
RP 108.56 LAP .40 LOP 249.55 VP 37.624 GAP 6.12 AZP 89.82 TAL 154.44 TAP 40.31 RCA 104.45 APO 153.38 V2 34.909
RC 109.770 GL -2.90 GP 27.17 ZAL 39.78 ZAP 138.57 ETS 32.17 ZAE 123.29 ETE 162.17 ZAC 20.26 ETC 212.99 CLP-147.43

PLANETOCENTRIC CONIC

C3 16.996 VHL 4.123 DLA -16.26 RAL 327.31 RAD 6567.7 VEL 11.763 PTH 2.08 VHP 5.073 DPA 2.79 RAP 282.27 ECC 1.2797

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 58 25	1644.71	-2.90	7.98	185.49	118.18	11 25 50	1044.7	.89	1.35
90.00	18 34 55	5351.82	27.70	244.08	191.51	83.87	20 4 7	4751.8	26.56	235.60
100.00	12 10 39	1411.64	-4.04	350.22	184.86	119.64	12 34 11	811.6	-.06	343.69
100.00	20 5 22	5060.13	28.99	222.45	191.33	82.36	21 29 42	4460.1	27.63	213.91
110.00	12 58 43	1261.06	-6.93	337.01	183.07	123.56	13 19 44	661.1	-2.48	330.76
110.00	21 33 48	4783.47	32.34	200.77	190.67	78.28	22 53 31	4183.5	30.39	192.10

DIFFERENTIAL CORRECTIONS
TDE 1.1390 TRA 3.4508 TC3-3.0061 BAU .6931
RDE -.1121 RRA-1.0059 RC3 .5177 FAU .05126
FDE 1.8715 FRA 4.4324 FC3-2.6111 BSP 18903
BDE 1.1445 BRA 3.5944 BC3 3.0504 FSP -2215

MID-COURSE EXECUTION ACCURACY
SGT 5797.2 SGR 1525.5 SG3 626.5
RRT -.9702 RRF -.9645 RTF .9875
SGB 5994.6 R23 .0114 R13 -.9878
SG1 5983.8 SG2 358.3 THA 165.63

ORBIT DETERMINATION ACCURACY
ST 2181.2 SR 464.0 SS 1418.7
CRT -.8916 CRS .8304 CST -.9926
LSA 2629.7 MSA 264.7 SSA 13.7
EL1 2220.5 EL2 206.4 ALF 169.17

LAUNCH DATE SEP 27 1965 FLIGHT TIME 200.00 ARRIVAL DATE APR 15 1966

HELIOCENTRIC CONIC DISTANCE 552.023

RL 149.94 LAL .00 LOL 3.68 VL 27.199 GAL 5.91 AZL 90.23 HCA 249.05 SMA 128.79 ECC .19306 INC .2306 V1 29.717
RP 108.59 LAP .22 LOP 252.73 VP 37.601 GAP 6.55 AZP 89.92 TAL 153.69 TAP 42.74 RCA 103.93 APO 153.66 V2 34.897
RC 112.133 GL -1.48 GP 25.54 ZAL 38.95 ZAP 141.14 ETS 33.05 ZAE 122.63 ETE 163.74 ZAC 20.06 ETC 207.63 CLP-149.66

PLANETOCENTRIC CONIC

C3 17.920 VHL 4.233 DLA -14.66 RAL 327.56 RAD 6567.7 VEL 11.803 PTH 2.09 VHP 5.245 DPA 1.19 RAP 283.19 ECC 1.2949

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 44 32	1714.78	-5.14	11.91	186.22	117.88	11 13 7	1114.8	-1.37	5.26
90.00	18 50 47	5306.29	27.32	240.80	192.02	82.26	20 19 14	4706.3	25.97	232.39
100.00	11 57 59	1477.76	-6.25	353.88	185.62	119.29	12 22 37	877.8	-2.30	347.32
100.00	20 20 1	5018.54	28.57	219.42	191.81	80.82	21 43 39	4418.5	27.01	210.97
110.00	12 48 37	1319.18	-9.11	340.10	183.87	123.09	13 10 36	719.2	-4.69	333.80
110.00	21 45 52	4749.89	31.85	198.27	191.06	76.88	23 5 2	4149.9	29.72	189.71

DIFFERENTIAL CORRECTIONS
TDE 1.2700 TRA 3.6561 TC3-2.9254 BAU .7088
RDE -.0871 RRA -.9575 RC3 .4424 FAU .04700
FDE 1.8697 FRA 4.3247 FC3-2.2706 BSP 19308
BDE 1.2730 BRA 3.7794 BC3 2.9587 FSP -2098

MID-COURSE EXECUTION ACCURACY
SGT 5937.4 SGR 1395.9 SG3 590.5
RRT -.9631 RRF -.9563 RTF .9872
SGB 6099.3 R23 .0070 R13 -.9874
SG1 6088.3 SG2 366.5 THA 167.19

ORBIT DETERMINATION ACCURACY
ST 2305.4 SR 418.9 SS 1411.4
CRT -.8491 CRS .7881 CST -.9942
LSA 2722.7 MSA 263.0 SSA 13.7
EL1 2333.0 EL2 218.7 ALF 171.15

LAUNCH DATE SEP 27 1965 FLIGHT TIME 202.00 ARRIVAL DATE APR 17 1966

HELIOCENTRIC CONIC DISTANCE 557.971

RL 149.94 LAL .00 LOL 3.68 VL 27.181 GAL 6.19 AZL 90.03 HCA 252.22 SMA 128.67 ECC .19661 INC .0252 V1 29.717
RP 108.63 LAP .03 LOP 255.91 VP 37.577 GAP 6.98 AZP 89.99 TAL 152.91 TAP 45.13 RCA 103.37 APO 153.96 V2 34.886
RC 114.493 GL -.18 GP 24.06 ZAL 38.15 ZAP 143.55 ETS 33.94 ZAE 122.00 ETE 165.08 ZAC 20.23 ETC 202.41 CLP-151.75

PLANETOCENTRIC CONIC

C3 18.975 VHL 4.356 DLA -13.18 RAL 327.86 RAD 6567.8 VEL 11.847 PTH 2.10 VHP 5.432 DPA -.24 RAP 284.24 ECC 1.3123

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 32 37	1779.83	-7.20	15.58	187.18	117.46	11 2 17	1179.8	-3.47	8.89
90.00	19 5 5	5268.05	26.94	238.07	192.71	80.94	20 32 53	4668.1	25.42	229.73
100.00	11 47 5	1539.53	-8.29	357.32	186.59	118.82	12 12 45	939.5	-4.38	350.72
100.00	20 33 17	4983.58	28.17	216.90	192.47	79.55	21 56 21	4383.6	26.44	208.53
110.00	12 39 53	1374.16	-11.14	343.07	184.88	122.53	13 2 48	774.2	-6.77	336.70
110.00	21 56 58	4721.72	31.40	196.20	191.66	75.73	23 15 40	4121.7	29.12	187.74

DIFFERENTIAL CORRECTIONS
TDE 1.4046 TRA 3.8670 TC3-2.8252 BAU .7231
RDE -.0625 RRA -.9151 RC3 .3775 FAU .04283
FDE 1.8605 FRA 4.2150 FC3-1.9540 BSP 19687
BDE 1.4059 BRA 3.9738 BC3 2.8503 FSP -1980

MID-COURSE EXECUTION ACCURACY
SGT 6063.1 SGR 1281.8 SG3 555.3
RRT -.9546 RRF -.9468 RTF .9869
SGB 6197.1 R23 .0037 R13 -.9870
SG1 6185.8 SG2 374.2 THA 168.55

ORBIT DETERMINATION ACCURACY
ST 2423.8 SR 380.0 SS 1400.8
CRT -.7968 CRS .7364 CST -.9955
LSA 2812.9 MSA 261.6 SSA 13.7
EL1 2442.8 EL2 227.8 ALF 172.82

LAUNCH DATE SEP 27 1965 FLIGHT TIME 204.00 ARRIVAL DATE APR 19 1966

HELIOCENTRIC CONIC DISTANCE 563.883

RL 149.94 LAL .00 LOL 3.68 VL 27.162 GAL 6.50 AZL 89.83 HCA 255.40 SMA 128.54 ECC .20046 INC .1655 V1 29.717
RP 108.66 LAP -.16 LOP 259.08 VP 37.554 GAP 7.42 AZP 90.04 TAL 152.11 TAP 47.50 RCA 102.77 APO 154.31 V2 34.875
RC 116.852 GL 1.00 GP 22.71 ZAL 37.39 ZAP 145.81 ETS 34.84 ZAE 121.39 ETE 166.24 ZAC 20.72 ETC 197.52 CLP-153.72

PLANETOCENTRIC CONIC

C3 20.170 VHL 4.491 DLA -11.81 RAL 328.20 RAD 6567.8 VEL 11.898 PTH 2.11 VHP 5.634 DPA -1.53 RAP 285.42 ECC 1.3319

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 22 18	1840.83	-9.10	19.06	188.33	116.93	10 52 59	1240.8	-5.41	12.31
90.00	19 18 6	5236.00	26.58	235.79	193.56	79.86	20 45 22	4636.0	24.91	227.52
100.00	11 37 38	1597.75	-10.19	.61	187.75	118.25	12 4 16	997.7	-6.33	353.94
100.00	20 45 27	4954.31	27.79	214.81	193.30	78.51	22 8 1	4354.3	25.92	206.51
110.00	12 32 19	1426.50	-13.04	345.93	186.07	121.88	12 56 6	826.5	-8.73	339.48
110.00	22 7 15	4698.32	30.99	194.50	192.43	74.80	23 25 34	4098.3	28.59	186.12

DIFFERENTIAL CORRECTIONS
TDE 1.5460 TRA 4.0885 TC3-2.7021 BAU .7337
RDE -.0391 RRA -.8788 RC3 .3199 FAU .03857
FDE 1.8497 FRA 4.1104 FC3-1.6555 BSP 19960
BDE 1.5465 BRA 4.1819 BC3 2.7210 FSP -1856

MID-COURSE EXECUTION ACCURACY
SGT 6178.8 SGR 1182.0 SG3 521.9
RRT -.9448 RRF -.9359 RTF .9864
SGB 6290.8 R23 .0014 R13 -.9865
SG1 6279.2 SG2 381.2 THA 169.72

ORBIT DETERMINATION ACCURACY
ST 2539.9 SR 347.4 SS 1390.1
CRT -.7350 CRS .6760 CST -.9965
LSA 2904.5 MSA 260.2 SSA 13.7
EL1 2552.8 EL2 234.3 ALF 174.21

LAUNCH DATE SEP 27 1965 FLIGHT TIME 206.00 ARRIVAL DATE APR 21 1966

DISTANCE 569.758

HELIOCENTRIC CONIC

RL 149.94 LAL .00 LOL 3.68 VL 27.143 GAL 6.83 AZL 89.64 HCA 258.57 SMA 128.41 ECC .20462 INC .3548 V1 29.717
RP 108.69 LAP -.35 LOP 262.25 VP 37.530 GAP 7.87 AZP 90.07 TAL 151.28 TAP 49.85 RCA 102.13 APO 154.68 V2 34.865
RC 119.206 GL 2.06 GP 21.49 ZAL 36.65 ZAP 147.92 ETS 35.80 ZAE 120.80 ETE 167.23 ZAC 21.43 ETC 193.10 CLP-155.59

PLANETOCENTRIC CONIC

C3 21.517 VHL 4.639 DLA -10.55 RAL 328.57 RAD 6567.9 VEL 11.954 PTH 2.13 VHP 5.852 DPA -2.67 RAP 286.71 ECC 1.3541

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 13 19	1898.49	-10.86	22.38	189.64	116.31	10 44 58	1298.5	-7.24	15.57
90.00	19 30 5	5209.33	26.25	233.91	194.57	78.97	20 56 54	4609.3	24.46	225.70
100.00	11 29 25	1653.01	-11.95	3.76	189.07	117.60	11 56 58	1053.0	-8.16	357.02
100.00	20 56 41	4930.05	27.45	213.09	194.30	77.67	22 18 51	4330.1	25.47	204.85
110.00	12 25 44	1476.62	-14.82	348.72	187.41	121.16	12 50 21	876.6	-10.58	342.18
110.00	22 16 50	4679.21	30.64	193.12	193.37	74.05	23 34 49	4079.2	28.15	184.81

DIFFERENTIAL CORRECTIONS

TDE 1.6872 TRA 4.3136 TC3-2.5744 BAU .7447
RDE -.0152 RRA -.8463 RC3 .2726 FAU .03474
FDE 1.8292 FRA 4.0037 FC3-1.3977 BSP 20309
BDE 1.6873 BRA 4.3959 BC3 2.5888 FSP -1747

MID-COURSE EXECUTION ACCURACY

SGT 6278.6 SGR 1093.1 SG3 489.4
RRT -.9334 RRF -.9236 RTF .9860
SGB 6373.1 R23 -.0006 R13 -.9860
SG1 6361.3 SG2 387.3 THA 170.74

ORBIT DETERMINATION ACCURACY

ST 2644.2 SR 319.6 SS 1373.9
CRT -.6606 CRS .6034 CST -.9972
LSA 2985.7 MSA 258.8 SSA 13.7
EL1 2652.7 EL2 239.2 ALF 175.40

LAUNCH DATE SEP 27 1965 FLIGHT TIME 208.00 ARRIVAL DATE APR 23 1966

DISTANCE 575.591

HELIOCENTRIC CONIC

RL 149.94 LAL .00 LOL 3.68 VL 27.122 GAL 7.19 AZL 89.46 HCA 261.74 SMA 128.27 ECC .20913 INC .5400 V1 29.717
RP 108.72 LAP -.53 LOP 265.42 VP 37.507 GAP 8.33 AZP 90.08 TAL 150.44 TAP 52.18 RCA 101.45 APO 155.10 V2 34.856
RC 121.557 GL 3.03 GP 20.39 ZAL 35.94 ZAP 149.90 ETS 36.83 ZAE 120.25 ETE 168.10 ZAC 22.48 ETC 189.22 CLP-157.37

PLANETOCENTRIC CONIC

C3 23.031 VHL 4.799 DLA -9.37 RAL 328.98 RAD 6567.9 VEL 12.017 PTH 2.14 VHP 6.085 DPA -3.67 RAP 288.10 ECC 1.3790

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 5 29	1953.37	-12.49	25.58	191.10	115.62	10 38 2	1353.4	-8.95	18.70
90.00	19 41 10	5187.42	25.95	232.37	195.72	78.25	21 7 37	4587.4	24.07	224.21
100.00	11 22 14	1705.77	-13.60	6.82	190.55	116.88	11 50 39	1105.8	-9.88	360.00
100.00	21 7 6	4910.25	27.15	211.69	195.43	76.99	22 28 56	4310.2	25.09	203.50
110.00	12 20 1	1524.82	-16.50	351.45	188.90	120.37	12 45 26	924.8	-12.34	344.80
110.00	22 25 48	4663.96	30.35	192.03	194.47	73.46	23 43 32	4064.0	27.79	183.77

DIFFERENTIAL CORRECTIONS

TDE 1.8328 TRA 4.5484 TC3-2.4375 BAU .7539
RDE .0082 RRA -.8179 RC3 .2321 FAU .03110
FDE 1.8064 FRA 3.9021 FC3-1.1691 BSP 20630
BDE 1.8328 BRA 4.6214 BC3 2.4485 FSP -1642

MID-COURSE EXECUTION ACCURACY

SGT 6368.2 SGR 1014.5 SG3 458.9
RRT -.9205 RRF -.9098 RTF .9856
SGB 6448.5 R23 -.0022 R13 -.9856
SG1 6436.6 SG2 392.2 THA 171.63

ORBIT DETERMINATION ACCURACY

ST 2742.1 SR 297.1 SS 1356.6
CRT -.5760 CRS .5213 CST -.9978
LSA 3062.9 MSA 257.3 SSA 13.6
EL1 2747.5 EL2 242.4 ALF 176.40

LAUNCH DATE SEP 27 1965 FLIGHT TIME 210.00 ARRIVAL DATE APR 25 1966

DISTANCE 581.379

HELIOCENTRIC CONIC

RL 149.94 LAL .00 LOL 3.68 VL 27.102 GAL 7.57 AZL 89.28 HCA 264.91 SMA 128.13 ECC .21400 INC .7218 V1 29.717
RP 108.75 LAP -.72 LOP 268.59 VP 37.483 GAP 8.81 AZP 90.06 TAL 149.59 TAP 54.49 RCA 100.71 APO 155.56 V2 34.846
RC 123.903 GL 3.90 GP 19.39 ZAL 35.24 ZAP 151.76 ETS 37.96 ZAE 119.74 ETE 168.84 ZAC 23.67 ETC 185.87 CLP-159.06

PLANETOCENTRIC CONIC

C3 24.731 VHL 4.973 DLA -8.29 RAL 329.41 RAD 6568.0 VEL 12.088 PTH 2.16 VHP 6.333 DPA -4.56 RAP 289.57 ECC 1.4070

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 58 36	2005.89	-14.02	28.68	192.70	114.86	10 32 2	1405.9	-10.55	21.72
90.00	19 51 29	5169.76	25.70	231.14	197.00	77.69	21 17 38	4569.8	23.75	223.01
100.00	11 15 56	1756.42	-15.13	9.79	192.16	116.09	11 45 13	1156.4	-11.50	2.88
100.00	21 16 50	4894.46	26.90	210.58	196.69	76.45	22 38 24	4294.5	24.77	202.43
110.00	12 15 2	1571.39	-18.08	354.13	190.53	119.51	12 41 13	971.4	-14.02	347.37
110.00	22 34 14	4652.25	30.12	191.19	195.69	73.02	23 51 46	4052.3	27.50	182.98

DIFFERENTIAL CORRECTIONS

TDE 1.9836 TRA 4.7937 TC3-2.2928 BAU .7608
RDE .0310 RRA -.7930 RC3 .1972 FAU .02763
FDE 1.7825 FRA 3.8063 FC3 -.9672 BSP 20913
BDE 1.9839 BRA 4.8588 BC3 2.3012 FSP -1541

MID-COURSE EXECUTION ACCURACY

SGT 6447.8 SGR 944.5 SG3 430.1
RRT -.9061 RRF -.8947 RTF .9851
SGB 6516.7 R23 -.0033 R13 -.9851
SG1 6504.6 SG2 396.0 THA 172.41

ORBIT DETERMINATION ACCURACY

ST 2834.0 SR 279.3 SS 1338.7
CRT -.4832 CRS .4317 CST -.9983
LSA 3136.2 MSA 255.6 SSA 13.5
EL1 2837.2 EL2 244.3 ALF 177.25

LAUNCH DATE SEP 27 1965 FLIGHT TIME 212.00 ARRIVAL DATE APR 27 1966

DISTANCE 587.119

HELIOCENTRIC CONIC

RL 149.94 LAL .00 LOL 3.68 VL 27.081 GAL 7.98 AZL 89.10 HCA 268.07 SMA 127.99 ECC .21928 INC .9019 V1 29.717
RP 108.78 LAP -.90 LOP 271.75 VP 37.460 GAP 9.30 AZP 90.03 TAL 148.72 TAP 56.79 RCA 99.93 APO 156.06 V2 34.838
RC 126.245 GL 4.69 GP 18.48 ZAL 34.57 ZAP 153.51 ETS 39.20 ZAE 119.25 ETE 169.50 ZAC 25.01 ETC 183.03 CLP-160.68

PLANETOCENTRIC CONIC

C3 26.637 VHL 5.161 DLA -7.29 RAL 329.86 RAD 6568.1 VEL 12.166 PTH 2.18 VHP 6.597 DPA -5.32 RAP 291.12 ECC 1.4384

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 52 35	2056.38	-15.44	31.71	194.43	114.03	10 26 51	1456.4	-12.07	24.66
90.00	20 1 6	5155.97	25.50	230.18	198.40	77.25	21 27 2	4556.0	23.49	222.09
100.00	11 10 26	1805.23	-16.57	12.70	193.89	115.24	11 40 31	1205.2	-13.04	5.69
100.00	21 25 56	4882.35	26.71	209.74	198.08	76.05	22 47 19	4282.3	24.53	201.62
110.00	12 10 42	1616.54	-19.58	356.78	192.28	118.60	12 37 38	1016.5	-15.61	349.91
110.00	22 42 10	4643.81	29.95	190.59	197.05	72.70	23 59 34	4043.8	27.29	182.41

DIFFERENTIAL CORRECTIONS

TDE 2.1393 TRA 5.0505 TC3-2.1437 BAU .7657
RDE .0535 RRA -.7709 RC3 .1673 FAU .02435
FDE 1.7577 FRA 3.7166 FC3 -.7915 BSP 21182
BDE 2.1400 BRA 5.1090 BC3 2.1502 FSP -1447

MID-COURSE EXECUTION ACCURACY

SGT 6518.2 SGR 881.8 SG3 403.2
RRT -.8903 RRF -.8781 RTF .9847
SGB 6577.6 R23 -.0041 R13 -.9847
SG1 6565.5 SG2 398.6 THA 173.11

ORBIT DETERMINATION ACCURACY

ST 2918.9 SR 265.6 SS 1320.3
CRT -.3846 CRS .3368 CST -.9986
LSA 3204.6 MSA 253.6 SSA 13.4
EL1 2920.7 EL2 245.0 ALF 177.98

LAUNCH DATE SEP 27 1965 FLIGHT TIME 214.00 ARRIVAL DATE APR 29 1966

HELIOCENTRIC CONIC DISTANCE 592,806

RL 149.94 LAL .00 LOL 3.68 VL 27.060 GAL 8.41 AZL 88.92 HCA 271.24 SMA 127.85 ECC .22498 INC 1.0811 V1 29.717
RP 108.80 LAP -1.08 LOP 274.92 VP 37.437 GAP 9.82 AZP 89.98 TAL 147.84 TAP 59.08 RCA 99.09 APO 156.62 V2 34.830
RC 128.581 GL 5.40 GP 17.65 ZAL 33.91 ZAP 155.16 ETS 40.58 ZAE 118.79 ETE 170.07 ZAC 26.47 ETC 180.63 CLP-162.23

PLANETOCENTRIC CONIC

C3 28.777 VHL 5.364 DLA -6.36 RAL 330.33 RAD 6568.2 VEL 12.254 PTH 2.20 VHP 6.879 DPA -5.98 RAP 292.75 ECC 1.4736

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 47 17	2105.12	-16.77	34.67	196.27	113.16	10 22 22	1505.1	-13.49	27.52
90.00	20 10 7	5145.71	25.34	229.47	199.91	76.92	21 35 53	4545.7	23.29	221.40
100.00	11 5 37	1852.47	-17.92	15.56	195.74	114.33	11 36 29	1252.5	-14.49	8.45
100.00	21 34 29	4873.60	26.56	209.13	199.58	75.76	22 55 43	4273.6	24.34	201.03
110.00	12 6 56	1660.45	-20.98	359.41	194.15	117.62	12 34 37	1060.5	-17.12	352.41
110.00	22 49 39	4638.38	29.84	190.21	198.52	72.50	24 6 57	4038.4	27.16	182.05

DIFFERENTIAL CORRECTIONS
TDE 2.3035 TRA 5.3234 TC3-1.9873 BAU .7665
RDE .0753 RRA -.7515 RC3 .1408 FAU .02113
FDE 1.7352 FRA 3.6360 FC3 -.6356 BSP 21351
BDE 2.3047 BRA 5.3762 BC3 1.9923 FSP -1352

MID-COURSE EXECUTION ACCURACY
SGT 6582.4 SGR 825.5 SG3 378.3
RRT -.8731 RRF -.8604 RTF .9844
SGB 6634.0 R23 -.0046 R13 -.9844
SG1 6621.9 SG2 400.1 THA 173.73

ORBIT DETERMINATION ACCURACY
ST 3000.4 SR 255.3 SS 1303.4
CRT -.2848 CRS .2412 CST -.9989
LSA 3271.6 MSA 251.1 SSA 13.3
EL1 3001.3 EL2 244.7 ALF 178.60

LAUNCH DATE SEP 27 1965 FLIGHT TIME 216.00 ARRIVAL DATE MAY 1 1966

HELIOCENTRIC CONIC DISTANCE 598.432

RL 149.94 LAL .00 LOL 3.68 VL 27.038 GAL 8.89 AZL 88.74 HCA 274.40 SMA 127.71 ECC .23117 INC 1.2608 V1 29.717
RP 108.82 LAP -1.26 LOP 278.08 VP 37.414 GAP 10.35 AZP 89.90 TAL 146.96 TAP 61.36 RCA 98.18 APO 157.23 V2 34.822
RC 130.911 GL 6.04 GP 16.90 ZAL 33.27 ZAP 156.71 ETS 42.12 ZAE 118.35 ETE 170.57 ZAC 28.03 ETC 178.62 CLP-163.73

PLANETOCENTRIC CONIC

C3 31.181 VHL 5.584 DLA -5.50 RAL 330.80 RAD 6568.2 VEL 12.351 PTH 2.23 VHP 7.178 DPA -6.54 RAP 294.43 ECC 1.5132

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 42 39	2152.33	-18.01	37.58	198.21	112.23	10 18 31	1552.3	-14.84	30.34
90.00	20 18 34	5138.73	25.23	228.99	201.51	76.70	21 44 13	4538.7	23.15	220.93
100.00	11 1 23	1898.31	-19.18	18.38	197.69	113.37	11 33 2	1298.3	-15.86	11.17
100.00	21 42 31	4867.98	26.47	208.74	201.17	75.57	23 3 39	4268.0	24.23	200.65
110.00	12 3 41	1703.28	-22.31	2.02	196.13	116.59	12 32 4	1103.3	-18.56	354.89
110.00	22 56 43	4635.78	29.79	190.03	200.09	72.40	24 13 58	4035.8	27.09	181.88

DIFFERENTIAL CORRECTIONS
TDE 2.4704 TRA 5.6068 TC3-1.8350 BAU .7665
RDE .0974 RRA -.7334 RC3 .1186 FAU .01823
FDE 1.7103 FRA 3.5592 FC3 -.5063 BSP 21580
BDE 2.4723 BRA 5.6546 BC3 1.8388 FSP -1269

MID-COURSE EXECUTION ACCURACY
SGT 6635.4 SGR 774.0 SG3 354.8
RRT -.8543 RRF -.8411 RTF .9841
SGB 6680.4 R23 -.0051 R13 -.9841
SG1 6668.4 SG2 400.3 THA 174.29

ORBIT DETERMINATION ACCURACY
ST 3071.7 SR 247.9 SS 1284.8
CRT -.1840 CRS .1446 CST -.9991
LSA 3329.5 MSA 248.4 SSA 13.2
EL1 3072.0 EL2 243.6 ALF 179.14

LAUNCH DATE SEP 27 1965 FLIGHT TIME 218.00 ARRIVAL DATE MAY 3 1966

HELIOCENTRIC CONIC DISTANCE 603.992

RL 149.94 LAL .00 LOL 3.68 VL 27.016 GAL 9.39 AZL 88.56 HCA 277.56 SMA 127.56 ECC .23788 INC 1.4418 V1 29.717
RP 108.85 LAP -1.43 LOP 281.25 VP 37.392 GAP 10.91 AZP 89.81 TAL 146.07 TAP 63.64 RCA 97.22 APO 157.91 V2 34.816
RC 133.236 GL 6.62 GP 16.22 ZAL 32.65 ZAP 158.17 ETS 43.86 ZAE 117.93 ETE 171.01 ZAC 29.67 ETC 176.94 CLP-165.18

PLANETOCENTRIC CONIC

C3 33.886 VHL 5.821 DLA -4.71 RAL 331.29 RAD 6568.3 VEL 12.460 PTH 2.25 VHP 7.498 DPA -7.01 RAP 296.16 ECC 1.5577

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 38 35	2198.18	-19.17	40.45	200.25	111.25	10 15 13	1598.2	-16.11	33.10
90.00	20 26 30	5134.77	25.17	228.71	203.21	76.58	21 52 5	4534.8	23.08	220.67
100.00	10 57 42	1942.91	-20.36	21.17	199.74	112.37	11 30 5	1342.9	-17.15	13.85
100.00	21 50 4	4865.27	26.42	208.55	202.87	75.49	23 11 9	4265.3	24.17	200.47
110.00	12 0 53	1745.14	-23.57	4.62	198.21	115.51	12 29 58	1145.1	-19.94	357.36
110.00	23 3 23	4635.81	29.79	190.03	201.77	72.40	24 20 39	4035.8	27.09	181.88

DIFFERENTIAL CORRECTIONS
TDE 2.6439 TRA 5.9059 TC3-1.6834 BAU .7639
RDE .1194 RRA -.7166 RC3 .0994 FAU .01552
FDE 1.6863 FRA 3.4894 FC3 -.3964 BSP 21799
BDE 2.6466 BRA 5.9492 BC3 1.6863 FSP -1192

MID-COURSE EXECUTION ACCURACY
SGT 6680.8 SGR 726.7 SG3 332.9
RRT -.8340 RRF -.8205 RTF .9839
SGB 6720.2 R23 -.0054 R13 -.9838
SG1 6708.3 SG2 399.4 THA 174.80

ORBIT DETERMINATION ACCURACY
ST 3136.5 SR 242.7 SS 1266.8
CRT -.0864 CRS .0514 CST -.9993
LSA 3382.4 MSA 245.4 SSA 13.0
EL1 3136.6 EL2 241.8 ALF 179.61

LAUNCH DATE SEP 27 1965 FLIGHT TIME 220.00 ARRIVAL DATE MAY 5 1966

HELIOCENTRIC CONIC DISTANCE 609.475

RL 149.94 LAL .00 LOL 3.68 VL 26.994 GAL 9.94 AZL 88.37 HCA 280.73 SMA 127.41 ECC .24516 INC 1.6255 V1 29.717
RP 108.87 LAP -1.60 LOP 284.41 VP 37.370 GAP 11.50 AZP 89.70 TAL 145.19 TAP 65.92 RCA 96.18 APO 158.65 V2 34.809
RC 135.553 GL 7.13 GP 15.59 ZAL 32.05 ZAP 159.55 ETS 45.83 ZAE 117.53 ETE 171.40 ZAC 31.37 ETC 175.53 CLP-166.60

PLANETOCENTRIC CONIC

C3 36.934 VHL 6.077 DLA -3.97 RAL 331.78 RAD 6568.4 VEL 12.582 PTH 2.28 VHP 7.839 DPA -7.39 RAP 297.93 ECC 1.6078

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 35 1	2242.81	-20.24	43.28	202.38	110.23	10 12 24	1642.8	-17.31	35.83
90.00	20 33 57	5133.66	25.15	228.64	205.00	76.55	21 59 31	4533.7	23.05	220.60
100.00	10 54 30	1986.42	-21.47	23.93	201.88	111.32	11 27 37	1386.4	-18.38	16.49
100.00	21 57 9	4865.28	26.42	208.55	204.65	75.49	23 18 15	4265.3	24.17	200.47
110.00	11 58 29	1786.14	-24.74	7.23	200.38	114.37	12 28 15	1186.1	-21.24	359.83
110.00	23 9 40	4638.33	29.84	190.21	203.53	72.49	24 26 59	4038.3	27.16	182.05

DIFFERENTIAL CORRECTIONS
TDE 2.8258 TRA 6.2228 TC3-1.5325 BAU .7578
RDE .1414 RRA -.7008 RC3 .0827 FAU .01293
FDE 1.6643 FRA 3.4269 FC3 -.3030 BSP 21975
BDE 2.8293 BRA 6.2621 BC3 1.5347 FSP -1118

MID-COURSE EXECUTION ACCURACY
SGT 6719.4 SGR 683.0 SG3 312.6
RRT -.8121 RRF -.7984 RTF .9837
SGB 6754.0 R23 -.0055 R13 -.9837
SG1 6742.3 SG2 397.2 THA 175.27

ORBIT DETERMINATION ACCURACY
ST 3195.8 SR 239.3 SS 1249.9
CRT .0058 CRS -.0365 CST -.9995
LSA 3431.3 MSA 241.9 SSA 12.5
EL1 3195.8 EL2 239.3 ALF .03

LAUNCH DATE SEP 28 1965 FLIGHT TIME 70.00 ARRIVAL DATE DEC 7 1965

HELIOCENTRIC CONIC DISTANCE 132.581

RL	149.90	LAL	.00	LOL	4.66	VL	16.557	GAL	22.46	AZL	92.78	HCA	40.03	SMA	88.68	ECC	.74365	INC	2.7771	VI	29.726
RP	108.16	LAP	-1.79	LOP	44.66	VP	30.941	GAP	-46.74	AZP	92.13	TAL	171.55	TAP	211.58	RCA	22.73	APO	154.62	V2	35.036
RC	76.333	GL	-2.66	GP	-4.03	ZAL	64.75	ZAP	32.19	ETS	170.16	ZAE	136.54	ETE	180.58	ZAC	20.25	ETC	61.17	CLP	31.96

PLANETOCENTRIC CONIC

C3 255.537 VHL 15.986 DLA -22.76 RAL 302.74 RAD 6571.5 VEL 19.413 PTH 3.10 VHP 26.345 DPA -26.76 RAP 254.70 ECC 5.2055

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 29 42	1965.65	-12.85	26.30	198.93	115.45	11 2 28	1365.6	-9.32	19.40
90.00	15 39 43	927.24	18.77	326.47	212.48	111.60	15 55 10	327.2	21.54	318.89
100.00	11 34 2	1758.00	-15.18	9.88	197.78	116.06	12 3 20	1158.0	-11.55	2.97
100.00	17 18 4	610.13	21.17	304.15	213.49	111.61	17 28 14	10.1	23.92	296.43
110.00	12 7 29	1653.14	-20.75	358.96	194.80	117.79	12 35 2	1053.1	-16.87	351.99
110.00	19 1 6	5575.79	26.98	260.11	216.03	111.83	20 34 2	4975.8	29.70	251.97

DIFFERENTIAL CORRECTIONS

TDE	-.4513	TRA	-1.8091	TC3	-.1134	BAU	.3874												
RDE	-1.2066	RRA	.3875	RC3	.0003	FAU	.01201												
FDE	.1821	FRA	.6970	FC3	-.0407	BSP	2508												
BDE	1.2882	BRA	1.8502	BC3	.1134	FSP	-59												

MID-COURSE EXECUTION ACCURACY

SGT	807.5	SGR	457.9	SG3	26.6						
RRT	-.0983	RRF	.0884	RTF	-.6198						
SGB	928.3	R23	.0008	R13	.6204						
SG1	809.4	SG2	454.7	THA	175.33						

ORBIT DETERMINATION ACCURACY

ST	266.1	SR	434.8	SS	237.4						
CRT	.5223	CRS	.5413	CST	.9967						
LSA	496.0	MSA	264.7	SSA	13.9						
EL1	463.1	EL2	213.0	ALF	67.19						

LAUNCH DATE SEP 28 1965 FLIGHT TIME 72.00 ARRIVAL DATE DEC 9 1965

HELIOCENTRIC CONIC DISTANCE 138.263

RL	149.90	LAL	.00	LOL	4.66	VL	17.298	GAL	21.49	AZL	92.37	HCA	43.23	SMA	90.19	ECC	.71671	INC	2.3679	VI	29.726
RP	108.12	LAP	-1.62	LOP	47.87	VP	31.359	GAP	-44.64	AZP	91.73	TAL	170.75	TAP	213.98	RCA	25.55	APO	154.83	V2	35.049
RC	74.169	GL	-2.50	GP	-4.14	ZAL	63.43	ZAP	30.70	ETS	169.59	ZAE	136.63	ETE	181.05	ZAC	19.68	ETC	65.67	CLP	30.44

PLANETOCENTRIC CONIC

C3 233.153 VHL 15.269 DLA -22.32 RAL 304.09 RAD 6571.4 VEL 18.827 PTH 3.07 VHP 25.349 DPA -27.13 RAP 256.55 ECC 4.8371

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 29 1	1974.80	-13.12	26.84	199.34	115.32	11 1 56	1374.8	-9.60	19.93
90.00	15 51 12	892.96	19.62	324.31	213.06	110.84	16 6 5	293.0	22.28	316.65
100.00	11 34 11	1764.48	-15.37	10.27	198.23	115.96	12 3 35	1164.5	-11.76	3.34
100.00	17 28 43	5866.55	21.95	280.03	214.01	110.81	19 6 30	5266.6	24.59	272.23
110.00	12 9 0	1655.34	-20.82	359.10	195.33	117.74	12 36 35	1055.3	-16.95	352.12
110.00	19 10 24	5548.45	27.66	258.27	216.40	110.94	20 42 52	4948.5	30.25	250.04

DIFFERENTIAL CORRECTIONS

TDE	-.4794	TRA	-1.8362	TC3	-.1231	BAU	.3837												
RDE	-1.1602	RRA	.3938	RC3	-.0004	FAU	.01202												
FDE	.1995	FRA	.7257	FC3	-.0446	BSP	2344												
BDE	1.2554	BRA	1.8779	BC3	.1231	FSP	-62												

MID-COURSE EXECUTION ACCURACY

SGT	853.4	SGR	463.7	SG3	28.8						
RRT	-.1015	RRF	.0946	RTF	-.6388						
SGB	971.3	R23	-.0032	R13	.6395						
SG1	855.2	SG2	460.4	THA	175.55						

ORBIT DETERMINATION ACCURACY

ST	287.1	SR	438.0	SS	253.7						
CRT	.5377	CRS	.5590	CST	.9969						
LSA	513.6	MSA	273.2	SSA	14.2						
EL1	473.4	EL2	223.9	ALF	64.49						

LAUNCH DATE SEP 28 1965 FLIGHT TIME 74.00 ARRIVAL DATE DEC 11 1965

HELIOCENTRIC CONIC DISTANCE 144.053

RL	149.90	LAL	.00	LOL	4.66	VL	17.993	GAL	20.57	AZL	92.00	HCA	46.43	SMA	91.72	ECC	.69004	INC	2.0043	VI	29.726
RP	108.08	LAP	-1.45	LOP	51.07	VP	31.762	GAP	-42.64	AZP	91.38	TAL	169.96	TAP	216.39	RCA	28.43	APO	155.00	V2	35.063
RC	72.025	GL	-2.31	GP	-4.26	ZAL	62.16	ZAP	29.23	ETS	168.95	ZAE	136.80	ETE	181.58	ZAC	19.25	ETC	70.48	CLP	28.94

PLANETOCENTRIC CONIC

C3 212.833 VHL 14.589 DLA -21.85 RAL 305.38 RAD 6571.2 VEL 18.280 PTH 3.03 VHP 24.387 DPA -27.50 RAP 258.43 ECC 4.5027

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 28 4	1983.41	-13.37	27.35	199.65	115.19	11 1 8	1383.4	-9.87	20.42
90.00	16 2 25	857.88	20.45	322.08	213.49	110.02	16 16 43	257.9	23.00	314.33
100.00	11 34 1	1770.56	-15.55	10.63	198.57	115.85	12 3 32	1170.6	-11.95	3.69
100.00	17 39 9	5834.01	22.72	277.93	214.38	109.96	19 16 23	5234.0	25.24	270.03
110.00	12 10 10	1657.24	-20.88	359.21	195.74	117.70	12 37 48	1057.2	-17.01	352.23
110.00	19 19 29	5520.09	28.33	256.34	216.63	109.98	20 51 30	4920.1	30.79	248.00

DIFFERENTIAL CORRECTIONS

TDE	-.4977	TRA	-1.8547	TC3	-.1316	BAU	.3746												
RDE	-1.1141	RRA	.3988	RC3	-.0014	FAU	.01209												
FDE	.2164	FRA	.7539	FC3	-.0492	BSP	2400												
BDE	1.2202	BRA	1.8971	BC3	.1316	FSP	-67												

MID-COURSE EXECUTION ACCURACY

SGT	895.3	SGR	469.0	SG3	31.1						
RRT	-.1079	RRF	.1021	RTF	-.6574						
SGB	1010.7	R23	-.0049	R13	.6581						
SG1	897.3	SG2	465.2	THA	175.57						

ORBIT DETERMINATION ACCURACY

ST	306.2	SR	440.5	SS	269.8						
CRT	.5458	CRS	.5733	CST	.9969						
LSA	530.5	MSA	281.0	SSA	14.4						
EL1	482.7	EL2	234.2	ALF	62.12						

LAUNCH DATE SEP 28 1965 FLIGHT TIME 76.00 ARRIVAL DATE DEC 13 1965

HELIOCENTRIC CONIC DISTANCE 149.943

RL	149.90	LAL	.00	LOL	4.66	VL	18.643	GAL	19.68	AZL	91.68	HCA	49.63	SMA	93.25	ECC	.66374	INC	1.6772	VI	29.726
RP	108.04	LAP	-1.28	LOP	54.28	VP	32.149	GAP	-40.75	AZP	91.09	TAL	169.19	TAP	218.82	RCA	31.36	APO	155.15	V2	35.076
RC	69.906	GL	-2.11	GP	-4.39	ZAL	60.94	ZAP	27.78	ETS	168.22	ZAE	137.06	ETE	182.16	ZAC	18.98	ETC	75.56	CLP	27.46

PLANETOCENTRIC CONIC

C3 194.365 VHL 13.941 DLA -21.37 RAL 306.60 RAD 6571.1 VEL 17.768 PTH 2.99 VHP 23.459 DPA -27.86 RAP 260.34 ECC 4.1988

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 26 51	1991.49	-13.61	27.83	199.86	115.07	11 0 3	1391.5	-10.11	20.89
90.00	16 13 22	821.99	21.27	319.76	213.77	109.15	16 27 4	222.0	23.69	311.93
100.00	11 33 33	1776.23	-15.72	10.97	198.82	115.75	12 3 10	1176.2	-12.13	4.02
100.00	17 49 21	5800.53	23.49	275.73	214.60	109.04	19 26 2	5200.5	25.87	267.74
110.00	12 11 1	1658.83	-20.93	359.31	196.06	117.66	12 38 40	1058.8	-17.07	352.32
110.00	19 28 23	5490.70	29.00	254.31	216.71	108.94	20 59 54	4890.7	31.31	245.87

DIFFERENTIAL CORRECTIONS

TDE	-.5121	TRA	-1.8707	TC3	-.1398	BAU	.3634												
RDE	-1.0682	RRA	.4026	RC3	-.0026	FAU	.01219												
FDE	.2333	FRA	.7825	FC3	-.0543	BSP	2533												
BDE	1.1846	BRA	1.9135	BC3	.1399	FSP	-73												

MID-COURSE EXECUTION ACCURACY

SGT	937.0	SGR	473.6	SG3	33.6						
RRT	-.1159	RRF	.1104	RTF	-.6755						
SGB	1049.9	R23	-.0059	R13	.6763						
SG1	939.1	SG2	469.4	THA	175.53						

ORBIT DETERMINATION ACCURACY

ST	325.2	SR	442.2	SS	286.3						
CRT	.5507	CRS	.5856	CST	.9968						
LSA	547.7	MSA	288.2	SSA	14.6						
EL1	491.6	EL2	244.2	ALF	59.77						

LAUNCH DATE SEP 28 1965 FLIGHT TIME 78.00 ARRIVAL DATE DEC 15 1965

HELIOCENTRIC CONIC DISTANCE 155.928

RL	149.90	LAL	.00	LOL	4.66	VL	19.254	GAL	18.83	AZL	91.38	HCA	52.84	SMA	94.79	ECC	.63791	INC	1.3797	V1	29.726
RP	108.00	LAP	-1.10	LOP	57.49	VP	32.521	GAP	-38.95	AZP	90.83	TAL	168.43	TAP	221.27	RCA	34.32	APO	155.26	V2	35.089
RC	67.813	GL	-1.89	GP	-4.54	ZAL	59.77	ZAP	26.36	ETS	167.41	ZAE	137.40	ETE	182.80	ZAC	18.86	ETC	80.81	CLP	26.00

PLANETOCENTRIC CONIC

C3 177.563 VHL 13.325 DLA -20.87 RAL 307.75 RAD 6570.9 VEL 17.288 PTH 2.95 VHP 22.563 DPA -28.21 RAP 262.29 ECC 3.9222

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 25 22	1999.06	-13.82	28.28	199.96	114.96	10 58 41	1399.1	-10.35	21.33
90.00	16 24 3	785.26	22.07	317.37	213.90	108.20	16 37 8	185.3	24.36	309.44
100.00	11 32 47	1781.50	-15.88	11.28	198.96	115.66	12 2 29	1181.5	-12.30	4.32
100.00	17 59 19	5766.10	24.23	273.44	214.67	108.06	19 35 25	5166.1	26.47	265.36
110.00	12 11 31	1660.10	-20.97	359.38	196.27	117.63	12 39 11	1060.1	-17.11	352.39
110.00	19 37 5	5460.27	29.65	252.19	216.64	107.84	21 8 5	4860.3	31.80	243.64

DIFFERENTIAL CORRECTIONS

TDE	-.5240	TRA	-1.8851	TC3	-.1477	BAU	.3508												
RDE	-1.0225	RRA	.4053	RC3	-.0041	FAU	.01232												
FDE	.2506	FRA	.8116	FC3	-.0601	BSP	2718												
BDE	1.1490	BRA	1.9281	BC3	.1478	FSP	-81												

MID-COURSE EXECUTION ACCURACY

SGT	978.9	SGR	477.7	SG3	36.3						
RRT	-.1250	RRF	.1196	RTF	-.6931						
SGB	1089.2	R23	-.0066	R13	.6938						
SG1	981.3	SG2	472.8	THA	175.45						

ORBIT DETERMINATION ACCURACY

ST	344.4	SR	443.2	SS	303.2						
CRT	.5536	CRS	.5963	CST	.9965						
LSA	565.6	MSA	294.7	SSA	14.8						
EL1	500.6	EL2	254.0	ALF	57.36						

LAUNCH DATE SEP 28 1965 FLIGHT TIME 80.00 ARRIVAL DATE DEC 17 1965

HELIOCENTRIC CONIC DISTANCE 162.003

RL	149.90	LAL	.00	LOL	4.66	VL	19.826	GAL	18.02	AZL	91.11	HCA	56.05	SMA	96.33	ECC	.61264	INC	1.1061	V1	29.726
RP	107.96	LAP	-.92	LOP	60.71	VP	32.876	GAP	-37.23	AZP	90.62	TAL	167.69	TAP	223.74	RCA	37.31	APO	155.35	V2	35.101
RC	65.751	GL	-1.64	GP	-4.69	ZAL	58.65	ZAP	24.97	ETS	166.49	ZAE	137.83	ETE	183.51	ZAC	18.92	ETC	86.15	CLP	24.55

PLANETOCENTRIC CONIC

C3 162.267 VHL 12.738 DLA -20.35 RAL 308.84 RAD 6570.8 VEL 16.840 PTH 2.91 VHP 21.696 DPA -28.55 RAP 264.27 ECC 3.6705

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 23 37	2006.15	-14.03	28.70	199.97	114.85	10 57 3	1406.2	-10.56	21.73
90.00	16 34 29	747.66	22.85	314.89	213.88	107.20	16 46 57	147.7	24.99	306.87
100.00	11 31 43	1786.38	-16.02	11.57	199.00	115.58	12 1 29	1186.4	-12.45	4.60
100.00	18 9 4	5730.71	24.96	271.07	214.59	107.01	19 44 35	5130.7	27.05	262.89
110.00	12 11 42	1661.06	-21.00	359.44	196.37	117.61	12 39 23	1061.1	-17.14	352.44
110.00	19 45 34	5428.79	30.29	249.95	216.41	106.66	21 16 3	4828.8	32.27	241.30

DIFFERENTIAL CORRECTIONS

TDE	-.5373	TRA	-1.9019	TC3	-.1562	BAU	.3390												
RDE	-.9771	RRA	.4071	RC3	-.0058	FAU	.01246												
FDE	.2687	FRA	.8419	FC3	-.0665	BSP	2850												
BDE	1.1150	BRA	1.9450	BC3	.1763	FSP	-88												

MID-COURSE EXECUTION ACCURACY

SGT	1024.3	SGR	481.1	SG3	39.3						
RRT	-.1341	RRF	.1293	RTF	-.7098						
SGB	1131.7	R23	-.0080	R13	.7106						
SG1	1026.9	SG2	475.6	THA	175.41						

ORBIT DETERMINATION ACCURACY

ST	365.3	SR	443.4	SS	320.9						
CRT	.5567	CRS	.6061	CST	.9962						
LSA	585.3	MSA	300.4	SSA	15.0						
EL1	510.4	EL2	263.6	ALF	54.64						

LAUNCH DATE SEP 28 1965 FLIGHT TIME 82.00 ARRIVAL DATE DEC 19 1965

HELIOCENTRIC CONIC DISTANCE 168.162

RL	149.90	LAL	.00	LOL	4.66	VL	20.362	GAL	17.24	AZL	90.85	HCA	59.26	SMA	97.86	ECC	.58800	INC	.8524	V1	29.726
RP	107.92	LAP	-.73	LOP	63.92	VP	33.216	GAP	-35.59	AZP	90.44	TAL	166.97	TAP	226.23	RCA	40.32	APO	155.40	V2	35.114
RC	63.722	GL	-1.36	GP	-4.86	ZAL	57.58	ZAP	23.60	ETS	165.43	ZAE	138.36	ETE	184.31	ZAC	19.15	ETC	91.46	CLP	23.12

PLANETOCENTRIC CONIC

C3 148.330 VHL 12.179 DLA -19.82 RAL 309.86 RAD 6570.6 VEL 16.421 PTH 2.87 VHP 20.858 DPA -28.88 RAP 266.27 ECC 3.4411

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 21 34	2012.80	-14.22	29.09	199.88	114.75	10 55 7	1412.8	-10.76	22.12
90.00	16 44 41	709.16	23.60	312.31	213.70	106.12	16 56 30	109.2	25.59	304.21
100.00	11 30 20	1790.90	-16.15	11.84	198.94	115.50	12 0 10	1190.9	-12.59	4.86
100.00	18 18 36	5694.33	25.66	268.59	214.35	105.89	19 53 30	5094.3	27.59	260.32
110.00	12 11 32	1661.74	-21.03	359.48	196.38	117.59	12 39 14	1061.7	-17.16	352.48
110.00	19 53 53	5396.25	30.90	247.62	216.01	105.40	21 23 49	4796.3	32.70	238.86

DIFFERENTIAL CORRECTIONS

TDE	-.5477	TRA	-1.9165	TC3	-.1640	BAU	.3256												
RDE	-.9320	RRA	.4080	RC3	-.0079	FAU	.01264												
FDE	.2871	FRA	.8728	FC3	-.0738	BSP	3040												
BDE	1.0810	BRA	1.9595	BC3	.1642	FSP	-97												

MID-COURSE EXECUTION ACCURACY

SGT	1069.8	SGR	484.0	SG3	42.4						
RRT	-.1446	RRF	.1401	RTF	-.7260						
SGB	1174.2	R23	-.0090	R13	.7269						
SG1	1072.7	SG2	477.6	THA	175.33						

ORBIT DETERMINATION ACCURACY

ST	386.2	SR	442.7	SS	339.2						
CRT	.5578	CRS	.6146	CST	.9958						
LSA	605.5	MSA	305.4	SSA	15.1						
EL1	520.4	EL2	272.7	ALF	51.89						

LAUNCH DATE SEP 28 1965 FLIGHT TIME 84.00 ARRIVAL DATE DEC 21 1965

HELIOCENTRIC CONIC DISTANCE 174.398

RL	149.90	LAL	.00	LOL	4.66	VL	20.865	GAL	16.49	AZL	90.61	HCA	62.48	SMA	99.38	ECC	.56403	INC	.6147	V1	29.726
RP	107.89	LAP	-.55	LOP	67.14	VP	33.539	GAP	-34.02	AZP	90.28	TAL	166.27	TAP	228.75	RCA	43.33	APO	155.43	V2	35.126
RC	61.731	GL	-1.06	GP	-5.04	ZAL	56.57	ZAP	22.25	ETS	164.21	ZAE	138.97	ETE	185.20	ZAC	19.57	ETC	96.64	CLP	21.70

PLANETOCENTRIC CONIC

C3 135.627 VHL 11.646 DLA -19.26 RAL 310.81 RAD 6570.5 VEL 16.030 PTH 2.83 VHP 20.046 DPA -29.20 RAP 268.30 ECC 3.2321

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	IN AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 19 13	2019.06	-14.39	29.47	199.70	114.65	10 52 52	1419.1	-10.95	22.48
90.00	16 54 38	669.73	24.32	309.65	213.36	104.97	17 5 48	69.7	26.14	301.45
100.00	11 28 37	1795.12	-16.28	12.09	198.78	115.42	11 58 32	1195.1	-12.72	5.11
100.00	18 27 55	5656.94	26.33	266.01	213.95	104.69	20 2 12	5056.9	28.09	257.65
110.00	12 11 2	1662.18	-21.04	359.51	196.28	117.58	12 38 45	1062.2	-17.18	352.51
110.00	20 1 59	5362.64	31.48	245.17	215.46	104.06	21 31 22	4762.6	33.09	236.32

DIFFERENTIAL CORRECTIONS

TDE	-.5571	TRA	-1.9307	TC3	-.1717	BAU	.3119												
RDE	-.8873	RRA	.4081	RC3	-.0104	FAU	.01283												
FDE	.3062	FRA	.9048	FC3	-.0819	BSP	3237												
BDE	1.0477	BRA	1.9734	BC3	.1720	FSP	-106												

MID-COURSE EXECUTION ACCURACY

SGT	1117.0	SGR	486.2	SG3	45.8						
RRT	-.1559	RRF	.1518	RTF	-.7416						
SGB	1218.2	R23	-.0102	R13	.7425						
SG1	1120.1	SG2	478.9	THA	175.25						

ORBIT DETERMINATION ACCURACY

ST	407.9	SR	441.2	SS	358.1						
CRT	.5579	CRS	.6220	CST	.9952						
LSA	627.0	MSA	309.7	SSA	15.3						
EL1	530.9	EL2	281.3	ALF	49.00						

LAUNCH DATE SEP 28 1965 FLIGHT TIME 86.00 ARRIVAL DATE DEC 23 1965

DISTANCE 180.707

HELIOCENTRIC CONIC

RL 149.90 LAL .00 LOL 4.66 VL 21.336 GAL 15.77 AZL 90.39 HCA 65.70 SMA 100.88 ECC .54078 INC .3904 V1 29.726
RP 107.85 LAP -.36 LOP 70.36 VP 33.847 GAP -32.52 AZP 90.16 TAL 165.60 TAP 231.30 RCA 46.33 APO 155.44 V2 35.138
RC 59.781 GL -.72 GP -5.24 ZAL 55.60 ZAP 20.93 ETS 162.81 ZAE 139.69 ETE 186.20 ZAC 20.15 ETC 101.60 CLP 20.29

PLANETOCENTRIC CONIC

C3 124.045 VHL 11.138 DLA -18.69 RAL 311.70 RAD 6570.3 VEL 15.665 PTH 2.78 VHP 19.261 DPA -29.51 RAP 270.36 ECC 3.0415

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 16 34	2025.03	-14.56	29.82	199.41	114.55	10 50 19	1425.0	-11.13	22.83
90.00	17 4 22	629.32	25.00	306.88	212.87	103.74	17 14 52	29.3	26.65	298.60
100.00	11 26 34	1799.10	-16.39	12.33	198.53	115.35	11 56 34	1199.1	-12.85	5.34
100.00	18 37 3	5618.52	26.97	263.34	213.40	103.42	20 10 41	5018.5	28.54	254.89
110.00	12 10 11	1662.44	-21.05	359.53	196.08	117.58	12 37 54	1062.4	-17.19	352.52
110.00	20 9 55	5327.95	32.03	242.61	214.75	102.64	21 38 43	4727.9	33.44	233.67

DIFFERENTIAL CORRECTIONS

TDE -.5684 TRA-1.9473 TC3 -.1800 BAU .2993
RDE -.8430 RRA .4076 RC3 -.0133 FAU .01304
FDE .3263 FRA .9382 FC3 -.0910 BSP 3375
BDE 1.0167 BRA 1.9895 BC3 .1805 FSP -116

MID-COURSE EXECUTION ACCURACY

SGT 1168.1 SGR 487.8 SG3 49.5
RRT -.1675 RRF .1644 RTF -.7563
SGB 1265.9 R23 -.0123 R13 .7571
SG1 1171.6 SG2 479.5 THA 175.19

ORBIT DETERMINATION ACCURACY

ST 431.6 SR 438.7 SS 378.0
CRT .5584 CRS .6287 CST .9947
LSA 650.8 MSA 312.9 SSA 15.5
EL1 543.3 EL2 289.1 ALF 45.84

LAUNCH DATE SEP 28 1965 FLIGHT TIME 88.00 ARRIVAL DATE DEC 25 1965

DISTANCE 187.083

HELIOCENTRIC CONIC

RL 149.90 LAL .00 LOL 4.66 VL 21.779 GAL 15.07 AZL 90.18 HCA 68.92 SMA 102.37 ECC .51829 INC .1772 V1 29.726
RP 107.81 LAP -.17 LOP 73.58 VP 34.139 GAP -31.08 AZP 90.06 TAL 164.96 TAP 233.87 RCA 49.31 APO 155.42 V2 35.149
RC 57.879 GL -.35 GP -5.46 ZAL 54.69 ZAP 19.64 ETS 161.17 ZAE 140.50 ETE 187.32 ZAC 20.90 ETC 106.27 CLP 18.90

PLANETOCENTRIC CONIC

C3 113.484 VHL 10.653 DLA -18.09 RAL 312.52 RAD 6570.2 VEL 15.324 PTH 2.74 VHP 18.502 DPA -29.82 RAP 272.44 ECC 2.8677

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 13 34	2030.79	-14.73	30.17	199.03	114.46	10 47 25	1430.8	-11.30	23.16
90.00	17 13 54	5875.95	25.64	281.93	212.23	102.44	18 51 50	5275.9	27.10	273.56
100.00	11 24 11	1802.93	-16.51	12.56	198.17	115.28	11 54 14	1202.9	-12.97	5.56
100.00	18 45 59	5579.04	27.56	260.55	212.69	102.06	20 18 58	4979.0	28.94	252.02
110.00	12 8 59	1662.58	-21.05	359.53	195.79	117.57	12 36 41	1062.6	-17.19	352.53
110.00	20 17 40	5292.15	32.53	239.94	213.87	101.13	21 45 53	4692.2	33.72	230.91

DIFFERENTIAL CORRECTIONS

TDE -.5765 TRA-1.9609 TC3 -.1872 BAU .2852
RDE -.7992 RRA .4066 RC3 -.0167 FAU .01329
FDE .3470 FRA .9727 FC3 -.1014 BSP 3576
BDE .9854 BRA 2.0026 BC3 .1680 FSP -127

MID-COURSE EXECUTION ACCURACY

SGT 1219.1 SGR 488.8 SG3 53.6
RRT -.1808 RRF .1784 RTF -.7705
SGB 1313.4 R23 -.0139 R13 .7714
SG1 1222.9 SG2 479.3 THA 175.10

ORBIT DETERMINATION ACCURACY

ST 455.0 SR 435.3 SS 398.5
CRT .5569 CRS .6342 CST .9940
LSA 675.0 MSA 315.4 SSA 15.6
EL1 555.8 EL2 296.0 ALF 42.73

LAUNCH DATE SEP 28 1965 FLIGHT TIME 90.00 ARRIVAL DATE DEC 27 1965

DISTANCE 193.520

HELIOCENTRIC CONIC

RL 149.90 LAL .00 LOL 4.66 VL 22.193 GAL 14.40 AZL 89.97 HCA 72.14 SMA 103.83 ECC .49658 INC .0232 V1 29.726
RP 107.78 LAP .03 LOP 76.80 VP 34.416 GAP -29.70 AZP 89.99 TAL 164.34 TAP 236.48 RCA 52.27 APO 155.38 V2 35.160
RC 56.028 GL .06 GP -5.70 ZAL 53.83 ZAP 18.38 ETS 159.26 ZAE 141.42 ETE 188.60 ZAC 21.80 ETC 110.60 CLP 17.51

PLANETOCENTRIC CONIC

C3 103.853 VHL 10.191 DLA -17.46 RAL 313.27 RAD 6570.0 VEL 15.006 PTH 2.70 VHP 17.766 DPA -30.12 RAP 274.54 ECC 2.7092

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 10 14	2036.45	-14.89	30.51	198.56	114.37	10 44 10	1436.5	-11.47	23.49
90.00	17 23 15	5833.49	26.23	278.96	211.42	101.07	19 0 29	5233.5	27.49	270.52
100.00	11 21 26	1806.70	-16.62	12.79	197.73	115.21	11 51 33	1206.7	-13.08	5.78
100.00	18 54 44	5538.47	28.10	257.66	211.82	100.63	20 27 3	4938.5	29.28	249.05
110.00	12 7 24	1662.70	-21.06	359.54	195.40	117.57	12 35 6	1062.7	-17.20	352.54
110.00	20 25 16	5255.24	32.98	237.16	212.83	99.54	21 52 51	4655.2	33.95	228.05

DIFFERENTIAL CORRECTIONS

TDE -.5838 TRA-1.9738 TC3 -.1939 BAU .2708
RDE -.7559 RRA .4050 RC3 -.0208 FAU .01357
FDE .3687 FRA 1.0085 FC3 -.1131 BSP 3783
BDE .9551 BRA 2.0149 BC3 .1950 FSP -140

MID-COURSE EXECUTION ACCURACY

SGT 1271.8 SGR 489.3 SG3 57.9
RRT -.1953 RRF .1938 RTF -.7840
SGB 1362.6 R23 -.0158 R13 .7850
SG1 1275.9 SG2 478.3 THA 175.00

ORBIT DETERMINATION ACCURACY

ST 479.3 SR 431.0 SS 419.8
CRT .5544 CRS .6388 CST .9932
LSA 700.7 MSA 317.0 SSA 15.8
EL1 569.5 EL2 301.8 ALF 39.57

LAUNCH DATE SEP 28 1965 FLIGHT TIME 92.00 ARRIVAL DATE DEC 29 1965

DISTANCE 200.013

HELIOCENTRIC CONIC

RL 149.90 LAL .00 LOL 4.66 VL 22.581 GAL 13.76 AZL 89.78 HCA 75.36 SMA 105.26 ECC .47566 INC .2237 V1 29.726
RP 107.75 LAP .22 LOP 80.03 VP 34.679 GAP -28.37 AZP 89.94 TAL 163.76 TAP 239.12 RCA 55.19 APO 155.32 V2 35.171
RC 54.237 GL .50 GP -5.97 ZAL 53.02 ZAP 17.16 ETS 157.00 ZAE 142.44 ETE 190.05 ZAC 22.84 ETC 114.56 CLP 16.12

PLANETOCENTRIC CONIC

C3 95.073 VHL 9.751 DLA -16.81 RAL 313.96 RAD 6569.9 VEL 14.711 PTH 2.66 VHP 17.054 DPA -30.42 RAP 276.66 ECC 2.5647

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 6 31	2042.15	-15.05	30.85	197.99	114.27	10 40 33	1442.1	-11.64	23.83
90.00	17 32 26	5789.96	26.76	275.88	210.46	99.61	19 8 56	5190.0	27.82	267.37
100.00	11 18 18	1810.55	-16.73	13.02	197.19	115.14	11 48 28	1210.5	-13.20	6.00
100.00	19 3 20	5496.79	28.59	254.66	210.80	99.13	20 34 57	4896.8	29.55	245.99
110.00	12 5 25	1662.91	-21.06	359.55	194.92	117.57	12 33 8	1062.9	-17.20	352.55
110.00	20 32 42	5217.19	33.37	234.26	211.64	97.86	21 59 39	4617.2	34.10	225.09

DIFFERENTIAL CORRECTIONS

TDE -.5902 TRA-1.9858 TC3 -.2000 BAU .2562
RDE -.7131 RRA .4032 RC3 -.0254 FAU .01388
FDE .3913 FRA 1.0460 FC3 -.1264 BSP 4000
BDE .9257 BRA 2.0263 BC3 .2016 FSP -153

MID-COURSE EXECUTION ACCURACY

SGT 1326.0 SGR 489.2 SG3 62.7
RRT -.2112 RRF .2108 RTF -.7969
SGB 1413.4 R23 -.0179 R13 .7979
SG1 1330.6 SG2 476.5 THA 174.89

ORBIT DETERMINATION ACCURACY

ST 504.1 SR 425.6 SS 442.1
CRT .5509 CRS .6425 CST .9923
LSA 727.7 MSA 317.7 SSA 15.9
EL1 584.3 EL2 306.5 ALF 36.42

LAUNCH DATE SEP 28 1965 FLIGHT TIME 94.00 ARRIVAL DATE DEC 31 1965

HELIOCENTRIC CONIC DISTANCE 206.558

RL	149.90	LAL	.00	LOL	4.66	VL	22.945	GAL	13.14	AZL	89.58	HCA	78.59	SMA	106.66	ECC	.45555	INC	.4151
RP	107.72	LAP	.41	LOP	83.26	VP	34.927	GAP	-27.09	AZP	89.92	TAL	163.20	TAP	241.80	RCA	58.07	APO	155.25
RC	52.511	GL	.99	GP	-6.26	ZAL	52.27	ZAP	15.98	ETS	154.31	ZAE	143.56	ETE	191.71	ZAC	24.00	ETC	118.16

PLANETOCENTRIC CONIC																			
C3	87.071	VHL	9.331	DLA	-16.13	RAL	314.57	RAD	6569.7	VEL	14.437	PTH	2.62	VHP	16.364	DPA	-30.71	RAP	278.80
ECC	2.4330																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 2 24	2048.03	-15.21	31.20	197.34	114.18	10 36 32	1448.0	-11.82	24.17
90.00	17 41 27	5745.31	27.23	272.70	209.36	98.08	19 17 13	5145.3	28.07	264.13
100.00	11 14 45	1814.61	-16.84	13.26	196.56	115.07	11 45 0	1214.6	-13.33	6.24
100.00	19 11 48	5453.96	29.01	251.54	209.63	97.54	20 42 42	4854.0	29.75	242.82
110.00	12 3 2	1663.33	-21.08	359.58	194.35	117.56	12 30 46	1063.3	-17.22	352.58
110.00	20 40 0	5178.00	33.70	231.24	210.29	96.11	22 6 18	4578.0	34.18	222.03

DIFFERENTIAL CORRECTIONS								MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TDE	-.5962	TRA	-1.9973	TC3	-.2053	BAU	.2417	SGT	1382.3	SGR	488.7	SG3	67.8	ST	530.0	SR	419.1	SS	465.4
RDE	-.6710	RRA	.4012	RC3	-.0308	FAU	.01422	RRT	-.2287	RRF	.2296	RTF	-.8092	CRT	.5465	CRS	.6451	CST	.9914
FDE	.4152	FRA	1.0853	FC3	-.1414	BSP	4215	SGB	1466.1	R23	-.0203	R13	.8102	LSA	756.3	MSA	317.6	SSA	16.0
BDE	.8976	BRA	2.0372	BC3	.2076	FSP	-168	SG1	1387.4	SG2	474.0	THA	174.76	EL1	600.4	EL2	309.8	ALF	33.29

LAUNCH DATE SEP 28 1965 FLIGHT TIME 96.00 ARRIVAL DATE JAN 2 1966

HELIOCENTRIC CONIC DISTANCE 213.149

RL	149.90	LAL	.00	LOL	4.66	VL	23.285	GAL	12.54	AZL	89.40	HCA	81.82	SMA	108.03	ECC	.43626	INC	.6026
RP	107.69	LAP	.60	LOP	86.48	VP	35.161	GAP	-25.86	AZP	89.91	TAL	162.69	TAP	244.51	RCA	60.90	APO	155.15
RC	50.858	GL	1.53	GP	-6.57	ZAL	51.57	ZAP	14.86	ETS	151.12	ZAE	144.78	ETE	193.63	ZAC	25.27	ETC	121.41

PLANETOCENTRIC CONIC																			
C3	79.784	VHL	8.932	DLA	-15.41	RAL	315.12	RAD	6569.6	VEL	14.182	PTH	2.58	VHP	15.697	DPA	-31.00	RAP	280.95
ECC	2.3130																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 57 52	2054.26	-15.38	31.58	196.60	114.07	10 32 7	1454.3	-12.00	24.53
90.00	17 50 21	5699.51	27.63	269.40	208.10	96.48	19 25 21	5099.5	28.24	260.79
100.00	11 10 46	1819.04	-16.97	13.53	195.85	114.98	11 41 5	1219.0	-13.46	6.50
100.00	19 20 8	5409.97	29.36	248.32	208.32	95.88	20 50 18	4810.0	29.87	239.55
110.00	12 0 14	1664.12	-21.10	359.63	193.69	117.54	12 27 58	1064.1	-17.25	352.62
110.00	20 47 10	5137.65	33.95	228.12	208.79	94.28	22 12 48	4537.7	34.17	218.88

DIFFERENTIAL CORRECTIONS								MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TDE	-.6042	TRA	-2.0102	TC3	-.2110	BAU	.2285	SGT	1442.7	SGR	487.7	SG3	73.4	ST	558.0	SR	411.4	SS	490.2
RDE	-.6292	RRA	.3992	RC3	-.0370	FAU	.01459	RRT	-.2472	RRF	.2502	RTF	-.8205	CRT	.5422	CRS	.6469	CST	.9905
FDE	.4409	FRA	1.1269	FC3	-.1583	BSP	4373	SGB	1522.9	R23	-.0240	R13	.8216	LSA	787.8	MSA	316.3	SSA	16.2
BDE	.8723	BRA	2.0495	BC3	.2142	FSP	-183	SG1	1448.3	SG2	470.7	THA	174.66	EL1	619.4	EL2	311.4	ALF	30.14

LAUNCH DATE SEP 28 1965 FLIGHT TIME 98.00 ARRIVAL DATE JAN 4 1966

HELIOCENTRIC CONIC DISTANCE 219.781

RL	149.90	LAL	.00	LOL	4.66	VL	23.604	GAL	11.97	AZL	89.21	HCA	85.05	SMA	109.36	ECC	.41778	INC	.7870
RP	107.66	LAP	.78	LOP	89.72	VP	35.382	GAP	-24.68	AZP	89.93	TAL	162.20	TAP	247.26	RCA	63.67	APO	155.04
RC	49.288	GL	2.13	GP	-6.92	ZAL	50.94	ZAP	13.81	ETS	147.29	ZAE	146.09	ETE	195.84	ZAC	26.64	ETC	124.31

PLANETOCENTRIC CONIC																			
C3	73.150	VHL	8.553	DLA	-14.66	RAL	315.60	RAD	6569.4	VEL	13.946	PTH	2.55	VHP	15.052	DPA	-31.30	RAP	283.12
ECC	2.2039																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 52 53	2061.04	-15.57	31.99	195.79	113.95	10 27 14	1461.0	-12.20	24.93
90.00	17 59 9	5652.52	27.94	266.00	206.71	94.80	19 33 21	5052.5	28.31	257.36
100.00	11 6 20	1824.02	-17.11	13.83	195.06	114.89	11 36 44	1224.0	-13.62	6.79
100.00	19 28 22	5364.77	29.63	244.99	206.86	94.14	20 57 47	4764.8	29.89	236.19
110.00	11 56 58	1665.44	-21.14	359.71	192.96	117.51	12 24 43	1065.4	-17.29	352.70
110.00	20 54 14	5096.12	34.11	224.89	207.16	92.37	22 19 10	4496.1	34.06	215.64

DIFFERENTIAL CORRECTIONS								MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TDE	-.6089	TRA	-2.0197	TC3	-.2142	BAU	.2139	SGT	1502.2	SGR	486.4	SG3	79.5	ST	585.3	SR	402.6	SS	515.9
RDE	-.5882	RRA	.3972	RC3	-.0442	FAU	.01501	RRT	-.2686	RRF	.2734	RTF	-.8316	CRT	.5353	CRS	.6473	CST	.9894
FDE	.4677	FRA	1.1704	FC3	-.1776	BSP	4596	SGB	1579.0	R23	-.0272	R13	.8328	LSA	819.5	MSA	314.4	SSA	16.3
BDE	.8465	BRA	2.0584	BC3	.2187	FSP	-201	SG1	1508.5	SG2	466.6	THA	174.50	EL1	638.2	EL2	311.8	ALF	27.21

LAUNCH DATE SEP 28 1965 FLIGHT TIME 100.00 ARRIVAL DATE JAN 6 1966

HELIOCENTRIC CONIC DISTANCE 226.449

RL	149.90	LAL	.00	LOL	4.66	VL	23.902	GAL	11.42	AZL	89.03	HCA	88.28	SMA	110.65	ECC	.40012	INC	.9697
RP	107.63	LAP	.97	LOP	92.95	VP	35.590	GAP	-23.54	AZP	89.97	TAL	161.76	TAP	250.04	RCA	66.37	APO	154.92
RC	47.809	GL	2.77	GP	-7.31	ZAL	50.36	ZAP	12.85	ETS	142.72	ZAE	147.48	ETE	198.42	ZAC	28.09	ETC	126.90

PLANETOCENTRIC CONIC																			
C3	67.117	VHL	8.192	DLA	-13.87	RAL	316.00	RAD	6569.3	VEL	13.728	PTH	2.51	VHP	14.427	DPA	-31.60	RAP	285.29
ECC	2.1046																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 47 24	2068.58	-15.78	32.44	194.90	113.82	10 21 52	1468.6	-12.43	25.37
90.00	18 7 51	5604.29	28.17	262.49	205.18	93.05	19 41 15	5004.3	28.29	253.83
100.00	11 1 25	1829.76	-17.28	14.18	194.19	114.78	11 31 54	1229.8	-13.79	7.12
100.00	19 36 31	5318.34	29.81	241.55	205.27	92.34	21 5 9	4718.3	29.82	232.74
110.00	11 53 14	1667.47	-21.21	359.83	192.16	117.46	12 21 1	1067.5	-17.36	352.81
110.00	21 1 12	5053.39	34.18	221.55	205.39	90.40	22 25 25	4453.4	33.86	212.32

DIFFERENTIAL CORRECTIONS								MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TDE	-.6134	TRA	-2.0282	TC3	-.2162	BAU	.1996	SGT	1563.4	SGR	485.0	SG3	86.2	ST	613.4	SR	392.4	SS	543.0
RDE	-.5476	RRA	.3956	RC3	-.0524	FAU	.01547	RRT	-.2923	RRF	.2992	RTF	-.8420	CRT	.5270	CRS	.6464	CST	.9882
FDE	.4965	FRA	1.2163	FC3	-.1996	BSP	4819	SGB	1636.9	R23	-.0309	R13	.8433	LSA	853.1	MSA	311.6	SSA	16.4
BDE	.8222	BRA	2.0664	BC3	.2224	FSP	-220	SG1	1570.4	SG2	461.7	THA	174.33	EL1	658.6	EL2	310.6	ALF	24.39

LAUNCH DATE SEP 28 1965 FLIGHT TIME 102.00 ARRIVAL DATE JAN 8 1966

DISTANCE 233.149

HELIOCENTRIC CONIC

RL 149.90 LAL .00 LOL 4.66 VL 24.181 GAL 10.89 AZL 88.85 HCA 91.52 SMA 111.90 ECC .38327 INC 1.1519 V1 29.726
RP 107.61 LAP 1.15 LOP 96.18 VP 35.786 GAP -22.43 AZP 90.03 TAL 161.35 TAP 252.87 RCA 69.01 APO 154.79 V2 35.217
RC 46.433 GL 3.49 GP -7.73 ZAL 49.84 ZAP 12.00 ETS 137.28 ZAE 148.93 ETE 201.43 ZAC 29.61 ETC 129.19 CLP 9.21

PLANETOCENTRIC CONIC

C3 61.636 VHL 7.851 DLA -13.03 RAL 316.33 RAD 6569.1 VEL 13.527 PTH 2.47 VHP 13.823 DPA -31.91 RAP 287.48 ECC 2.0144

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 41 23	2077.11	-16.01	32.96	193.95	113.67	10 16 0	1477.1	-12.68	25.87
90.00	18 16 30	5554.78	28.29	258.87	203.52	91.25	19 49 5	4954.8	-28.17	250.21
100.00	10 55 57	1836.50	-17.47	14.59	193.26	114.65	11 26 34	1236.5	-14.00	7.52
100.00	19 44 37	5270.63	29.89	238.00	203.55	90.48	21 12 28	4670.6	29.64	229.21
110.00	11 48 59	1670.44	-21.30	.01	191.28	117.39	12 16 49	1070.4	-17.46	352.99
110.00	21 8 5	5009.45	34.15	218.12	203.50	88.37	22 31 35	4409.4	33.55	208.93

DIFFERENTIAL CORRECTIONS

TDE -.6172 TRA-2.0352 TC3 -.2163 BAU .1854
RDE -.5074 RRA .3944 RC3 -.0618 FAU .01599
FDE .5274 FRA 1.2649 FC3 -.2246 BSP 5055
BDE .7991 BRA 2.0731 BC3 .2249 FSP -241

MID-COURSE EXECUTION ACCURACY

SGT 1625.6 SGR 483.6 SG3 93.5
RRT -.3188 RRF .3281 RTF -.8519
SGB 1696.0 R23 -.0351 R13 .8533
SG1 1633.5 SG2 456.1 THA 174.12

ORBIT DETERMINATION ACCURACY

ST 642.0 SR 380.8 SS 571.6
CRT .5166 CRS .6437 CST .9870
LSA 888.2 MSA 307.9 SSA 16.5
EL1 680.1 EL2 307.8 ALF 21.70

LAUNCH DATE SEP 28 1965 FLIGHT TIME 104.00 ARRIVAL DATE JAN 10 1966

DISTANCE 239.877

HELIOCENTRIC CONIC

RL 149.90 LAL .00 LOL 4.66 VL 24.442 GAL 10.39 AZL 88.67 HCA 94.76 SMA 113.11 ECC .36723 INC 1.3347 V1 29.726
RP 107.58 LAP 1.33 LOP 99.42 VP 35.970 GAP -21.37 AZP 90.11 TAL 160.99 TAP 255.74 RCA 71.57 APO 154.64 V2 35.224
RC 45.168 GL 4.27 GP -8.21 ZAL 49.39 ZAP 11.31 ETS 130.90 ZAE 150.40 ETE 204.97 ZAC 31.21 ETC 131.22 CLP 7.81

PLANETOCENTRIC CONIC

C3 56.664 VHL 7.528 DLA -12.14 RAL 316.59 RAD 6569.0 VEL 13.342 PTH 2.44 VHP 13.240 DPA -32.24 RAP 289.67 ECC 1.9325

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 34 48	2086.90	-16.28	33.56	192.93	113.49	10 9 35	1486.9	-12.96	26.45
90.00	18 25 9	5503.94	28.31	255.16	201.76	89.38	19 56 52	4903.9	27.92	246.51
100.00	10 49 56	1844.47	-17.70	15.07	192.27	114.49	11 20 41	1244.5	-14.24	7.98
100.00	19 52 41	5221.61	29.86	234.36	201.73	88.56	21 19 43	4621.6	29.34	225.59
110.00	11 44 11	1674.58	-21.43	.26	190.35	117.29	12 12 6	1074.6	-17.60	353.22
110.00	21 14 56	4964.26	34.01	214.60	201.51	86.29	22 37 40	4364.3	33.12	205.47

DIFFERENTIAL CORRECTIONS

TDE -.6212 TRA-2.0415 TC3 -.2146 BAU .1716
RDE -.4677 RRA .3939 RC3 -.0726 FAU .01655
FDE .5608 FRA 1.3166 FC3 -.2529 BSP 5287
BDE .7776 BRA 2.0791 BC3 .2265 FSP -264

MID-COURSE EXECUTION ACCURACY

SGT 1689.4 SGR 482.4 SG3 101.4
RRT -.3483 RRF .3603 RTF -.8613
SGB 1756.9 R23 -.0399 R13 .8628
SG1 1698.4 SG2 449.8 THA 173.89

ORBIT DETERMINATION ACCURACY

ST 671.6 SR 367.7 SS 602.0
CRT .5041 CRS .6389 CST .9857
LSA 925.3 MSA 303.5 SSA 16.6
EL1 703.0 EL2 303.4 ALF 19.12

LAUNCH DATE SEP 28 1965 FLIGHT TIME 106.00 ARRIVAL DATE JAN 12 1966

DISTANCE 246.628

HELIOCENTRIC CONIC

RL 149.90 LAL .00 LOL 4.66 VL 24.685 GAL 9.90 AZL 88.48 HCA 97.99 SMA 114.27 ECC .35197 INC 1.5193 V1 29.726
RP 107.56 LAP 1.50 LOP 102.66 VP 36.142 GAP -20.34 AZP 90.21 TAL 160.66 TAP 258.65 RCA 74.05 APO 154.49 V2 35.231
RC 44.025 GL 5.12 GP -8.73 ZAL 49.01 ZAP 10.81 ETS 123.58 ZAE 151.86 ETE 209.13 ZAC 32.86 ETC 133.00 CLP 6.40

PLANETOCENTRIC CONIC

C3 52.161 VHL 7.222 DLA -11.19 RAL 316.77 RAD 6568.9 VEL 13.173 PTH 2.41 VHP 12.676 DPA -32.59 RAP 291.87 ECC 1.8584

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 27 36	2098.24	-16.59	34.25	191.87	113.28	10 2 34	1498.2	-13.29	27.12
90.00	18 33 47	5451.71	28.21	251.34	199.89	87.47	20 4 39	4851.7	27.56	242.73
100.00	10 43 19	1853.96	-17.96	15.65	191.23	114.30	11 14 13	1254.0	-14.53	8.54
100.00	20 0 45	5171.22	29.72	230.62	199.80	86.60	21 26 57	4571.2	28.93	221.90
110.00	11 38 49	1680.15	-21.60	.60	189.37	117.16	12 6 49	1080.1	-17.79	353.55
110.00	21 21 45	4917.80	33.74	210.99	199.42	84.17	22 43 42	4317.8	32.57	201.96

DIFFERENTIAL CORRECTIONS

TDE -.6248 TRA-2.0461 TC3 -.2106 BAU .1583
RDE -.4282 RRA .3943 RC3 -.0848 FAU .01717
FDE .5971 FRA 1.3715 FC3 -.2850 BSP 5525
BDE .7574 BRA 2.0838 BC3 .2270 FSP -290

MID-COURSE EXECUTION ACCURACY

SGT 1753.9 SGR 481.8 SG3 110.1
RRT -.3811 RRF .3961 RTF -.8701
SGB 1818.9 R23 -.0453 R13 .8717
SG1 1764.2 SG2 442.8 THA 173.62

ORBIT DETERMINATION ACCURACY

ST 701.5 SR 353.0 SS 634.1
CRT .4884 CRS .6314 CST .9844
LSA 964.2 MSA 298.2 SSA 16.7
EL1 726.9 EL2 297.3 ALF 16.67

LAUNCH DATE SEP 28 1965 FLIGHT TIME 108.00 ARRIVAL DATE JAN 14 1966

DISTANCE 253.398

HELIOCENTRIC CONIC

RL 149.90 LAL .00 LOL 4.66 VL 24.912 GAL 9.43 AZL 88.29 HCA 101.23 SMA 115.39 ECC .33749 INC 1.7069 V1 29.726
RP 107.55 LAP 1.67 LOP 105.90 VP 36.303 GAP -19.35 AZP 90.33 TAL 160.37 TAP 261.61 RCA 76.45 APO 154.33 V2 35.237
RC 43.015 GL 6.06 GP -9.31 ZAL 48.69 ZAP 10.55 ETS 115.47 ZAE 153.25 ETE 214.00 ZAC 34.57 ETC 134.56 CLP 4.98

PLANETOCENTRIC CONIC

C3 48.090 VHL 6.935 DLA -10.18 RAL 316.87 RAD 6568.8 VEL 13.017 PTH 2.37 VHP 12.133 DPA -32.98 RAP 294.07 ECC 1.7914

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 19 44	2111.43	-16.94	35.05	190.76	113.04	9 54 55	1511.4	-13.68	27.90
90.00	18 42 29	5398.03	27.99	247.43	197.93	85.52	20 12 27	4798.0	27.07	238.88
100.00	10 36 2	1865.27	-18.28	16.34	190.14	114.07	11 7 7	1265.3	-14.87	9.21
100.00	20 8 52	5119.42	29.45	226.79	197.79	84.60	21 34 12	4519.4	28.39	218.15
110.00	11 32 50	1687.43	-21.83	1.05	188.34	116.98	12 0 57	1087.4	-18.03	353.97
110.00	21 28 34	4870.02	33.35	207.32	197.25	82.03	22 49 44	4270.0	31.89	198.40

DIFFERENTIAL CORRECTIONS

TDE -.6289 TRA-2.0501 TC3 -.2041 BAU .1458
RDE -.3889 RRA .3960 RC3 -.0986 FAU .01785
FDE .6369 FRA 1.4303 FC3 -.3213 BSP 5758
BDE .7394 BRA 2.0880 BC3 .2267 FSP -318

MID-COURSE EXECUTION ACCURACY

SGT 1819.8 SGR 482.1 SG3 119.6
RRT -.4175 RRF .4359 RTF -.8785
SGB 1882.6 R23 -.0515 R13 .8803
SG1 1831.6 SG2 435.3 THA 173.31

ORBIT DETERMINATION ACCURACY

ST 732.5 SR 336.4 SS 668.6
CRT .4686 CRS .6202 CST .9830
LSA 1005.6 MSA 292.2 SSA 16.7
EL1 752.3 EL2 289.4 ALF 14.31

LAUNCH DATE SEP 28 1965 FLIGHT TIME 110.00 ARRIVAL DATE JAN 16 1966

HELIOCENTRIC CONIC DISTANCE 260.184

RL 149.90 LAL .00 LOL 4.66 VL 25.124 GAL 8.99 AZL 88.10 HCA 104.47 SMA 116.46 ECC .32377 INC 1.8988 VI 29.726
RP 107.53 LAP 1.84 LOP 109.14 VP 36.454 GAP -18.39 AZP 90.47 TAL 160.13 TAP 264.60 RCA 78.75 APO 154.17 V2 35.242
RC 42.147 GL 7.09 GP -9.96 ZAL 48.46 ZAP 10.57 ETS 106.93 ZAE 154.49 ETE 219.68 ZAC 36.34 ETC 135.91 CLP 3.55

PLANETOCENTRIC CONIC

C3 44.421 VHL 6.665 DLA -9.10 RAL 316.90 RAD 6568.7 VEL 12.876 PTH 2.35 VHP 11.609 DPA -33.40 RAP 296.29 ECC 1.7311

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 11 9	2126.82	-17.35	36.00	189.62	112.74	9 46 36	1526.8	-14.12	28.81
90.00	18 51 16	5342.81	27.63	243.43	195.91	83.55	20 20 19	4742.8	26.45	234.96
100.00	10 28 3	1878.74	-18.65	17.17	189.03	113.79	10 59 22	1278.7	-15.28	10.00
100.00	20 17 3	5066.12	29.04	222.88	195.71	82.58	21 41 30	4466.1	27.71	214.33
110.00	11 26 10	1696.73	-22.11	1.62	187.28	116.76	11 54 27	1096.7	-18.34	354.51
110.00	21 35 25	4820.89	32.82	203.58	195.03	79.88	22 55 46	4220.9	31.08	194.80

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.6334 TRA-2.0526 TC3 -.1950 BAU .1342 SGT 1886.1 SGR 483.9 SG3 130.0 ST 764.2 SR 318.0 SS 705.4
RDE -.3495 RRA .3991 RC3 -.1143 FAU .01858 RRT -.4576 RRF .4798 RTF -.8864 CRT .4434 CRS .6039 CST .9816
FDE .6806 FRA 1.4931 FC3 -.3622 BSP 5996 SGB 1947.2 R23 -.0587 R13 .8883 LSA 1049.3 MSA 285.4 SSA 16.8
BDE .7235 BRA 2.0911 BC3 .2260 FSP -349 SG1 1899.8 SG2 427.2 THA 172.95 EL1 779.1 EL2 279.6 ALF 12.03

LAUNCH DATE SEP 28 1965 FLIGHT TIME 112.00 ARRIVAL DATE JAN 18 1966

HELIOCENTRIC CONIC DISTANCE 266.982

RL 149.90 LAL .00 LOL 4.66 VL 25.321 GAL 8.57 AZL 87.90 HCA 107.71 SMA 117.49 ECC .31080 INC 2.0965 VI 29.726
RP 107.51 LAP 2.00 LOP 112.38 VP 36.595 GAP -17.46 AZP 90.64 TAL 159.93 TAP 267.64 RCA 80.97 APO 154.00 V2 35.247
RC 41.430 GL 8.21 GP -10.69 ZAL 48.31 ZAP 10.89 ETS 98.42 ZAE 155.51 ETE 226.17 ZAC 38.15 ETC 137.08 CLP 2.10

PLANETOCENTRIC CONIC

C3 41.124 VHL 6.413 DLA -7.94 RAL 316.84 RAD 6568.6 VEL 12.747 PTH 2.32 VHP 11.105 DPA -33.88 RAP 298.51 ECC 1.6768

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 1 47	2144.80	-17.82	37.11	188.45	112.38	9 37 32	1544.8	-14.63	29.89
90.00	19 0 12	5285.96	27.13	239.34	193.82	81.56	20 28 18	4686.0	25.68	230.97
100.00	10 19 18	1894.73	-19.09	18.16	187.89	113.45	10 50 53	1294.7	-15.75	10.95
100.00	20 25 22	5011.26	28.49	218.90	193.58	80.55	21 48 53	4411.3	26.89	210.46
110.00	11 18 49	1708.40	-22.47	2.33	186.20	116.46	11 47 17	1108.4	-18.73	355.19
110.00	21 42 21	4770.35	32.16	199.79	192.76	77.72	23 1 51	4170.4	30.13	191.16

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.6384 TRA-2.0541 TC3 -.1827 BAU .1240 SGT 1952.9 SGR 488.0 SG3 141.4 ST 796.5 SR 297.6 SS 745.0
RDE -.3097 RRA .4040 RC3 -.1321 FAU .01939 RRT -.5014 RRF .5276 RTF -.8937 CRT .4097 CRS .5800 CST .9802
FDE .7290 FRA 1.5603 FC3 -.4082 BSP 6244 SGB 2013.0 R23 -.0669 R13 .8959 LSA 1095.6 MSA 278.1 SSA 16.8
BDE .7096 BRA 2.0935 BC3 .2255 FSP -383 SG1 1968.9 SG2 418.8 THA 172.52 EL1 807.0 EL2 268.0 ALF 9.79

LAUNCH DATE SEP 28 1965 FLIGHT TIME 114.00 ARRIVAL DATE JAN 20 1966

HELIOCENTRIC CONIC DISTANCE 273.787

RL 149.90 LAL .00 LOL 4.66 VL 25.504 GAL 8.16 AZL 87.70 HCA 110.95 SMA 118.46 ECC .29855 INC 2.3016 VI 29.726
RP 107.50 LAP 2.15 LOP 115.63 VP 36.726 GAP -16.56 AZP 90.82 TAL 159.77 TAP 270.72 RCA 83.10 APO 153.83 V2 35.251
RC 40.873 GL 9.44 GP -11.51 ZAL 48.25 ZAP 11.53 ETS 90.43 ZAE 156.19 ETE 233.42 ZAC 40.01 ETC 138.07 CLP .62

PLANETOCENTRIC CONIC

C3 38.173 VHL 6.178 DLA -6.69 RAL 316.71 RAD 6568.5 VEL 12.631 PTH 2.29 VHP 10.621 DPA -34.42 RAP 300.73 ECC 1.6282

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 51 34	2165.77	-18.35	38.41	187.28	111.95	9 27 40	1565.8	-15.22	31.14
90.00	19 9 19	5227.37	26.47	235.18	191.70	79.57	20 36 26	4627.4	24.77	226.93
100.00	10 9 43	1913.65	-19.59	19.33	186.74	113.04	10 41 37	1313.6	-16.31	12.08
100.00	20 33 51	4954.72	27.79	214.84	191.41	78.53	21 56 25	4354.7	25.93	206.54
110.00	11 10 41	1722.81	-22.90	3.23	185.12	116.10	11 39 23	1122.8	-19.21	356.04
110.00	21 49 23	4718.33	31.34	195.96	190.48	75.59	23 8 1	4118.3	29.04	187.50

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.6424 TRA-2.0512 TC3 -.1662 BAU .1149 SGT 2016.3 SGR 495.1 SG3 153.9 ST 827.7 SR 275.1 SS 787.5
RDE -.2693 RRA .4112 RC3 -.1520 FAU .02026 RRT -.5490 RRF .5789 RTF -.9008 CRT .3630 CRS .5447 CST .9786
FDE .7829 FRA 1.6322 FC3 -.4594 BSP 6501 SGB 2076.2 R23 -.0753 R13 .9033 LSA 1143.5 MSA 270.4 SSA 16.8
BDE .6966 BRA 2.0921 BC3 .2252 FSP -420 SG1 2035.3 SG2 409.9 THA 172.00 EL1 834.3 EL2 254.3 ALF 7.59

LAUNCH DATE SEP 28 1965 FLIGHT TIME 116.00 ARRIVAL DATE JAN 22 1966

HELIOCENTRIC CONIC DISTANCE 280.598

RL 149.90 LAL .00 LOL 4.66 VL 25.675 GAL 7.78 AZL 87.48 HCA 114.19 SMA 119.39 ECC .28702 INC 2.5157 VI 29.726
RP 107.49 LAP 2.29 LOP 118.87 VP 36.847 GAP -15.69 AZP 91.03 TAL 159.65 TAP 273.84 RCA 85.13 APO 153.66 V2 35.254
RC 40.482 GL 10.79 GP -12.43 ZAL 48.28 ZAP 12.46 ETS 83.30 ZAE 156.46 ETE 241.21 ZAC 41.91 ETC 138.90 CLP -.88

PLANETOCENTRIC CONIC

C3 35.546 VHL 5.962 DLA -5.34 RAL 316.49 RAD 6568.4 VEL 12.527 PTH 2.27 VHP 10.156 DPA -35.03 RAP 302.97 ECC 1.5850

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 40 26	2190.19	-18.97	39.94	186.12	111.43	9 16 56	1590.2	-15.89	32.62
90.00	19 18 41	5166.91	25.66	230.94	189.56	77.59	20 44 48	4566.9	23.69	222.82
100.00	9 59 15	1935.93	-20.18	20.73	185.60	112.53	10 31 31	1335.9	-16.95	13.42
100.00	20 42 33	4896.41	26.93	210.72	189.23	76.52	22 4 10	4296.4	24.81	202.56
110.00	11 1 43	1740.36	-23.43	4.32	184.04	115.64	11 30 43	1140.4	-19.78	357.08
110.00	21 56 35	4664.74	30.37	192.08	188.18	73.49	23 14 19	4064.7	27.81	183.83

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.6516 TRA-2.0530 TC3 -.1481 BAU .1087 SGT 2085.7 SGR 506.4 SG3 167.5 ST 863.4 SR 250.8 SS 833.6
RDE -.2279 RRA .4212 RC3 -.1743 FAU .02118 RRT -.5981 RRF .6327 RTF -.9073 CRT .2987 CRS .4913 CST .9775
FDE .8434 FRA 1.7095 FC3 -.5160 BSP 6726 SGB 2146.3 R23 -.0862 R13 .9102 LSA 1197.6 MSA 262.1 SSA 16.7
BDE .6903 BRA 2.0958 BC3 .2287 FSP -460 SG1 2108.4 SG2 401.4 THA 171.42 EL1 866.9 EL2 238.3 ALF 5.36

LAUNCH DATE SEP 28 1965 FLIGHT TIME 118.00 ARRIVAL DATE JAN 24 1966

DISTANCE 287.410

HELIOCENTRIC CONIC

RL 149.90 LAL .00 LOL 4.66 VL 25.833 GAL 7.41 AZL 87.26 HCA 117.43 SMA 120.28 ECC .27617 INC 2.7411 V1 29.726
RP 107.48 LAP 2.43 LOP 122.12 VP 36.960 GAP -14.35 AZP 91.26 TAL 159.57 TAP 277.00 RCA 87.06 APO 153.49 V2 35.256
RC 40.263 GL 12.27 GP -13.47 ZAL 48.42 ZAP 13.68 ETS 77.19 ZAE 156.24 ETE 249.19 ZAC 43.87 ETC 139.57 CLP -2.41

PLANETOCENTRIC CONIC

C3 33.224 VHL 5.764 DLA -3.89 RAL 316.18 RAD 6568.3 VEL 12.434 PTH 2.25 VHP 9.713 DPA -35.74 RAP 305.23 ECC 1.5468

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 28 16	2218.58	-19.67	41.74	184.98	110.79	9 5 14	1618.6	-16.66	34.35
90.00	19 28 24	5104.42	24.67	226.63	187.42	75.65	20 53 28	4504.4	22.46	218.66
100.00	9 47 47	1962.07	-20.86	22.38	184.49	111.91	10 20 29	1362.1	-17.70	15.01
100.00	20 51 34	4836.17	25.91	206.54	187.05	74.55	22 12 10	4236.2	23.54	198.54
110.00	10 51 50	1761.51	-24.04	5.66	182.99	115.07	11 21 12	1161.5	-20.46	358.34
110.00	22 3 59	4609.49	29.23	188.18	185.91	71.44	23 20 49	4009.5	26.42	180.13

DIFFERENTIAL CORRECTIONS

TDE -.6604 TRA-2.0511 TC3 -.1258 BAU .1046
RDE -.1848 RRA .4345 RC3 -.1992 FAU .02218
FDE .9114 FRA 1.7922 FC3 -.5780 BSP 6964
BDE .6857 BRA 2.0966 BC3 .2356 FSP -505

MID-COURSE EXECUTION ACCURACY

SGT 2151.3 SGR 523.3 SG3 182.3
RRT -.6491 RRF .6878 RTF -.9135
SGB 2214.0 R23 -.0977 R13 .9168
SG1 2178.9 SG2 393.1 THA 170.72

ORBIT DETERMINATION ACCURACY

ST 898.2 SR 225.1 SS 883.4
CRT .2029 CRS .4083 CST .9762
LSA 1254.2 MSA 253.7 SSA 16.6
EL1 899.4 EL2 220.1 ALF 3.10

LAUNCH DATE SEP 28 1965 FLIGHT TIME 120.00 ARRIVAL DATE JAN 26 1966

DISTANCE 294.222

HELIOCENTRIC CONIC

RL 149.90 LAL .00 LOL 4.66 VL 25.980 GAL 7.06 AZL 87.02 HCA 120.67 SMA 121.11 ECC .26599 INC 2.9801 V1 29.726
RP 107.48 LAP 2.56 LOP 125.37 VP 37.065 GAP -14.04 AZP 91.52 TAL 159.53 TAP 280.20 RCA 88.90 APO 153.33 V2 35.258
RC 40.219 GL 13.89 GP -14.66 ZAL 48.67 ZAP 15.17 ETS 72.14 ZAE 155.50 ETE 256.96 ZAC 45.89 ETC 140.10 CLP -3.97

PLANETOCENTRIC CONIC

C3 31.192 VHL 5.585 DLA -2.33 RAL 315.78 RAD 6568.2 VEL 12.352 PTH 2.23 VHP 9.290 DPA -36.57 RAP 307.51 ECC 1.5133

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 14 58	2251.51	-20.45	43.83	183.89	110.03	8 52 29	1651.5	-17.53	36.37
90.00	19 38 31	5039.71	23.51	222.24	185.30	73.75	21 2 30	4439.7	21.06	214.43
100.00	9 35 14	1992.61	-21.62	24.32	183.41	111.16	10 8 26	1392.6	-18.55	16.87
100.00	21 0 56	4773.85	24.71	202.30	184.90	72.62	22 20 30	4173.8	22.10	194.47
110.00	10 40 59	1786.76	-24.76	7.27	181.98	114.36	11 10 46	1186.8	-21.26	359.86
110.00	22 11 40	4552.47	27.93	184.25	183.67	69.44	23 27 32	3952.5	24.88	176.41

DIFFERENTIAL CORRECTIONS

TDE -.6691 TRA-2.0457 TC3 -.0969 BAU .1029
RDE -.1395 RRA .4516 RC3 -.2270 FAU .02328
FDE .9872 FRA 1.8793 FC3 -.6462 BSP 7264
BDE .6835 BRA 2.0949 BC3 .2469 FSP -556

MID-COURSE EXECUTION ACCURACY

SGT 2212.4 SGR 547.5 SG3 198.3
RRT -.7002 RRF .7421 RTF -.9195
SGB 2279.1 R23 -.1094 R13 .9233
SG1 2246.4 SG2 385.0 THA 169.87

ORBIT DETERMINATION ACCURACY

ST 931.8 SR 199.7 SS 936.5
CRT .0571 CRS .2759 CST .9749
LSA 1313.2 MSA 245.7 SSA 16.4
EL1 931.8 EL2 199.4 ALF .74

LAUNCH DATE SEP 28 1965 FLIGHT TIME 122.00 ARRIVAL DATE JAN 28 1966

DISTANCE 301.029

HELIOCENTRIC CONIC

RL 149.90 LAL .00 LOL 4.66 VL 26.116 GAL 6.73 AZL 86.76 HCA 123.91 SMA 121.90 ECC .25646 INC 3.2358 V1 29.726
RP 107.48 LAP 2.68 LOP 128.62 VP 37.161 GAP -13.25 AZP 91.81 TAL 159.52 TAP 283.44 RCA 90.64 APO 153.16 V2 35.259
RC 40.350 GL 15.65 GP -16.00 ZAL 49.05 ZAP 16.92 ETS 68.05 ZAE 154.25 ETE 264.12 ZAC 47.97 ETC 140.49 CLP -5.57

PLANETOCENTRIC CONIC

C3 29.439 VHL 5.426 DLA -.63 RAL 315.29 RAD 6568.2 VEL 12.281 PTH 2.21 VHP 8.890 DPA -37.53 RAP 309.82 ECC 1.4845

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 0 25	2289.63	-21.32	46.29	182.86	109.09	8 38 35	1689.6	-18.52	38.74
90.00	19 49 9	4972.58	22.16	217.79	183.23	71.91	21 12 1	4372.6	19.48	210.14
100.00	9 21 28	2028.18	-22.48	26.62	182.41	110.24	9 55 17	1428.2	-19.52	19.07
100.00	21 10 47	4709.25	23.33	197.99	182.80	70.76	22 29 16	4109.3	20.49	190.35
110.00	10 29 3	1816.66	-25.59	9.20	181.04	113.48	10 59 19	1216.7	-22.19	1.69
110.00	22 19 42	4493.54	26.46	180.31	181.48	67.52	23 34 35	3893.5	23.18	172.68

DIFFERENTIAL CORRECTIONS

TDE -.6834 TRA-2.0421 TC3 -.0683 BAU .1049
RDE -.0907 RRA .4737 RC3 -.2575 FAU .02438
FDE 1.0745 FRA 1.9731 FC3 -.7170 BSP 7497
BDE .6894 BRA 2.0964 BC3 .2665 FSP -608

MID-COURSE EXECUTION ACCURACY

SGT 2275.4 SGR 581.0 SG3 215.7
RRT -.7481 RRF .7935 RTF -.9249
SGB 2348.4 R23 -.1233 R13 .9294
SG1 2317.7 SG2 378.5 THA 168.88

ORBIT DETERMINATION ACCURACY

ST 969.2 SR 178.3 SS 995.2
CRT -.1617 CRS .0637 CST .9741
LSA 1380.2 MSA 237.6 SSA 16.1
EL1 969.7 EL2 175.8 ALF 178.24

LAUNCH DATE SEP 28 1965 FLIGHT TIME 124.00 ARRIVAL DATE JAN 30 1966

DISTANCE 307.831

HELIOCENTRIC CONIC

RL 149.90 LAL .00 LOL 4.66 VL 26.242 GAL 6.42 AZL 86.49 HCA 127.15 SMA 122.64 ECC .24755 INC 3.5117 V1 29.726
RP 107.48 LAP 2.80 LOP 131.87 VP 37.250 GAP -12.48 AZP 92.12 TAL 159.55 TAP 286.71 RCA 92.28 APO 153.00 V2 35.259
RC 40.657 GL 17.58 GP -17.54 ZAL 49.56 ZAP 18.92 ETS 64.81 ZAE 152.53 ETE 270.41 ZAC 50.12 ETC 140.74 CLP -7.21

PLANETOCENTRIC CONIC

C3 27.958 VHL 5.288 DLA 1.21 RAL 314.70 RAD 6568.1 VEL 12.220 PTH 2.20 VHP 8.514 DPA -38.66 RAP 312.18 ECC 1.4601

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 44 28	2333.69	-22.27	49.17	181.92	107.96	8 23 22	1733.7	-19.61	41.51
90.00	20 0 26	4902.73	20.61	213.25	181.23	70.15	21 22 9	4302.7	17.72	205.77
100.00	9 6 22	2069.50	-23.42	29.32	181.50	109.12	9 40 52	1469.5	-20.60	21.67
100.00	21 21 13	4642.15	21.75	193.63	180.77	68.98	22 38 35	4042.2	18.70	186.17
110.00	10 15 55	1851.85	-26.52	11.51	180.21	112.40	10 46 46	1251.8	-23.25	3.87
110.00	22 28 10	4432.57	24.81	176.33	179.38	65.69	23 42 3	3832.6	21.32	168.93

DIFFERENTIAL CORRECTIONS

TDE -.7014 TRA-2.0379 TC3 -.0377 BAU .1096
RDE -.0373 RRA .5017 RC3 -.2908 FAU .02550
FDE 1.1741 FRA 2.0720 FC3 -.7896 BSP 7723
BDE .7024 BRA 2.0987 BC3 .2933 FSP -664

MID-COURSE EXECUTION ACCURACY

SGT 2336.2 SGR 626.0 SG3 234.4
RRT -.7918 RRF .8400 RTF -.9300
SGB 2418.6 R23 -.1379 R13 .9352
SG1 2389.6 SG2 373.8 THA 167.71

ORBIT DETERMINATION ACCURACY

ST 1008.3 SR 168.3 SS 1059.2
CRT -.4558 CRS -.2422 CST .9735
LSA 1453.9 MSA 230.1 SSA 15.6
EL1 1011.3 EL2 149.4 ALF 175.55

LAUNCH DATE SEP 28 1965 FLIGHT TIME 126.00 ARRIVAL DATE FEB 1 1966

HELIOCENTRIC CONIC DISTANCE 314.624

RL 149.90 LAL .00 LOL 4.66 VL 26.358 GAL 6.13 AZL 86.19 HCA 130.39 SMA 123.34 ECC .23925 INC 3.8123 VI 29.726
RP 107.48 LAP 2.90 LOP 135.12 VP 37.331 GAP -11.74 AZP 92.47 TAL 159.62 TAP 290.01 RCA 93.83 APO 152.85 V2 35.258
RC 41.135 GL 19.69 GP -19.30 ZAL 50.23 ZAP 21.18 ETS 62.29 ZAE 150.38 ETE 275.70 ZAC 52.37 ETC 140.86 CLP -8.90

PLANETOCENTRIC CONIC

C3 26.749 VHL 5.172 DLA 3.20 RAL 314.02 RAD 6568.1 VEL 12.171 PTH 2.18 VHP 8.163 DPA -39.99 RAP 314.61 ECC 1.4402

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 26 55	2384.58	-23.30	52.55	181.11	106.57	8 6 40	1784.6	-20.81	44.76
90.00	20 12 31	4829.84	18.86	208.62	179.33	68.48	21 33 1	4229.8	15.77	201.31
100.00	8 49 46	2117.39	-24.45	32.51	180.72	107.75	9 25 3	1517.4	-21.80	24.72
100.00	21 32 22	4572.26	19.98	189.20	178.84	67.29	22 48 34	3972.3	16.73	181.91
110.00	10 1 26	1893.05	-27.56	14.26	179.50	111.07	10 32 59	1293.0	-24.44	6.48
110.00	22 37 11	4369.37	22.98	172.34	177.38	63.97	23 50 0	3769.4	19.29	165.14

DIFFERENTIAL CORRECTIONS

TDE -.7233 TRA-2.0327 TC3 -.0053 BAU .1169
RDE .0224 RRA .5367 RC3 -.3268 FAU .02661
FDE 1.2873 FRA 2.1747 FC3 -.8612 BSP 7961
BDE .7237 BRA 2.1024 BC3 .3268 FSP -725

MID-COURSE EXECUTION ACCURACY

SGT 2393.5 SGR 685.2 SG3 254.1
RRT -.8300 RRF .8800 RTF -.9347
SGB 2489.7 R23 -.1524 R13 .9410
SG1 2461.8 SG2 371.6 THA 166.32

ORBIT DETERMINATION ACCURACY

ST 1048.8 SR 180.7 SS 1128.2
CRT -.7429 CRS -.5709 CST .9732
LSA 1534.7 MSA 223.5 SSA 15.1
EL1 1057.4 EL2 119.9 ALF 172.61

LAUNCH DATE SEP 28 1965 FLIGHT TIME 128.00 ARRIVAL DATE FEB 3 1966

HELIOCENTRIC CONIC DISTANCE 321.407

RL 149.90 LAL .00 LOL 4.66 VL 26.465 GAL 5.86 AZL 85.86 HCA 133.63 SMA 123.99 ECC .23154 INC 4.1434 VI 29.726
RP 107.48 LAP 3.00 LOP 138.37 VP 37.405 GAP -11.02 AZP 92.86 TAL 159.71 TAP 293.34 RCA 95.28 APO 152.70 V2 35.257
RC 41.780 GL 21.99 GP -21.33 ZAL 51.05 ZAP 23.72 ETS 60.38 ZAE 147.88 ETE 279.99 ZAC 54.72 ETC 140.86 CLP -10.63

PLANETOCENTRIC CONIC

C3 25.817 VHL 5.081 DLA 5.36 RAL 313.23 RAD 6568.0 VEL 12.132 PTH 2.17 VHP 7.842 DPA -41.56 RAP 317.14 ECC 1.4249

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 7 32	2443.38	-24.38	56.51	180.46	104.86	7 48 15	1843.4	-22.10	48.58
90.00	20 25 38	4753.48	16.89	203.89	177.56	66.93	21 44 51	4153.5	13.62	196.73
100.00	8 31 24	2172.85	-25.55	36.26	180.10	106.06	9 7 37	1572.8	-23.10	28.32
100.00	21 44 26	4499.24	18.00	184.68	177.05	65.72	22 59 25	3899.2	14.57	177.57
110.00	9 45 27	1941.11	-28.69	17.54	178.97	109.43	10 17 48	1341.1	-25.77	9.58
110.00	22 46 53	4303.74	20.96	168.31	175.52	62.36	23 58 37	3703.7	17.10	161.32

DIFFERENTIAL CORRECTIONS

TDE -.7506 TRA-2.0273 TC3 .0275 BAU .1263
RDE .0906 RRA .5802 RC3 -.3649 FAU .02766
FDE 1.4158 FRA 2.2794 FC3 -.9275 BSP 8197
BDE .7561 BRA 2.1087 BC3 .3660 FSP -788

MID-COURSE EXECUTION ACCURACY

SGT 2447.3 SGR 761.5 SG3 274.6
RRT -.8617 RRF .9128 RTF -.9392
SGB 2563.0 R23 -.1660 R13 .9466
SG1 2535.7 SG2 372.9 THA 164.65

ORBIT DETERMINATION ACCURACY

ST 1091.3 SR 222.3 SS 1202.5
CRT -.9162 CRS -.8012 CST .9732
LSA 1624.4 MSA 218.1 SSA 14.3
EL1 1110.3 EL2 87.6 ALF 169.36

LAUNCH DATE SEP 28 1965 FLIGHT TIME 130.00 ARRIVAL DATE FEB 5 1966

HELIOCENTRIC CONIC DISTANCE 328.176

RL 149.90 LAL .00 LOL 4.66 VL 26.564 GAL 5.60 AZL 85.49 HCA 136.87 SMA 124.60 ECC .22438 INC 4.5121 VI 29.726
RP 107.49 LAP 3.08 LOP 141.62 VP 37.473 GAP -10.32 AZP 93.30 TAL 159.83 TAP 296.70 RCA 96.64 APO 152.56 V2 35.255
RC 42.583 GL 24.49 GP -23.66 ZAL 52.06 ZAP 26.55 ETS 58.98 ZAE 145.04 ETE 283.33 ZAC 57.21 ETC 140.74 CLP -12.41

PLANETOCENTRIC CONIC

C3 25.180 VHL 5.018 DLA 7.71 RAL 312.33 RAD 6568.0 VEL 12.106 PTH 2.17 VHP 7.554 DPA -43.40 RAP 319.83 ECC 1.4144

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 45 57	2511.43	-25.49	61.19	180.01	102.77	7 27 49	1911.4	-23.48	53.10
90.00	20 40 1	4673.08	14.68	199.02	175.96	65.51	21 57 54	4073.1	11.25	192.02
100.00	8 11 0	2237.11	-26.69	40.70	179.70	103.99	8 48 17	1637.1	-24.50	32.58
100.00	21 57 39	4422.63	15.79	180.06	175.42	64.29	23 11 22	3822.6	12.21	173.11
110.00	9 27 43	1997.05	-29.90	21.45	178.67	107.40	10 1 0	1397.1	-27.22	13.28
110.00	22 57 26	4235.46	18.75	164.25	173.81	60.88	24 8 1	3635.5	14.73	157.45

DIFFERENTIAL CORRECTIONS

TDE -.7824 TRA-2.0194 TC3 .0623 BAU .1379
RDE .1702 RRA .6335 RC3 -.4048 FAU .02863
FDE 1.5597 FRA 2.3810 FC3 -.9845 BSP 8494
BDE .8007 BRA 2.1165 BC3 .4095 FSP -855

MID-COURSE EXECUTION ACCURACY

SGT 2493.2 SGR 857.7 SG3 295.2
RRT -.8874 RRF .9384 RTF -.9434
SGB 2636.6 R23 -.1769 R13 .9523
SG1 2609.4 SG2 377.8 THA 162.65

ORBIT DETERMINATION ACCURACY

ST 1133.7 SR 293.0 SS 1280.6
CRT -.9828 CRS -.9160 CST .9735
LSA 1721.9 MSA 214.3 SSA 13.3
EL1 1169.8 EL2 52.5 ALF 165.72

LAUNCH DATE SEP 28 1965 FLIGHT TIME 132.00 ARRIVAL DATE FEB 7 1966

HELIOCENTRIC CONIC DISTANCE 334.931

RL 149.90 LAL .00 LOL 4.66 VL 26.654 GAL 5.36 AZL 85.07 HCA 140.10 SMA 125.16 ECC .21777 INC 4.9282 VI 29.726
RP 107.50 LAP 3.16 LOP 144.87 VP 37.535 GAP -9.64 AZP 93.78 TAL 159.97 TAP 300.07 RCA 97.91 APO 152.42 V2 35.252
RC 43.538 GL 27.20 GP -26.36 ZAL 53.27 ZAP 29.72 ETS 57.99 ZAE 141.89 ETE 285.84 ZAC 59.86 ETC 140.52 CLP -14.24

PLANETOCENTRIC CONIC

C3 24.867 VHL 4.987 DLA 10.24 RAL 311.31 RAD 6568.0 VEL 12.093 PTH 2.16 VHP 7.305 DPA -45.56 RAP 322.72 ECC 1.4092

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 21 46	2590.47	-26.56	66.73	179.82	100.19	7 4 56	1990.5	-24.88	58.46
90.00	20 56 5	4587.89	12.21	193.97	174.59	64.25	22 12 32	3987.9	8.65	187.11
100.00	7 48 11	2311.75	-27.81	45.96	179.55	101.44	8 26 43	1711.8	-25.95	37.65
100.00	22 12 20	4341.84	13.35	175.31	174.01	63.00	23 24 42	3741.8	9.62	168.50
110.00	9 7 57	2062.12	-31.13	26.12	178.66	104.90	9 42 19	1462.1	-28.77	17.71
110.00	23 9 3	4164.24	16.34	160.14	172.31	59.55	24 18 28	3564.2	12.18	153.50

DIFFERENTIAL CORRECTIONS

TDE -.8248 TRA-2.0143 TC3 .0901 BAU .1506
RDE .2659 RRA .6992 RC3 -.4439 FAU .02930
FDE 1.7222 FRA 2.4774 FC3-1.0199 BSP 8742
BDE .8666 BRA 2.1322 BC3 .4530 FSP -919

MID-COURSE EXECUTION ACCURACY

SGT 2537.2 SGR 977.6 SG3 315.3
RRT -.9068 RRF .9575 RTF -.9471
SGB 2719.0 R23 -.1849 R13 .9580
SG1 2691.1 SG2 388.6 THA 160.31

ORBIT DETERMINATION ACCURACY

ST 1181.5 SR 391.7 SS 1363.8
CRT -.9989 CRS -.9656 CST .9744
LSA 1834.3 MSA 211.7 SSA 12.2
EL1 1244.6 EL2 17.8 ALF 161.67

LAUNCH DATE SEP 28 1965 FLIGHT TIME 134.00 ARRIVAL DATE FEB 9 1966

HELIOCENTRIC CONIC DISTANCE 341.670

RL	149.90	LAL	.00	LOL	4.66	VL	26.737	GAL	5.13	AZL	84.60	HCA	143.34	SMA	125.69	ECC	.21167	INC	5.4045	VI	29.726
RP	107.51	LAP	3.22	LOP	148.12	VP	37.590	GAP	-8.99	AZP	94.34	TAL	160.12	TAP	303.46	RCA	99.08	APO	152.29	V2	35.249
RC	44.633	GL	30.15	GP	-29.48	ZAL	54.68	ZAP	33.24	ETS	57.34	ZAE	138.42	ETE	287.62	ZAC	62.72	ETC	140.21	CLP	-16.10

PLANETOCENTRIC CONIC

C3	24.930	VHL	4.993	DLA	12.98	RAL	310.16	RAD	6568.0	VEL	12.096	PTH	2.17	VHP	7.104	DPA	-48.08	RAP	325.95	ECC	1.4103

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 54 17	2682.89	-27.50	73.33	179.92	97.01	6 39 0	2082.9	-26.25	64.89
90.00	21 14 22	4496.71	9.46	188.69	173.50	63.19	22 29 18	3896.7	5.79	181.94
100.00	7 22 22	2398.85	-28.82	52.24	179.72	98.29	8 2 21	1798.8	-27.38	43.73
100.00	22 28 58	4256.00	10.64	170.37	172.88	61.90	23 39 54	3656.0	6.81	163.68
110.00	8 45 46	2137.89	-32.32	31.70	179.00	101.79	9 21 24	1537.9	-30.36	23.03
110.00	23 22 4	4089.71	13.72	155.95	171.07	58.38	24 30 13	3489.7	9.44	149.46

DIFFERENTIAL CORRECTIONS

TDE	-.8776	TRA	-2.0104	TC3	.1130	BAU	.1645														
RDE	.3831	RRA	.7791	RC3	-.4803	FAU	.02956														
FDE	1.9007	FRA	2.5597	FC3	-1.0265	BSP	9008														
BDE	.9575	BRA	2.1560	BC3	.4934	FSP	-977														

MID-COURSE EXECUTION ACCURACY

SGT	2575.2	SGR	1124.7	SG3	333.4						
RRT	-.9214	RRF	.9713	RTF	-.9507						
SGB	2810.1	R23	-.1878	R13	.9637						
SG1	2780.8	SG2	404.7	THA	157.58						

ORBIT DETERMINATION ACCURACY

ST	1232.3	SR	518.8	SS	1449.2						
CRT	-.9982	CRS	-.9861	CST	.9756						
LSA	1960.5	MSA	210.6	SSA	11.0						
EL1	1336.8	EL2	28.8	ALF	157.19						

LAUNCH DATE SEP 28 1965 FLIGHT TIME 136.00 ARRIVAL DATE FEB 11 1966

HELIOCENTRIC CONIC DISTANCE 348.389

RL	149.90	LAL	.00	LOL	4.66	VL	26.813	GAL	4.93	AZL	84.04	HCA	146.57	SMA	126.17	ECC	.20608	INC	5.9589	VI	29.726
RP	107.52	LAP	3.28	LOP	151.37	VP	37.640	GAP	-8.35	AZP	94.98	TAL	160.29	TAP	306.86	RCA	100.17	APO	152.17	V2	35.244
RC	45.858	GL	33.35	GP	-33.09	ZAL	56.33	ZAP	37.17	ETS	56.95	ZAE	134.60	ETE	288.81	ZAC	65.84	ETC	139.86	CLP	-18.00

PLANETOCENTRIC CONIC

C3	25.452	VHL	5.045	DLA	15.93	RAL	308.86	RAD	6568.0	VEL	12.117	PTH	2.17	VHP	6.962	DPA	-51.00	RAP	329.65	ECC	1.4189

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 22 32	2792.19	-28.16	81.25	180.34	93.10	6 9 4	2192.2	-27.43	72.66
90.00	21 35 45	4397.62	6.37	183.05	172.81	62.35	22 49 3	3797.6	2.62	176.38
100.00	6 52 43	2501.36	-29.60	59.76	180.23	94.40	7 34 24	1901.4	-28.67	51.07
100.00	22 48 15	4163.68	7.64	165.16	172.12	61.01	23 57 39	3563.7	3.72	158.57
110.00	8 20 35	2226.44	-33.36	38.40	179.75	97.95	8 57 41	1626.4	-31.90	29.47
110.00	23 36 52	4011.37	10.89	151.65	170.16	57.40	24 43 44	3411.4	6.51	145.29

DIFFERENTIAL CORRECTIONS

TDE	-.9415	TRA	-2.0059	TC3	.1318	BAU	.1796														
RDE	.5289	RRA	.8744	RC3	-.5111	FAU	.02933														
FDE	2.0885	FRA	2.6139	FC3	-.9976	BSP	9368														
BDE	1.0799	BRA	2.1882	BC3	.5279	FSP	-1029														

MID-COURSE EXECUTION ACCURACY

SGT	2602.6	SGR	1301.3	SG3	347.4						
RRT	-.9323	RRF	.9808	RTF	-.9540						
SGB	2909.8	R23	-.1847	R13	.9694						
SG1	2878.5	SG2	425.5	THA	154.41						

ORBIT DETERMINATION ACCURACY

ST	1284.0	SR	676.1	SS	1531.7						
CRT	-.9937	CRS	-.9945	CST	.9771						
LSA	2099.3	MSA	210.9	SSA	9.7						
EL1	1449.5	EL2	67.0	ALF	152.31						

LAUNCH DATE SEP 28 1965 FLIGHT TIME 138.00 ARRIVAL DATE FEB 13 1966

HELIOCENTRIC CONIC DISTANCE 355.088

RL	149.90	LAL	.00	LOL	4.66	VL	26.882	GAL	4.74	AZL	83.38	HCA	149.79	SMA	126.62	ECC	.20096	INC	6.6166	VI	29.726
RP	107.54	LAP	3.32	LOP	154.62	VP	37.684	GAP	-7.73	AZP	95.72	TAL	160.47	TAP	310.27	RCA	101.17	APO	152.06	V2	35.239
RC	47.202	GL	36.79	GP	-37.23	ZAL	58.23	ZAP	41.53	ETS	56.78	ZAE	130.37	ETE	289.53	ZAC	69.26	ETC	139.52	CLP	-19.90

PLANETOCENTRIC CONIC

C3	26.567	VHL	5.154	DLA	19.10	RAL	307.39	RAD	6568.1	VEL	12.163	PTH	2.18	VHP	6.896	DPA	-54.34	RAP	334.11	ECC	1.4372

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 44 45	2924.10	-28.27	90.90	181.06	88.27	5 33 29	2324.1	-28.21	82.23
90.00	22 1 47	4286.95	2.84	176.83	172.66	61.81	23 13 14	3686.9	-.95	170.20
100.00	6 17 51	2623.87	-29.89	68.85	181.10	89.63	7 1 35	2023.9	-29.62	60.05
100.00	23 11 22	4062.41	4.26	159.54	171.87	60.39	24 19 4	3462.4	.29	153.01
110.00	7 51 34	2330.66	-34.05	46.45	180.97	93.24	8 30 25	1730.7	-33.23	37.31
110.00	23 54 8	3928.38	7.81	147.20	169.69	56.61	24 59 37	3328.4	3.36	140.93

DIFFERENTIAL CORRECTIONS

TDE	-1.0236	TRA	-2.0055	TC3	.1406	BAU	.1949														
RDE	.7148	RRA	.9878	RC3	-.5303	FAU	.02827														
FDE	2.2795	FRA	2.6289	FC3	-.9211	BSP	9767														
BDE	1.2484	BRA	2.2356	BC3	.5486	FSP	-1063														

MID-COURSE EXECUTION ACCURACY

SGT	2623.2	SGR	1510.1	SG3	355.0						
RRT	-.9403	RRF	.9872	RTF	-.9571						
SGB	3026.8	R23	-.1755	R13	.9752						
SG1	2993.1	SG2	450.6	THA	150.85						

ORBIT DETERMINATION ACCURACY

ST	1340.0	SR	867.8	SS	1608.0						
CRT	-.9897	CRS	-.9980	CST	.9789						
LSA	2255.9	MSA	212.0	SSA	8.4						
EL1	1593.0	EL2	104.6	ALF	147.18						

LAUNCH DATE SEP 28 1965 FLIGHT TIME 140.00 ARRIVAL DATE FEB 15 1966

HELIOCENTRIC CONIC DISTANCE 361.764

RL	149.90	LAL	.00	LOL	4.66	VL	26.944	GAL	4.56	AZL	82.59	HCA	153.02	SMA	127.03	ECC	.19630	INC	7.4149	VI	29.726
RP	107.55	LAP	3.36	LOP	157.87	VP	37.724	GAP	-7.13	AZP	96.62	TAL	160.65	TAP	313.67	RCA	102.09	APO	151.96	V2	35.234
RC	48.656	GL	40.48	GP	-41.98	ZAL	60.40	ZAP	46.33	ETS	56.77	ZAE	125.68	ETE	289.94	ZAC	73.04	ETC	139.27	CLP	-21.75

PLANETOCENTRIC CONIC

C3	28.504	VHL	5.339	DLA	22.48	RAL	305.71	RAD	6568.1	VEL	12.242	PTH	2.20	VHP	6.934	DPA	-58.06	RAP	339.75	ECC	1.4691

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	3 57 28	3089.89	-27.34	102.93	181.93	82.31	4 48 58	2489.9	-28.12	94.35
90.00	22 35 42	4156.18	-1.38	169.54	173.32	61.71	23 44 58	3556.2	-5.15	162.89
100.00	5 35 17	2774.50	-29.30	80.00	182.20	83.80	6 21 31	2174.5	-29.85	71.23
100.00	23 40 35	3946.79	.35	153.19	172.36	60.11	24 46 21	3346.8	-3.63	146.66
110.00	7 17 26	2454.89	-34.10	56.15	182.63	87.50	7 58 21	1854.9	-34.07	46.90
110.00	0 18 50	3839.17	4.44	142.48	169.81	56.07	1 22 49	3239.2	-.04	136.27

DIFFERENTIAL CORRECTIONS

TDE	-1.1301	TRA	-2.0114	TC3	.1385	BAU	.2093														
RDE	.9547	RRA	1.1195	RC3	-.5314	FAU	.02615														
FDE	2.4578	FRA	2.5873	FC3	-.7944	BSP	10238														
BDE	1.4794	BRA	2.3019	BC3	.5492	FSP	-1071														

MID-COURSE EXECUTION ACCURACY

SGT	2636.2	SGR	1749.9	SG3	353.1						
RRT	-.9459	RRF	.9914	RTF	-.9600						
SGB	3164.2	R23	-.1607	R13	.9807						
SG1	3127.8	SG2	478.4	THA	147.00						

ORBIT DETERMINATION ACCURACY

ST	1400.7	SR	1096.5	SS	1670.1						
CRT	-.9871	CRS	-.9994	CST	.9811						
LSA	2430.6	MSA	213.4	SSA	7.1						
EL1	1773.4	EL2	138.6	ALF	142.03						

LAUNCH DATE SEP 28 1965 FLIGHT TIME 142.00 ARRIVAL DATE FEB 17 1966

HELIOCENTRIC CONIC DISTANCE 368.414

RL 149.90 LAL .00 LOL 4.66 VL 27.001 GAL 4.41 AZL 81.59 HCA 156.23 SMA 127.40 ECC .19208 INC 8.4112 V1 29.726
RP 107.57 LAP 3.38 LOP 161.12 VP 37.758 GAP -6.54 AZP 97.71 TAL 160.83 TAP 317.06 RCA 102.93 APO 151.87 V2 35.227
RC 50.208 GL 44.42 GP -47.34 ZAL 62.84 ZAP 51.57 ETS 56.91 ZAE 120.48 ETE 290.24 ZAC 77.22 ETC 139.28 CLP -23.46

PLANETOCENTRIC CONIC

C3 31.651 VHL 5.626 DLA 26.05 RAL 303.79 RAD 6568.3 VEL 12.370 PTH 2.23 VHP 7.114 DPA -62.03 RAP 347.33 ECC 1.5209

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	2 50 8	3323.00	-24.16	119.23	182.33	74.76	3 45 31	2723.0	-26.02	111.05
90.00	23 27 40	3975.58	-7.14	159.40	175.45	62.53	24 33 56	3375.6	-10.77	152.60
100.00	4 38 53	2972.41	-27.00	94.24	183.13	76.66	5 28 25	2372.4	-28.57	85.78
100.00	0 25 32	3801.40	-4.57	145.20	174.05	60.43	1 28 54	3201.4	-8.47	138.59
110.00	6 35 51	2606.42	-33.04	67.84	184.53	80.67	7 19 18	2006.4	-33.97	58.73
110.00	0 45 3	3740.15	.66	137.31	170.79	55.82	1 47 23	3140.2	-3.82	131.10

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE-1.2699 TRA-2.0256 TC3 .1306 BAU .2223 SGT 2639.5 SGR 2013.6 SG3 338.5 ST 1465.4 SR 1360.8 SS 1707.0
RDE 1.2673 RRA 1.2665 RC3 -.5088 FAU .02297 RRT -.9502 RRF .9940 RTF -.9630 CRT -.9860 CRS -.9999 CST .9835
FDE 2.5989 FRA 2.4707 FC3 -.6282 BSP 10913 SGB 3319.9 R23 -.1410 R13 .9857 LSA 2620.4 MSA 214.8 SSA 5.9
BDE 1.7941 BRA 2.3890 BC3 .5253 FSP -1052 SG1 3281.2 SG2 505.0 THA 143.04 EL1 1992.8 EL2 166.9 ALF 137.15

LAUNCH DATE SEP 28 1965 FLIGHT TIME 144.00 ARRIVAL DATE FEB 19 1966

HELIOCENTRIC CONIC DISTANCE 375.016

RL 149.90 LAL .00 LOL 4.66 VL 27.052 GAL 4.26 AZL 80.30 HCA 159.44 SMA 127.74 ECC .18824 INC 9.6976 V1 29.726
RP 107.60 LAP 3.39 LOP 164.37 VP 37.789 GAP -5.98 AZP 99.09 TAL 161.02 TAP 320.45 RCA 103.69 APO 151.79 V2 35.220
RC 51.850 GL 48.59 GP -53.34 ZAL 65.60 ZAP 57.18 ETS 57.28 ZAE 114.73 ETE 290.68 ZAC 81.85 ETC 139.78 CLP -24.81

PLANETOCENTRIC CONIC

C3 36.714 VHL 6.059 DLA 29.78 RAL 301.52 RAD 6568.4 VEL 12.573 PTH 2.28 VHP 7.499 DPA -65.94 RAP 358.07 ECC 1.6042

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
80.39	23 39 35	3939.43	-16.50	161.47	180.37	64.86	24 45 14	3339.4	-19.75	154.20
99.61	2 20 9	3434.01	-16.48	124.31	180.36	64.85	3 17 23	2834.0	-19.74	117.04
100.00	2 45 19	3353.58	-18.55	119.33	181.35	66.13	3 41 13	2753.6	-21.62	111.88
100.00	2 1 2	3495.09	-14.45	127.83	179.34	63.54	2 59 17	2895.1	-17.89	120.73
110.00	5 41 28	2801.15	-29.96	82.17	186.04	72.72	6 28 9	2201.1	-32.03	73.57
110.00	1 21 22	3620.29	-3.91	131.05	173.14	56.01	2 21 42	3020.3	-8.35	124.77

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE-1.2793 TRA-1.8704 TC3 .3245 BAU .3103 SGT 2402.2 SGR 2193.7 SG3 293.6 ST 1355.5 SR 1568.1 SS 1610.5
RDE 1.5928 RRA 1.3337 RC3 -.5427 FAU .02566 RRT -.9567 RRF .9962 RTF -.9643 CRT -.9827 CRS-1.0000 CST .9827
FDE 2.5251 FRA 2.1144 FC3 -.6051 BSP 16716 SGB 3253.1 R23 -.1221 R13 .9895 LSA 2616.0 MSA 215.6 SSA 4.2
BDE 2.0429 BRA 2.2973 BC3 .6323 FSP -1314 SG1 3218.0 SG2 476.6 THA 137.71 EL1 2063.9 EL2 190.7 ALF 130.77

LAUNCH DATE SEP 28 1965 FLIGHT TIME 146.00 ARRIVAL DATE FEB 21 1966

HELIOCENTRIC CONIC DISTANCE 381.624

RL 149.90 LAL .00 LOL 4.66 VL 27.098 GAL 4.14 AZL 78.57 HCA 162.63 SMA 128.05 ECC .18490 INC11.4334 V1 29.726
RP 107.62 LAP 3.39 LOP 167.61 VP 37.814 GAP -5.43 AZP 100.92 TAL 161.14 TAP 323.76 RCA 104.37 APO 151.72 V2 35.212
RC 53.572 GL 52.87 GP -59.85 ZAL 68.60 ZAP 62.99 ETS 58.30 ZAE 108.45 ETE 291.90 ZAC 86.95 ETC 141.39 CLP -25.30

PLANETOCENTRIC CONIC

C3 45.156 VHL 6.720 DLA 33.55 RAL 298.90 RAD 6568.7 VEL 12.904 PTH 2.35 VHP 8.196 DPA -69.09 RAP 13.57 ECC 1.7431

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
71.21	22 25 19	4192.12	-16.70	180.70	182.03	60.47	23 35 11	3592.1	-20.50	173.69
108.79	3 13 30	3285.76	-16.68	113.22	182.02	60.46	4 8 16	2685.8	-20.48	106.21
71.21	22 25 19	4192.12	-16.70	180.70	182.03	60.47	23 35 11	3592.1	-20.50	173.69
108.79	3 13 30	3285.76	-16.68	113.22	182.02	60.46	4 8 16	2685.8	-20.48	106.21
110.00	4 10 50	3110.29	-21.95	102.57	185.01	63.11	5 2 40	2510.3	-25.37	95.09
110.00	2 31 6	3415.58	-11.57	120.14	178.86	57.61	3 28 2	2815.6	-15.76	113.55

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE-1.8395 TRA-2.2004 TC3 .0345 BAU .2058 SGT 2744.0 SGR 2566.9 SG3 270.9 ST 1707.6 SR 1984.7 SS 1702.1
RDE 2.2551 RRA 1.6013 RC3 -.3392 FAU .01103 RRT -.9547 RRF .9958 RTF -.9713 CRT -.9878 CRS -.9999 CST .9838
FDE 2.7213 FRA 2.0430 FC3 -.2114 BSP 11373 SGB 3757.4 R23 -.0917 R13 .9939 LSA 3115.4 MSA 215.8 SSA 3.8
BDE 2.9102 BRA 2.7213 BC3 .3410 FSP -815 SG1 3714.9 SG2 563.9 THA 137.00 EL1 2610.4 EL2 202.3 ALF 130.66

LAUNCH DATE SEP 28 1965 FLIGHT TIME 148.00 ARRIVAL DATE FEB 23 1966

HELIOCENTRIC CONIC DISTANCE 388.163

RL 149.90 LAL .00 LOL 4.66 VL 27.139 GAL 4.04 AZL 76.08 HCA 165.79 SMA 128.32 ECC .18191 INC13.9173 V1 29.726
RP 107.64 LAP 3.38 LOP 170.86 VP 37.836 GAP -4.91 AZP 103.51 TAL 161.25 TAP 327.04 RCA 104.98 APO 151.66 V2 35.204
RC 55.368 GL 57.16 GP -66.79 ZAL 71.91 ZAP 68.86 ETS 61.15 ZAE 101.60 ETE 295.19 ZAC 92.57 ETC 145.42 CLP -23.75

PLANETOCENTRIC CONIC

C3 60.055 VHL 7.750 DLA 37.20 RAL 295.72 RAD 6569.1 VEL 13.469 PTH 2.46 VHP 9.396 DPA -70.38 RAP 34.32 ECC 1.9884

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
64.79	21 36 10	4372.40	-15.65	194.31	184.07	55.81	22 49 3	3772.4	-20.03	187.69
115.21	3 37 15	3246.86	-15.64	109.47	184.06	55.81	4 31 22	2646.9	-20.02	102.85
64.79	21 36 10	4372.40	-15.65	194.31	184.07	55.81	22 49 3	3772.4	-20.03	187.69
115.21	3 37 15	3246.86	-15.64	109.47	184.06	55.81	4 31 22	2646.9	-20.02	102.85
64.79	21 36 10	4372.40	-15.65	194.31	184.07	55.81	22 49 3	3772.4	-20.03	187.69
115.21	3 37 15	3246.86	-15.64	109.47	184.06	55.81	4 31 22	2646.9	-20.02	102.85

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE-2.4441 TRA-2.4131 TC3 .0001 BAU .1719 SGT 2877.9 SGR 2718.2 SG3 218.5 ST 1927.9 SR 2240.6 SS 1632.7
RDE 2.9623 RRA 1.6972 RC3 -.2141 FAU .00445 RRT -.9570 RRF .9945 RTF -.9785 CRT -.9897 CRS -.9996 CST .9935
FDE 2.6413 FRA 1.7282 FC3 -.0641 BSP 12283 SGB 3958.7 R23 -.0634 R13 .9968 LSA 3370.0 MSA 214.5 SSA 2.9
BDE 3.8404 BRA 2.9502 BC3 .2141 FSP -682 SG1 3916.1 SG2 579.5 THA 136.71 EL1 2948.4 EL2 209.6 ALF 130.67

LAUNCH DATE SEP 28 1965 FLIGHT TIME 150.00 ARRIVAL DATE FEB 25 1966

DISTANCE 394.636

HELIOCENTRIC CONIC

RL 149.90 LAL .00 LOL 4.66 VL 27.176 GAL 3.96 AZL 72.22 HCA 168.92 SMA 128.57 ECC .17933 INC17.7767 V1 29.726
RP 107.67 LAP 3.36 LOP 174.10 VP 37.854 GAP -4.41 AZP 107.47 TAL 161.31 TAP 330.23 RCA 105.51 APO 151.62 V2 35.195
RC 57.230 GL 61.10 GP -73.84 ZAL 75.48 ZAP 74.51 ETS 70.82 ZAE 94.08 ETE 305.62 ZAC 98.89 ETC 157.00 CLP -16.27

PLANETOCENTRIC CONIC

C3 89.387 VHL 9.454 DLA 40.35 RAL 291.84 RAD 6569.7 VEL 14.517 PTH 2.63 VHP 11.495 DPA -68.60 RAP 56.40 ECC 2.4711

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
59.96	20 57 20	4532.44	-12.91	205.51	186.21	51.43	22 12 53	3932.4	-17.81	199.37
120.04	3 45 10	3272.59	-12.89	109.51	186.20	51.42	4 39 43	2672.6	-17.79	103.37
59.96	20 57 20	4532.44	-12.91	205.51	186.21	51.43	22 12 53	3932.4	-17.81	199.37
120.04	3 45 10	3272.59	-12.89	109.51	186.20	51.42	4 39 43	2672.6	-17.79	103.37
59.96	20 57 20	4532.44	-12.91	205.51	186.21	51.43	22 12 53	3932.4	-17.81	199.37
120.04	3 45 10	3272.59	-12.89	109.51	186.20	51.42	4 39 43	2672.6	-17.79	103.37

DIFFERENTIAL CORRECTIONS

TDE-3.9802 TRA-2.9778 TC3 -.0574 BAU .1133
RDE 3.5155 RRA 1.4563 RC3 -.0755 FAU-.00316
FDE 2.5204 FRA 1.4278 FC3 .0306 BSP 12788
BDE 5.3104 BRA 3.3148 BC3 .0948 FSP -517

MID-COURSE EXECUTION ACCURACY

SGT 3381.9 SGR 2429.1 SG3 164.5
RRT -.9575 RRF .9861 RTF -.9906
SGB 4163.9 R23 -.0322 R13 .9986
SG1 4124.0 SG2 574.6 THA 144.70

ORBIT DETERMINATION ACCURACY

ST 2514.5 SR 2158.6 SS 1554.2
CRT -.9922 CRS -.9983 CST .9978
LSA 3654.6 MSA 205.2 SSA 2.2
EL1 3307.7 EL2 204.3 ALF 139.39

LAUNCH DATE SEP 28 1965 FLIGHT TIME 152.00 ARRIVAL DATE FEB 27 1966

DISTANCE 400.985

HELIOCENTRIC CONIC

RL 149.90 LAL .00 LOL 4.66 VL 27.208 GAL 3.91 AZL 65.44 HCA 171.96 SMA 128.78 ECC .17721 INC24.5555 V1 29.726
RP 107.70 LAP 3.33 LOP 177.34 VP 37.868 GAP -3.94 AZP 114.34 TAL 161.26 TAP 333.22 RCA 105.96 APO 151.61 V2 35.186
RC 59.152 GL 63.78 GP -79.41 ZAL 79.23 ZAP 79.65 ETS 112.35 ZAE 85.45 ETE 348.08 ZAC 106.53 ETC 201.22 CLP 12.05

PLANETOCENTRIC CONIC

C3 158.102 VHL 12.574 DLA 42.10 RAL 287.16 RAD 6570.7 VEL 16.716 PTH 2.90 VHP 15.446 DPA -63.13 RAP 74.01 ECC 3.6020

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
57.44	20 27 40	4676.71	-8.30	214.02	187.88	48.58	21 45 37	4076.7	-13.53	208.28
122.56	3 37 27	3356.06	-8.28	112.77	187.87	48.57	4 33 23	2756.1	-13.52	107.03
57.44	20 27 40	4676.71	-8.30	214.02	187.88	48.58	21 45 37	4076.7	-13.53	208.28
122.56	3 37 27	3356.06	-8.28	112.77	187.87	48.57	4 33 23	2756.1	-13.52	107.03
57.44	20 27 40	4676.71	-8.30	214.02	187.88	48.58	21 45 37	4076.7	-13.53	208.28
122.56	3 37 27	3356.06	-8.28	112.77	187.87	48.57	4 33 23	2756.1	-13.52	107.03

DIFFERENTIAL CORRECTIONS

TDE-7.6661 TRA-3.7031 TC3 -.1457 BAU .3310
RDE-1.3926 RRA-1.3538 RC3 -.0573 FAU-.01189
FDE 2.4480 FRA 1.2047 FC3 .0651 BSP 13400
BDE 7.7915 BRA 3.9428 BC3 .1566 FSP -376

MID-COURSE EXECUTION ACCURACY

SGT 4184.4 SGR 1055.8 SG3 116.5
RRT .9417 RRF -.9458 RTF -.9994
SGB 4315.5 R23 .0054 R13 -.9995
SG1 4301.6 SG2 345.5 THA 13.45

ORBIT DETERMINATION ACCURACY

ST 3559.2 SR 681.8 SS 1517.9
CRT .9835 CRS .9842 CST 1.0000
LSA 3927.1 MSA 121.1 SSA 1.7
EL1 3621.9 EL2 121.0 ALF 10.68

LAUNCH DATE SEP 28 1965 FLIGHT TIME 154.00 ARRIVAL DATE MAR 1 1966

DISTANCE 407.036

HELIOCENTRIC CONIC

RL 149.90 LAL .00 LOL 4.66 VL 27.235 GAL 3.93 AZL 51.08 HCA 174.76 SMA 128.97 ECC .17574 INC38.9222 V1 29.726
RP 107.73 LAP 3.29 LOP 180.58 VP 37.879 GAP -3.56 AZP 128.80 TAL 160.98 TAP 335.73 RCA 106.31 APO 151.64 V2 35.176
RC 61.127 GL 62.46 GP -75.67 ZAL 82.96 ZAP 83.94 ETS 169.27 ZAE 73.99 ETE 45.42 ZAC 117.60 ETC 261.76 CLP 64.75

PLANETOCENTRIC CONIC

C3 370.644 VHL 19.252 DLA 39.84 RAL 281.91 RAD 6572.0 VEL 22.180 PTH 3.24 VHP 24.008 DPA -52.67 RAP 85.50 ECC 7.0999

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
60.71	20 21 9	4754.45	-2.82	215.98	188.54	50.24	21 40 24	4154.5	-7.91	210.20
119.29	3 2 6	3513.99	-2.81	121.63	188.52	50.24	4 0 40	2914.0	-7.90	115.84
60.71	20 21 9	4754.45	-2.82	215.98	188.54	50.24	21 40 24	4154.5	-7.91	210.20
119.29	3 2 6	3513.99	-2.81	121.63	188.52	50.24	4 0 40	2914.0	-7.90	115.84
60.71	20 21 9	4754.45	-2.82	215.98	188.54	50.24	21 40 24	4154.5	-7.91	210.20
119.29	3 2 6	3513.99	-2.81	121.63	188.52	50.24	4 0 40	2914.0	-7.90	115.84

DIFFERENTIAL CORRECTIONS

TDE-5.4085 TRA-1.0271 TC3 -.1192 BAU 1.3267
RD-11.1013 RRA-5.2584 RC3 -.2398 FAU-.02833
FDE 2.6836 FRA 1.2133 FC3 .0662 BSP 13523
BDE12.3488 BRA 5.3578 BC3 .2677 FSP -271

MID-COURSE EXECUTION ACCURACY

SGT 1720.4 SGR 3990.2 SG3 83.0
RRT .9546 RRF -.9992 RTF -.9613
SGB 4345.3 R23 -.0206 R13 -.9993
SG1 4319.4 SG2 473.7 THA 67.34

ORBIT DETERMINATION ACCURACY

ST 1614.1 SR 3360.1 SS 1682.4
CRT .9941 CRS 1.0000 CST .9949
LSA 4086.6 MSA 159.4 SSA 1.8
EL1 3724.3 EL2 158.3 ALF 64.42

LAUNCH DATE SEP 28 1965 FLIGHT TIME 156.00 ARRIVAL DATE MAR 3 1966

DISTANCE 412.014

HELIOCENTRIC CONIC

RL 149.90 LAL .00 LOL 4.66 VL 27.260 GAL 4.15 AZL 14.63 HCA 176.65 SMA 129.14 ECC .17587 INC75.3703 V1 29.726
RP 107.76 LAP 3.24 LOP 183.82 VP 37.887 GAP -3.45 AZP 165.35 TAL 159.86 TAP 336.51 RCA 106.43 APO 151.85 V2 35.166
RC 63.151 GL 48.85 GP -55.45 ZAL 85.95 ZAP 86.79 ETS 181.08 ZAE 54.55 ETE 52.96 ZAC 138.72 ETC 279.76 CLP 84.34

PLANETOCENTRIC CONIC

C31220.477 VHL 34.935 DLA 25.70 RAL 277.88 RAD 6573.1 VEL 36.630 PTH 3.53 VHP 44.210 DPA -31.20 RAP 91.92 ECC21.0860

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	1 14 3	3862.37	-10.64	152.92	194.18	63.60	2 18 25	3262.4	-14.10	145.95
90.00	21 37 4	4564.08	11.51	192.58	183.37	63.95	22 53 8	3964.1	7.91	185.75
100.00	3 1 3	3517.39	-13.77	129.14	195.79	63.20	3 59 41	2917.4	-17.26	122.08
100.00	22 32 45	4384.30	14.65	177.79	181.79	63.65	23 45 49	3784.3	10.99	170.91
110.00	4 56 6	3157.47	-20.47	105.43	199.41	62.00	5 48 43	2557.5	-24.05	98.12
110.00	22 54 12	4316.98	21.38	169.12	178.21	62.67	24 6 9	3717.0	17.55	162.08

DIFFERENTIAL CORRECTIONS

TDE-6.5380 TRA .2282 TC3 -.1091 BAU 4.7882
RD-16.2630 RRA-8.5626 RC3 -.2724 FAU-.08575
FDE 3.4782 FRA 1.8770 FC3 .0608 BSP 11400
BDE17.5280 BRA 8.5656 BC3 .2935 FSP -210

MID-COURSE EXECUTION ACCURACY

SGT 1316.5 SGR 3628.4 SG3 68.2
RRT .8890 RRF -.9998 RTF -.8871
SGB 3859.9 R23 -.0535 R13 -.9984
SG1 3817.1 SG2 572.9 THA 71.70

ORBIT DETERMINATION ACCURACY

ST 1072.6 SR 2708.5 SS 2214.4
CRT .9829 CRS 1.0000 CST .9821
LSA 3654.2 MSA 190.9 SSA 1.7
EL1 2907.3 EL2 183.9 ALF 68.64

LAUNCH DATE SEP 28 1965 FLIGHT TIME 158.00 ARRIVAL DATE MAR 5 1966

HELIOCENTRIC CONIC DISTANCE 423.266

RL 149.90 LAL .00 LOL 4.66 VL 27.280 GAL 3.25 AZL 143.10 HCA 183.97 SMA 129.28 ECC .16898 INC53.0975 V1 29.726
RP 107.80 LAP 3.18 LOP 187.05 VP 37.891 GAP -1.78 AZP 36.97 TAL 163.66 TAP 347.63 RCA 107.44 APO 151.13 V2 35.155
RC 65.219 GL -58.17 GP 66.93 ZAL 85.44 ZAP 87.64 ETS 194.17 ZAE 78.18 ETE 311.26 ZAC 98.74 ETC 93.14 CLP 83.98

PLANETOCENTRIC CONIC

C3 657.216 VHL 25.636 DLA -79.62 RAL 312.48 RAD 6572.6 VEL 27.902 PTH 3.41 VHP 33.400 DPA 87.11 RAP 336.55 ECC11.8161

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
11.81	8 7 6	2436.35	1.13	83.41	222.26	169.62	8 47 43	1836.4	9.00	82.37
168.19	19 20 3	639.29	1.14	282.24	222.28	169.62	19 30 42	39.3	9.01	281.20
11.81	8 7 6	2436.35	1.13	83.41	222.26	169.62	8 47 43	1836.4	9.00	82.37
168.19	19 20 3	639.29	1.14	282.24	222.28	169.62	19 30 42	39.3	9.01	281.20
11.81	8 7 6	2436.35	1.13	83.41	222.26	169.62	8 47 43	1836.4	9.00	82.37
168.19	19 20 3	639.29	1.14	282.24	222.28	169.62	19 30 42	39.3	9.01	281.20

DIFFERENTIAL CORRECTIONS

TDE 6.5317 TRA-1.2638 TC3 -.1640 BAU 2.7456
RDE-5.6230 RRA 2.5825 RC3 .2660 FAU-.04641
FDE-1.6478 FRA .6005 FC3 .0611 BSP 13096
BDE 8.6187 BRA 2.8752 BC3 .3125 FSP -235

MID-COURSE EXECUTION ACCURACY

SGT 2301.3 SGR 3701.8 SG3 76.7
RRT -.9396 RRF .9967 RTF -.9634
SGB 4358.8 R23 -.0161 R13 .9997
SG1 4305.9 SG2 677.3 THA 121.15

ORBIT DETERMINATION ACCURACY

ST 1533.9 SR 1582.6 SS 1243.4
CRT -.9423 CRS -.9942 CST .9728
LSA 2502.0 MSA 379.1 SSA 1.4
EL1 2172.0 EL2 374.0 ALF 134.05

LAUNCH DATE SEP 28 1965 FLIGHT TIME 160.00 ARRIVAL DATE MAR 7 1966

HELIOCENTRIC CONIC DISTANCE 428.849

RL 149.90 LAL .00 LOL 4.66 VL 27.297 GAL 3.38 AZL 118.97 HCA 186.42 SMA 129.40 ECC .16874 INC28.9725 V1 29.726
RP 107.83 LAP 3.10 LOP 190.28 VP 37.893 GAP -1.53 AZP 61.18 TAL 162.94 TAP 349.36 RCA 107.56 APO 151.23 V2 35.143
RC 67.327 GL -64.67 GP 81.95 ZAL 81.72 ZAP 86.37 ETS 229.12 ZAE 92.40 ETE 342.91 ZAC 83.65 ETC 124.20 CLP 63.15

PLANETOCENTRIC CONIC

C3 213.249 VHL 14.603 DLA -79.85 RAL .66 RAD 6571.2 VEL 18.291 PTH 3.03 VHP 19.241 DPA 72.61 RAP 288.93 ECC 4.5095

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
11.55	11 18 47	2319.80	8.97	82.61	269.03	169.72	11 57 27	1719.8	16.83	81.54
168.45	22 32 44	5810.12	8.97	259.10	269.05	169.72	24 9 34	5210.1	16.84	258.03
11.55	11 18 47	2319.80	8.97	82.61	269.03	169.72	11 57 27	1719.8	16.83	81.54
168.45	22 32 44	5810.12	8.97	259.10	269.05	169.72	24 9 34	5210.1	16.84	258.03
11.55	11 18 47	2319.80	8.97	82.61	269.03	169.72	11 57 27	1719.8	16.83	81.54
168.45	22 32 44	5810.12	8.97	259.10	269.05	169.72	24 9 34	5210.1	16.84	258.03

DIFFERENTIAL CORRECTIONS

TDE-2.8126 TRA-1.7928 TC3 -.1929 BAU .6498
RDE 3.1212 RRA .8300 RC3 .1213 FAU-.01206
FDE 1.0747 FRA .5016 FC3 .0490 BSP 14869
BDE 4.2015 BRA 1.9756 BC3 .2279 FSP -332

MID-COURSE EXECUTION ACCURACY

SGT 4179.1 SGR 2244.9 SG3 103.9
RRT -.9514 RRF .9747 RTF -.9958
SGB 4743.9 R23 -.0207 R13 .9995
SG1 4704.0 SG2 614.0 THA 152.42

ORBIT DETERMINATION ACCURACY

ST 1628.4 SR 1344.3 SS 895.3
CRT -.9207 CRS -.9698 CST .9880
LSA 2256.1 MSA 412.7 SSA 1.4
EL1 2070.9 EL2 412.7 ALF 140.92

LAUNCH DATE SEP 28 1965 FLIGHT TIME 162.00 ARRIVAL DATE MAR 9 1966

HELIOCENTRIC CONIC DISTANCE 434.971

RL 149.90 LAL .00 LOL 4.66 VL 27.311 GAL 3.42 AZL 108.94 HCA 189.35 SMA 129.50 ECC .16819 INC18.9372 V1 29.726
RP 107.87 LAP 3.02 LOP 193.51 VP 37.893 GAP -1.15 AZP 71.30 TAL 162.64 TAP 351.99 RCA 107.72 APO 151.28 V2 35.132
RC 69.470 GL -63.19 GP 85.40 ZAL 77.63 ZAP 85.76 ETS 294.79 ZAE 100.52 ETE 46.34 ZAC 75.43 ETC 185.47 CLP -22.97

PLANETOCENTRIC CONIC

C3 98.273 VHL 9.913 DLA -75.76 RAL 1.89 RAD 6569.9 VEL 14.819 PTH 2.68 VHP 13.155 DPA 63.86 RAP 288.03 ECC 2.6173

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
16.22	11 32 59	2170.85	18.16	77.76	267.11	165.00	12 9 9	1570.9	25.88	75.88
163.78	22 28 24	5675.57	18.17	258.83	267.12	165.00	24 2 59	5075.6	25.88	256.95
16.22	11 32 59	2170.85	18.16	77.76	267.11	165.00	12 9 9	1570.9	25.88	75.88
163.78	22 28 24	5675.57	18.17	258.83	267.12	165.00	24 2 59	5075.6	25.88	256.95
16.22	11 32 59	2170.85	18.16	77.76	267.11	165.00	12 9 9	1570.9	25.88	75.88
163.78	22 28 24	5675.57	18.17	258.83	267.12	165.00	24 2 59	5075.6	25.88	256.95

DIFFERENTIAL CORRECTIONS

TDE-2.8963 TRA-1.4129 TC3 -.0694 BAU .1022
RDE-1.3445 RRA-1.2961 RC3 .0353 FAU .00189
FDE 1.1571 FRA .6822 FC3 -.0167 BSP 15287
BDE 3.1932 BRA 1.9174 BC3 .0778 FSP -481

MID-COURSE EXECUTION ACCURACY

SGT 3721.4 SGR 3144.6 SG3 150.1
RRT .9748 RRF -.9894 RTF -.9959
SGB 4872.1 R23 .0095 R13 -.9993
SG1 4842.2 SG2 539.3 THA 40.08

ORBIT DETERMINATION ACCURACY

ST 1948.0 SR 1199.6 SS 936.3
CRT .9463 CRS .9707 CST .9962
LSA 2449.3 MSA 333.9 SSA 2.0
EL1 2263.3 EL2 333.9 ALF 30.98

LAUNCH DATE SEP 28 1965 FLIGHT TIME 164.00 ARRIVAL DATE MAR 11 1966

HELIOCENTRIC CONIC DISTANCE 441.239

RL 149.90 LAL .00 LOL 4.66 VL 27.323 GAL 3.45 AZL 103.75 HCA 192.42 SMA 129.57 ECC .16771 INC13.7453 V1 29.726
RP 107.90 LAP 2.93 LOP 196.74 VP 37.889 GAP -.74 AZP 76.56 TAL 162.44 TAP 354.86 RCA 107.84 APO 151.30 V2 35.120
RC 71.643 GL -59.14 GP 80.75 ZAL 73.56 ZAP 85.97 ETS 325.44 ZAE 106.24 ETE 75.19 ZAC 69.61 ETC 211.69 CLP -64.10

PLANETOCENTRIC CONIC

C3 56.992 VHL 7.549 DLA -71.45 RAL 354.84 RAD 6569.0 VEL 13.355 PTH 2.44 VHP 10.032 DPA 57.58 RAP 287.97 ECC 1.9379

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
21.19	11 15 4	2033.87	25.83	71.19	255.48	159.30	11 48 58	1433.9	33.28	68.24
158.81	21 50 5	5559.80	25.84	257.29	255.50	159.30	23 22 44	4959.8	33.28	254.34
21.19	11 15 4	2033.87	25.83	71.19	255.48	159.30	11 48 58	1433.9	33.28	68.24
158.81	21 50 5	5559.80	25.84	257.29	255.50	159.30	23 22 44	4959.8	33.28	254.34
21.19	11 15 4	2033.87	25.83	71.19	255.48	159.30	11 48 58	1433.9	33.28	68.24
158.81	21 50 5	5559.80	25.84	257.29	255.50	159.30	23 22 44	4959.8	33.28	254.34

DIFFERENTIAL CORRECTIONS

TDE-1.2285 TRA -.5771 TC3 -.0394 BAU .2134
RDE-1.4164 RRA-1.8848 RC3 .2773 FAU .01219
FDE .9588 FRA .9773 FC3 -.1851 BSP 15397
BDE 1.8749 BRA 1.9712 BC3 .2801 FSP -679

MID-COURSE EXECUTION ACCURACY

SGT 1663.8 SGR 4641.7 SG3 212.4
RRT .9281 RRF -.9974 RTF -.9466
SGB 4930.9 R23 .0156 R13 -.9989
SG1 4895.7 SG2 587.5 THA 71.32

ORBIT DETERMINATION ACCURACY

ST 1019.8 SR 1724.8 SS 874.9
CRT .8865 CRS .9913 CST .9398
LSA 2146.6 MSA 415.3 SSA 2.8
EL1 1960.3 EL2 415.1 ALF 60.91

LAUNCH DATE SEP 28 1965 FLIGHT TIME 166.00 ARRIVAL DATE MAR 13 1966

HELIOCENTRIC CONIC DISTANCE 447.553

RL 149.90 LAL .00 LOL 4.66 VL 27.331 GAL 3.47 AZL 100.61 HCA 195.55 SMA 129.63 ECC .16740 INC10.6054 V1 29.726
RP 107.94 LAP 2.83 LOP 199.96 VP 37.884 GAP -.32 AZP 79.77 TAL 162.25 TAP 357.80 RCA 107.93 APO 151.33 V2 35.108
RC 73.845 GL -54.24 GP 75.99 ZAL 69.67 ZAP 86.99 ETS 339.57 ZAE 110.75 ETE 88.01 ZAC 64.80 ETC 221.54 CLP -77.47

PLANETOCENTRIC CONIC

C3 38.284 VHL 6.187 DLA -66.86 RAL 348.12 RAD 6568.5 VEL 12.635 PTH 2.29 VHP 8.186 DPA 52.42 RAP 287.70 ECC 1.6301

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
26.51	10 59 48	1919.21	31.07	63.21	243.19	152.69	11 31 47	1319.2	38.09	58.97
153.49	21 11 43	5475.40	31.07	254.97	243.21	152.69	22 42 58	4875.4	38.10	250.73
26.51	10 59 48	1919.21	31.07	63.21	243.19	152.69	11 31 47	1319.2	38.09	58.97
153.49	21 11 43	5475.40	31.07	254.97	243.21	152.69	22 42 58	4875.4	38.10	250.73
26.51	10 59 48	1919.21	31.07	63.21	243.19	152.69	11 31 47	1319.2	38.09	58.97
153.49	21 11 43	5475.40	31.07	254.97	243.21	152.69	22 42 58	4875.4	38.10	250.73

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.6646 TRA -.1321 TC3 -.1350 BAU .3149 SGT 709.6 SGR 4895.5 SG3 286.4 ST 622.5 SR 1652.3 SS 846.7
RDE -.8931 RRA-2.0232 RC3 .6003 FAU .02195 RRT .5380 RRF -.9981 RTF -.5663 CRT .6246 CRS .9920 CST .7179
FDE .7828 FRA 1.3475 FC3 -.4964 BSP 15489 SGB 4946.7 R23 .0252 R13 -.9984 LSA 1900.0 MSA 473.9 SSA 3.5
BDE 1.1133 BRA 2.0275 BC3 .6153 FSP -922 SG1 4910.6 SG2 596.3 THA 85.47 EL1 1701.4 EL2 472.1 ALF 75.63

LAUNCH DATE SEP 28 1965 FLIGHT TIME 168.00 ARRIVAL DATE MAR 15 1966

HELIOCENTRIC CONIC DISTANCE 453.877

RL 149.90 LAL .00 LOL 4.66 VL 27.337 GAL 3.51 AZL 98.50 HCA 198.71 SMA 129.67 ECC .16728 INC 8.5022 V1 29.726
RP 107.98 LAP 2.72 LOP 203.18 VP 37.877 GAP .11 AZP 81.94 TAL 162.05 TAP .76 RCA 107.98 APO 151.36 V2 35.095
RC 76.070 GL -49.13 GP 71.65 ZAL 66.03 ZAP 88.74 ETS 348.91 ZAE 114.46 ETE 96.57 ZAC 60.48 ETC 226.83 CLP -85.98

PLANETOCENTRIC CONIC

C3 28.457 VHL 5.335 DLA -62.14 RAL 342.84 RAD 6568.1 VEL 12.241 PTH 2.20 VHP 6.993 DPA 47.85 RAP 287.16 ECC 1.4683

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
32.07	10 51 39	1824.05	33.99	54.41	231.95	145.69	11 22 3	1224.1	40.46	48.91
147.93	20 37 45	5421.19	34.00	252.47	231.97	145.69	22 8 6	4821.2	40.47	246.97
32.07	10 51 39	1824.05	33.99	54.41	231.95	145.69	11 22 3	1224.1	40.46	48.91
147.93	20 37 45	5421.19	34.00	252.47	231.97	145.69	22 8 6	4821.2	40.47	246.97
32.07	10 51 39	1824.05	33.99	54.41	231.95	145.69	11 22 3	1224.1	40.46	48.91
147.93	20 37 45	5421.19	34.00	252.47	231.97	145.69	22 8 6	4821.2	40.47	246.97

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.4343 TRA .1908 TC3 -.3228 BAU .3735 SGT 726.9 SGR 4892.8 SG3 368.2 ST 484.8 SR 1551.3 SS 859.5
RDE -.5683 RRA-2.0681 RC3 .9272 FAU .03158 RRT -.6016 RRF -.9981 RTF .5806 CRT .1289 CRS .9912 CST .2591
FDE .6780 FRA 1.7720 FC3 -.9607 BSP 15489 SGB 4946.5 R23 .0355 R13 -.9978 LSA 1772.4 MSA 488.4 SSA 4.3
BDE .7153 BRA 2.0769 BC3 .9618 FSP -1190 SG1 4912.5 SG2 578.3 THA 95.18 EL1 1552.6 EL2 480.3 ALF 87.45

LAUNCH DATE SEP 28 1965 FLIGHT TIME 170.00 ARRIVAL DATE MAR 17 1966

HELIOCENTRIC CONIC DISTANCE 460.198

RL 149.90 LAL .00 LOL 4.66 VL 27.340 GAL 3.55 AZL 96.99 HCA 201.89 SMA 129.69 ECC .16736 INC 6.9907 V1 29.726
RP 108.02 LAP 2.60 LOP 206.40 VP 37.867 GAP .53 AZP 83.51 TAL 161.82 TAP 3.70 RCA 107.99 APO 151.40 V2 35.082
RC 78.316 GL -44.10 GP 67.59 ZAL 62.71 ZAP 91.12 ETS 356.20 ZAE 117.58 ETE 103.70 ZAC 56.40 ETC 230.34 CLP -92.94

PLANETOCENTRIC CONIC

C3 22.774 VHL 4.772 DLA -57.44 RAL 338.85 RAD 6567.9 VEL 12.006 PTH 2.14 VHP 6.177 DPA 43.63 RAP 286.39 ECC 1.3748

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
37.69	10 49 59	1742.63	35.05	45.43	222.21	138.89	11 19 1	1142.6	40.89	38.89
142.31	20 7 32	5392.70	35.06	250.42	222.23	138.88	21 37 25	4792.7	40.90	243.89
37.69	10 49 59	1742.63	35.05	45.43	222.21	138.89	11 19 1	1142.6	40.89	38.89
142.31	20 7 32	5392.70	35.06	250.42	222.23	138.88	21 37 25	4792.7	40.90	243.89
37.69	10 49 59	1742.63	35.05	45.43	222.21	138.89	11 19 1	1142.6	40.89	38.89
142.31	20 7 32	5392.70	35.06	250.42	222.23	138.88	21 37 25	4792.7	40.90	243.89

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.3111 TRA .4719 TC3 -.5870 BAU .4120 SGT 1249.6 SGR 4775.3 SG3 453.0 ST 489.4 SR 1463.0 SS 896.8
RDE -.3989 RRA-2.0651 RC3 1.2193 FAU .04100 RRT -.8919 RRF -.9979 RTF .8811 CRT -.3604 CRS .9893 CST -.2209
FDE .6458 FRA 2.2269 FC3-1.5587 BSP 15493 SGB 4936.1 R23 .0462 R13 -.9970 LSA 1720.2 MSA 474.3 SSA 5.1
BDE .5059 BRA 2.1184 BC3 1.3532 FSP -1475 SG1 4905.3 SG2 550.2 THA 103.31 EL1 1474.7 EL2 452.9 ALF 97.60

LAUNCH DATE SEP 28 1965 FLIGHT TIME 172.00 ARRIVAL DATE MAR 19 1966

HELIOCENTRIC CONIC DISTANCE 466.508

RL 149.90 LAL .00 LOL 4.66 VL 27.341 GAL 3.61 AZL 95.85 HCA 205.07 SMA 129.70 ECC .16765 INC 5.8472 V1 29.726
RP 108.06 LAP 2.47 LOP 209.62 VP 37.856 GAP .95 AZP 84.70 TAL 161.55 TAP 6.62 RCA 107.96 APO 151.45 V2 35.069
RC 80.581 GL -39.29 GP 63.72 ZAL 59.70 ZAP 94.04 ETS 2.28 ZAE 120.17 ETE 110.23 ZAC 52.47 ETC 232.93 CLP -99.15

PLANETOCENTRIC CONIC

C3 19.275 VHL 4.390 DLA -52.88 RAL 335.83 RAD 6567.8 VEL 11.860 PTH 2.10 VHP 5.601 DPA 39.62 RAP 285.48 ECC 1.3172

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
43.28	10 53 39	1669.52	34.78	36.69	214.09	132.71	11 21 28	1069.5	39.97	29.44
136.72	19 39 46	5385.76	34.80	249.29	214.10	132.70	21 9 32	4785.8	39.99	242.03
43.28	10 53 39	1669.52	34.78	36.69	214.09	132.71	11 21 28	1069.5	39.97	29.44
136.72	19 39 46	5385.76	34.80	249.29	214.10	132.70	21 9 32	4785.8	39.99	242.03
43.28	10 53 39	1669.52	34.78	36.69	214.09	132.71	11 21 28	1069.5	39.97	29.44
136.72	19 39 46	5385.76	34.80	249.29	214.10	132.70	21 9 32	4785.8	39.99	242.03

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.2229 TRA .7340 TC3 -.9086 BAU .4400 SGT 1800.0 SGR 4587.4 SG3 536.0 ST 558.5 SR 1381.5 SS 947.4
RDE -.3194 RRA-2.0296 RC3 1.4454 FAU .04981 RRT -.9514 RRF -.9977 RTF .9441 CRT -.6565 CRS .9867 CST -.5255
FDE .6787 FRA 2.6903 FC3-2.2372 BSP 15475 SGB 4927.9 R23 .0566 R13 -.9962 LSA 1707.9 MSA 448.4 SSA 5.9
BDE .3895 BRA 2.1582 BC3 1.7073 FSP -1757 SG1 4900.5 SG2 518.7 THA 110.71 EL1 1433.8 EL2 405.9 ALF 106.20

LAUNCH DATE SEP 28 1965 FLIGHT TIME 174.00 ARRIVAL DATE MAR 21 1966

HELIOCENTRIC CONIC DISTANCE 472,802

RL 149.90 LAL .00 LOL 4.66 VL 27.340 GAL 3.68 AZL 94.95 HCA 208.25 SMA 129.70 ECC .16815 INC 4.9473 V1 29.726
RP 108.10 LAP 2.34 LOP 212.83 VP 37.843 GAP 1.36 AZP 85.64 TAL 161.25 TAP 9.50 RCA 107.89 APO 151.50 V2 35.056
RC 82.862 GL -34.75 GP 59.97 ZAL 57.01 ZAP 97.37 ETS 7.46 ZAE 122.29 ETE 116.44 ZAC 48.64 ETC 234.87 CLP-104.86

PLANETOCENTRIC CONIC

C3 17.038 VHL 4.128 DLA -48.53 RAL 333.53 RAD 6567.7 VEL 11.765 PTH 2.08 VHP 5.189 DPA 35.77 RAP 284.51 ECC 1.2804

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
48.78	11 1 54	1600.05	33.62	28.34	207.52	127.32	11 28 34	1000.1	38.21	20.66
131.22	19 13 11	5397.62	33.63	249.33	207.53	127.31	20 43 8	4797.6	38.22	241.65
48.78	11 1 54	1600.05	33.62	28.34	207.52	127.32	11 28 34	1000.1	38.21	20.66
131.22	19 13 11	5397.62	33.63	249.33	207.53	127.31	20 43 8	4797.6	38.22	241.65
48.78	11 1 54	1600.05	33.62	28.34	207.52	127.32	11 28 34	1000.1	38.21	20.66
131.22	19 13 11	5397.62	33.63	249.33	207.53	127.31	20 43 8	4797.6	38.22	241.65

DIFFERENTIAL CORRECTIONS

TDE -.1426 TRA .9838 TC3-1.2629 BAU .4626
RDE -.2869 RRA-1.9692 RC3 1.5903 FAU .05760
FDE .7645 FRA 3.1388 FC3-2.9266 BSP 15453
BDE .3204 BRA 2.2013 BC3 2.0307 FSP -2019

MID-COURSE EXECUTION ACCURACY

SGT 2319.3 SGR 4349.8 SG3 612.5
RRT -.9717 RRF -.9973 RTF .9657
SGB 4929.5 R23 .0660 R13 -.9952
SG1 4905.5 SG2 486.2 THA 117.68

ORBIT DETERMINATION ACCURACY

ST 650.3 SR 1301.4 SS 1005.2
CRT -.8135 CRS .9835 CST -.6949
LSA 1717.8 MSA 419.4 SSA 6.8
EL1 1412.5 EL2 348.4 ALF 113.65

LAUNCH DATE SEP 28 1965 FLIGHT TIME 176.00 ARRIVAL DATE MAR 23 1966

HELIOCENTRIC CONIC DISTANCE 479,077

RL 149.90 LAL .00 LOL 4.66 VL 27.337 GAL 3.76 AZL 94.22 HCA 211.44 SMA 129.68 ECC .16885 INC 4.2171 V1 29.726
RP 108.14 LAP 2.20 LOP 216.04 VP 37.829 GAP 1.78 AZP 86.40 TAL 160.91 TAP 12.35 RCA 107.78 APO 151.57 V2 35.043
RC 85.157 GL -30.54 GP 56.32 ZAL 54.61 ZAP 101.01 ETS 11.89 ZAE 123.95 ETE 122.39 ZAC 44.91 ETC 236.26 CLP-110.16

PLANETOCENTRIC CONIC

C3 15.587 VHL 3.948 DLA -44.45 RAL 331.77 RAD 6567.6 VEL 11.703 PTH 2.06 VHP 4.896 DPA 32.04 RAP 283.56 ECC 1.2565

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
54.19	11 14 23	1530.33	31.91	20.32	202.34	122.75	11 39 53	930.3	35.97	12.42
125.81	18 46 42	5426.73	31.93	250.66	202.35	122.74	20 17 8	4826.7	35.99	242.76
54.19	11 14 23	1530.33	31.91	20.32	202.34	122.75	11 39 53	930.3	35.97	12.42
125.81	18 46 42	5426.73	31.93	250.66	202.35	122.74	20 17 8	4826.7	35.99	242.76
54.19	11 14 23	1530.33	31.91	20.32	202.34	122.75	11 39 53	930.3	35.97	12.42
125.81	18 46 42	5426.73	31.93	250.66	202.35	122.74	20 17 8	4826.7	35.99	242.76

DIFFERENTIAL CORRECTIONS

TDE -.0595 TRA 1.2242 TC3-1.6236 BAU .4823
RDE -.2774 RRA-1.8921 RC3 1.6493 FAU .06390
FDE .8901 FRA 3.5542 FC3-3.5492 BSP 15423
BDE .2837 BRA 2.2536 BC3 2.3143 FSP -2241

MID-COURSE EXECUTION ACCURACY

SGT 2800.7 SGR 4080.6 SG3 678.8
RRT -.9806 RRF -.9969 RTF .9753
SGB 4949.2 R23 .0735 R13 -.9942
SG1 4928.3 SG2 455.1 THA 124.27

ORBIT DETERMINATION ACCURACY

ST 752.5 SR 1222.7 SS 1067.9
CRT -.9000 CRS .9797 CST -.7947
LSA 1746.0 MSA 391.4 SSA 7.7
EL1 1407.2 EL2 285.0 ALF 120.36

LAUNCH DATE SEP 28 1965 FLIGHT TIME 178.00 ARRIVAL DATE MAR 25 1966

HELIOCENTRIC CONIC DISTANCE 485,333

RL 149.90 LAL .00 LOL 4.66 VL 27.333 GAL 3.85 AZL 93.61 HCA 214.63 SMA 129.64 ECC .16974 INC 3.6093 V1 29.726
RP 108.18 LAP 2.05 LOP 219.24 VP 37.813 GAP 2.18 AZP 87.03 TAL 160.53 TAP 15.16 RCA 107.64 APO 151.65 V2 35.030
RC 87.465 GL -26.64 GP 52.78 ZAL 52.49 ZAP 104.86 ETS 15.65 ZAE 125.18 ETE 128.07 ZAC 41.32 ETC 237.10 CLP-115.08

PLANETOCENTRIC CONIC

C3 14.657 VHL 3.828 DLA -40.63 RAL 330.43 RAD 6567.6 VEL 11.664 PTH 2.05 VHP 4.694 DPA 28.44 RAP 282.67 ECC 1.2412

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
59.55	11 31 16	1456.12	29.90	12.38	198.32	118.90	11 55 32	856.1	33.50	4.40
120.45	18 19 5	5473.34	29.92	253.37	198.33	118.89	19 50 19	4873.3	33.52	245.39
59.55	11 31 16	1456.12	29.90	12.38	198.32	118.90	11 55 32	856.1	33.50	4.40
120.45	18 19 5	5473.34	29.92	253.37	198.33	118.89	19 50 19	4873.3	33.52	245.39
59.55	11 31 16	1456.12	29.90	12.38	198.32	118.90	11 55 32	856.1	33.50	4.40
120.45	18 19 5	5473.34	29.92	253.37	198.33	118.89	19 50 19	4873.3	33.52	245.39

DIFFERENTIAL CORRECTIONS

TDE .0281 TRA 1.4534 TC3-1.9719 BAU .5031
RDE -.2724 RRA-1.7988 RC3 1.6444 FAU .06893
FDE 1.0311 FRA 3.9084 FC3-4.0716 BSP 15537
BDE .2738 BRA 2.3126 BC3 2.5675 FSP -2434

MID-COURSE EXECUTION ACCURACY

SGT 3239.7 SGR 3786.1 SG3 730.6
RRT -.9852 RRF -.9962 RTF .9805
SGB 4983.0 R23 .0780 R13 -.9932
SG1 4965.0 SG2 422.8 THA 130.49

ORBIT DETERMINATION ACCURACY

ST 862.0 SR 1140.2 SS 1128.0
CRT -.9501 CRS .9753 CST -.8580
LSA 1783.9 MSA 364.9 SSA 8.6
EL1 1412.8 EL2 217.0 ALF 126.70

LAUNCH DATE SEP 28 1965 FLIGHT TIME 180.00 ARRIVAL DATE MAR 27 1966

HELIOCENTRIC CONIC DISTANCE 491,567

RL 149.90 LAL .00 LOL 4.66 VL 27.326 GAL 3.96 AZL 93.09 HCA 217.82 SMA 129.60 ECC .17084 INC 3.0926 V1 29.726
RP 108.22 LAP 1.90 LOP 222.45 VP 37.796 GAP 2.59 AZP 87.56 TAL 160.10 TAP 17.93 RCA 107.46 APO 151.74 V2 35.016
RC 89.783 GL -23.07 GP 49.35 ZAL 50.61 ZAP 108.80 ETS 18.83 ZAE 126.00 ETE 133.41 ZAC 37.89 ETC 237.39 CLP-119.65

PLANETOCENTRIC CONIC

C3 14.091 VHL 3.754 DLA -37.09 RAL 329.41 RAD 6567.6 VEL 11.639 PTH 2.04 VHP 4.562 DPA 24.97 RAP 281.90 ECC 1.2319

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
64.97	11 53 20	1372.41	27.76	4.16	195.28	115.66	12 16 12	772.4	30.97	356.16
115.03	17 48 53	5539.62	27.77	257.62	195.28	115.64	19 21 13	4939.6	30.98	249.63
64.97	11 53 20	1372.41	27.76	4.16	195.28	115.66	12 16 12	772.4	30.97	356.16
115.03	17 48 53	5539.62	27.77	257.62	195.28	115.64	19 21 13	4939.6	30.98	249.63
64.97	11 53 20	1372.41	27.76	4.16	195.28	115.66	12 16 12	772.4	30.97	356.16
115.03	17 48 53	5539.62	27.77	257.62	195.28	115.64	19 21 13	4939.6	30.98	249.63

DIFFERENTIAL CORRECTIONS

TDE .1224 TRA 1.6732 TC3-2.2877 BAU .5238
RDE -.2680 RRA-1.6983 RC3 1.5808 FAU .07224
FDE 1.1795 FRA 4.1950 FC3-4.4383 BSP 15703
BDE .2947 BRA 2.3841 BC3 2.7807 FSP -2577

MID-COURSE EXECUTION ACCURACY

SGT 3638.1 SGR 3483.6 SG3 766.9
RRT -.9878 RRF -.9953 RTF .9836
SGB 5037.0 R23 .0788 R13 -.9922
SG1 5021.7 SG2 393.2 THA 136.26

ORBIT DETERMINATION ACCURACY

ST 979.9 SR 1057.9 SS 1185.8
CRT -.9789 CRS .9703 CST -.9005
LSA 1835.5 MSA 341.1 SSA 9.6
EL1 1434.4 EL2 147.8 ALF 132.76

LAUNCH DATE SEP 28 1965 FLIGHT TIME 182.00 ARRIVAL DATE MAR 29 1966

DISTANCE 497.779

HELIOCENTRIC CONIC
RL 149.90 LAL .00 LOL 4.66 VL 27.318 GAL 4.08 AZL 92.65 HCA 221.01 SMA 129.54 ECC .17214 INC 2.6455 V1 29.726
RP 108.26 LAP 1.74 LOP 225.65 VP 37.778 GAP 2.99 AZP 88.00 TAL 159.64 TAP 20.65 RCA 107.24 APO 151.84 V2 35.003
RC 92.112 GL -19.79 GP 46.06 ZAL 48.94 ZAP 112.75 ETS 21.50 ZAE 126.45 ETE 138.37 ZAC 34.67 ETC 237.07 CLP-123.88

PLANETOCENTRIC CONIC
C3 13.795 VHL 3.714 DLA -33.82 RAL 328.65 RAD 6567.5 VEL 11.627 PTH 2.04 VHP 4.488 DPA 21.66 RAP 281.29 ECC 1.2270

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
70.69	12 22 35	1270.80	25.58	355.00	193.03	112.92	12 43 46	670.8	28.45	347.03
109.31	17 13 33	5631.90	25.59	263.84	193.03	112.90	18 47 25	5031.9	28.46	255.87
70.69	12 22 35	1270.80	25.58	355.00	193.03	112.92	12 43 46	670.8	28.45	347.03
109.31	17 13 33	5631.90	25.59	263.84	193.03	112.90	18 47 25	5031.9	28.46	255.87
110.00	16 39 52	5734.78	22.54	270.32	191.50	116.40	18 15 27	5134.8	25.90	262.78
110.00	17 55 26	5503.96	28.70	255.23	194.39	109.41	19 27 10	4904.0	31.08	246.83

DIFFERENTIAL CORRECTIONS
TDE .2229 TRA 1.8849 TC3-2.5602 BAU .5451
RDE -.2616 RRA-1.5959 RC3 1.4767 FAU .07388
FDE 1.3255 FRA 4.4113 FC3-4.6369 BSP 15939
BDE .3437 BRA 2.4698 BC3 2.9556 FSP -2668

MID-COURSE EXECUTION ACCURACY
SGT 3998.1 SGR 3185.5 SG3 787.8
RRT -.9890 RRF -.9942 RTF .9854
SGB 5112.0 R23 .0759 R13 -.9914
SG1 5098.7 SG2 368.8 THA 141.52

ORBIT DETERMINATION ACCURACY
ST 1106.3 SR 976.9 SS 1240.2
CRT -.9938 CRS .9644 CST -.9295
LSA 1900.9 MSA 321.2 SSA 10.5
EL1 1473.7 EL2 81.3 ALF 138.58

LAUNCH DATE SEP 28 1965 FLIGHT TIME 184.00 ARRIVAL DATE MAR 31 1966

DISTANCE 503.968

HELIOCENTRIC CONIC
RL 149.90 LAL .00 LOL 4.66 VL 27.309 GAL 4.22 AZL 92.25 HCA 224.20 SMA 129.48 ECC .17364 INC 2.2525 V1 29.726
RP 108.31 LAP 1.57 LOP 228.84 VP 37.759 GAP 3.40 AZP 88.38 TAL 159.14 TAP 23.34 RCA 106.99 APO 151.96 V2 34.990
RC 94.449 GL -16.81 GP 42.94 ZAL 47.44 ZAP 116.65 ETS 23.72 ZAE 126.59 ETE 142.88 ZAC 31.70 ETC 236.10 CLP-127.78

PLANETOCENTRIC CONIC
C3 13.707 VHL 3.702 DLA -30.80 RAL 328.09 RAD 6567.5 VEL 11.623 PTH 2.04 VHP 4.461 DPA 18.53 RAP 280.86 ECC 1.2256

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
77.35	13 4 46	1131.10	23.43	343.40	191.42	110.58	13 23 37	531.1	26.02	335.48
102.65	16 26 57	5768.83	23.45	273.35	191.43	110.56	18 3 6	5168.8	26.03	265.43
77.35	13 4 46	1131.10	23.43	343.40	191.42	110.58	13 23 37	531.1	26.02	335.48
102.65	16 26 57	5768.83	23.45	273.35	191.43	110.56	18 3 6	5168.8	26.03	265.43
110.00	15 21 13	687.02	14.61	306.52	186.89	121.25	15 32 40	87.0	18.64	299.73
110.00	19 9 41	5260.90	32.92	237.59	194.34	99.79	20 37 21	4660.9	33.92	228.49

DIFFERENTIAL CORRECTIONS
TDE .3285 TRA 2.0895 TC3-2.7830 BAU .5667
RDE -.2509 RRA-1.4949 RC3 1.3479 FAU .07398
FDE 1.4577 FRA 4.5564 FC3-4.6725 BSP 16239
BDE .4134 BRA 2.5692 BC3 3.0522 FSP -2712

MID-COURSE EXECUTION ACCURACY
SGT 4321.6 SGR 2898.4 SG3 794.0
RRT -.9894 RRF -.9926 RTF .9865
SGB 5203.6 R23 .0693 R13 -.9907
SG1 5191.8 SG2 350.4 THA 146.26

ORBIT DETERMINATION ACCURACY
ST 1240.1 SR 896.9 SS 1287.9
CRT -.9996 CRS .9572 CST -.9496
LSA 1976.8 MSA 304.8 SSA 11.3
EL1 1530.3 EL2 21.7 ALF 144.13

LAUNCH DATE SEP 28 1965 FLIGHT TIME 186.00 ARRIVAL DATE APR 2 1966

DISTANCE 510.133

HELIOCENTRIC CONIC
RL 149.90 LAL .00 LOL 4.66 VL 27.298 GAL 4.37 AZL 91.90 HCA 227.39 SMA 129.40 ECC .17535 INC 1.9024 V1 29.726
RP 108.35 LAP 1.40 LOP 232.04 VP 37.739 GAP 3.80 AZP 88.71 TAL 158.60 TAP 25.98 RCA 106.71 APO 152.09 V2 34.977
RC 96.794 GL -14.08 GP 40.01 ZAL 46.10 ZAP 120.43 ETS 25.58 ZAE 126.47 ETE 146.94 ZAC 29.02 ETC 234.44 CLP-131.40

PLANETOCENTRIC CONIC
C3 13.791 VHL 3.714 DLA -28.02 RAL 327.71 RAD 6567.5 VEL 11.627 PTH 2.04 VHP 4.474 DPA 15.59 RAP 280.61 ECC 1.2270

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	14 8 6	924.97	18.83	326.33	189.36	111.55	14 23 31	325.0	21.59	318.75
90.00	15 20 35	689.57	23.97	310.99	191.21	105.55	15 32 4	89.6	25.87	302.84
100.00	14 36 57	831.67	15.03	317.74	187.61	116.14	14 50 48	231.7	18.43	310.59
100.00	17 34 25	5546.14	28.00	258.21	192.27	100.91	19 6 51	4946.1	29.22	249.62
110.00	14 40 38	820.06	9.79	313.82	184.57	122.92	14 54 18	220.1	14.06	307.32
110.00	19 47 12	5130.52	33.98	227.56	193.18	93.95	21 12 43	4530.5	34.16	218.32

DIFFERENTIAL CORRECTIONS
TDE .4409 TRA 2.2910 TC3-2.9488 BAU .5872
RDE -.2379 RRA-1.4002 RC3 1.2037 FAU .07250
FDE 1.5779 FRA 4.6440 FC3-4.5514 BSP 16527
BDE .5010 BRA 2.6850 BC3 3.1850 FSP -2698

MID-COURSE EXECUTION ACCURACY
SGT 4614.2 SGR 2630.9 SG3 788.2
RRT -.9889 RRF -.9906 RTF .9872
SGB 5311.5 R23 .0606 R13 -.9901
SG1 5300.6 SG2 339.8 THA 150.45

ORBIT DETERMINATION ACCURACY
ST 1381.9 SR 821.2 SS 1331.4
CRT -.9986 CRS .9488 CST -.9636
LSA 2066.7 MSA 292.0 SSA 12.0
EL1 1607.1 EL2 37.8 ALF 149.30

LAUNCH DATE SEP 28 1965 FLIGHT TIME 188.00 ARRIVAL DATE APR 4 1966

DISTANCE 516.273

HELIOCENTRIC CONIC
RL 149.90 LAL .00 LOL 4.66 VL 27.286 GAL 4.54 AZL 91.59 HCA 230.57 SMA 129.32 ECC .17726 INC 1.5866 V1 29.726
RP 108.39 LAP 1.23 LOP 235.23 VP 37.718 GAP 4.20 AZP 88.99 TAL 158.02 TAP 28.59 RCA 106.40 APO 152.24 V2 34.964
RC 99.145 GL -11.60 GP 37.28 ZAL 44.87 ZAP 124.06 ETS 27.15 ZAE 126.16 ETE 150.53 ZAC 26.67 ETC 232.04 CLP-134.74

PLANETOCENTRIC CONIC
C3 14.020 VHL 3.744 DLA -25.45 RAL 327.47 RAD 6567.6 VEL 11.636 PTH 2.04 VHP 4.519 DPA 12.86 RAP 280.56 ECC 1.2307

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 51 54	1178.65	11.83	341.66	186.65	115.92	13 11 33	578.7	15.22	334.62
90.00	16 34 53	5731.15	27.36	271.68	191.59	97.59	18 10 24	5131.2	28.13	263.10
100.00	13 48 41	995.30	9.92	327.19	185.65	118.34	14 5 16	395.3	13.63	320.37
100.00	18 20 47	5389.74	29.49	246.83	191.86	95.10	19 50 37	4789.7	29.89	238.05
110.00	14 11 27	923.88	5.90	319.34	183.21	123.73	14 26 51	323.9	10.29	313.00
110.00	20 14 31	5033.92	34.18	220.03	192.08	89.50	21 38 24	4433.9	33.73	210.81

DIFFERENTIAL CORRECTIONS
TDE .5550 TRA 2.4863 TC3-3.0691 BAU .6088
RDE -.2195 RRA-1.3100 RC3 1.0637 FAU .07020
FDE 1.6707 FRA 4.6712 FC3-4.3349 BSP 16919
BDE .5968 BRA 2.8103 BC3 3.2482 FSP -2661

MID-COURSE EXECUTION ACCURACY
SGT 4874.2 SGR 2382.4 SG3 771.5
RRT -.9878 RRF -.9880 RTF .9876
SGB 5425.3 R23 .0501 R13 -.9896
SG1 5415.0 SG2 334.4 THA 154.12

ORBIT DETERMINATION ACCURACY
ST 1524.4 SR 746.3 SS 1363.1
CRT -.9922 CRS .9377 CST -.9734
LSA 2158.5 MSA 282.2 SSA 12.6
EL1 1695.2 EL2 83.7 ALF 154.02

LAUNCH DATE SEP 28 1965 FLIGHT TIME 190.00 ARRIVAL DATE APR 6 1966

HELIOCENTRIC CONIC DISTANCE 522.388

RL 149.90 LAL .00 LOL 4.66 VL 27.273 GAL 4.72 AZL 91.30 HCA 233.76 SMA 129.23 ECC .17939 INC 1.2987 VI 29.726
RP 108.43 LAP 1.05 LOP 238.42 VP 37.697 GAP 4.60 AZP 89.23 TAL 157.40 TAP 31.16 RCA 106.05 APO 152.41 V2 34.951
RC 101.502 GL -9.35 GP 34.76 ZAL 43.75 ZAP 127.51 ETS 28.48 ZAE 125.70 ETE 153.68 ZAC 24.67 ETC 228.89 CLP-137.83

PLANETOCENTRIC CONIC

C3 14.379 VHL 3.792 DLA -23.09 RAL 327.36 RAD 6567.6 VEL 11.652 PTH 2.05 VHP 4.594 DPA 10.34 RAP 280.71 ECC 1.2366

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 12 36	1319.11	7.53	349.74	185.46	117.38	12 34 35	719.1	11.14	342.92
90.00	17 13 16	5601.85	28.17	262.31	191.31	92.97	18 46 38	5001.9	28.29	253.65
100.00	13 16 16	1113.60	6.03	333.82	184.65	119.33	13 34 49	513.6	9.90	327.16
100.00	18 52 17	5282.60	29.88	238.89	191.37	90.95	20 20 20	4682.6	29.69	230.09
110.00	13 48 38	1012.09	2.55	323.97	182.49	124.10	14 5 31	412.1	7.01	317.72
110.00	20 36 24	4956.87	33.97	214.02	191.24	85.95	21 59 1	4356.9	33.04	204.91

DIFFERENTIAL CORRECTIONS
TDE .6724 TRA 2.6792 TC3-3.1428 BAU .6300
RDE -.1986 RRA-1.2271 RC3 .9303 FAU .06712
FDE 1.7425 FRA 4.6536 FC3-4.0410 BSP 17345
BDE .7011 BRA 2.9468 BC3 3.2776 FSP -2597

MID-COURSE EXECUTION ACCURACY
SGT 5107.0 SGR 2156.5 SG3 747.0
RRT -.9858 RRF -.9847 RTF .9879
SGB 5543.6 R23 .0395 R13 -.9892
SG1 5533.6 SG2 334.0 THA 157.31

ORBIT DETERMINATION ACCURACY
ST 1667.5 SR 675.4 SS 1386.3
CRT -.9810 CRS .9236 CST -.9803
LSA 2254.5 MSA 275.0 SSA 13.0
EL1 1794.9 EL2 121.9 ALF 158.23

LAUNCH DATE SEP 28 1965 FLIGHT TIME 192.00 ARRIVAL DATE APR 8 1966

HELIOCENTRIC CONIC DISTANCE 528.477

RL 149.90 LAL .00 LOL 4.66 VL 27.258 GAL 4.92 AZL 91.03 HCA 236.94 SMA 129.13 ECC .18174 INC 1.0335 VI 29.726
RP 108.46 LAP .87 LOP 241.60 VP 37.675 GAP 5.01 AZP 89.44 TAL 156.76 TAP 33.70 RCA 105.66 APO 152.60 V2 34.939
RC 103.862 GL -7.30 GP 32.44 ZAL 42.72 ZAP 130.77 ETS 29.63 ZAE 125.15 ETE 156.41 ZAC 23.04 ETC 225.01 CLP-140.69

PLANETOCENTRIC CONIC

C3 14.858 VHL 3.855 DLA -20.92 RAL 327.35 RAD 6567.6 VEL 11.672 PTH 2.05 VHP 4.693 DPA 8.02 RAP 281.04 ECC 1.2445

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 44 8	1428.51	4.07	355.91	184.96	118.05	12 7 57	828.5	7.79	349.20
90.00	17 41 38	5507.04	28.31	255.38	191.09	89.49	19 13 26	4907.0	27.94	246.74
100.00	12 51 29	1211.16	2.75	339.21	184.23	119.78	13 11 40	611.2	6.70	332.64
100.00	19 16 59	5199.62	29.81	232.73	191.05	87.70	20 43 38	4599.6	29.17	223.98
110.00	13 30 6	1090.14	-.43	328.04	182.24	124.18	13 48 16	490.1	4.05	321.83
110.00	20 54 51	4893.40	33.56	209.11	190.70	83.07	22 16 25	4293.4	32.24	200.13

DIFFERENTIAL CORRECTIONS
TDE .7933 TRA 2.8722 TC3-3.1725 BAU .6502
RDE -.1760 RRA-1.1526 RC3 .8064 FAU .06341
FDE 1.7949 FRA 4.6043 FC3-3.6947 BSP 17766
BDE .8126 BRA 3.0949 BC3 3.2734 FSP -2509

MID-COURSE EXECUTION ACCURACY
SGT 5316.3 SGR 1954.2 SG3 717.2
RRT -.9830 RRF -.9805 RTF .9879
SGB 5664.1 R23 .0299 R13 -.9888
SG1 5654.0 SG2 337.9 THA 160.06

ORBIT DETERMINATION ACCURACY
ST 1809.9 SR 609.5 SS 1402.1
CRT -.9647 CRS .9057 CST -.9852
LSA 2353.8 MSA 269.9 SSA 13.3
EL1 1903.7 EL2 152.6 ALF 161.88

LAUNCH DATE SEP 28 1965 FLIGHT TIME 194.00 ARRIVAL DATE APR 10 1966

HELIOCENTRIC CONIC DISTANCE 534.538

RL 149.90 LAL .00 LOL 4.66 VL 27.243 GAL 5.14 AZL 90.79 HCA 240.12 SMA 129.02 ECC .18432 INC .7870 VI 29.726
RP 108.50 LAP .68 LOP 244.78 VP 37.653 GAP 5.41 AZP 89.61 TAL 156.07 TAP 36.20 RCA 105.24 APO 152.81 V2 34.926
RC 106.225 GL -5.44 GP 30.32 ZAL 41.75 ZAP 133.84 ETS 30.65 ZAE 124.53 ETE 158.78 ZAC 21.82 ETC 220.49 CLP-143.36

PLANETOCENTRIC CONIC

C3 15.455 VHL 3.931 DLA -18.92 RAL 327.43 RAD 6567.6 VEL 11.698 PTH 2.06 VHP 4.814 DPA 5.92 RAP 281.55 ECC 1.2543

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 21 44	1521.27	1.08	1.09	184.91	118.30	11 47 6	921.3	4.86	354.45
90.00	18 4 40	5431.94	28.15	249.90	191.06	86.75	19 35 12	4831.9	27.40	241.31
100.00	12 31 31	1296.11	-.13	343.87	184.24	119.89	12 53 7	696.1	3.85	337.34
100.00	19 37 34	5132.33	29.52	227.74	190.95	85.10	21 3 7	4532.3	28.53	219.08
110.00	13 14 40	1160.91	-3.14	331.74	182.36	124.06	13 34 1	560.9	1.35	325.53
110.00	21 10 55	4840.29	33.05	205.05	190.44	80.72	22 31 35	4240.3	31.41	196.21

DIFFERENTIAL CORRECTIONS
TDE .9199 TRA 3.0686 TC3-3.1576 BAU .6679
RDE -.1534 RRA-1.0870 RC3 .6915 FAU .05907
FDE 1.8353 FRA 4.5351 FC3-3.3092 BSP 18125
BDE .9326 BRA 3.2555 BC3 3.2324 FSP -2395

MID-COURSE EXECUTION ACCURACY
SGT 5505.7 SGR 1774.9 SG3 684.4
RRT -.9790 RRF -.9755 RTF .9878
SGB 5784.7 R23 .0224 R13 -.9884
SG1 5774.4 SG2 344.7 THA 162.42

ORBIT DETERMINATION ACCURACY
ST 1953.1 SR 550.2 SS 1413.8
CRT -.9433 CRS .8836 CST -.9888
LSA 2458.7 MSA 266.1 SSA 13.6
EL1 2021.4 EL2 176.5 ALF 165.00

LAUNCH DATE SEP 28 1965 FLIGHT TIME 196.00 ARRIVAL DATE APR 12 1966

HELIOCENTRIC CONIC DISTANCE 540.571

RL 149.90 LAL .00 LOL 4.66 VL 27.227 GAL 5.37 AZL 90.56 HCA 243.30 SMA 128.91 ECC .18713 INC .5558 VI 29.726
RP 108.54 LAP .50 LOP 247.96 VP 37.630 GAP 5.82 AZP 89.75 TAL 155.36 TAP 38.66 RCA 104.79 APO 153.04 V2 34.914
RC 108.588 GL -3.75 GP 28.39 ZAL 40.84 ZAP 136.71 ETS 31.59 ZAE 123.89 ETE 160.81 ZAC 21.00 ETC 215.50 CLP-145.84

PLANETOCENTRIC CONIC

C3 16.167 VHL 4.021 DLA -17.07 RAL 327.58 RAD 6567.6 VEL 11.728 PTH 2.07 VHP 4.954 DPA 4.01 RAP 282.23 ECC 1.2661

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 3 24	1603.19	-1.56	5.66	185.23	118.28	11 30 7	1003.2	2.23	359.03
90.00	18 24 14	5370.42	27.83	245.42	191.24	84.53	19 53 44	4770.4	26.78	236.91
100.00	12 14 57	1372.32	-2.71	348.05	184.59	119.78	12 37 49	772.3	1.28	341.53
100.00	19 55 22	5076.53	29.13	223.64	191.08	82.97	21 19 59	4476.5	27.85	215.07
110.00	13 1 37	1226.10	-5.62	335.16	182.78	123.77	13 22 3	626.1	-1.14	328.93
110.00	21 25 11	4795.51	32.50	201.67	190.45	78.79	22 45 7	4195.5	30.62	192.96

DIFFERENTIAL CORRECTIONS
TDE 1.0463 TRA 3.2644 TC3-3.1185 BAU .6861
RDE -.1288 RRA-1.0278 RC3 .5936 FAU .05485
FDE 1.8544 FRA 4.4444 FC3-2.9374 BSP 18550
BDE 1.0541 BRA 3.4224 BC3 3.1745 FSP -2284

MID-COURSE EXECUTION ACCURACY
SGT 5673.7 SGR 1615.2 SG3 649.2
RRT -.9740 RRF -.9693 RTF .9876
SGB 5899.1 R23 .0158 R13 -.9880
SG1 5888.6 SG2 352.4 THA 164.44

ORBIT DETERMINATION ACCURACY
ST 2087.9 SR 495.1 SS 1415.7
CRT -.9148 CRS .8547 CST -.9915
LSA 2557.2 MSA 263.5 SSA 13.7
EL1 2136.9 EL2 195.4 ALF 167.66

LAUNCH DATE SEP 28 1965 FLIGHT TIME 198.00 ARRIVAL DATE APR 14 1966

DISTANCE 546.574

HELIOCENTRIC CONIC

RL	149.90	LAL	.00	LOL	4.66	VL	27.209	GAL	5.62	AZL	90.34	HCA	246.48	SMA	128.80	ECC	.19020	INC	.3374	V1	29.726
RP	108.58	LAP	.31	LOP	251.14	VP	37.606	GAP	6.24	AZP	89.87	TAL	154.62	TAP	41.10	RCA	104.30	APO	153.29	V2	34.903
RC	110.951	GL	-2.22	GP	26.63	ZAL	39.97	ZAP	139.41	ETS	32.47	ZAE	123.24	ETE	162.56	ZAC	20.58	ETC	210.26	CLP	-148.16

PLANETOCENTRIC CONIC

C3	16.997	VHL	4.123	DLA	-15.37	RAL	327.80	RAD	6567.7	VEL	11.764	PTH	2.08	VHP	5.113	DPA	2.28	RAP	283.06	ECC	1.2797

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 48 1	1677.37	-3.95	9.81	185.83	118.06	11 15 58	1077.4	-.16	3.17
90.00	18 41 22	5319.20	27.44	241.73	191.62	82.71	20 10 1	4719.2	26.15	233.30
100.00	12 0 57	1442.02	-5.06	351.89	185.21	119.50	12 24 59	842.0	-1.09	345.35
100.00	20 11 7	5029.78	28.69	220.24	191.42	81.23	21 34 57	4429.8	27.18	211.76
110.00	12 50 29	1286.87	-7.90	338.38	183.46	123.37	13 11 56	686.9	-3.46	332.11
110.00	21 38 4	4757.70	31.97	198.85	190.70	77.20	22 57 22	4157.7	29.88	190.27

DIFFERENTIAL CORRECTIONS

TDE	1.1756	TRA	3.4637	TC3	-3.0516	BAU	.7030	SGT	5824.3	SGR	1474.4	SG3	613.4	ST	2217.7	SR	446.2	SS	1412.4
RDE	-.1041	RRA	-.9757	RC3	.5082	FAU	.05058	RRT	-.9678	RRF	-.9619	RTF	.9874	CRT	-.8784	CRS	.8183	CST	-.9934
FDE	1.8615	FRA	4.3437	FC3	-2.5762	BSP	18961	SGB	6008.0	R23	.0105	R13	-.9876	LSA	2653.9	MSA	261.6	SSA	13.8
BDE	1.1802	BRA	3.5985	BC3	3.0936	FSP	-2169	SG1	5997.2	SG2	360.6	THA	166.18	EL1	2252.3	EL2	209.9	ALF	169.89

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

LAUNCH DATE SEP 28 1965 FLIGHT TIME 200.00 ARRIVAL DATE APR 16 1966

DISTANCE 552.545

HELIOCENTRIC CONIC

RL	149.90	LAL	.00	LOL	4.66	VL	27.191	GAL	5.89	AZL	90.13	HCA	249.66	SMA	128.68	ECC	.19353	INC	.1288	V1	29.726
RP	108.61	LAP	.12	LOP	254.32	VP	37.583	GAP	6.66	AZP	89.95	TAL	153.85	TAP	43.50	RCA	103.77	APO	153.58	V2	34.892
RC	113.313	GL	-.83	GP	25.04	ZAL	39.15	ZAP	141.93	ETS	33.34	ZAE	122.60	ETE	164.06	ZAC	20.54	ETC	205.01	CLP	-150.33

PLANETOCENTRIC CONIC

C3	17.951	VHL	4.237	DLA	-13.80	RAL	328.08	RAD	6567.7	VEL	11.804	PTH	2.09	VHP	5.287	DPA	.73	RAP	284.04	ECC	1.2954

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 34 55	1745.63	-6.12	13.65	186.67	117.70	11 4 1	1145.6	-2.37	6.98
90.00	18 56 40	5276.24	27.03	238.65	192.20	81.22	20 24 36	4676.2	25.54	230.30
100.00	11 48 59	1506.66	-7.21	355.48	186.07	119.09	12 14 6	906.7	-3.28	348.90
100.00	20 25 17	4990.45	28.25	217.40	191.97	79.80	21 48 27	4390.5	26.55	209.01
110.00	12 40 54	1344.03	-10.03	341.44	184.36	122.85	13 3 18	744.0	-5.63	335.11
110.00	21 49 51	4725.84	31.46	196.51	191.17	75.89	23 8 37	4125.8	29.21	188.03

DIFFERENTIAL CORRECTIONS

TDE	1.3080	TRA	3.6678	TC3	-2.9620	BAU	.7185	SGT	5959.3	SGR	1350.5	SG3	577.8	ST	2341.4	SR	403.2	SS	1404.7
RDE	-.0795	RRA	-.9299	RC3	.4344	FAU	.04635	RRT	-.9602	RRF	-.9531	RTF	.9870	CRT	-.8327	CRS	.7731	CST	-.9949
FDE	1.8586	FRA	4.2378	FC3	-2.2354	BSP	19360	SGB	6110.4	R23	.0063	R13	-.9872	LSA	2747.7	MSA	260.2	SSA	13.8
BDE	1.3104	BRA	3.7839	BC3	2.9937	FSP	-2053	SG1	6099.3	SG2	368.6	THA	167.68	EL1	2365.5	EL2	221.0	ALF	171.77

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

LAUNCH DATE SEP 28 1965 FLIGHT TIME 202.00 ARRIVAL DATE APR 18 1966

DISTANCE 558.482

HELIOCENTRIC CONIC

RL	149.90	LAL	.00	LOL	4.66	VL	27.173	GAL	6.19	AZL	89.93	HCA	252.83	SMA	128.55	ECC	.19714	INC	.0682	V1	29.726
RP	108.64	LAP	-.07	LOP	257.49	VP	37.560	GAP	7.09	AZP	90.02	TAL	153.05	TAP	45.88	RCA	103.21	APO	153.89	V2	34.881
RC	115.673	GL	.43	GP	23.60	ZAL	38.36	ZAP	144.28	ETS	34.21	ZAE	121.98	ETE	165.35	ZAC	20.84	ETC	199.98	CLP	-152.38

PLANETOCENTRIC CONIC

C3	19.036	VHL	4.363	DLA	-12.34	RAL	328.40	RAD	6567.8	VEL	11.850	PTH	2.10	VHP	5.478	DPA	-.65	RAP	285.15	ECC	1.3133

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 23 39	1809.24	-8.12	17.25	187.71	117.22	10 53 48	1209.2	-4.41	10.54
90.00	19 10 31	5240.16	26.63	236.08	192.96	80.00	20 37 51	4640.2	24.98	227.81
100.00	11 38 40	1567.21	-9.20	358.88	187.14	118.57	12 4 47	967.2	-5.31	352.25
100.00	20 38 11	4957.42	27.83	215.03	192.70	78.62	22 0 49	4357.4	25.98	206.72
110.00	12 32 38	1398.20	-12.01	344.38	185.46	122.25	12 55 56	798.2	-7.67	337.97
110.00	22 0 43	4699.20	31.01	194.56	191.84	74.83	23 19 2	4099.2	28.61	186.18

DIFFERENTIAL CORRECTIONS

TDE	1.4439	TRA	3.8786	TC3	-2.8530	BAU	.7322	SGT	6080.9	SGR	1241.7	SG3	543.4	ST	2459.1	SR	366.4	SS	1394.0
RDE	-.0553	RRA	-.8902	RC3	.3705	FAU	.04218	RRT	-.9512	RRF	-.9431	RTF	.9866	CRT	-.7768	CRS	.7181	CST	-.9960
FDE	1.8491	FRA	4.1319	FC3	-1.9181	BSP	19728	SGB	6206.4	R23	.0033	R13	-.9868	LSA	2838.6	MSA	258.9	SSA	13.8
BDE	1.4449	BRA	3.9794	BC3	2.8770	FSP	-1937	SG1	6195.0	SG2	376.3	THA	168.97	EL1	2475.7	EL2	229.2	ALF	173.34

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

LAUNCH DATE SEP 28 1965 FLIGHT TIME 204.00 ARRIVAL DATE APR 20 1966

DISTANCE 564.384

HELIOCENTRIC CONIC

RL	149.90	LAL	.00	LOL	4.66	VL	27.154	GAL	6.50	AZL	89.74	HCA	256.00	SMA	128.42	ECC	.20105	INC	.2619	V1	29.726
RP	108.68	LAP	-.25	LOP	260.67	VP	37.536	GAP	7.53	AZP	90.06	TAL	152.24	TAP	48.24	RCA	102.60	APO	154.24	V2	34.870
RC	118.029	GL	1.57	GP	22.29	ZAL	37.59	ZAP	146.49	ETS	35.12	ZAE	121.38	ETE	166.47	ZAC	21.45	ETC	195.35	CLP	-154.31

PLANETOCENTRIC CONIC

C3	20.263	VHL	4.501	DLA	-11.00	RAL	328.76	RAD	6567.8	VEL	11.901	PTH	2.11	VHP	5.683	DPA	-1.89	RAP	286.37	ECC	1.3335

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 13 53	1869.05	-9.96	20.68	188.94	116.64	10 45 2	1269.1	-6.31	13.91
90.00	19 23 12	5209.98	26.25	233.95	193.88	78.99	20 50 2	4610.0	24.47	225.74
100.00	11 29 43	1624.42	-11.04	2.12	188.38	117.95	11 56 47	1024.4	-7.22	355.42
100.00	20 50 3	4929.85	27.44	213.07	193.61	77.66	22 12 13	4329.8	25.47	204.83
110.00	12 25 28	1449.84	-13.87	347.22	186.72	121.56	12 49 38	849.8	-9.60	340.73
110.00	22 10 48	4677.18	30.60	192.98	192.69	73.97	23 28 45	4077.2	28.10	184.67

DIFFERENTIAL CORRECTIONS

TDE	1.5869	TRA	4.0995	TC3	-2.7230	BAU	.7426	SGT	6192.5	SGR	1146.2	SG3	510.6	ST	2574.6	SR	335.6	SS	1383.1
RDE	-.0322	RRA	-.8560	RC3	.3143	FAU	.03797	RRT	-.9407	RRF	-.9316	RTF	.9862	CRT	-.7112	CRS	.6542	CST	-.9969
FDE	1.8382	FRA	4.0303	FC3	-1.6224	BSP	20000	SGB	6297.6	R23	.0011	R13	-.9862	LSA	2930.4	MSA	257.5	SSA	13.8
BDE	1.5872	BRA	4.1880	BC3	2.7411	FSP	-1815	SG1	6286.0	SG2	383.1	THA	170.09	EL1	2585.7	EL2	234.9	ALF	174.66

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

LAUNCH DATE SEP 28 1965 FLIGHT TIME 206.00 ARRIVAL DATE APR 22 1966

HELIOCENTRIC CONIC DISTANCE 570.248

RL	149.90	LAL	.00	LOL	4.66	VL	27.134	GAL	6.84	AZL	89.55	HCA	259.17	SMA	128.28	ECC	.20528	INC	.4493	V1	29.726
RP	108.71	LAP	-.44	LOP	263.84	VP	37.512	GAP	7.99	AZP	90.08	TAL	151.40	TAP	50.57	RCA	101.95	APO	154.62	V2	34.860
RC	120.382	GL	2.60	GP	21.11	ZAL	36.85	ZAP	148.56	ETS	36.08	ZAE	120.82	ETE	167.43	ZAC	22.32	ETC	191.22	CLP	-156.14

PLANETOCENTRIC CONIC

C3	21.644	VHL	4.652	DLA	-9.76	RAL	329.16	RAD	6567.9	VEL	11.959	PTH	2.13	VHP	5.904	DPA	-2.98	RAP	287.70	ECC	1.3562

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 5 23	1925.72	-11.68	23.96	190.33	115.98	10 37 29	1325.7	8.09	17.12
90.00	19 34 53	5184.95	25.92	232.20	194.95	78.17	21 1 18	4584.9	24.03	224.04
100.00	11 21 55	1678.81	-12.76	5.25	189.78	117.26	11 49 54	1078.8	-9.01	358.47
100.00	21 1 2	4907.09	27.10	211.47	194.66	76.88	22 22 49	4307.1	25.03	203.28
110.00	12 19 14	1499.34	-15.62	350.00	188.14	120.80	12 44 13	899.3	-11.42	343.41
110.00	22 20 13	4659.32	30.26	191.70	193.70	73.28	23 37 52	4059.3	27.67	183.46

DIFFERENTIAL CORRECTIONS

TDE	1.7292	TRA	4.3247	TC3	-2.5898	BAU	.7534	SGT	6288.8	SGR	1061.3	SG3	478.9
RDE	-.0086	RRA	-.8254	RC3	.2681	FAU	.03420	RRT	-.9287	RRF	-.9187	RTF	.9857
FDE	1.8176	FRA	3.9278	FC3	-1.3679	BSP	20339	SGB	6377.7	R23	-.0008	R13	-.9858
BDE	1.7292	BRA	4.4028	BC3	2.6036	FSP	-1709	SG1	6365.9	SG2	388.9	THA	171.06

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

ST	2677.5	SR	309.7	SS	1366.8						
CRT	-.6327	CRS	.5778	CST	-.9976						
LSA	3011.2	MSA	256.3	SSA	13.7						
EL1	2684.8	EL2	239.2	ALF	175.78						

LAUNCH DATE SEP 28 1965 FLIGHT TIME 208.00 ARRIVAL DATE APR 24 1966

HELIOCENTRIC CONIC DISTANCE 576.070

RL	149.90	LAL	.00	LOL	4.66	VL	27.113	GAL	7.20	AZL	89.37	HCA	262.34	SMA	128.15	ECC	.20986	INC	.6325	V1	29.726
RP	108.74	LAP	-.63	LOP	267.00	VP	37.489	GAP	8.45	AZP	90.08	TAL	150.55	TAP	52.89	RCA	101.26	APO	155.04	V2	34.851
RC	122.731	GL	3.54	GP	20.04	ZAL	36.13	ZAP	150.50	ETS	37.13	ZAE	120.28	ETE	168.26	ZAC	23.40	ETC	187.61	CLP	-157.88

PLANETOCENTRIC CONIC

C3	23.194	VHL	4.816	DLA	-8.61	RAL	329.59	RAD	6567.9	VEL	12.024	PTH	2.15	VHP	6.139	DPA	-3.94	RAP	289.13	ECC	1.3817

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 57 58	1979.74	-13.27	27.13	191.87	115.25	10 30 58	1379.7	-9.76	20.21
90.00	19 45 44	5164.50	25.62	230.77	196.16	77.52	21 11 48	4564.5	23.65	222.66
100.00	11 15 7	1730.82	-14.36	8.28	191.32	116.50	11 43 58	1130.8	-10.69	1.42
100.00	21 11 15	4888.65	26.81	210.18	195.85	76.26	22 32 44	4288.6	24.65	202.04
110.00	12 13 50	1547.00	-17.26	352.72	189.70	119.97	12 39 37	947.0	-13.14	346.02
110.00	22 29 2	4645.23	29.98	190.70	194.85	72.75	23 46 28	4045.2	27.33	182.51

DIFFERENTIAL CORRECTIONS

TDE	1.8767	TRA	4.5602	TC3	-2.4464	BAU	.7619	SGT	6375.4	SGR	986.0	SG3	449.1
RDE	.0145	RRA	-.7987	RC3	.2282	FAU	.03057	RRT	-.9151	RRF	-.9043	RTF	.9853
FDE	1.7955	FRA	3.8304	FC3	-1.1411	BSP	20650	SGB	6451.2	R23	-.0022	R13	-.9853
BDE	1.8768	BRA	4.6296	BC3	2.4571	FSP	-1606	SG1	6439.2	SG2	393.6	THA	171.91

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

ST	2774.8	SR	288.9	SS	1349.8						
CRT	-.5445	CRS	.4924	CST	-.9981						
LSA	3088.7	MSA	254.8	SSA	13.6						
EL1	2779.3	EL2	241.9	ALF	176.73						

LAUNCH DATE SEP 28 1965 FLIGHT TIME 210.00 ARRIVAL DATE APR 26 1966

HELIOCENTRIC CONIC DISTANCE 581.847

RL	149.90	LAL	.00	LOL	4.66	VL	27.092	GAL	7.58	AZL	89.19	HCA	265.51	SMA	128.01	ECC	.21480	INC	.8130	V1	29.726
RP	108.76	LAP	-.81	LOP	270.17	VP	37.466	GAP	8.93	AZP	90.06	TAL	149.68	TAP	55.19	RCA	100.51	APO	155.51	V2	34.842
RC	125.075	GL	4.38	GP	19.06	ZAL	35.42	ZAP	152.32	ETS	38.27	ZAE	119.78	ETE	168.98	ZAC	24.65	ETC	184.52	CLP	-159.54

PLANETOCENTRIC CONIC

C3	24.934	VHL	4.993	DLA	-7.55	RAL	330.05	RAD	6568.0	VEL	12.096	PTH	2.17	VHP	6.390	DPA	-4.78	RAP	290.64	ECC	1.4103

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 51 28	2031.51	-14.75	30.21	193.53	114.45	10 25 19	1431.5	-11.32	23.21
90.00	19 55 50	5148.17	25.38	229.64	197.49	77.00	21 21 38	4548.2	23.34	221.56
100.00	11 9 11	1780.80	-15.86	11.24	193.00	115.68	11 38 52	1180.8	-12.27	4.28
100.00	21 20 49	4874.11	26.57	209.16	197.17	75.78	22 42 3	4274.1	24.35	201.06
110.00	12 9 8	1593.07	-18.81	355.39	191.40	119.09	12 35 41	993.1	-14.78	348.59
110.00	22 37 21	4634.60	29.76	189.94	196.14	72.35	23 54 35	4034.6	27.06	181.80

DIFFERENTIAL CORRECTIONS

TDE	2.0285	TRA	4.8059	TC3	-2.2976	BAU	.7686	SGT	6451.9	SGR	918.8	SG3	421.0
RDE	.0372	RRA	-.7751	RC3	.1941	FAU	.02716	RRT	-.9001	RRF	-.8884	RTF	.9849
FDE	1.7715	FRA	3.7384	FC3	-.9430	BSP	20938	SGB	6517.0	R23	-.0032	R13	-.9849
BDE	2.0288	BRA	4.8680	BC3	2.3058	FSP	-1509	SG1	6504.9	SG2	397.1	THA	172.67

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

ST	2864.8	SR	272.6	SS	1331.7						
CRT	-.4483	CRS	.3995	CST	-.9985						
LSA	3160.8	MSA	253.1	SSA	13.5						
EL1	2867.5	EL2	243.4	ALF	177.54						

LAUNCH DATE SEP 28 1965 FLIGHT TIME 212.00 ARRIVAL DATE APR 28 1966

HELIOCENTRIC CONIC DISTANCE 587.574

RL	149.90	LAL	.00	LOL	4.66	VL	27.071	GAL	8.00	AZL	89.01	HCA	268.67	SMA	127.87	ECC	.22016	INC	.9918	V1	29.726
RP	108.79	LAP	-.99	LOP	273.34	VP	37.442	GAP	9.42	AZP	90.02	TAL	148.80	TAP	57.47	RCA	99.72	APO	156.02	V2	34.834
RC	127.413	GL	5.13	GP	18.18	ZAL	34.74	ZAP	154.03	ETS	39.54	ZAE	119.30	ETE	169.61	ZAC	26.05	ETC	181.89	CLP	-161.13

PLANETOCENTRIC CONIC

C3	26.884	VHL	5.185	DLA	-6.57	RAL	330.52	RAD	6568.1	VEL	12.176	PTH	2.19	VHP	6.657	DPA	-5.51	RAP	292.22	ECC	1.4424

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 45 46	2081.34	-16.13	33.22	195.32	113.59	10 20 28	1481.3	-12.80	26.12
90.00	20 5 18	5135.59	25.18	228.77	198.94	76.61	21 30 53	4535.6	23.09	220.72
100.00	11 3 59	1829.03	-17.26	14.14	194.79	114.79	11 34 28	1229.0	-13.77	7.08
100.00	21 29 46	4863.13	26.39	208.40	198.61	75.42	22 50 49	4263.1	24.12	200.33
110.00	12 5 4	1637.78	-20.26	358.04	193.21	118.14	12 32 22	1037.8	-16.34	351.11
110.00	22 45 10	4627.15	29.61	189.42	197.54	72.08	24 2 17	4027.1	26.87	181.30

DIFFERENTIAL CORRECTIONS

TDE	2.1855	TRA	5.0635	TC3	-2.1446	BAU	.7731	SGT	6519.4	SGR	858.6	SG3	394.7
RDE	.0596	RRA	-.7541	RC3	.1646	FAU	.02392	RRT	-.8835	RRF	-.8712	RTF	.9845
FDE	1.7472	FRA	3.6526	FC3	-.7703	BSP	21199	SGB	6575.7	R23	-.0040	R13	-.9845
BDE	2.1863	BRA	5.1194	BC3	2.1509	FSP	-1416	SG1	6563.5	SG2	399.5	THA	173.34

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

ST	2948.2	SR	260.2	SS	1313.4						
CRT	-.3474	CRS	.3024	CST	-.9988						
LSA	3228.2	MSA	251.2	SSA	13.4						
EL1	2949.6	EL2	243.9	ALF	178.23						

LAUNCH DATE SEP 28 1965 FLIGHT TIME 214.00 ARRIVAL DATE APR 30 1966

HELIOCENTRIC CONIC DISTANCE 593.247

RL 149.90 LAL .00 LOL 4.66 VL 27.050 GAL 8.44 AZL 88.83 HCA 271.84 SMA 127.72 ECC .22595 INC 1.1700 V1 29.726
RP 108.81 LAP -1.17 LOP 276.50 VP 37.420 GAP 9.94 AZP 89.96 TAL 147.91 TAP 59.75 RCA 98.86 APO 156.58 V2 34.826
RC 129.747 GL 5.82 GP 17.38 ZAL 34.07 ZAP 155.64 ETS 40.95 ZAE 118.86 ETE 170.16 ZAC 27.55 ETC 179.68 CLP-162.67

PLANETOCENTRIC CONIC

C3 29.073 VHL 5.392 DLA -5.67 RAL 331.00 RAD 6568.2 VEL 12.266 PTH 2.21 VHP 6.942 DPA -6.13 RAP 293.87 ECC 1.4785

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 40 47	2129.48	-17.42	36.16	197.22	112.69	10 16 16	1529.5	-14.19	28.97
90.00	20 14 9	5126.46	25.04	228.14	200.49	76.32	21 39 36	4526.5	22.91	220.12
100.00	10 59 27	1875.73	-18.57	16.98	196.70	113.86	11 30 42	1275.7	-15.19	9.82
100.00	21 38 11	4855.45	26.25	207.87	200.15	75.17	22 59 6	4255.5	23.96	199.82
110.00	12 1 33	1681.28	-21.64	.67	195.14	117.13	12 29 34	1081.3	-17.83	353.61
110.00	22 52 34	4622.66	29.51	189.10	199.06	71.91	24 9 36	4022.7	26.76	181.00

DIFFERENTIAL CORRECTIONS
TOE 2.3517 TRA 5.3379 TC3-1.9848 BAU .7733
RDE .0813 RRA -.7357 RC3 .1386 FAU .02073
FDE 1.7256 FRA 3.5760 FC3 -.6174 BSP 21357
BDE 2.3531 BRA 5.3883 BC3 1.9896 FSP -1323

MID-COURSE EXECUTION ACCURACY
SGT 6581.5 SGR 804.4 SG3 370.5
RRT -.8655 RRF -.8527 RTF .9841
SGB 6630.5 R23 -.0045 R13 -.9841
SG1 6618.3 SG2 400.6 THA 173.94

ORBIT DETERMINATION ACCURACY
ST 3028.7 SR 251.1 SS 1296.8
CRT -.2466 CRS .2058 CST -.9991
LSA 3294.8 MSA 248.7 SSA 13.3
EL1 3029.3 EL2 243.3 ALF 178.82

LAUNCH DATE SEP 28 1965 FLIGHT TIME 216.00 ARRIVAL DATE MAY 2 1966

HELIOCENTRIC CONIC DISTANCE 598.859

RL 149.90 LAL .00 LOL 4.66 VL 27.028 GAL 8.92 AZL 88.65 HCA 275.00 SMA 127.58 ECC .23223 INC 1.3488 V1 29.726
RP 108.84 LAP -1.34 LOP 279.67 VP 37.397 GAP 10.48 AZP 89.88 TAL 147.01 TAP 62.01 RCA 97.95 APO 157.20 V2 34.819
RC 132.074 GL 6.43 GP 16.65 ZAL 33.43 ZAP 157.17 ETS 42.53 ZAE 118.43 ETE 170.64 ZAC 29.15 ETC 177.83 CLP-164.14

PLANETOCENTRIC CONIC

C3 31.531 VHL 5.615 DLA -4.83 RAL 331.50 RAD 6568.3 VEL 12.365 PTH 2.23 VHP 7.244 DPA -6.65 RAP 295.58 ECC 1.5189

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 36 25	2176.15	-18.62	39.06	199.22	111.73	10 12 41	1576.2	-15.50	31.77
90.00	20 22 29	5120.51	24.94	227.73	202.15	76.14	21 47 49	4520.5	22.79	219.72
100.00	10 55 29	1921.08	-19.79	19.80	198.71	112.87	11 27 30	1321.1	-16.52	12.53
100.00	21 46 5	4850.82	26.17	207.55	201.79	75.02	23 6 56	4250.8	23.86	199.51
110.00	11 58 31	1723.73	-22.93	3.29	197.17	116.07	12 27 15	1123.7	-19.24	356.09
110.00	22 59 33	4620.93	29.48	188.98	200.68	71.85	24 16 33	4020.9	26.71	180.89

DIFFERENTIAL CORRECTIONS
TOE 2.5205 TRA 5.6230 TC3-1.8296 BAU .7728
RDE .1033 RRA -.7184 RC3 .1167 FAU .01788
FDE 1.7016 FRA 3.5032 FC3 -.4908 BSP 21576
BDE 2.5226 BRA 5.6687 BC3 1.8333 FSP -1242

MID-COURSE EXECUTION ACCURACY
SGT 6632.5 SGR 754.7 SG3 347.6
RRT -.8459 RRF -.8327 RTF .9838
SGB 6675.3 R23 -.0049 R13 -.9838
SG1 6663.2 SG2 400.6 THA 174.48

ORBIT DETERMINATION ACCURACY
ST 3098.7 SR 244.6 SS 1278.6
CRT -.1455 CRS .1091 CST -.9993
LSA 3352.0 MSA 246.1 SSA 13.2
EL1 3098.9 EL2 242.0 ALF 179.34

LAUNCH DATE SEP 28 1965 FLIGHT TIME 218.00 ARRIVAL DATE MAY 4 1966

HELIOCENTRIC CONIC DISTANCE 604.403

RL 149.90 LAL .00 LOL 4.66 VL 27.006 GAL 9.44 AZL 88.47 HCA 278.16 SMA 127.43 ECC .23905 INC 1.5292 V1 29.726
RP 108.86 LAP -1.51 LOP 282.83 VP 37.375 GAP 11.04 AZP 89.78 TAL 146.12 TAP 64.28 RCA 96.97 APO 157.89 V2 34.812
RC 134.395 GL 6.97 GP 15.98 ZAL 32.80 ZAP 158.60 ETS 44.32 ZAE 118.02 ETE 171.08 ZAC 30.81 ETC 176.28 CLP-165.58

PLANETOCENTRIC CONIC

C3 34.297 VHL 5.856 DLA -4.06 RAL 332.00 RAD 6568.4 VEL 12.477 PTH 2.26 VHP 7.567 DPA -7.09 RAP 297.33 ECC 1.5644

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 32 36	2221.51	-19.74	41.92	201.31	110.73	10 9 38	1621.5	-16.74	34.53
90.00	20 30 17	5117.54	24.89	227.53	203.89	76.05	21 55 35	4517.5	22.73	219.52
100.00	10 52 3	1965.24	-20.94	22.58	200.81	111.84	11 24 48	1365.2	-17.79	15.20
100.00	21 53 32	4849.04	26.14	207.42	203.53	74.96	23 14 21	4249.0	23.82	199.39
110.00	11 55 56	1765.24	-24.15	5.89	199.31	114.96	12 25 21	1165.2	-20.58	358.57
110.00	23 6 8	4621.80	29.50	189.04	202.40	71.88	24 23 10	4021.8	26.74	180.94

DIFFERENTIAL CORRECTIONS
TOE 2.6958 TRA 5.9241 TC3-1.6754 BAU .7695
RDE .1254 RRA -.7023 RC3 .0978 FAU .01518
FDE 1.6783 FRA 3.4371 FC3 -.3832 BSP 21784
BDE 2.6987 BRA 5.9656 BC3 1.6782 FSP -1167

MID-COURSE EXECUTION ACCURACY
SGT 6675.9 SGR 709.0 SG3 326.3
RRT -.8248 RRF -.8113 RTF .9836
SGB 6713.4 R23 -.0051 R13 -.9836
SG1 6701.5 SG2 399.4 THA 174.98

ORBIT DETERMINATION ACCURACY
ST 3162.0 SR 240.3 SS 1260.9
CRT -.0486 CRS .0165 CST -.9994
LSA 3403.9 MSA 243.0 SSA 13.0
EL1 3162.0 EL2 240.1 ALF 179.79

LAUNCH DATE SEP 28 1965 FLIGHT TIME 220.00 ARRIVAL DATE MAY 6 1966

HELIOCENTRIC CONIC DISTANCE 609.870

RL 149.90 LAL .00 LOL 4.66 VL 26.983 GAL 9.99 AZL 88.29 HCA 281.32 SMA 127.28 ECC .24644 INC 1.7125 V1 29.726
RP 108.87 LAP -1.68 LOP 285.99 VP 37.353 GAP 11.63 AZP 89.66 TAL 145.23 TAP 66.55 RCA 95.91 APO 158.65 V2 34.806
RC 136.709 GL 7.46 GP 15.38 ZAL 32.19 ZAP 159.95 ETS 46.34 ZAE 117.63 ETE 171.46 ZAC 32.54 ETC 174.98 CLP-166.97

PLANETOCENTRIC CONIC

C3 37.416 VHL 6.117 DLA -3.35 RAL 332.50 RAD 6568.5 VEL 12.601 PTH 2.29 VHP 7.912 DPA -7.43 RAP 299.12 ECC 1.6158

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 29 17	2265.69	-20.78	44.74	203.49	109.69	10 7 3	1665.7	-17.90	37.25
90.00	20 37 37	5117.34	24.89	227.51	205.71	76.04	22 2 55	4517.3	22.73	219.51
100.00	10 49 4	2008.33	-22.00	25.33	203.00	110.76	11 22 32	1408.3	-18.98	17.84
100.00	22 0 32	4849.92	26.16	207.49	205.35	74.99	23 21 22	4249.9	23.84	199.45
110.00	11 53 43	1805.92	-25.29	8.50	201.53	113.80	12 23 49	1205.9	-21.86	1.03
110.00	23 12 21	4625.10	29.57	189.28	204.21	72.00	24 29 27	4025.1	26.82	181.16

DIFFERENTIAL CORRECTIONS
TOE 2.8796 TRA 6.2431 TC3-1.5226 BAU .7627
RDE .1474 RRA -.6869 RC3 .0813 FAU .01262
FDE 1.6572 FRA 3.3781 FC3 -.2920 BSP 21959
BDE 2.8834 BRA 6.2808 BC3 1.5248 FSP -1095

MID-COURSE EXECUTION ACCURACY
SGT 6712.6 SGR 666.6 SG3 306.5
RRT -.8019 RRF -.7883 RTF .9835
SGB 6745.6 R23 -.0053 R13 -.9835
SG1 6733.9 SG2 397.0 THA 175.43

ORBIT DETERMINATION ACCURACY
ST 3219.7 SR 237.6 SS 1244.4
CRT .0424 CRS -.0703 CST -.9995
LSA 3451.7 MSA 239.6 SSA 12.8
EL1 3219.7 EL2 237.4 ALF .18

LAUNCH DATE SEP 29 1965 FLIGHT TIME 70.00 ARRIVAL DATE DEC 8 1965

HELIOCENTRIC CONIC DISTANCE 133.158

RL	149.85	LAL	.00	LOL	5.65	VL	16.711	GAL	21.86	AZL	92.62	HCA	40.65	SMA	88.95	ECC	.73649	INC	2.6170	VI	29.735
RP	108.14	LAP	-1.70	LOP	46.26	VP	31.023	GAP	-46.15	AZP	91.99	TAL	171.49	TAP	212.14	RCA	23.44	APO	154.46	V2	35.043
RC	75.249	GL	-2.58	GP	-4.06	ZAL	64.77	ZAP	31.85	ETS	170.04	ZAE	137.00	ETE	180.84	ZAC	19.76	ETC	64.45	CLP	31.62

PLANETOCENTRIC CONIC

C3	248.304	VHL	15.758	DLA	-22.47	RAL	303.73	RAD	6571.4	VEL	19.225	PTH	3.09	VHP	26.061	DPA	-26.98	RAP	256.09	ECC	5.0865

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 25 46	1975.90	-13.15	26.91	199.58	115.30	10 58 42	1375.9	-9.64	19.99
90.00	15 43 41	909.28	19.22	325.34	213.26	111.20	15 58 51	309.3	21.93	317.72
100.00	11 30 39	1766.50	-15.43	10.39	198.45	115.92	12 0 5	1166.5	-11.82	3.46
100.00	17 21 30	5881.95	21.58	281.02	214.24	111.21	18 59 32	5282.0	24.27	273.26
110.00	12 4 59	1658.84	-20.93	359.31	195.53	117.66	12 32 38	1058.8	-17.07	352.32
110.00	19 3 39	5562.37	27.32	259.21	216.69	111.40	20 36 21	4962.4	29.97	251.02

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TDE	-.4657	TRA	-1.8000	TC3	-.1153	BAU	.3828	SGT	813.9	SGR	457.5	SG3	26.9	ST	271.9	SR	433.3	SS	240.8
RDE	-1.1850	RRA	.3908	RC3	-.0001	FAU	.01204	RRT	-.0962	RRF	.0885	RTF	-.6205	CRT	.5360	CRS	.5549	CST	.9968
FDE	.1883	FRA	.6951	FC3	-.0420	BSP	2286	SGB	933.6	R23	-.0018	R13	.6211	LSA	499.9	MSA	263.9	SSA	13.9
BDE	1.2732	BRA	1.8420	BC3	.1153	FSP	-57	SG1	815.6	SG2	454.4	THA	175.51	EL1	464.6	EL2	214.1	ALF	66.01

LAUNCH DATE SEP 29 1965 FLIGHT TIME 72.00 ARRIVAL DATE DEC 10 1965

HELIOCENTRIC CONIC DISTANCE 138.868

RL	149.85	LAL	.00	LOL	5.65	VL	17.446	GAL	20.92	AZL	92.22	HCA	43.85	SMA	90.47	ECC	.70948	INC	2.2197	VI	29.735
RP	108.10	LAP	-1.54	LOP	49.47	VP	31.440	GAP	-44.07	AZP	91.60	TAL	170.70	TAP	214.55	RCA	26.28	APO	154.60	V2	35.056
RC	73.094	GL	-2.40	GP	-4.17	ZAL	63.46	ZAP	30.36	ETS	169.45	ZAE	137.12	ETE	181.34	ZAC	19.29	ETC	69.15	CLP	30.10

PLANETOCENTRIC CONIC

C3	226.422	VHL	15.047	DLA	-22.01	RAL	305.06	RAD	6571.3	VEL	18.648	PTH	3.05	VHP	25.070	DPA	-27.34	RAP	257.94	ECC	4.7263

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 24 58	1984.97	-13.42	27.44	199.95	115.17	10 58 3	1385.0	-9.92	20.51
90.00	15 55 8	874.44	20.06	323.14	213.78	110.41	16 9 43	274.4	22.66	315.43
100.00	11 30 39	1772.98	-15.63	10.77	198.87	115.81	12 0 12	1173.0	-12.03	3.83
100.00	17 32 8	5849.71	22.36	278.95	214.69	110.38	19 9 38	5249.7	24.93	271.09
110.00	12 6 21	1661.08	-21.00	359.44	196.02	117.61	12 34 2	1061.1	-17.14	352.45
110.00	19 12 56	5534.38	28.00	257.32	217.01	110.46	20 45 10	4934.4	30.52	249.03

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TDE	-.4853	TRA	-1.8187	TC3	-.1238	BAU	.3747	SGT	854.9	SGR	463.2	SG3	29.1	ST	290.7	SR	436.4	SS	256.6
RDE	-1.1390	RRA	.3963	RC3	-.0010	FAU	.01209	RRT	-.1019	RRF	.0954	RTF	-.6397	CRT	.5455	CRS	.5702	CST	.9968
FDE	.2048	FRA	.7227	FC3	-.0462	BSP	2311	SGB	972.3	R23	-.0037	R13	.6404	LSA	516.3	MSA	272.1	SSA	14.2
BDE	1.2381	BRA	1.8614	BC3	.1238	FSP	-62	SG1	856.7	SG2	459.9	THA	175.56	EL1	474.0	EL2	224.3	ALF	63.72

LAUNCH DATE SEP 29 1965 FLIGHT TIME 74.00 ARRIVAL DATE DEC 12 1965

HELIOCENTRIC CONIC DISTANCE 144.684

RL	149.85	LAL	.00	LOL	5.65	VL	18.134	GAL	20.02	AZL	91.87	HCA	47.05	SMA	92.01	ECC	.68276	INC	1.8658	VI	29.735
RP	108.06	LAP	-1.37	LOP	52.68	VP	31.841	GAP	-42.10	AZP	91.27	TAL	169.93	TAP	216.97	RCA	29.19	APO	154.82	V2	35.069
RC	70.962	GL	-2.21	GP	-4.29	ZAL	62.20	ZAP	28.89	ETS	168.79	ZAE	137.32	ETE	181.89	ZAC	18.97	ETC	74.12	CLP	28.60

PLANETOCENTRIC CONIC

C3	206.569	VHL	14.373	DLA	-21.53	RAL	306.33	RAD	6571.2	VEL	18.108	PTH	3.02	VHP	24.114	DPA	-27.70	RAP	259.83	ECC	4.3996

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 23 54	1993.49	-13.66	27.95	200.23	115.05	10 57 7	1393.5	-10.18	21.00
90.00	16 6 19	838.81	20.89	320.85	214.15	109.56	16 20 18	238.8	23.37	313.06
100.00	11 30 21	1779.03	-15.81	11.13	199.18	115.71	12 0 0	1179.0	-12.22	4.18
100.00	17 42 33	5816.55	23.13	276.78	215.00	109.49	19 19 29	5216.5	25.57	268.84
110.00	12 7 22	1662.99	-21.06	359.56	196.40	117.56	12 35 5	1063.0	-17.21	352.56
110.00	19 22 1	5505.36	28.67	255.33	217.18	109.46	20 53 46	4905.4	31.05	246.94

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TDE	-.5002	TRA	-1.8342	TC3	-.1318	BAU	.3641	SGT	895.1	SGR	468.4	SG3	31.5	ST	309.0	SR	438.8	SS	272.6
RDE	-1.0932	RRA	.4006	RC3	-.0020	FAU	.01219	RRT	-.1093	RRF	.1032	RTF	-.6585	CRT	.5512	CRS	.5833	CST	.9968
FDE	.2214	FRA	.7506	FC3	-.0511	BSP	2432	SGB	1010.3	R23	-.0047	R13	.6592	LSA	532.9	MSA	279.7	SSA	14.4
BDE	1.2022	BRA	1.8774	BC3	.1318	FSP	-68	SG1	897.1	SG2	464.6	THA	175.52	EL1	482.9	EL2	234.3	ALF	61.50

LAUNCH DATE SEP 29 1965 FLIGHT TIME 76.00 ARRIVAL DATE DEC 14 1965

HELIOCENTRIC CONIC DISTANCE 150.599

RL	149.85	LAL	.00	LOL	5.65	VL	18.778	GAL	19.16	AZL	91.55	HCA	50.25	SMA	93.55	ECC	.65645	INC	1.5467	VI	29.735
RP	108.02	LAP	-1.19	LOP	55.89	VP	32.227	GAP	-40.22	AZP	90.99	TAL	169.16	TAP	219.41	RCA	32.14	APO	154.96	V2	35.082
RC	68.856	GL	-2.00	GP	-4.42	ZAL	60.99	ZAP	27.45	ETS	168.05	ZAE	137.61	ETE	182.50	ZAC	18.80	ETC	79.31	CLP	27.12

PLANETOCENTRIC CONIC

C3	188.538	VHL	13.731	DLA	-21.04	RAL	307.53	RAD	6571.0	VEL	17.603	PTH	2.98	VHP	23.191	DPA	-28.04	RAP	261.75	ECC	4.1029

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 22 34	2001.47	-13.89	28.42	200.40	114.92	10 55 55	1401.5	-10.42	21.46
90.00	16 17 13	802.36	21.70	318.49	214.36	108.65	16 30 35	202.4	24.05	310.60
100.00	11 29 45	1784.66	-15.97	11.47	199.38	115.61	11 59 29	1184.7	-12.39	4.50
100.00	17 52 43	5782.45	23.88	274.53	215.16	108.53	19 29 6	5182.5	26.19	266.49
110.00	12 8 4	1664.57	-21.11	359.65	196.67	117.53	12 35 48	1064.6	-17.26	352.65
110.00	19 30 54	5475.31	29.34	253.24	217.19	108.39	21 2 9	4875.3	31.56	244.74

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TDE	-.5144	TRA	-1.8501	TC3	-.1400	BAU	.3530	SGT	937.0	SGR	473.0	SG3	34.0	ST	328.3	SR	440.5	SS	289.3
RDE	-1.0476	RRA	.4038	RC3	-.0033	FAU	.01230	RRT	-.1172	RRF	.1116	RTF	-.6766	CRT	.5560	CRS	.5951	CST	.9966
FDE	.2385	FRA	.7791	FC3	-.0565	BSP	2557	SGB	1049.7	R23	-.0059	R13	.6774	LSA	550.5	MSA	286.7	SSA	14.6
BDE	1.1671	BRA	1.8936	BC3	.1401	FSP	-74	SG1	939.2	SG2	468.7	THA	175.49	EL1	492.1	EL2	244.3	ALF	59.10

LAUNCH DATE SEP 29 1965 FLIGHT TIME 78.00 ARRIVAL DATE DEC 16 1965

HELIOCENTRIC CONIC DISTANCE 156.608

RL	149.85	LAL	.00	LOL	5.65	VL	19.382	GAL	18.34	AZL	91.26	HCA	53.46	SMA	95.09	ECC	.63065	INC	1.2558	VI	29.735
RP	107.98	LAP	-1.01	LOP	59.10	VP	32.596	GAP	-38.44	AZP	90.75	TAL	168.41	TAP	221.87	RCA	35.12	APO	155.07	V2	35.095
RC	66.778	GL	-1.76	GP	-4.57	ZAL	59.84	ZAP	26.03	ETS	167.21	ZAE	137.99	ETE	183.18	ZAC	18.81	ETC	84.61	CLP	25.65

PLANETOCENTRIC CONIC

C3 172.144 VHL 13.120 DLA -20.53 RAL 308.66 RAD 6570.9 VEL 17.131 PTH 2.93 VHP 22.300 DPA -28.38 RAP 263.71 ECC 3.8331

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 20 58	2008.92	-14.11	28.86	200.47	114.81	10 54 27	1408.9	-10.64	21.90
90.00	16 27 51	765.07	22.49	316.04	214.42	107.67	16 40 36	165.1	24.70	308.06
100.00	11 28 51	1789.86	-16.12	11.78	199.49	115.52	11 58 40	1189.9	-12.56	4.80
100.00	18 2 39	5747.41	24.62	272.19	215.16	107.51	19 38 27	5147.4	26.78	264.06
110.00	12 8 25	1665.81	-21.15	359.73	196.84	117.50	12 36 11	1065.8	-17.30	352.72
110.00	19 39 34	5444.22	29.98	251.05	217.05	107.24	21 10 18	4844.2	32.05	242.45

DIFFERENTIAL CORRECTIONS

TDE	-.5255	TRA	-1.8638	TC3	-.1478	BAU	.3402												
RDE	-1.0022	RRA	.4059	RC3	-.0049	FAU	.01244												
FDE	.2558	FRA	.8081	FC3	-.0626	BSP	2743												
BDE	1.1316	BRA	1.9075	BC3	.1478	FSP	-82												

MID-COURSE EXECUTION ACCURACY

SGT	978.9	SGR	477.0	SG3	36.8						
RRT	-.1264	RRF	.1208	RTF	-.6942						
SGB	1089.0	R23	-.0066	R13	.6950						
SG1	981.3	SG2	472.0	THA	175.41						

ORBIT DETERMINATION ACCURACY

ST	347.5	SR	441.3	SS	306.3						
CRT	.5583	CRS	.6052	CST	.9963						
LSA	568.6	MSA	293.1	SSA	14.8						
EL1	501.1	EL2	253.9	ALF	56.69						

LAUNCH DATE SEP 29 1965 FLIGHT TIME 80.00 ARRIVAL DATE DEC 18 1965

HELIOCENTRIC CONIC DISTANCE 162.705

RL	149.85	LAL	.00	LOL	5.65	VL	19.949	GAL	17.54	AZL	90.99	HCA	56.67	SMA	96.64	ECC	.60544	INC	.9879	VI	29.735
RP	107.94	LAP	-.83	LOP	62.31	VP	32.950	GAP	-36.74	AZP	90.54	TAL	167.68	TAP	224.36	RCA	38.13	APO	155.14	V2	35.108
RC	64.732	GL	-1.50	GP	-4.73	ZAL	58.73	ZAP	24.64	ETS	166.26	ZAE	138.46	ETE	183.93	ZAC	18.98	ETC	89.93	CLP	24.21

PLANETOCENTRIC CONIC

C3 157.227 VHL 12.539 DLA -19.99 RAL 309.72 RAD 6570.7 VEL 16.690 PTH 2.89 VHP 21.438 DPA -28.70 RAP 265.69 ECC 3.5876

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 19 5	2015.88	-14.30	29.28	200.44	114.70	10 52 41	1415.9	-10.85	22.30
90.00	16 38 14	726.90	23.26	313.50	214.33	106.62	16 50 21	126.9	25.32	305.44
100.00	11 27 38	1794.66	-16.26	12.07	199.49	115.43	11 57 33	1194.7	-12.71	5.08
100.00	18 12 22	5711.39	25.34	269.75	215.01	106.42	19 47 33	5111.4	27.34	261.53
110.00	12 8 27	1666.74	-21.18	359.79	196.91	117.48	12 36 14	1066.7	-17.33	352.77
110.00	19 48 2	5412.08	30.61	248.76	216.74	106.02	21 18 14	4812.1	32.50	240.05

DIFFERENTIAL CORRECTIONS

TDE	-.5385	TRA	-1.8803	TC3	-.1562	BAU	.3285												
RDE	-.9572	RRA	.4071	RC3	-.0068	FAU	.01259												
FDE	.2740	FRA	.8383	FC3	-.0693	BSP	2869												
BDE	1.0982	BRA	1.9239	BC3	.1563	FSP	-89												

MID-COURSE EXECUTION ACCURACY

SGT	1024.6	SGR	480.4	SG3	39.8						
RRT	-.1355	RRF	.1307	RTF	-.7109						
SGB	1131.6	R23	-.0081	R13	.7117						
SG1	1027.3	SG2	474.7	THA	175.38						

ORBIT DETERMINATION ACCURACY

ST	368.7	SR	441.4	SS	324.3						
CRT	.5613	CRS	.6145	CST	.9959						
LSA	588.6	MSA	298.7	SSA	15.0						
EL1	511.2	EL2	263.4	ALF	53.93						

LAUNCH DATE SEP 29 1965 FLIGHT TIME 82.00 ARRIVAL DATE DEC 20 1965

HELIOCENTRIC CONIC DISTANCE 168.884

RL	149.85	LAL	.00	LOL	5.65	VL	20.479	GAL	16.78	AZL	90.74	HCA	59.89	SMA	98.17	ECC	.58087	INC	.7389	VI	29.735
RP	107.90	LAP	-.64	LOP	65.53	VP	33.287	GAP	-35.11	AZP	90.37	TAL	166.97	TAP	226.86	RCA	41.15	APO	155.20	V2	35.120
RC	62.721	GL	-1.21	GP	-4.90	ZAL	57.68	ZAP	23.27	ETS	165.17	ZAE	139.02	ETE	184.78	ZAC	19.34	ETC	95.15	CLP	22.77

PLANETOCENTRIC CONIC

C3 143.644 VHL 11.985 DLA -19.44 RAL 310.72 RAD 6570.6 VEL 16.278 PTH 2.85 VHP 20.605 DPA -29.02 RAP 267.70 ECC 3.3640

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 16 55	2022.40	-14.49	29.67	200.32	114.60	10 50 37	1422.4	-11.05	22.68
90.00	16 48 22	687.82	24.00	310.88	214.08	105.50	16 59 50	87.8	25.89	302.72
100.00	11 26 7	1799.11	-16.39	12.33	199.40	115.35	11 56 6	1199.1	-12.85	5.34
100.00	18 21 51	5674.39	26.02	267.22	214.70	105.25	19 56 26	5074.4	27.86	258.90
110.00	12 8 9	1667.38	-21.20	359.82	196.88	117.46	12 35 56	1067.4	-17.36	352.81
110.00	19 56 18	5378.88	31.21	246.36	216.28	104.71	21 25 57	4778.9	32.91	237.55

DIFFERENTIAL CORRECTIONS

TDE	-.5482	TRA	-1.8943	TC3	-.1639	BAU	.3152												
RDE	-.9125	RRA	.4075	RC3	-.0091	FAU	.01277												
FDE	.2925	FRA	.8692	FC3	-.0770	BSP	3059												
BDE	1.0645	BRA	1.9376	BC3	.1641	FSP	-98												

MID-COURSE EXECUTION ACCURACY

SGT	1070.2	SGR	483.1	SG3	43.0						
RRT	-.1461	RRF	.1416	RTF	-.7272						
SGB	1174.2	R23	-.0091	R13	.7280						
SG1	1073.1	SG2	476.7	THA	175.30						

ORBIT DETERMINATION ACCURACY

ST	389.7	SR	440.6	SS	342.7						
CRT	.5619	CRS	.6225	CST	.9954						
LSA	609.1	MSA	303.5	SSA	15.1						
EL1	521.3	EL2	272.4	ALF	51.18						

LAUNCH DATE SEP 29 1965 FLIGHT TIME 84.00 ARRIVAL DATE DEC 22 1965

HELIOCENTRIC CONIC DISTANCE 175.139

RL	149.85	LAL	.00	LOL	5.65	VL	20.977	GAL	16.05	AZL	90.51	HCA	63.10	SMA	99.69	ECC	.55700	INC	.5055	VI	29.735
RP	107.87	LAP	-.45	LOP	68.75	VP	33.607	GAP	-33.56	AZP	90.23	TAL	166.29	TAP	229.39	RCA	44.16	APO	155.22	V2	35.132
RC	60.751	GL	-.89	GP	-5.09	ZAL	56.68	ZAP	21.92	ETS	163.91	ZAE	139.68	ETE	185.72	ZAC	19.86	ETC	100.18	CLP	21.35

PLANETOCENTRIC CONIC

C3 131.273 VHL 11.457 DLA -18.88 RAL 311.65 RAD 6570.4 VEL 15.894 PTH 2.81 VHP 19.799 DPA -29.33 RAP 269.74 ECC 3.1604

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 14 27	2028.55	-14.66	30.03	200.09	114.50	10 48 15	1428.6	-11.24	23.03
90.00	16 58 16	647.80	24.70	308.15	213.67	104.31	17 9 4	47.8	26.42	299.91
100.00	11 24 16	1803.25	-16.52	12.58	199.20	115.28	11 54 19	1203.3	-12.98	5.58
100.00	18 31 8	5636.38	26.68	264.58	214.23	104.01	20 5 4	5036.4	28.34	256.18
110.00	12 7 30	1667.78	-21.22	359.85	196.74	117.45	12 35 17	1067.8	-17.37	352.83
110.00	20 4 23	5344.61	31.77	243.85	215.65	103.32	21 33 28	4744.6	33.28	234.94

DIFFERENTIAL CORRECTIONS

TDE	-.5595	TRA	-1.9103	TC3	-.1721	BAU	.3027												
RDE	-.8681	RRA	.4072	RC3	-.0117	FAU	.01297												
FDE	.3120	FRA	.9013	FC3	-.0855	BSP	3197												
BDE	1.0328	BRA	1.9532	BC3	.1725	FSP	-108												

MID-COURSE EXECUTION ACCURACY

SGT	1119.4	SGR	485.3	SG3	46.5						
RRT	-.1568	RRF	.1533	RTF	-.7425						
SGB	1220.1	R23	-.0110	R13	.7433						
SG1	1122.6	SG2	477.9	THA	175.25						

ORBIT DETERMINATION ACCURACY

ST	412.5	SR	438.9	SS	362.1						
CRT	.5630	CRS	.6298	CST	.9949						
LSA	631.7	MSA	307.5	SSA	15.3						
EL1	532.9	EL2	280.8	ALF	48.14						

LAUNCH DATE SEP 29 1965 FLIGHT TIME 86.00 ARRIVAL DATE DEC 24 1965

HELIOCENTRIC CONIC DISTANCE 181.465

RL	149.85	LAL	.00	LOL	5.65	VL	21.443	GAL	15.34	AZL	90.29	HCA	66.32	SMA	101.20	ECC	.53387	INC	.2849	VI	29.735
RP	107.83	LAP	-.26	LOP	71.97	VP	33.913	GAP	-32.07	AZP	90.11	TAL	165.63	TAP	231.95	RCA	47.17	APO	155.22	V2	35.144
RC	58.824	GL	-.54	GP	-5.29	ZAL	55.73	ZAP	20.60	ETS	162.45	ZAE	140.44	ETE	186.78	ZAC	20.56	ETC	104.94	CLP	19.94

PLANETOCENTRIC CONIC

C3	120.000	VHL	10.954	DLA	-18.28	RAL	312.52	RAD	6570.2	VEL	15.535	PTH	2.77	VHP	19.019	DPA	-29.62	RAP	271.80	ECC	2.9749

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 11 39	2034.41	-14.83	30.39	199.77	114.40	10 45 33	1434.4	-11.41	23.37
90.00	17 7 57	606.80	25.36	305.33	213.11	103.04	17 18 3	6.8	26.90	297.00
100.00	11 22 4	1807.17	-16.63	12.82	198.90	115.20	11 52 12	1207.2	-13.10	5.81
100.00	18 40 12	5597.32	27.29	261.84	213.60	102.70	20 13 30	4997.3	28.77	253.35
110.00	12 6 29	1668.00	-21.22	359.86	196.50	117.45	12 34 17	1068.0	-17.38	352.84
110.00	20 12 17	5309.25	32.30	241.22	214.85	101.85	21 40 46	4709.3	33.59	232.23

DIFFERENTIAL CORRECTIONS

TDE	-.5677	TRA	-1.9237	TC3	-.1794	BAU	.2888												
RDE	-.8243	RRA	.4062	RC3	-.0149	FAU	.01320												
FDE	.3320	FRA	.9345	FC3	-.0952	BSP	3397												
BDE	1.0009	BRA	1.9661	BC3	.1800	FSP	-118												

MID-COURSE EXECUTION ACCURACY

SGT	1168.6	SGR	486.8	SG3	50.3						
RRT	-.1692	RRF	.1663	RTF	-.7574						
SGB	1265.9	R23	-.0125	R13	.7583						
SG1	1172.1	SG2	478.4	THA	175.16						

ORBIT DETERMINATION ACCURACY

ST	435.2	SR	436.3	SS	382.0						
CRT	.5619	CRS	.6358	CST	.9943						
LSA	654.9	MSA	310.7	SSA	15.5						
EL1	544.6	EL2	288.4	ALF	45.13						

LAUNCH DATE SEP 29 1965 FLIGHT TIME 88.00 ARRIVAL DATE DEC 26 1965

HELIOCENTRIC CONIC DISTANCE 187.857

RL	149.85	LAL	.00	LOL	5.65	VL	21.880	GAL	14.66	AZL	90.07	HCA	69.55	SMA	102.68	ECC	.51151	INC	.0737	VI	29.735
RP	107.80	LAP	-.07	LOP	75.19	VP	34.202	GAP	-30.64	AZP	90.03	TAL	165.00	TAP	234.55	RCA	50.16	APO	155.20	V2	35.155
RC	56.947	GL	-.15	GP	-5.52	ZAL	54.83	ZAP	19.32	ETS	160.75	ZAE	141.30	ETE	187.98	ZAC	21.40	ETC	109.38	CLP	18.54

PLANETOCENTRIC CONIC

C3	109.727	VHL	10.475	DLA	-17.67	RAL	313.31	RAD	6570.1	VEL	15.201	PTH	2.73	VHP	18.264	DPA	-29.92	RAP	273.88	ECC	2.8058

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 8 31	2040.09	-14.99	30.73	199.35	114.31	10 42 31	1440.1	-11.58	23.70
90.00	17 17 25	5852.83	25.97	280.31	212.38	101.70	18 54 58	5252.8	27.32	271.91
100.00	11 19 32	1810.94	-16.74	13.04	198.51	115.13	11 49 43	1210.9	-13.21	6.03
100.00	18 49 5	5557.21	27.86	259.00	212.81	101.30	20 21 42	4957.2	29.13	250.43
110.00	12 5 7	1668.13	-21.23	359.87	196.17	117.45	12 32 55	1068.1	-17.38	352.85
110.00	20 20 0	5272.79	32.78	238.48	213.90	100.30	21 47 52	4672.8	33.85	229.41

DIFFERENTIAL CORRECTIONS

TDE	-.5755	TRA	-1.9369	TC3	-.1864	BAU	.2747												
RDE	-.7809	RRA	.4047	RC3	-.0185	FAU	.01346												
FDE	.3529	FRA	.9689	FC3	-.1062	BSP	3592												
BDE	.9701	BRA	1.9788	BC3	.1873	FSP	-129												

MID-COURSE EXECUTION ACCURACY

SGT	1219.8	SGR	487.8	SG3	54.4						
RRT	-.1827	RRF	.1804	RTF	-.7716						
SGB	1313.7	R23	-.0142	R13	.7725						
SG1	1223.6	SG2	478.1	THA	175.07						

ORBIT DETERMINATION ACCURACY

ST	458.8	SR	432.8	SS	402.8						
CRT	.5601	CRS	.6410	CST	.9935						
LSA	679.5	MSA	313.1	SSA	15.6						
EL1	557.4	EL2	295.1	ALF	42.02						

LAUNCH DATE SEP 29 1965 FLIGHT TIME 90.00 ARRIVAL DATE DEC 28 1965

HELIOCENTRIC CONIC DISTANCE 194.309

RL	149.85	LAL	.00	LOL	5.65	VL	22.290	GAL	14.01	AZL	89.87	HCA	72.77	SMA	104.13	ECC	.48994	INC	.1265	VI	29.735
RP	107.76	LAP	.12	LOP	78.42	VP	34.477	GAP	-29.27	AZP	89.96	TAL	164.40	TAP	237.17	RCA	53.12	APO	155.15	V2	35.166
RC	55.125	GL	.27	GP	-5.76	ZAL	53.99	ZAP	18.06	ETS	158.75	ZAE	142.26	ETE	189.34	ZAC	22.39	ETC	113.47	CLP	17.15

PLANETOCENTRIC CONIC

C3	100.367	VHL	10.018	DLA	-17.03	RAL	314.04	RAD	6569.9	VEL	14.890	PTH	2.69	VHP	17.534	DPA	-30.20	RAP	275.99	ECC	2.6518

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 5 2	2045.69	-15.14	31.06	198.83	114.22	10 39 8	1445.7	-11.75	24.03
90.00	17 26 42	5809.77	26.53	277.28	211.50	100.28	19 3 32	5209.8	27.68	268.81
100.00	11 16 38	1814.69	-16.85	13.27	198.02	115.06	11 46 52	1214.7	-13.33	6.24
100.00	18 57 48	5516.00	28.37	256.04	211.87	99.83	20 29 44	4916.0	29.44	247.40
110.00	12 3 22	1668.25	-21.23	359.88	195.73	117.44	12 31 10	1068.2	-17.39	352.86
110.00	20 27 32	5235.21	33.20	235.63	212.78	98.66	21 54 48	4635.2	34.04	226.49

DIFFERENTIAL CORRECTIONS

TDE	-.5823	TRA	-1.9490	TC3	-.1927	BAU	.2604												
RDE	-.7381	RRA	.4027	RC3	-.0228	FAU	.01375												
FDE	.3746	FRA	1.0047	FC3	-.1186	BSP	3801												
BDE	.9402	BRA	1.9901	BC3	.1940	FSP	-142												

MID-COURSE EXECUTION ACCURACY

SGT	1272.4	SGR	488.2	SG3	58.8						
RRT	-.1974	RRF	.1961	RTF	-.7851						
SGB	1362.8	R23	-.0161	R13	.7861						
SG1	1276.6	SG2	477.0	THA	174.97						

ORBIT DETERMINATION ACCURACY

ST	483.1	SR	428.3	SS	424.3						
CRT	.5574	CRS	.6453	CST	.9927						
LSA	705.4	MSA	314.6	SSA	15.7						
EL1	571.3	EL2	300.6	ALF	38.89						

LAUNCH DATE SEP 29 1965 FLIGHT TIME 92.00 ARRIVAL DATE DEC 30 1965

HELIOCENTRIC CONIC DISTANCE 200.816

RL	149.85	LAL	.00	LOL	5.65	VL	22.673	GAL	13.38	AZL	89.68	HCA	76.00	SMA	105.56	ECC	.46918	INC	.3213	VI	29.735
RP	107.73	LAP	.31	LOP	81.64	VP	34.736	GAP	-27.96	AZP	89.92	TAL	163.83	TAP	239.83	RCA	56.04	APO	155.09	V2	35.176
RC	53.365	GL	.74	GP	-6.03	ZAL	53.20	ZAP	16.84	ETS	156.39	ZAE	143.33	ETE	190.90	ZAC	23.50	ETC	117.20	CLP	15.76

PLANETOCENTRIC CONIC

C3	91.841	VHL	9.583	DLA	-16.36	RAL	314.70	RAD	6569.8	VEL	14.601	PTH	2.65	VHP	16.827	DPA	-30.48	RAP	278.11	ECC	2.5115

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 1 10	2051.36	-15.30	31.40	198.23	114.12	10 35 22	1451.4	-11.92	24.36
90.00	17 35 49	5765.62	27.03	274.15	210.46	98.78	19 11 54	5165.6	27.97	265.61
100.00	11 13 19	1818.54	-16.96	13.50	197.44	114.99	11 43 38	1218.5	-13.45	6.47
100.00	19 6 21	5473.67	28.83	252.98	210.77	98.27	20 37 34	4873.7	29.67	244.28
110.00	12 1 14	1668.48	-21.24	359.89	195.21	117.44	12 29 2	1068.5	-17.39	352.87
110.00	20 34 56	5196.50	33.56	232.67	211.51	96.94	22 1 32	4596.5	34.15	223.48

DIFFERENTIAL CORRECTIONS

TDE	-.5883	TRA	-1.9604	TC3	-.1983	BAU	.2459												
RDE	-.6958	RRA	.4005	RC3	-.0278	FAU	.01408												
FDE	.3975	FRA	1.0421	FC3	-.1327	BSP	4017												
BDE	.9112	BRA	2.0009	BC3	.2002	FSP	-156												

MID-COURSE EXECUTION ACCURACY

SGT	1326.7	SGR	488.0	SG3	63.7						
RRT	-.2136	RRF	.2134	RTF	-.7980						
SGB	1413.7	R23	-.0183	R13	.7990						
SG1	1331.4	SG2	475.1	THA	174.85						

ORBIT DETERMINATION ACCURACY

ST	508.0	SR	422.7	SS	446.9						
CRT	.5537	CRS	.6486	CST	.9918						
LSA	732.7	MSA	315.2	SSA	15.9						
EL1	586.3	EL2	305.0	ALF	35.76						

LAUNCH DATE SEP 29 1965 FLIGHT TIME 94.00 ARRIVAL DATE JAN 1 1966

HELIOCENTRIC CONIC DISTANCE 207.373

RL 149.85 LAL .00 LOL 5.65 VL 23.032 GAL 12.77 AZL 89.49 HCA 79.22 SMA 106.96 ECC .44924 INC .5110 V1 29.735
RP 107.70 LAP .50 LOP 84.87 VP 34.982 GAP -26.69 AZP 89.90 TAL 163.30 TAP 242.52 RCA 58.91 APO 155.01 V2 35.186
RC 51.675 GL 1.25 GP -6.33 ZAL 52.47 ZAP 15.67 ETS 153.58 ZAE 144.49 ETE 192.68 ZAC 24.73 ETC 120.56 CLP 14.37

PLANETOCENTRIC CONIC

C3 84.077 VHL 9.169 DLA -15.66 RAL 315.29 RAD 6569.6 VEL 14.333 PTH 2.61 VHP 16.142 DPA -30.76 RAP 280.25 ECC 2.3837

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 56 54	2057.26	-15.47	31.76	197.54	114.02	10 31 11	1457.3	-12.09	24.71
90.00	17 44 47	5720.36	27.46	270.91	209.28	97.21	19 20 7	5120.4	28.17	262.31
100.00	11 9 37	1822.64	-17.08	13.75	196.78	114.91	11 39 59	1222.6	-13.58	6.71
100.00	19 14 45	5430.20	29.21	249.81	209.52	96.65	20 45 15	4830.2	29.82	241.05
110.00	11 58 40	1668.97	-21.25	359.92	194.60	117.43	12 26 29	1069.0	-17.41	352.90
110.00	20 42 11	5156.65	33.84	229.59	210.08	95.14	22 8 8	4556.6	34.18	220.36

DIFFERENTIAL CORRECTIONS

TDE -.5962 TRA-1.9734 TC3 -.2043 BAU .2327
RDE -.6540 RRA .3982 RC3 -.0335 FAU .01442
FDE .4221 FRA 1.0818 FC3 -.1485 BSP 4173
BDE .8850 BRA 2.0132 BC3 .2070 FSP -170

MID-COURSE EXECUTION ACCURACY

SGT 1385.4 SGR 487.4 SG3 68.9
RRT -.2306 RRF .2323 RTF -.8100
SGB 1468.6 R23 -.0216 R13 .8111
SG1 1390.5 SG2 472.5 THA 174.75

ORBIT DETERMINATION ACCURACY

ST 535.3 SR 416.0 SS 470.9
CRT .5501 CRS .6511 CST .9909
LSA 762.9 MSA 314.7 SSA 16.0
EL1 604.0 EL2 307.9 ALF 32.57

LAUNCH DATE SEP 29 1965 FLIGHT TIME 96.00 ARRIVAL DATE JAN 3 1966

HELIOCENTRIC CONIC DISTANCE 213.974

RL 149.85 LAL .00 LOL 5.65 VL 23.369 GAL 12.19 AZL 89.30 HCA 82.45 SMA 108.32 ECC .43012 INC .6965 V1 29.735
RP 107.67 LAP .69 LOP 88.10 VP 35.214 GAP -25.47 AZP 89.91 TAL 162.79 TAP 245.25 RCA 61.73 APO 154.91 V2 35.196
RC 50.062 GL 1.81 GP -6.65 ZAL 51.79 ZAP 14.56 ETS 150.23 ZAE 145.76 ETE 194.75 ZAC 26.05 ETC 123.58 CLP 12.99

PLANETOCENTRIC CONIC

C3 77.011 VHL 8.776 DLA -14.93 RAL 315.80 RAD 6569.5 VEL 14.084 PTH 2.57 VHP 15.480 DPA -31.04 RAP 282.40 ECC 2.2674

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 52 11	2063.56	-15.64	32.14	196.76	113.91	10 26 35	1463.6	-12.28	25.08
90.00	17 53 37	5673.93	27.81	267.55	207.95	95.57	19 28 11	5073.9	28.29	258.92
100.00	11 5 27	1827.16	-17.20	14.02	196.03	114.83	11 35 54	1227.2	-13.71	6.97
100.00	19 23 2	5385.56	29.52	246.52	208.13	94.94	20 52 48	4785.6	29.89	237.74
110.00	11 55 40	1669.85	-21.28	359.97	193.91	117.40	12 23 30	1069.9	-17.44	352.95
110.00	20 49 18	5115.64	34.05	226.41	208.51	93.27	22 14 34	4515.6	34.12	217.16

DIFFERENTIAL CORRECTIONS

TDE -.6013 TRA-1.9831 TC3 -.2082 BAU .2182
RDE -.6129 RRA .3959 RC3 -.0401 FAU .01482
FDE .4477 FRA 1.1230 FC3 -.1666 BSP 4390
BDE .8586 BRA 2.0223 BC3 .2120 FSP -187

MID-COURSE EXECUTION ACCURACY

SGT 1443.3 SGR 486.4 SG3 74.7
RRT -.2502 RRF .2536 RTF -.8216
SGB 1523.1 R23 -.0245 R13 .8227
SG1 1449.1 SG2 469.1 THA 174.61

ORBIT DETERMINATION ACCURACY

ST 562.0 SR 408.1 SS 495.7
CRT .5443 CRS .6524 CST .9893
LSA 793.4 MSA 313.6 SSA 16.1
EL1 621.8 EL2 309.4 ALF 29.56

LAUNCH DATE SEP 29 1965 FLIGHT TIME 98.00 ARRIVAL DATE JAN 5 1966

HELIOCENTRIC CONIC DISTANCE 220.615

RL 149.85 LAL .00 LOL 5.65 VL 23.683 GAL 11.62 AZL 89.12 HCA 85.69 SMA 109.65 ECC .41183 INC .8795 V1 29.735
RP 107.64 LAP .88 LOP 91.33 VP 35.432 GAP -24.30 AZP 89.93 TAL 162.33 TAP 248.02 RCA 64.49 APO 154.80 V2 35.204
RC 48.537 GL 2.43 GP -7.01 ZAL 51.18 ZAP 13.53 ETS 146.21 ZAE 147.11 ETE 197.14 ZAC 27.47 ETC 126.28 CLP 11.60

PLANETOCENTRIC CONIC

C3 70.585 VHL 8.401 DLA -14.16 RAL 316.25 RAD 6569.4 VEL 13.854 PTH 2.53 VHP 14.840 DPA -31.33 RAP 284.56 ECC 2.1616

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 47 0	2070.46	-15.83	32.56	195.91	113.79	10 21 31	1470.5	-12.48	25.48
90.00	18 2 21	5626.31	28.08	264.10	206.48	93.85	19 36 7	5026.3	28.31	255.44
100.00	11 0 50	1832.29	-17.35	14.33	195.20	114.73	11 31 22	1232.3	-13.87	7.27
100.00	19 31 13	5339.72	29.74	243.13	206.60	93.17	21 0 13	4739.7	29.86	234.33
110.00	11 52 13	1671.32	-21.33	.06	193.14	117.37	12 20 4	1071.3	-17.49	353.04
110.00	20 56 19	5073.45	34.16	223.12	206.80	91.32	22 20 52	4473.4	33.97	213.88

DIFFERENTIAL CORRECTIONS

TDE -.6056 TRA-1.9917 TC3 -.2106 BAU .2038
RDE -.5722 RRA .3937 RC3 -.0477 FAU .01527
FDE .4750 FRA 1.1665 FC3 -.1872 BSP 4616
BDE .8332 BRA 2.0302 BC3 .2160 FSP -205

MID-COURSE EXECUTION ACCURACY

SGT 1502.7 SGR 485.2 SG3 80.9
RRT -.2720 RRF .2772 RTF -.8326
SGB 1579.1 R23 -.0278 R13 .8338
SG1 1509.1 SG2 464.9 THA 174.45

ORBIT DETERMINATION ACCURACY

ST 589.3 SR 399.0 SS 521.8
CRT .5371 CRS .6525 CST .9888
LSA 825.5 MSA 311.5 SSA 16.3
EL1 640.9 EL2 309.5 ALF 26.66

LAUNCH DATE SEP 29 1965 FLIGHT TIME 100.00 ARRIVAL DATE JAN 7 1966

HELIOCENTRIC CONIC DISTANCE 227.292

RL 149.85 LAL .00 LOL 5.65 VL 23.977 GAL 11.09 AZL 88.94 HCA 88.92 SMA 110.93 ECC .39436 INC 1.0610 V1 29.735
RP 107.62 LAP 1.06 LOP 94.57 VP 35.637 GAP -23.17 AZP 89.98 TAL 161.91 TAP 250.83 RCA 67.18 APO 154.68 V2 35.213
RC 47.108 GL 3.10 GP -7.40 ZAL 50.62 ZAP 12.59 ETS 141.41 ZAE 148.53 ETE 199.94 ZAC 28.96 ETC 128.68 CLP 10.21

PLANETOCENTRIC CONIC

C3 64.746 VHL 8.046 DLA -13.34 RAL 316.62 RAD 6569.2 VEL 13.642 PTH 2.49 VHP 14.220 DPA -31.62 RAP 286.74 ECC 2.0656

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 41 19	2078.20	-16.04	33.03	194.99	113.65	10 15 58	1478.2	-12.71	25.94
90.00	18 11 0	5577.46	28.25	260.53	204.88	92.08	19 43 58	4977.5	28.24	251.87
100.00	10 55 42	1838.24	-17.52	14.69	194.30	114.61	11 26 20	1238.2	-14.05	7.62
100.00	19 39 19	5292.64	29.87	239.64	204.94	91.34	21 7 32	4692.6	29.73	230.84
110.00	11 48 16	1673.58	-21.40	.20	192.30	117.32	12 16 10	1073.6	-17.57	353.17
110.00	21 3 14	5030.07	34.18	219.73	204.97	89.32	22 27 4	4430.1	33.71	210.52

DIFFERENTIAL CORRECTIONS

TDE -.6098 TRA-1.9993 TC3 -.2117 BAU .1896
RDE -.5321 RRA .3918 RC3 -.0564 FAU .01575
FDE .5044 FRA 1.2125 FC3 -.2106 BSP 4839
BDE .8093 BRA 2.0373 BC3 .2191 FSP -224

MID-COURSE EXECUTION ACCURACY

SGT 1563.8 SGR 483.7 SG3 87.7
RRT -.2962 RRF .3036 RTF -.8431
SGB 1636.9 R23 -.0316 R13 .8444
SG1 1570.9 SG2 459.9 THA 174.27

ORBIT DETERMINATION ACCURACY

ST 617.5 SR 388.5 SS 549.4
CRT .5285 CRS .6513 CST .9876
LSA 859.4 MSA 308.6 SSA 16.4
EL1 661.4 EL2 308.0 ALF 23.87

LAUNCH DATE SEP 29 1965 FLIGHT TIME 102.00 ARRIVAL DATE JAN 9 1966

HELIOCENTRIC CONIC DISTANCE 233.999

RL	149.85	LAL	.00	LOL	5.65	VL	24.252	GAL	10.57	AZL	88.76	HCA	92.16	SMA	112.17	ECC	.37770	INC	1.2421	VI	29.735
RP	107.60	LAP	1.24	LOP	97.80	VP	35.830	GAP	-22.07	AZP	90.05	TAL	161.52	TAP	253.67	RCA	69.81	APO	154.54	V2	35.220
RC	45.785	GL	3.84	GP	-7.84	ZAL	50.13	ZAP	11.77	ETS	135.71	ZAE	149.99	ETE	203.21	ZAC	30.52	ETC	130.81	CLP	8.82

PLANETOCENTRIC CONIC

C3 59.448 VHL 7.710 DLA -12.48 RAL 316.92 RAD 6569.1 VEL 13.446 PTH 2.46 VHP 13.621 OPA -31.92 RAP 288.92 ECC 1.9784

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 35 6	2087.00	-16.28	33.56	194.00	113.49	10 9 53	1487.0	-12.97	26.45
90.00	18 19 37	5527.32	28.32	256.87	203.17	90.24	19 51 44	4927.3	28.05	248.21
100.00	10 50 1	1845.25	-17.72	15.12	193.33	114.48	11 20 46	1245.3	-14.27	8.03
100.00	19 47 22	5244.30	29.89	236.04	203.16	89.45	21 14 47	4644.3	29.49	227.26
110.00	11 43 48	1676.83	-21.50	.40	191.39	117.24	12 11 45	1076.8	-17.68	353.35
110.00	21 10 5	4985.49	34.09	216.25	203.02	87.26	22 33 10	4385.5	33.33	207.09

DIFFERENTIAL CORRECTIONS

TDE	-.6137	TRA	-2.0057	TC3	-.2108	BAU	.1756												
RDE	-.4924	RRA	.3905	RC3	-.0664	FAU	.01629												
FDE	.5359	FRA	1.2612	FC3	-.2372	BSP	5071												
BDE	.7868	BRA	2.0434	BC3	.2210	FSP	-246												

MID-COURSE EXECUTION ACCURACY

SGT	1626.0	SGR	482.4	SG3	95.2														
RRT	-.3233	RRF	.3331	RTF	-.8530														
SGB	1696.1	R23	-.0359	R13	.8544														
SG1	1634.1	SG2	454.2	THA	174.06														

ORBIT DETERMINATION ACCURACY

ST	646.4	SR	376.6	SS	578.5														
CRT	.5178	CRS	.6482	CST	.9863														
LSA	895.0	MSA	304.9	SSA	16.5														
EL1	683.1	EL2	304.8	ALF	21.21														

LAUNCH DATE SEP 29 1965 FLIGHT TIME 104.00 ARRIVAL DATE JAN 11 1966

HELIOCENTRIC CONIC DISTANCE 240.732

RL	149.85	LAL	.00	LOL	5.65	VL	24.509	GAL	10.07	AZL	88.58	HCA	95.39	SMA	113.37	ECC	.36185	INC	1.4242	VI	29.735
RP	107.57	LAP	1.42	LOP	101.04	VP	36.012	GAP	-21.02	AZP	90.13	TAL	161.17	TAP	256.56	RCA	72.35	APO	154.40	V2	35.227
RC	44.580	GL	4.65	GP	-8.32	ZAL	49.71	ZAP	11.13	ETS	129.04	ZAE	151.47	ETE	207.07	ZAC	32.14	ETC	132.69	CLP	7.41

PLANETOCENTRIC CONIC

C3 54.646 VHL 7.392 DLA -11.57 RAL 317.14 RAD 6569.0 VEL 13.267 PTH 2.42 VHP 13.043 OPA -32.25 RAP 291.11 ECC 1.8993

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 28 17	2097.14	-16.56	34.18	192.95	113.30	10 3 15	1497.1	-13.26	27.05
90.00	18 28 12	5475.85	28.27	253.10	201.34	88.35	19 59 28	4875.8	27.75	244.48
100.00	10 43 47	1853.59	-17.95	15.63	192.31	114.31	11 14 40	1253.6	-14.52	8.52
100.00	19 55 24	5194.64	29.80	232.36	201.28	87.51	21 21 59	4594.6	29.13	223.61
110.00	11 38 47	1681.33	-21.64	.67	190.42	117.13	12 6 49	1081.3	-17.83	353.61
110.00	21 16 53	4939.66	33.88	212.69	200.97	85.16	22 39 13	4339.7	32.84	203.60

DIFFERENTIAL CORRECTIONS

TDE	-.6173	TRA	-2.0109	TC3	-.2079	BAU	.1622												
RDE	-.4530	RRA	.3899	RC3	-.0777	FAU	.01688												
FDE	.5700	FRA	1.3130	FC3	-.2674	BSP	5301												
BDE	.7657	BRA	2.0484	BC3	.2220	FSP	-270												

MID-COURSE EXECUTION ACCURACY

SGT	1689.5	SGR	481.3	SG3	103.3														
RRT	-.3534	RRF	.3660	RTF	-.8623														
SGB	1756.7	R23	-.0408	R13	.8638														
SG1	1698.7	SG2	447.8	THA	173.82														

ORBIT DETERMINATION ACCURACY

ST	675.9	SR	363.1	SS	609.4														
CRT	.5047	CRS	.6429	CST	.9850														
LSA	932.5	MSA	300.3	SSA	16.5														
EL1	706.1	EL2	300.1	ALF	18.66														

LAUNCH DATE SEP 29 1965 FLIGHT TIME 106.00 ARRIVAL DATE JAN 13 1966

HELIOCENTRIC CONIC DISTANCE 247.488

RL	149.85	LAL	.00	LOL	5.65	VL	24.749	GAL	9.59	AZL	88.39	HCA	98.63	SMA	114.53	ECC	.34679	INC	1.6082	VI	29.735
RP	107.55	LAP	1.59	LOP	104.28	VP	36.181	GAP	-20.00	AZP	90.24	TAL	160.87	TAP	259.50	RCA	74.81	APO	154.25	V2	35.234
RC	43.503	GL	5.54	GP	-8.86	ZAL	49.36	ZAP	10.68	ETS	121.44	ZAE	152.90	ETE	211.60	ZAC	33.82	ETC	134.34	CLP	6.00

PLANETOCENTRIC CONIC

C3 50.303 VHL 7.092 DLA -10.60 RAL 317.29 RAD 6568.8 VEL 13.102 PTH 2.39 VHP 12.485 OPA -32.59 RAP 293.30 ECC 1.8279

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 20 51	2108.93	-16.87	34.90	191.86	113.08	9 56 0	1508.9	-13.60	27.75
90.00	18 36 49	5422.99	28.11	249.24	199.42	86.42	20 7 12	4823.0	27.32	240.67
100.00	10 36 55	1863.53	-18.23	16.24	191.24	114.11	11 7 58	1263.5	-14.82	9.10
100.00	20 3 26	5143.62	29.59	228.58	199.30	85.53	21 29 10	4543.6	28.65	219.90
110.00	11 33 11	1687.34	-21.82	1.04	189.41	116.99	12 1 18	1087.3	-18.03	353.96
110.00	21 23 39	4892.58	33.55	209.05	198.83	83.03	22 45 12	4292.6	32.22	200.07

DIFFERENTIAL CORRECTIONS

TDE	-.6209	TRA	-2.0149	TC3	-.2025	BAU	.1492												
RDE	-.4140	RRA	.3902	RC3	-.0906	FAU	.01753												
FDE	.6072	FRA	1.3680	FC3	-.3017	BSP	5540												
BDE	.7463	BRA	2.0523	BC3	.2219	FSP	-296												

MID-COURSE EXECUTION ACCURACY

SGT	1753.9	SGR	480.9	SG3	112.2														
RRT	-.3870	RRF	.4027	RTF	-.8711														
SGB	1818.6	R23	-.0464	R13	.8728														
SG1	1764.4	SG2	440.7	THA	173.54														

ORBIT DETERMINATION ACCURACY

ST	706.0	SR	348.0	SS	642.3														
CRT	.4883	CRS	.6348	CST	.9836														
LSA	972.0	MSA	295.0	SSA	16.6														
EL1	730.3	EL2	293.6	ALF	16.23														

LAUNCH DATE SEP 29 1965 FLIGHT TIME 108.00 ARRIVAL DATE JAN 15 1966

HELIOCENTRIC CONIC DISTANCE 254.261

RL	149.85	LAL	.00	LOL	5.65	VL	24.972	GAL	9.14	AZL	88.20	HCA	101.87	SMA	115.64	ECC	.33251	INC	1.7955	VI	29.735
RP	107.54	LAP	1.76	LOP	107.52	VP	36.340	GAP	-19.02	AZP	90.37	TAL	160.60	TAP	262.47	RCA	77.19	APO	154.09	V2	35.239
RC	42.563	GL	6.51	GP	-9.46	ZAL	49.08	ZAP	10.49	ETS	113.13	ZAE	154.23	ETE	216.91	ZAC	35.55	ETC	135.78	CLP	4.57

PLANETOCENTRIC CONIC

C3 46.383 VHL 6.810 DLA -9.56 RAL 317.36 RAD 6568.7 VEL 12.952 PTH 2.36 VHP 11.946 OPA -32.98 RAP 295.50 ECC 1.7633

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 12 44	2122.67	-17.24	35.74	190.72	112.82	9 48 6	1522.7	-14.00	28.57
90.00	18 45 29	5368.67	27.82	245.30	197.42	84.47	20 14 57	4768.7	26.76	236.79
100.00	10 29 22	1875.40	-18.56	16.96	190.12	113.86	11 0 38	1275.4	-15.18	9.80
100.00	20 11 31	5091.18	29.25	224.72	197.25	83.53	21 36 22	4491.2	28.04	216.12
110.00	11 26 56	1695.15	-22.07	1.52	188.36	116.80	11 55 11	1095.2	-18.29	354.42
110.00	21 30 27	4844.19	33.09	205.35	196.63	80.89	22 51 11	4244.2	31.48	196.49

DIFFERENTIAL CORRECTIONS

TDE	-.6250	TRA	-2.0179	TC3	-.1948	BAU	.1373												
RDE	-.3749	RRA	.3919	RC3	-.1053	FAU	.01823												
FDE	.6481	FRA	1.4270	FC3	-.3403	BSP	5774												
BDE	.7288	BRA	2.0556	BC3	.2214	FSP	-325												

MID-COURSE EXECUTION ACCURACY

SGT	1819.5	SGR	481.5	SG3	122.0														
RRT	-.4242	RRF	.4434	RTF	-.8794														
SGB	1882.1	R23	-.0529	R13	.8812														
SG1	1831.6	SG2	433.1	THA	173.21														

ORBIT DETERMINATION ACCURACY

ST	737.1	SR	331.0	SS	677.5														
CRT	.4676	CRS	.6227	CST	.9822														
LSA	1014.0	MSA	288.9	SSA	16.7														
EL1	755.9	EL2	285.3	ALF	13.87														

LAUNCH DATE SEP 29 1965 FLIGHT TIME 110.00 ARRIVAL DATE JAN 17 1966

DISTANCE 261.049

HELIOCENTRIC CONIC

RL 149.85 LAL .00 LOL 5.65 VL 25.180 GAL 8.70 AZL 88.01 HCA 105.11 SMA 116.70 ECC .31899 INC 1.9874 V1 29.735
RP 107.52 LAP 1.92 LOP 110.76 VP 36.488 GAP -18.07 AZP 90.52 TAL 160.38 TAP 265.49 RCA 79.47 APO 153.93 V2 35.244
RC 41.769 GL 7.58 GP -10.12 ZAL 48.88 ZAP 10.59 ETS 104.50 ZAE 155.38 ETE 223.05 ZAC 37.33 ETC 137.03 CLP 3.12

PLANETOCENTRIC CONIC

C3 42.854 VHL 6.546 DLA -8.45 RAL 317.34 RAD 6568.6 VEL 12.815 PTH 2.33 VHP 11.428 DPA -33.40 RAP 297.71 ECC 1.7053

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 3 52	2138.73	-17.66	36.74	189.56	112.50	9 39 31	1538.7	-14.46	29.52
90.00	18 54 14	5312.82	27.38	241.27	195.35	82.49	20 22 47	4712.8	26.06	232.85
100.00	10 21 7	1889.53	-18.95	17.84	188.98	113.56	10 52 36	1289.5	-15.60	10.64
100.00	20 19 41	5037.25	28.77	220.78	195.13	81.51	21 43 38	4437.3	27.29	212.29
110.00	11 20 1	1705.09	-22.37	2.13	187.27	116.55	11 48 26	1105.1	-18.62	355.00
110.00	21 37 16	4794.45	32.49	201.59	194.38	78.74	22 57 10	4194.5	30.60	192.89

DIFFERENTIAL CORRECTIONS

TDE -.6297 TRA-2.0196 TC3 -.1842 BAU .1265
RDE -.3358 RRA .3950 RC3 -.1218 FAU .01900
FDE .6933 FRA 1.4900 FC3 -.3838 BSP 6006
BDE .7136 BRA 2.0579 BC3 .2208 FSP -356

MID-COURSE EXECUTION ACCURACY

SGT 1885.6 SGR 483.7 SG3 132.7
RRT -.4651 RRF .4882 RTF -.8872
SGB 1946.6 R23 -.0603 R13 .8892
SG1 1899.7 SG2 425.0 THA 172.84

ORBIT DETERMINATION ACCURACY

ST 768.9 SR 312.1 SS 715.3
CRT .4409 CRS .6050 CST .9808
LSA 1058.5 MSA 282.1 SSA 16.7
EL1 782.9 EL2 275.1 ALF 11.60

LAUNCH DATE SEP 29 1965 FLIGHT TIME 112.00 ARRIVAL DATE JAN 19 1966

DISTANCE 267.848

HELIOCENTRIC CONIC

RL 149.85 LAL .00 LOL 5.65 VL 25.374 GAL 8.29 AZL 87.81 HCA 108.35 SMA 117.71 ECC .30622 INC 2.1852 V1 29.735
RP 107.51 LAP 2.07 LOP 114.01 VP 36.627 GAP -17.15 AZP 90.69 TAL 160.20 TAP 268.55 RCA 81.67 APO 153.76 V2 35.249
RC 41.131 GL 8.74 GP -10.87 ZAL 48.76 ZAP 11.00 ETS 96.03 ZAE 156.25 ETE 230.00 ZAC 39.16 ETC 138.10 CLP 1.66

PLANETOCENTRIC CONIC

C3 39.689 VHL 6.300 DLA -7.26 RAL 317.25 RAD 6568.5 VEL 12.691 PTH 2.31 VHP 10.929 DPA -33.88 RAP 299.92 ECC 1.6532

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 54 12	2157.49	-18.14	37.90	188.38	112.12	9 30 10	1557.5	-14.98	30.65
90.00	19 3 9	5255.33	26.80	237.16	193.24	80.51	20 30 45	4655.3	25.22	228.85
100.00	10 12 4	1906.30	-19.40	18.88	187.83	113.20	10 43 50	1306.3	-16.09	11.64
100.00	20 27 58	4981.75	28.14	216.77	192.97	79.49	21 51 0	4381.8	26.40	208.40
110.00	11 12 22	1717.50	-22.74	2.90	186.18	116.23	11 40 59	1117.5	-19.03	355.73
110.00	21 44 10	4743.31	31.75	197.79	192.09	76.61	23 3 13	4143.3	29.58	189.25

DIFFERENTIAL CORRECTIONS

TDE -.6355 TRA-2.0208 TC3 -.1702 BAU .1171
RDE -.2962 RRA .4001 RC3 -.1404 FAU .01983
FDE .7433 FRA 1.5575 FC3 -.4326 BSP 6237
BDE .7012 BRA 2.0600 BC3 .2207 FSP -391

MID-COURSE EXECUTION ACCURACY

SGT 1952.5 SGR 488.3 SG3 144.4
RRT -.5097 RRF .5368 RTF -.8946
SGB 2012.7 R23 -.0687 R13 .8969
SG1 1969.1 SG2 416.6 THA 172.39

ORBIT DETERMINATION ACCURACY

ST 801.9 SR 291.1 SS 755.9
CRT .4053 CRS .5790 CST .9795
LSA 1106.1 MSA 274.6 SSA 16.8
EL1 811.6 EL2 262.9 ALF 9.36

LAUNCH DATE SEP 29 1965 FLIGHT TIME 114.00 ARRIVAL DATE JAN 21 1966

DISTANCE 274.654

HELIOCENTRIC CONIC

RL 149.85 LAL .00 LOL 5.65 VL 25.554 GAL 7.89 AZL 87.61 HCA 111.59 SMA 118.68 ECC .29418 INC 2.3907 V1 29.735
RP 107.50 LAP 2.22 LOP 117.25 VP 36.755 GAP -16.26 AZP 90.88 TAL 160.07 TAP 271.65 RCA 83.77 APO 153.59 V2 35.252
RC 40.657 GL 10.02 GP -11.71 ZAL 48.74 ZAP 11.71 ETS 88.20 ZAE 156.74 ETE 237.64 ZAC 41.03 ETC 139.01 CLP .17

PLANETOCENTRIC CONIC

C3 36.862 VHL 6.071 DLA -5.98 RAL 317.07 RAD 6568.4 VEL 12.579 PTH 2.28 VHP 10.450 DPA -34.42 RAP 302.15 ECC 1.6067

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 43 40	2179.38	-18.70	39.26	187.20	111.66	9 19 59	1579.4	-15.59	31.96
90.00	19 12 16	5196.10	26.07	232.98	191.10	78.54	20 38 53	4596.1	24.23	224.79
100.00	10 2 11	1926.12	-19.93	20.11	186.66	112.76	10 34 17	1326.1	-16.67	12.83
100.00	20 36 27	4924.59	27.37	212.70	190.79	77.48	21 58 32	4324.6	25.37	204.47
110.00	11 3 56	1732.77	-23.20	3.85	185.08	115.84	11 32 49	1132.8	-19.53	356.63
110.00	21 51 11	4690.70	30.85	193.95	189.79	74.50	23 9 22	4090.7	28.42	185.60

DIFFERENTIAL CORRECTIONS

TDE -.6410 TRA-2.0191 TC3 -.1521 BAU .1093
RDE -.2559 RRA .4075 RC3 -.1614 FAU .02074
FDE .7992 FRA 1.6296 FC3 -.4872 BSP 6506
BDE .6902 BRA 2.0598 BC3 .2218 FSP -429

MID-COURSE EXECUTION ACCURACY

SGT 2017.6 SGR 496.2 SG3 157.2
RRT -.5578 RRF .5890 RTF -.9016
SGB 2077.7 R23 -.0778 R13 .9042
SG1 2037.3 SG2 407.9 THA 171.86

ORBIT DETERMINATION ACCURACY

ST 834.5 SR 268.0 SS 799.6
CRT .3553 CRS .5403 CST .9780
LSA 1155.8 MSA 266.9 SSA 16.7
EL1 840.4 EL2 248.7 ALF 7.14

LAUNCH DATE SEP 29 1965 FLIGHT TIME 116.00 ARRIVAL DATE JAN 23 1966

DISTANCE 281.464

HELIOCENTRIC CONIC

RL 149.85 LAL .00 LOL 5.65 VL 25.722 GAL 7.52 AZL 87.39 HCA 114.83 SMA 119.60 ECC .28284 INC 2.6057 V1 29.735
RP 107.49 LAP 2.36 LOP 120.50 VP 36.874 GAP -15.39 AZP 91.09 TAL 159.97 TAP 274.80 RCA 85.77 APO 153.43 V2 35.255
RC 40.351 GL 11.41 GP -12.66 ZAL 48.81 ZAP 12.73 ETS 81.31 ZAE 156.78 ETE 245.66 ZAC 42.95 ETC 139.76 CLP -1.35

PLANETOCENTRIC CONIC

C3 34.352 VHL 5.861 DLA -4.60 RAL 316.81 RAD 6568.4 VEL 12.479 PTH 2.26 VHP 9.991 DPA -35.05 RAP 304.38 ECC 1.5653

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 32 11	2204.86	-19.33	40.87	186.02	111.10	9 8 56	1604.9	-16.29	33.51
90.00	19 21 40	5134.98	25.17	228.73	188.94	76.59	20 47 15	4535.0	23.08	220.68
100.00	9 51 21	1949.44	-20.53	21.58	185.52	112.21	10 23 51	1349.4	-17.34	14.24
100.00	20 45 10	4865.64	26.43	208.57	188.60	75.50	22 6 16	4265.6	24.18	200.50
110.00	10 54 39	1751.31	-23.75	5.01	183.99	115.34	11 23 50	1151.3	-20.13	357.73
110.00	21 58 22	4636.54	29.80	190.08	187.50	72.43	23 15 39	4036.5	27.11	181.93

DIFFERENTIAL CORRECTIONS

TDE -.6492 TRA-2.0173 TC3 -.1315 BAU .1042
RDE -.2144 RRA .4177 RC3 -.1848 FAU .02172
FDE .8619 FRA 1.7071 FC3 -.5473 BSP 6730
BDE .6837 BRA 2.0601 BC3 .2269 FSP -471

MID-COURSE EXECUTION ACCURACY

SGT 2083.4 SGR 508.6 SG3 171.2
RRT -.6078 RRF .6434 RTF -.9081
SGB 2144.6 R23 -.0886 R13 .9111
SG1 2107.1 SG2 399.3 THA 171.24

ORBIT DETERMINATION ACCURACY

ST 868.9 SR 243.1 SS 846.9
CRT .2845 CRS .4811 CST .9768
LSA 1210.0 MSA 258.7 SSA 16.7
EL1 871.9 EL2 232.2 ALF 4.90

LAUNCH DATE SEP 29 1965 FLIGHT TIME 118.00 ARRIVAL DATE JAN 25 1966

HELIOCENTRIC CONIC DISTANCE 288.274

RL	149.85	LAL	.00	LOL	5.65	VL	25.877	GAL	7.16	AZL	87.17	HCA	118.07	SMA	120.47	ECC	.27219	INC	2.8322	VI	29.735
RP	107.48	LAP	2.50	LOP	123.75	VP	36.985	GAP	-14.56	AZP	91.33	TAL	159.91	TAP	277.98	RCA	87.68	APO	153.26	V2	35.257
RC	40.219	GL	12.93	GP	-13.73	ZAL	49.00	ZAP	14.03	ETS	75.47	ZAE	156.31	ETE	253.68	ZAC	44.91	ETC	140.37	CLP	-2.89

PLANETOCENTRIC CONIC

C3	32.141	VHL	5.669	DLA	-3.12	RAL	316.46	RAD	6568.3	VEL	12.390	PTH	2.24	VHP	9.553	DPA	-35.77	RAP	306.63	ECC	1.5290

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 19 38	2234.47	-20.05	42.74	184.88	110.43	8 56 53	1634.5	-17.09	35.32
90.00	19 31 24	5071.83	24.11	224.41	186.80	74.68	20 55 56	4471.8	21.77	216.52
100.00	9 39 32	1976.76	-21.23	23.31	184.40	111.56	10 12 28	1376.8	-18.11	15.90
100.00	20 54 12	4804.77	25.32	204.39	186.42	73.56	22 14 17	4204.8	22.83	196.48
110.00	10 44 26	1773.57	-24.39	6.42	182.93	114.73	11 14 0	1173.6	-20.85	359.07
110.00	22 5 47	4580.73	28.59	186.19	185.23	70.41	23 22 8	3980.7	25.65	178.24

DIFFERENTIAL CORRECTIONS

TDE	-.6591	TRA	-2.0145	TC3	-.1074	BAU	.1017
RDE	-.1710	RRA	.4314	RC3	-.2109	FAU	.02275
FDE	.9328	FRA	1.7900	FC3	-.6128	BSP	6967
BDE	.6809	BRA	2.0602	BC3	.2367	FSP	-517

MID-COURSE EXECUTION ACCURACY

SGT	2148.4	SGR	527.0	SG3	186.4		
RRT	-.6589	RRF	.6987	RTF	-.9143		
SGB	2212.1	R23	-.1004	R13	.9177		
SG1	2177.3	SG2	391.2	THA	170.51		

ORBIT DETERMINATION ACCURACY

ST	904.4	SR	217.0	SS	898.3		
CRT	.1786	CRS	.3879	CST	.9757		
LSA	1268.4	MSA	250.3	SSA	16.5		
EL1	905.2	EL2	213.3	ALF	2.60		

LAUNCH DATE SEP 29 1965 FLIGHT TIME 120.00 ARRIVAL DATE JAN 27 1966

HELIOCENTRIC CONIC DISTANCE 295.083

RL	149.85	LAL	.00	LOL	5.65	VL	26.022	GAL	6.82	AZL	86.93	HCA	121.31	SMA	121.29	ECC	.26221	INC	3.0729	VI	29.735
RP	107.48	LAP	2.62	LOP	126.99	VP	37.087	GAP	-13.75	AZP	91.60	TAL	159.89	TAP	281.20	RCA	89.49	APO	153.10	V2	35.259
RC	40.263	GL	14.59	GP	-14.95	ZAL	49.30	ZAP	15.59	ETS	70.67	ZAE	155.32	ETE	261.26	ZAC	46.94	ETC	140.83	CLP	-4.47

PLANETOCENTRIC CONIC

C3	30.214	VHL	5.497	DLA	-1.51	RAL	316.02	RAD	6568.2	VEL	12.312	PTH	2.22	VHP	9.136	DPA	-36.62	RAP	308.91	ECC	1.4972

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 5 57	2268.78	-20.85	44.94	183.79	109.61	8 43 45	1668.8	-17.98	37.44
90.00	19 41 35	5006.45	22.86	220.02	184.70	72.82	21 5 1	4406.5	20.29	212.29
100.00	9 26 35	2008.65	-22.01	25.36	183.33	110.75	10 0 4	1408.7	-18.99	17.86
100.00	21 3 38	4741.81	24.04	200.15	184.28	71.68	22 22 39	4141.8	21.31	192.42
110.00	10 33 13	1800.07	-25.13	8.12	181.93	113.97	11 3 13	1200.1	-21.68	.67
110.00	22 13 29	4523.16	27.21	182.28	183.01	68.47	23 28 52	3923.2	24.04	174.54

DIFFERENTIAL CORRECTIONS

TDE	-.6711	TRA	-2.0103	TC3	-.0796	BAU	.1021
RDE	-.1251	RRA	.4492	RC3	-.2399	FAU	.02385
FDE	1.0130	FRA	1.8782	FC3	-.6834	BSP	7207
BDE	.6827	BRA	2.0598	BC3	.2527	FSP	-567

MID-COURSE EXECUTION ACCURACY

SGT	2211.5	SGR	553.1	SG3	202.9		
RRT	-.7092	RRF	.7527	RTF	-.9200		
SGB	2279.6	R23	-.1134	R13	.9240		
SG1	2247.1	SG2	383.8	THA	169.64		

ORBIT DETERMINATION ACCURACY

ST	940.7	SR	191.9	SS	954.0		
CRT	.0160	CRS	.2370	CST	.9747		
LSA	1331.5	MSA	242.1	SSA	16.3		
EL1	940.7	EL2	191.8	ALF	.20		

LAUNCH DATE SEP 29 1965 FLIGHT TIME 122.00 ARRIVAL DATE JAN 29 1966

HELIOCENTRIC CONIC DISTANCE 301.888

RL	149.85	LAL	.00	LOL	5.65	VL	26.155	GAL	6.50	AZL	86.67	HCA	124.55	SMA	122.07	ECC	.25287	INC	3.3307	VI	29.735
RP	107.48	LAP	2.74	LOP	130.24	VP	37.181	GAP	-12.97	AZP	91.89	TAL	159.91	TAP	284.46	RCA	91.20	APO	152.94	V2	35.259
RC	40.482	GL	16.41	GP	-16.34	ZAL	49.72	ZAP	17.41	ETS	66.81	ZAE	153.85	ETE	268.07	ZAC	49.02	ETC	141.16	CLP	-6.09

PLANETOCENTRIC CONIC

C3	28.561	VHL	5.344	DLA	.22	RAL	315.48	RAD	6568.1	VEL	12.245	PTH	2.20	VHP	8.742	DPA	-37.61	RAP	311.22	ECC	1.4700

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 50 58	2308.45	-21.73	47.52	182.77	108.62	8 29 26	1708.5	-18.99	39.92
90.00	19 52 18	4938.61	21.43	215.57	182.64	71.03	21 14 37	4338.6	18.64	208.00
100.00	9 12 24	2045.74	-22.88	27.76	182.34	109.78	9 46 30	1445.7	-19.98	20.17
100.00	21 13 33	4676.56	22.58	195.86	182.20	69.87	22 31 29	4076.6	19.63	188.30
110.00	10 20 53	1831.37	-25.98	10.16	181.01	113.04	10 51 25	1231.4	-22.63	2.60
110.00	22 21 33	4463.69	25.67	178.35	180.85	66.61	23 35 57	3863.7	22.28	170.83

DIFFERENTIAL CORRECTIONS

TDE	-.6844	TRA	-2.0036	TC3	-.0463	BAU	.1053
RDE	-.0757	RRA	.4718	RC3	-.2719	FAU	.02503
FDE	1.1033	FRA	1.9711	FC3	-.7588	BSP	7490
BDE	.6886	BRA	2.0584	BC3	.2758	FSP	-623

MID-COURSE EXECUTION ACCURACY

SGT	2270.4	SGR	589.0	SG3	220.7		
RRT	-.7573	RRF	.8035	RTF	-.9256		
SGB	2345.6	R23	-.1265	R13	.9302		
SG1	2315.0	SG2	377.2	THA	168.58		

ORBIT DETERMINATION ACCURACY

ST	976.5	SR	172.3	SS	1013.8		
CRT	-.2273	CRS	-.0019	CST	.9738		
LSA	1398.5	MSA	234.5	SSA	15.9		
EL1	977.4	EL2	167.7	ALF	177.63		

LAUNCH DATE SEP 29 1965 FLIGHT TIME 124.00 ARRIVAL DATE JAN 31 1966

HELIOCENTRIC CONIC DISTANCE 308.685

RL	149.85	LAL	.00	LOL	5.65	VL	26.278	GAL	6.20	AZL	86.39	HCA	127.79	SMA	122.80	ECC	.24416	INC	3.6095	VI	29.735
RP	107.48	LAP	2.85	LOP	133.49	VP	37.268	GAP	-12.21	AZP	92.21	TAL	159.96	TAP	287.76	RCA	92.82	APO	152.78	V2	35.259
RC	40.875	GL	18.39	GP	-17.92	ZAL	50.29	ZAP	19.48	ETS	63.78	ZAE	151.94	ETE	273.91	ZAC	51.18	ETC	141.36	CLP	-7.75

PLANETOCENTRIC CONIC

C3	27.177	VHL	5.213	DLA	2.10	RAL	314.85	RAD	6568.1	VEL	12.188	PTH	2.19	VHP	8.372	DPA	-38.78	RAP	313.58	ECC	1.4473

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 34 31	2354.28	-22.70	50.53	181.86	107.40	8 13 46	1754.3	-20.10	42.82
90.00	20 3 43	4868.03	19.80	211.03	180.67	69.33	21 24 51	4268.0	16.81	203.63
100.00	8 56 51	2088.75	-23.85	30.60	181.45	108.58	9 31 39	1488.8	-21.09	22.89
100.00	21 24 5	4608.80	20.92	191.50	180.21	68.15	22 40 54	4008.8	17.77	184.12
110.00	10 7 20	1868.12	-26.94	12.59	180.19	111.89	10 38 28	1268.1	-23.73	4.89
110.00	22 30 5	4402.19	23.95	174.40	178.79	64.84	23 43 27	3802.2	20.36	167.09

DIFFERENTIAL CORRECTIONS

TDE	-.7034	TRA	-1.9983	TC3	-.0136	BAU	.1115
RDE	-.0211	RRA	.5006	RC3	-.3065	FAU	.02620
FDE	1.2073	FRA	2.0697	FC3	-.8345	BSP	7728
BDE	.7037	BRA	2.0600	BC3	.3068	FSP	-681

MID-COURSE EXECUTION ACCURACY

SGT	2329.8	SGR	637.0	SG3	239.7		
RRT	-.8001	RRF	.8489	RTF	-.9306		
SGB	2415.3	R23	-.1411	R13	.9362		
SG1	2386.3	SG2	373.1	THA	167.35		

ORBIT DETERMINATION ACCURACY

ST	1016.0	SR	167.1	SS	1079.6		
CRT	-.5357	CRS	-.3297	CST	.9733		
LSA	1474.4	MSA	227.3	SSA	15.4		
EL1	1020.1	EL2	140.5	ALF	174.87		

LAUNCH DATE SEP 29 1965 FLIGHT TIME 126.00 ARRIVAL DATE FEB 2 1966

HELIOCENTRIC CONIC DISTANCE 315.474

RL 149.85 LAL .00 LOL 5.65 VL 26.392 GAL 5.91 AZL 86.09 HCA 131.03 SMA 123.48 ECC .23604 INC 3.9138 VI 29.735
RP 107.48 LAP 2.95 LOP 136.75 VP 37.347 GAP -11.48 AZP 92.57 TAL 160.05 TAP 291.08 RCA 94.34 APO 152.63 V2 35.258
RC 41.437 GL 20.55 GP -19.74 ZAL 51.01 ZAP 21.81 ETS 61.43 ZAE 149.65 ETE 278.72 ZAC 53.43 ETC 141.44 CLP -9.46

PLANETOCENTRIC CONIC

C3 26.063 VHL 5.105 DLA 4.13 RAL 314.12 RAD 6568.1 VEL 12.142 PTH 2.18 VHP 8.029 DPA -40.15 RAP 316.03 ECC 1.4289

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 16 26	2407.18	-23.73	54.06	181.08	105.92	7 56 33	1807.2	-21.32	46.22
90.00	20 15 59	4794.36	17.96	206.41	178.82	67.73	21 35 53	4194.4	14.78	199.17
100.00	8 39 43	2138.56	-24.89	33.93	180.70	107.12	9 15 22	1538.6	-22.31	26.08
100.00	21 35 23	4538.21	19.07	187.08	178.32	66.54	22 51 1	3938.2	15.74	179.87
110.00	9 52 24	1911.06	-27.99	15.48	179.52	110.47	10 24 15	1311.1	-24.95	7.63
110.00	22 39 11	4338.48	22.04	170.43	176.83	63.19	23 51 30	3738.5	18.27	163.33

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.7270 TRA-1.9921 TC3 .0199 BAU .1200 SGT 2385.5 SGR 699.8 SG3 259.8 ST 1057.3 SR 187.0 SS 1150.8
RDE .0403 RRA .5366 RC3 -.3438 FAU .02734 RRT -.8370 RRF .8875 RTF -.9353 CRT -.8027 CRS -.6458 CST .9732
FDE 1.3258 FRA 2.1716 FC3 -.9080 BSP 7960 SGB 2486.1 R23 -.1555 R13 .9419 LSA 1558.2 MSA 221.1 SSA 14.8
BDE .7281 BRA 2.0631 BC3 .3443 FSP -743 SG1 2458.1 SG2 371.6 THA 165.87 EL1 1068.0 EL2 110.4 ALF 171.83

LAUNCH DATE SEP 29 1965 FLIGHT TIME 128.00 ARRIVAL DATE FEB 4 1966

HELIOCENTRIC CONIC DISTANCE 322.251

RL 149.85 LAL .00 LOL 5.65 VL 26.497 GAL 5.64 AZL 85.75 HCA 134.27 SMA 124.12 ECC .22851 INC 4.2497 VI 29.735
RP 107.49 LAP 3.04 LOP 140.00 VP 37.420 GAP -10.76 AZP 92.97 TAL 160.16 TAP 294.43 RCA 95.76 APO 152.49 V2 35.256
RC 42.162 GL 22.90 GP -21.84 ZAL 51.89 ZAP 24.42 ETS 59.66 ZAE 147.03 ETE 282.55 ZAC 55.80 ETC 141.40 CLP -11.22

PLANETOCENTRIC CONIC

C3 25.226 VHL 5.023 DLA 6.33 RAL 313.29 RAD 6568.0 VEL 12.108 PTH 2.17 VHP 7.715 DPA -41.77 RAP 318.58 ECC 1.4151

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 56 26	2468.26	-24.81	58.21	180.47	104.11	7 37 34	1868.3	-22.62	50.22
90.00	20 29 19	4717.15	15.90	201.67	177.10	66.26	21 47 57	4117.1	12.56	194.59
100.00	8 20 47	2196.19	-25.98	37.86	180.13	105.33	8 57 24	1596.2	-23.63	29.86
100.00	21 47 39	4464.45	17.01	182.57	176.58	65.04	23 2 4	3864.5	13.51	175.53
110.00	9 35 55	1961.05	-29.14	18.92	179.04	108.72	10 8 36	1361.1	-26.30	10.88
110.00	22 49 1	4272.36	19.96	166.43	175.02	61.66	24 0 13	3672.4	16.02	159.53

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.7563 TRA-1.9857 TC3 .0531 BAU .1304 SGT 2437.6 SGR 780.4 SG3 280.7 ST 1100.9 SR 237.1 SS 1227.4
RDE .1109 RRA .5812 RC3 -.3830 FAU .02840 RRT -.8674 RRF .9188 RTF -.9397 CRT -.9428 CRS -.8430 CST .9734
FDE 1.4604 FRA 2.2749 FC3 -.9747 BSP 8194 SGB 2559.5 R23 -.1689 R13 .9476 LSA 1651.6 MSA 216.0 SSA 14.0
BDE .7644 BRA 2.0691 BC3 .3667 FSP -807 SG1 2532.1 SG2 373.9 THA 164.12 EL1 1123.5 EL2 77.5 ALF 168.47

LAUNCH DATE SEP 29 1965 FLIGHT TIME 130.00 ARRIVAL DATE FEB 6 1966

HELIOCENTRIC CONIC DISTANCE 329.014

RL 149.85 LAL .00 LOL 5.65 VL 26.593 GAL 5.39 AZL 85.38 HCA 137.51 SMA 124.72 ECC .22153 INC 4.6248 VI 29.735
RP 107.49 LAP 3.12 LOP 143.25 VP 37.486 GAP -10.07 AZP 93.41 TAL 160.29 TAP 297.80 RCA 97.09 APO 152.35 V2 35.254
RC 43.042 GL 25.45 GP -24.25 ZAL 52.95 ZAP 27.34 ETS 58.37 ZAE 144.11 ETE 285.47 ZAC 58.30 ETC 141.24 CLP -13.02

PLANETOCENTRIC CONIC

C3 24.685 VHL 4.968 DLA 8.71 RAL 312.34 RAD 6568.0 VEL 12.086 PTH 2.16 VHP 7.436 DPA -43.68 RAP 321.29 ECC 1.4062

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 34 10	2538.95	-25.89	63.11	180.08	101.89	7 16 29	1939.0	-23.99	54.95
90.00	20 44 3	4635.78	13.61	196.80	175.58	64.93	22 1 18	4035.8	10.12	189.86
100.00	7 59 45	2262.93	-27.10	42.51	179.78	103.12	8 37 27	1662.9	-25.02	34.32
100.00	22 1 9	4387.03	14.73	177.95	175.02	63.69	23 14 16	3787.0	11.08	171.07
110.00	9 17 39	2019.14	-30.34	23.02	178.80	106.57	9 51 18	1419.1	-27.77	14.77
110.00	22 59 44	4203.59	17.68	162.39	173.39	60.26	24 9 48	3603.6	13.59	155.67

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.7901 TRA-1.9764 TC3 .0888 BAU .1429 SGT 2480.9 SGR 881.8 SG3 301.4 ST 1144.0 SR 315.6 SS 1307.4
RDE .1938 RRA .6358 RC3 -.4239 FAU .02940 RRT -.8919 RRF .9430 RTF -.9438 CRT -.9904 CRS -.9347 CST .9739
FDE 1.6106 FRA 2.3737 FC3-1.0311 BSP 8503 SGB 2633.0 R23 -.1790 R13 .9534 LSA 1752.8 MSA 212.6 SSA 13.0
BDE .8135 BRA 2.0762 BC3 .4331 FSP -876 SG1 2605.5 SG2 379.8 THA 162.02 EL1 1186.0 EL2 42.2 ALF 164.70

LAUNCH DATE SEP 29 1965 FLIGHT TIME 132.00 ARRIVAL DATE FEB 8 1966

HELIOCENTRIC CONIC DISTANCE 335.763

RL 149.85 LAL .00 LOL 5.65 VL 26.681 GAL 5.16 AZL 84.95 HCA 140.74 SMA 125.27 ECC .21509 INC 5.0491 VI 29.735
RP 107.50 LAP 3.19 LOP 146.50 VP 37.545 GAP -9.40 AZP 93.91 TAL 160.45 TAP 301.19 RCA 98.33 APO 152.22 V2 35.250
RC 44.068 GL 28.21 GP -27.04 ZAL 54.20 ZAP 30.59 ETS 57.47 ZAE 140.89 ETE 287.61 ZAC 60.97 ETC 140.99 CLP -14.88

PLANETOCENTRIC CONIC

C3 24.473 VHL 4.947 DLA 11.28 RAL 311.28 RAD 6568.0 VEL 12.077 PTH 2.16 VHP 7.197 DPA -45.91 RAP 324.23 ECC 1.4028

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 9 8	2621.11	-26.91	68.90	179.94	99.16	6 52 49	2021.1	-25.37	60.58
90.00	21 0 34	4549.40	11.07	191.73	174.29	63.77	22 16 23	3949.4	7.45	184.92
100.00	7 36 9	2340.44	-28.18	48.01	179.69	100.42	8 15 10	1740.4	-26.45	39.64
100.00	22 16 13	4305.30	12.21	173.19	173.70	62.50	23 27 59	3705.3	8.43	166.44
110.00	8 57 16	2086.63	-31.54	27.91	178.86	103.91	9 32 2	1486.6	-29.31	19.41
110.00	23 11 36	4131.88	15.22	158.30	171.97	59.01	24 20 28	3531.9	11.00	151.74

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.8353 TRA-1.9707 TC3 .1154 BAU .1562 SGT 2523.1 SGR 1007.8 SG3 321.4 ST 1193.1 SR 422.3 SS 1392.6
RDE .2942 RRA .7030 RC3 -.4634 FAU .03002 RRT -.9102 RRF .9609 RTF -.9476 CRT -.9995 CRS -.9734 CST .9749
FDE 1.7801 FRA 2.4665 FC3-1.0619 BSP 8745 SGB 2716.9 R23 -.1860 R13 .9591 LSA 1870.0 MSA 210.3 SSA 11.9
BDE .8856 BRA 2.0924 BC3 .4775 FSP -939 SG1 2688.5 SG2 391.8 THA 159.57 EL1 1265.5 EL2 12.1 ALF 160.52

LAUNCH DATE SEP 29 1965 FLIGHT TIME 134.00 ARRIVAL DATE FEB 10 1966

HELIOCENTRIC CONIC DISTANCE 342.494

RL 149.85 LAL .00 LOL 5.65 VL 26.762 GAL 4.94 AZL 84.46 HCA 143.98 SMA 125.79 ECC .20917 INC 5.5363 V1 29.735
RP 107.51 LAP 3.25 LOP 149.75 VP 37.599 GAP -8.75 AZP 94.48 TAL 160.62 TAP 304.60 RCA 99.48 APO 152.10 V2 35.247
RC 45.230 GL 31.21 GP -30.26 ZAL 55.67 ZAP 34.21 ETS 56.89 ZAE 137.36 ETE 289.07 ZAC 63.85 ETC 140.66 CLP -16.78

PLANETOCENTRIC CONIC

C3 24.648 VHL 4.965 DLA 14.05 RAL 310.08 RAD 6568.0 VEL 12.084 PTH 2.16 VHP 7.008 DPA -48.52 RAP 327.52 ECC 1.4056

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 40 36	2717.34	-27.77	75.82	180.10	95.79	6 25 54	2117.3	-26.67	67.32
90.00	21 19 31	4456.67	8.23	186.40	173.32	62.81	22 33 47	3856.7	4.52	179.68
100.00	7 9 24	2430.98	-29.12	54.58	179.93	97.09	7 49 55	1831.0	-27.83	46.01
100.00	22 33 24	4218.26	9.43	168.23	172.68	61.50	23 43 42	3618.3	5.55	161.59
110.00	8 34 21	2165.18	-32.68	33.75	179.28	100.63	9 10 26	1565.2	-30.87	24.99
110.00	23 24 57	4056.83	12.54	154.13	170.83	57.94	24 32 34	3456.8	8.22	147.70

DIFFERENTIAL CORRECTIONS
TDE -.8915 TRA-1.9660 TC3 .1357 BAU .1705
RDE .4179 RRA .7846 RC3 -.4993 FAU .03019
FDE 1.9654 FRA 2.5429 FC3-1.0605 BSP .9008
BDE .9846 BRA 2.1168 BC3 .5174 FSP -995

MID-COURSE EXECUTION ACCURACY
SGT 2558.7 SGR 1161.7 SG3 339.1
RRT -.9238 RRF .9737 RTF -.9510
SGB 2810.1 R23 -.1877 R13 .9648
SG1 2780.1 SG2 409.3 THA 156.71

ORBIT DETERMINATION ACCURACY
ST 1245.3 SR 557.8 SS 1479.4
CRT -.9971 CRS -.9893 CST .9763
LSA 2001.6 MSA 209.4 SSA 10.7
EL1 1364.0 EL2 38.7 ALF 155.91

LAUNCH DATE SEP 29 1965 FLIGHT TIME 136.00 ARRIVAL DATE FEB 12 1966

HELIOCENTRIC CONIC DISTANCE 349.206

RL 149.85 LAL .00 LOL 5.65 VL 26.836 GAL 4.74 AZL 83.89 HCA 147.20 SMA 126.26 ECC .20373 INC 6.1054 V1 29.735
RP 107.53 LAP 3.30 LOP 153.00 VP 37.647 GAP -8.12 AZP 95.14 TAL 160.80 TAP 308.01 RCA 100.54 APO 151.98 V2 35.242
RC 46.516 GL 34.44 GP -33.98 ZAL 57.36 ZAP 38.24 ETS 56.55 ZAE 133.48 ETE 289.98 ZAC 67.00 ETC 140.30 CLP -18.70

PLANETOCENTRIC CONIC

C3 25.300 VHL 5.030 DLA 17.03 RAL 308.73 RAD 6568.0 VEL 12.111 PTH 2.17 VHP 6.881 DPA -51.53 RAP 331.35 ECC 1.4164

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 7 26	2831.58	-28.27	84.13	180.58	91.66	5 54 38	2231.6	-27.74	75.51
90.00	21 41 55	4355.27	5.03	180.66	172.78	62.10	22 54 30	3755.3	1.26	174.01
100.00	6 38 32	2537.80	-29.76	62.45	180.51	92.99	7 20 50	1937.8	-29.02	53.72
100.00	22 53 30	4124.29	6.33	162.97	172.06	60.73	24 2 14	3524.3	2.38	156.41
110.00	8 8 17	2256.99	-33.62	40.75	180.13	96.59	8 45 54	1657.0	-32.34	31.75
110.00	23 40 14	3977.86	9.65	149.84	170.04	57.05	24 46 32	3377.9	5.24	143.52

DIFFERENTIAL CORRECTIONS
TDE -.9588 TRA-1.9606 TC3 .1519 BAU .1860
RDE .5724 RRA .8819 RC3 -.5285 FAU .02983
FDE 2.1583 FRA 2.5887 FC3-1.0208 BSP .9379
BDE 1.1166 BRA 2.1498 BC3 .5499 FSP -1045

MID-COURSE EXECUTION ACCURACY
SGT 2583.0 SGR 1346.0 SG3 352.1
RRT -.9340 RRF .9824 RTF -.9542
SGB 2912.6 R23 -.1831 R13 .9706
SG1 2880.6 SG2 431.1 THA 153.40

ORBIT DETERMINATION ACCURACY
ST 1297.6 SR 724.4 SS 1561.8
CRT -.9926 CRS -.9959 CST .9779
LSA 2145.6 MSA 209.9 SSA 9.4
EL1 1484.1 EL2 76.8 ALF 150.92

LAUNCH DATE SEP 29 1965 FLIGHT TIME 138.00 ARRIVAL DATE FEB 14 1966

HELIOCENTRIC CONIC DISTANCE 355.897

RL 149.85 LAL .00 LOL 5.65 VL 26.903 GAL 4.56 AZL 83.22 HCA 150.43 SMA 126.70 ECC .19877 INC 6.7834 V1 29.735
RP 107.55 LAP 3.34 LOP 156.25 VP 37.690 GAP -7.50 AZP 95.91 TAL 160.99 TAP 311.42 RCA 101.51 APO 151.88 V2 35.236
RC 47.916 GL 37.91 GP -38.26 ZAL 59.29 ZAP 42.70 ETS 56.40 ZAE 129.19 ETE 290.47 ZAC 70.45 ETC 139.96 CLP -20.63

PLANETOCENTRIC CONIC

C3 26.577 VHL 5.155 DLA 20.22 RAL 307.20 RAD 6568.1 VEL 12.164 PTH 2.18 VHP 6.835 DPA -54.95 RAP 335.99 ECC 1.4374

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 27 34	2970.60	-28.13	94.29	181.33	86.57	5 17 4	2370.6	-28.30	85.63
90.00	22 9 37	4240.62	1.35	174.25	172.83	61.71	23 20 18	3640.6	-2.44	167.62
100.00	6 1 58	2666.15	-29.83	71.99	181.42	87.98	6 46 25	2066.2	-29.79	63.18
100.00	23 17 54	4020.30	2.84	157.22	172.00	60.23	24 24 54	3420.3	-1.14	150.70
110.00	7 38 10	2365.23	-34.15	49.15	181.44	91.64	8 17 35	1765.2	-33.54	39.96
110.00	0 2 8	3893.99	6.52	145.37	169.72	56.37	1 7 2	3294.0	2.05	139.13

DIFFERENTIAL CORRECTIONS
TDE-1.0450 TRA-1.9592 TC3 .1575 BAU .2015
RDE .7699 RRA .9967 RC3 -.5449 FAU .02859
FDE 2.3510 FRA 2.5914 FC3 -.9314 BSP .9799
BDE 1.2980 BRA 2.1981 BC3 .5672 FSP -1075

MID-COURSE EXECUTION ACCURACY
SGT 2599.9 SGR 1562.5 SG3 358.0
RRT -.9414 RRF .9883 RTF -.9573
SGB 3033.3 R23 -.1725 R13 .9764
SG1 2998.7 SG2 456.9 THA 149.72

ORBIT DETERMINATION ACCURACY
ST 1354.1 SR 926.3 SS 1636.2
CRT -.9890 CRS -.9985 CST .9798
LSA 2307.4 MSA 210.9 SSA 8.1
EL1 1636.7 EL2 113.2 ALF 145.73

LAUNCH DATE SEP 29 1965 FLIGHT TIME 140.00 ARRIVAL DATE FEB 16 1966

HELIOCENTRIC CONIC DISTANCE 362.564

RL 149.85 LAL .00 LOL 5.65 VL 26.964 GAL 4.39 AZL 82.39 HCA 153.65 SMA 127.09 ECC .19427 INC 7.6106 V1 29.735
RP 107.56 LAP 3.37 LOP 159.50 VP 37.728 GAP -6.91 AZP 96.83 TAL 161.18 TAP 314.83 RCA 102.40 APO 151.78 V2 35.230
RC 49.420 GL 41.63 GP -43.13 ZAL 61.48 ZAP 47.60 ETS 56.41 ZAE 124.44 ETE 290.71 ZAC 74.27 ETC 139.74 CLP -22.49

PLANETOCENTRIC CONIC

C3 28.729 VHL 5.360 DLA 23.61 RAL 305.47 RAD 6568.2 VEL 12.252 PTH 2.20 VHP 6.899 DPA -58.73 RAP 341.94 ECC 1.4728

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	3 36 27	3148.90	-26.73	107.14	182.11	80.29	4 28 56	2548.9	-27.80	98.63
90.00	22 46 54	4101.10	-3.15	166.46	173.81	61.84	23 55 15	3501.1	-6.89	159.78
100.00	5 16 36	2825.99	-28.86	83.76	182.48	81.86	6 3 42	2226.0	-29.69	75.05
100.00	23 49 26	3899.24	-1.26	150.58	172.76	60.13	24 54 26	3299.2	-5.23	144.04
110.00	7 2 29	2494.74	-33.94	59.25	183.13	85.67	7 44 4	1894.7	-34.17	50.01
110.00	0 23 59	3803.25	3.07	140.60	170.05	55.94	1 27 22	3203.3	-1.42	134.40

DIFFERENTIAL CORRECTIONS
TDE-1.1581 TRA-1.9656 TC3 .1504 BAU .2157
RDE 1.0260 RRA 1.1296 RC3 -.5410 FAU .02621
FDE 2.5269 FRA 2.5355 FC3 -.7897 BSP 10272
BDE 1.5472 BRA 2.2670 BC3 .5615 FSP -1076

MID-COURSE EXECUTION ACCURACY
SGT 2610.8 SGR 1809.9 SG3 353.7
RRT -.9466 RRF .9921 RTF -.9601
SGB 3176.8 R23 -.1564 R13 .9818
SG1 3139.5 SG2 485.3 THA 145.80

ORBIT DETERMINATION ACCURACY
ST 1416.3 SR 1166.0 SS 1694.7
CRT -.9870 CRS -.9996 CST .9820
LSA 2488.4 MSA 212.2 SSA 6.8
EL1 1828.7 EL2 145.3 ALF 140.61

LAUNCH DATE SEP 29 1965 FLIGHT TIME 142.00 ARRIVAL DATE FEB 18 1966

HELIOCENTRIC CONIC DISTANCE 369.204

RL 149.85 LAL .00 LOL 5.65 VL 27.019 GAL 4.24 AZL 81.35 HCA 156.86 SMA 127.46 ECC .19019 INC 8.6491 V1 29.735
RP 107.58 LAP 3.39 LOP 162.75 VP 37.761 GAP -6.33 AZP 97.96 TAL 161.36 TAP 318.23 RCA 103.21 APO 151.70 V2 35.224
RC 51.018 GL 45.58 GP -48.63 ZAL 63.94 ZAP 52.92 ETS 56.56 ZAE 119.17 ETE 290.88 ZAC 78.49 ETC 139.81 CLP -24.18

PLANETOCENTRIC CONIC

C3 32.191 VHL 5.674 DLA 27.17 RAL 303.48 RAD 6568.3 VEL 12.392 PTH 2.24 VHP 7.114 DPA -62.72 RAP 350.00 ECC 1.5298

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	2 16 20	3422.99	-22.20	125.91	181.93	71.96	3 13 23	2823.0	-24.46	117.97
90.00	23 51 10	3884.10	-9.98	154.17	176.72	63.36	24 55 54	3284.1	-13.48	147.24
100.00	4 13 47	3044.38	-25.77	99.23	183.12	74.30	5 4 31	2444.4	-27.67	90.35
100.00	0 40 20	3737.94	-6.69	141.68	174.96	60.80	1 42 38	3137.9	-10.53	135.00
110.00	6 18 28	2654.17	-32.45	71.44	184.96	78.61	7 2 43	2054.2	-33.68	62.42
110.00	0 52 7	3700.91	-.84	135.26	171.34	55.83	1 53 48	3100.9	-5.32	129.04

DIFFERENTIAL CORRECTIONS
TDE-1.3052 TRA-1.9792 TC3 .1394 BAU .2283
RDE 1.3596 RRA 1.2759 RC3 -.5119 FAU .02275
FDE 2.6576 FRA 2.4013 FC3 -.6117 BSP 11002
BDE 1.8847 BRA 2.3548 BC3 .5306 FSP -1050

MID-COURSE EXECUTION ACCURACY
SGT 2609.5 SGR 2078.5 SG3 335.9
RRT -.9505 RRF .9945 RTF -.9631
SGB 3336.1 R23 -.1357 R13 .9868
SG1 3296.7 SG2 511.3 THA 141.79

ORBIT DETERMINATION ACCURACY
ST 1480.3 SR 1440.2 SS 1724.5
CRT -.9862 CRS -.9999 CST .9844
LSA 2682.2 MSA 213.3 SSA 5.6
EL1 2058.2 EL2 171.6 ALF 135.80

LAUNCH DATE SEP 29 1965 FLIGHT TIME 144.00 ARRIVAL DATE FEB 20 1966

HELIOCENTRIC CONIC DISTANCE 375.806

RL 149.85 LAL .00 LOL 5.65 VL 27.068 GAL 4.10 AZL 80.00 HCA 160.07 SMA 127.78 ECC .18652 INC10.0005 V1 29.735
RP 107.61 LAP 3.39 LOP 165.99 VP 37.790 GAP -5.77 AZP 99.41 TAL 161.54 TAP 321.61 RCA 103.95 APO 151.62 V2 35.216
RC 52.701 GL 49.72 GP -54.73 ZAL 66.69 ZAP 58.58 ETS 56.98 ZAE 113.36 ETE 291.31 ZAC 83.15 ETC 140.46 CLP -25.46

PLANETOCENTRIC CONIC

C3 37.767 VHL 6.145 DLA 30.87 RAL 301.16 RAD 6568.5 VEL 12.615 PTH 2.29 VHP 7.549 DPA -66.54 RAP 1.50 ECC 1.6215

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
77.17	23 10 18	4022.56	-16.85	167.86	180.74	63.75	24 17 21	3422.6	-20.24	160.63
102.83	2 38 39	3365.18	-16.83	119.35	180.73	63.74	3 34 44	2765.2	-20.22	112.12
77.17	23 10 18	4022.56	-16.85	167.86	180.74	63.75	24 17 21	3422.6	-20.24	160.63
102.83	2 38 39	3365.18	-16.83	119.35	180.73	63.74	3 34 44	2765.2	-20.22	112.12
110.00	5 19 7	2864.52	-28.60	86.59	186.11	70.43	6 6 52	2264.5	-31.00	78.21
110.00	1 32 56	3571.21	-5.78	128.47	174.24	56.25	2 32 27	2971.2	-10.17	122.14

DIFFERENTIAL CORRECTIONS
TDE-1.4395 TRA-1.9380 TC3 .2036 BAU .2663
RDE 1.7624 RRA 1.3904 RC3 -.4866 FAU .02097
FDE 2.6576 FRA 2.1217 FC3 -.4807 BSP 13970
BDE 2.2756 BRA 2.3851 BC3 .5275 FSP -1117

MID-COURSE EXECUTION ACCURACY
SGT 2509.0 SGR 2310.5 SG3 296.8
RRT -.9546 RRF .9960 RTF -.9659
SGB 3410.8 R23 -.1128 R13 .9909
SG1 3372.1 SG2 512.0 THA 137.47

ORBIT DETERMINATION ACCURACY
ST 1483.3 SR 1704.6 SS 1677.9
CRT -.9854 CRS-1.0000 CST .9860
LSA 2806.4 MSA 213.0 SSA 4.3
EL1 2251.5 EL2 190.9 ALF 130.97

LAUNCH DATE SEP 29 1965 FLIGHT TIME 146.00 ARRIVAL DATE FEB 22 1966

HELIOCENTRIC CONIC DISTANCE 382.392

RL 149.85 LAL .00 LOL 5.65 VL 27.113 GAL 3.99 AZL 78.16 HCA 163.25 SMA 128.08 ECC .18330 INC11.8428 V1 29.735
RP 107.63 LAP 3.39 LOP 169.24 VP 37.814 GAP -5.23 AZP 101.35 TAL 161.67 TAP 324.93 RCA 104.60 APO 151.56 V2 35.208
RC 54.462 GL 53.97 GP -61.35 ZAL 69.69 ZAP 64.41 ETS 58.16 ZAE 107.01 ETE 292.67 ZAC 88.28 ETC 142.36 CLP -25.74

PLANETOCENTRIC CONIC

C3 47.107 VHL 6.863 DLA 34.58 RAL 298.44 RAD 6568.8 VEL 12.980 PTH 2.37 VHP 8.324 DPA -69.43 RAP 18.00 ECC 1.7753

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
69.27	22 7 49	4238.52	-16.79	184.37	182.50	59.32	23 18 28	3638.5	-20.74	177.44
110.73	3 19 27	3260.59	-16.78	111.31	182.49	59.31	4 13 48	2660.6	-20.72	104.38
69.27	22 7 49	4238.52	-16.79	184.37	182.50	59.32	23 18 28	3638.5	-20.74	177.44
110.73	3 19 27	3260.59	-16.78	111.31	182.49	59.31	4 13 48	2660.6	-20.72	104.38
69.27	22 7 49	4238.52	-16.79	184.37	182.50	59.32	23 18 28	3638.5	-20.74	177.44
110.73	3 19 27	3260.59	-16.78	111.31	182.49	59.31	4 13 48	2660.6	-20.72	104.38

DIFFERENTIAL CORRECTIONS
TDE-1.9215 TRA-2.1684 TC3 .0356 BAU .2054
RDE 2.4149 RRA 1.6014 RC3 -.3242 FAU .01017
FDE 2.7427 FRA 1.9482 FC3 -.1869 BSP 11474
BDE 3.0861 BRA 2.6956 BC3 .3262 FSP -793

MID-COURSE EXECUTION ACCURACY
SGT 2721.9 SGR 2626.5 SG3 262.2
RRT -.9547 RRF .9958 RTF -.9718
SGB 3782.5 R23 -.0850 R13 .9947
SG1 3739.4 SG2 569.0 THA 136.07

ORBIT DETERMINATION ACCURACY
ST 1734.3 SR 2074.0 SS 1700.9
CRT -.9883 CRS -.9999 CST .9906
LSA 3186.9 MSA 214.3 SSA 3.6
EL1 2695.9 EL2 203.5 ALF 129.84

LAUNCH DATE SEP 29 1965 FLIGHT TIME 148.00 ARRIVAL DATE FEB 24 1966

HELIOCENTRIC CONIC DISTANCE 388.917

RL 149.85 LAL .00 LOL 5.65 VL 27.152 GAL 3.90 AZL 75.48 HCA 166.42 SMA 128.35 ECC .18044 INC14.5164 V1 29.735
RP 107.66 LAP 3.38 LOP 172.48 VP 37.835 GAP -4.71 AZP 104.13 TAL 161.78 TAP 328.20 RCA 105.19 APO 151.51 V2 35.200
RC 56.291 GL 58.17 GP -68.34 ZAL 72.98 ZAP 70.23 ETS 61.65 ZAE 100.07 ETE 296.62 ZAC 93.95 ETC 147.20 CLP -23.56

PLANETOCENTRIC CONIC

C3 63.868 VHL 7.992 DLA 38.12 RAL 295.16 RAD 6569.2 VEL 13.610 PTH 2.49 VHP 9.654 DPA -70.21 RAP 39.32 ECC 2.0511

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
63.34	21 22 39	4408.77	-15.41	197.10	184.61	54.69	22 36 7	3808.8	-19.92	190.58
116.66	3 38 27	3240.32	-15.39	108.75	184.60	54.69	4 32 27	2640.3	-19.90	102.23
63.34	21 22 39	4408.77	-15.41	197.10	184.61	54.69	22 36 7	3808.8	-19.92	190.58
116.66	3 38 27	3240.32	-15.39	108.75	184.60	54.69	4 32 27	2640.3	-19.90	102.23
63.34	21 22 39	4408.77	-15.41	197.10	184.61	54.69	22 36 7	3808.8	-19.92	190.58
116.66	3 38 27	3240.32	-15.39	108.75	184.60	54.69	4 32 27	2640.3	-19.90	102.23

DIFFERENTIAL CORRECTIONS
TDE-2.6186 TRA-2.4148 TC3 -.0035 BAU .1635
RDE 3.1540 RRA 1.6698 RC3 -.1914 FAU .00333
FDE 2.6434 FRA 1.6339 FC3 -.0451 BSP 12335
BDE 4.0994 BRA 2.9359 BC3 .1914 FSP -651

MID-COURSE EXECUTION ACCURACY
SGT 2892.5 SGR 2742.7 SG3 208.3
RRT -.9570 RRF .9940 RTF -.9799
SGB 3986.1 R23 -.0561 R13 .9973
SG1 3943.1 SG2 583.9 THA 136.59

ORBIT DETERMINATION ACCURACY
ST 1990.0 SR 2306.9 SS 1624.1
CRT -.9904 CRS -.9995 CST .9943
LSA 3445.9 MSA 212.8 SSA 2.8
EL1 3039.4 EL2 209.3 ALF 130.74

LAUNCH DATE SEP 29 1965 FLIGHT TIME 150.00 ARRIVAL DATE FEB 26 1966

HELIOCENTRIC CONIC DISTANCE 395.368

RL 149.85 LAL .00 LOL 5.65 VL 27.187 GAL 3.82 AZL 71.24 HCA 169.53 SMA 128.58 ECC .17800 INC18.7563 V1 29.735
RP 107.69 LAP 3.35 LOP 175.72 VP 37.851 GAP -4.22 AZP 108.47 TAL 161.83 TAP 331.36 RCA 105.79 APO 151.47 V2 35.191
RC 58.184 GL 61.91 GP -75.32 ZAL 76.50 ZAP 75.76 ETS 74.33 ZAE 92.43 ETE 310.09 ZAC 100.38 ETC 161.98 CLP -13.85

PLANETOCENTRIC CONIC

C3 97.761 VHL 9.887 DLA 41.04 RAL 291.18 RAD 6569.9 VEL 14.802 PTH 2.67 VHP 12.003 DPA -67.77 RAP 60.79 ECC 2.6089

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
58.96	20 46 18	4564.42	-12.25	207.70	186.75	50.52	22 2 23	3964.4	-17.25	201.66
121.04	3 43 2	3279.76	-12.23	109.58	186.74	50.52	4 37 41	2679.8	-17.24	103.54
58.96	20 46 18	4564.42	-12.25	207.70	186.75	50.52	22 2 23	3964.4	-17.25	201.66
121.04	3 43 2	3279.76	-12.23	109.58	186.74	50.52	4 37 41	2679.8	-17.24	103.54
58.96	20 46 18	4564.42	-12.25	207.70	186.75	50.52	22 2 23	3964.4	-17.25	201.66
121.04	3 43 2	3279.76	-12.23	109.58	186.74	50.52	4 37 41	2679.8	-17.24	103.54

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE-4.5336 TRA-3.0748 TC3 -.0645 BAU .1123 SGT 3535.3 SGR 2232.2 SG3 154.3 ST 2721.0 SR 2032.9 SS 1543.1
RDE 3.4727 RRA 1.2487 RC3 -.0568 FAU-.00434 RRT -.9553 RRF .9810 RTF -.9933 CRT -.9926 CRS -.9977 CST .9985
FDE 2.5115 FRA 1.3430 FC3 .0384 BSP 12929 SGB 4181.0 R23 -.0249 R13 .9989 LSA 3725.4 MSA 198.2 SSA 2.1
BDE 5.7108 BRA 3.3187 BC3 .0860 FSP -490 SG1 4142.9 SG2 563.1 THA 148.25 EL1 3390.8 EL2 197.7 ALF 143.29

LAUNCH DATE SEP 29 1965 FLIGHT TIME 152.00 ARRIVAL DATE FEB 28 1966

HELIOCENTRIC CONIC DISTANCE 401.678

RL 149.85 LAL .00 LOL 5.65 VL 27.218 GAL 3.79 AZL 63.56 HCA 172.54 SMA 128.79 ECC .17603 INC26.4415 V1 29.735
RP 107.72 LAP 3.31 LOP 178.96 VP 37.864 GAP -3.77 AZP 116.25 TAL 161.75 TAP 334.30 RCA 106.12 APO 151.46 V2 35.181
RC 60.133 GL 64.08 GP -79.97 ZAL 80.19 ZAP 80.72 ETS 127.36 ZAE 83.48 ETE 4.02 ZAC 108.36 ETC 217.92 CLP 22.08

PLANETOCENTRIC CONIC

C3 180.802 VHL 13.446 DLA 42.25 RAL 286.42 RAD 6570.9 VEL 17.382 PTH 2.96 VHP 16.524 DPA -61.56 RAP 77.19 ECC 3.9755

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
57.22	20 19 54	4701.97	-7.29	215.34	188.34	48.26	21 38 16	4102.0	-12.57	209.65
122.78	3 31 30	3376.35	-7.28	113.65	188.33	48.26	4 27 46	2776.3	-12.55	107.96
57.22	20 19 54	4701.97	-7.29	215.34	188.34	48.26	21 38 16	4102.0	-12.57	209.65
122.78	3 31 30	3376.35	-7.28	113.65	188.33	48.26	4 27 46	2776.3	-12.55	107.96
57.22	20 19 54	4701.97	-7.29	215.34	188.34	48.26	21 38 16	4102.0	-12.57	209.65
122.78	3 31 30	3376.35	-7.28	113.65	188.33	48.26	4 27 46	2776.3	-12.55	107.96

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE-7.4946 TRA-3.2142 TC3 -.1491 BAU .4246 SGT 3712.6 SGR 2207.6 SG3 108.4 ST 3241.4 SR 1748.1 SS 1526.2
RDE-3.9841 RRA-2.4127 RC3 -.0928 FAU-.01375 RRT .9873 RRF -.9922 RTF -.9987 CRT .9976 CRS .9986 CST .9999
FDE 2.4650 FRA 1.1518 FC3 .0658 BSP 13500 SGB 4319.4 R23 .0025 R13 -.9995 LSA 3985.1 MSA 105.5 SSA 1.7
BDE 8.4877 BRA 4.0190 BC3 .1757 FSP -353 SG1 4308.8 SG2 302.4 THA 30.58 EL1 3681.2 EL2 105.5 ALF 28.31

LAUNCH DATE SEP 29 1965 FLIGHT TIME 154.00 ARRIVAL DATE MAR 2 1966

HELIOCENTRIC CONIC DISTANCE 407.619

RL 149.85 LAL .00 LOL 5.65 VL 27.245 GAL 3.83 AZL 46.49 HCA 175.25 SMA 128.97 ECC .17477 INC43.5069 V1 29.735
RP 107.75 LAP 3.27 LOP 182.20 VP 37.874 GAP -3.42 AZP 133.41 TAL 161.38 TAP 336.63 RCA 106.43 APO 151.51 V2 35.171
RC 62.133 GL 61.22 GP -73.24 ZAL 83.78 ZAP 84.74 ETS 173.92 ZAE 70.98 ETE 50.67 ZAC 120.59 ETC 268.46 CLP 71.47

PLANETOCENTRIC CONIC

C3 455.871 VHL 21.351 DLA 38.51 RAL 281.35 RAD 6572.3 VEL 24.024 PTH 3.31 VHP 26.666 DPA -49.67 RAP 87.69 ECC 8.5025

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
62.72	20 24 32	4746.89	-1.91	214.61	188.96	51.53	21 43 39	4146.9	-6.87	208.73
117.28	2 46 23	3560.99	-1.89	124.81	188.95	51.53	3 45 44	2961.0	-6.85	118.93
62.72	20 24 32	4746.89	-1.91	214.61	188.96	51.53	21 43 39	4146.9	-6.87	208.73
117.28	2 46 23	3560.99	-1.89	124.81	188.95	51.53	3 45 44	2961.0	-6.85	118.93
62.72	20 24 32	4746.89	-1.91	214.61	188.96	51.53	21 43 39	4146.9	-6.87	208.73
117.28	2 46 23	3560.99	-1.89	124.81	188.95	51.53	3 45 44	2961.0	-6.85	118.93

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE-5.2484 TRA -.6026 TC3 -.1111 BAU 1.7110 SGT 1500.4 SGR 4035.5 SG3 78.5 ST 1409.9 SR 3411.8 SS 1760.1
RD-12.5264 RRA-5.6639 RC3 -.2578 FAU-.03399 RRT .9344 RRF -.9994 RTF -.9391 CRT .9919 CRS 1.0000 CST .9923
FDE 2.8066 FRA 1.2416 FC3 .0646 BSP 13253 SGB 4305.4 R23 -.0270 R13 -.9992 LSA 4086.3 MSA 167.7 SSA 1.8
BDE13.5815 BRA 5.6959 BC3 .2807 FSP -253 SG1 4275.7 SG2 504.3 THA 70.56 EL1 3687.9 EL2 166.0 ALF 67.67

LAUNCH DATE SEP 29 1965 FLIGHT TIME 156.00 ARRIVAL DATE MAR 4 1966

HELIOCENTRIC CONIC DISTANCE 412.167

RL 149.85 LAL .00 LOL 5.65 VL 27.268 GAL 4.13 AZL 3.76 HCA 176.78 SMA 129.13 ECC .17550 INC86.2404 V1 29.735
RP 107.78 LAP 3.21 LOP 185.43 VP 37.881 GAP -3.42 AZP 176.23 TAL 159.92 TAP 336.70 RCA 106.47 APO 151.79 V2 35.160
RC 64.180 GL 44.05 GP -49.62 ZAL 86.39 ZAP 87.16 ETS 181.63 ZAE 49.41 ETE 51.84 ZAC 144.31 ETC 284.33 CLP 85.61

PLANETOCENTRIC CONIC

C31523.564 VHL 39.033 DLA 20.91 RAL 278.19 RAD 6573.2 VEL 40.557 PTH 3.56 VHP 49.459 DPA -25.27 RAP 93.49 ECC26.0740

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	2 23 44	3615.56	-17.64	138.18	196.87	67.48	3 24 0	3015.6	-20.54	130.71
90.00	20 22 0	4826.18	18.77	208.39	182.44	68.40	21 42 26	4226.2	15.67	201.09
100.00	3 59 3	3308.20	-19.78	116.52	197.82	67.12	4 54 12	2708.2	-22.71	108.94
100.00	21 29 22	4608.77	20.92	191.50	181.53	68.15	22 46 10	4008.8	17.77	184.12
110.00	5 36 54	3002.08	-25.12	95.77	200.32	66.01	6 26 56	2402.1	-28.13	87.90
110.00	22 8 0	4487.65	26.31	179.92	179.13	67.34	23 22 48	3887.7	23.00	172.31

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE-6.7956 TRA .4168 TC3 -.1108 BAU 5.6774 SGT 1322.1 SGR 3354.9 SG3 66.7 ST 998.1 SR 2344.6 SS 2266.0
RD-15.7098 RRA-8.8896 RC3 -.2558 FAU-.10533 RRT .8875 RRF -.9999 RTF -.8846 CRT .9802 CRS 1.0000 CST .9791
FDE 3.5495 FRA 2.0709 FC3 .0598 BSP 11429 SGB 3606.0 R23 -.0638 R13 -.9978 LSA 3404.5 MSA 192.0 SSA 1.5
BDE17.1166 BRA 8.8993 BC3 .2787 FSP -221 SG1 3560.0 SG2 574.2 THA 70.19 EL1 2541.6 EL2 182.4 ALF 67.23

LAUNCH DATE SEP 29 1965 FLIGHT TIME 158.00 ARRIVAL DATE MAR 6 1966

HELIOCENTRIC CONIC DISTANCE 423.701

RL 149.85 LAL .00 LOL 5.65 VL 27.287 GAL 3.18 AZL 136.15 HCA 184.36 SMA 129.26 ECC .16842 INC46.1489 V1 29.735
RP 107.81 LAP 3.14 LOP 188.67 VP 37.884 GAP -1.68 AZP 43.93 TAL 163.96 TAP 348.32 RCA 107.49 APO 151.03 V2 35.149
RC 66.268 GL -60.67 GP 71.01 ZAL 84.89 ZAP 87.45 ETS 197.88 ZAE 81.65 ETE 313.48 ZAC 94.68 ETC 95.21 CLP 82.15

PLANETOCENTRIC CONIC

C3 507.896 VHL 22.537 DLA -80.77 RAL 328.03 RAD 6572.4 VEL 25.084 PTH 3.34 VHP 29.456 DPA 84.03 RAP 298.80 ECC 9.3587

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
10.49	9 2 39	2419.17	2.40	83.94	237.63	170.77	9 42 59	1819.2	10.30	83.05
169.51	20 20 43	618.90	2.40	281.50	237.65	170.77	20 31 2	18.9	10.30	280.62
10.49	9 2 39	2419.17	2.40	83.94	237.63	170.77	9 42 59	1819.2	10.30	83.05
169.51	20 20 43	618.90	2.40	281.50	237.65	170.77	20 31 2	18.9	10.30	280.62
10.49	9 2 39	2419.17	2.40	83.94	237.63	170.77	9 42 59	1819.2	10.30	83.05
169.51	20 20 43	618.90	2.40	281.50	237.65	170.77	20 31 2	18.9	10.30	280.62

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE 4.1212 TRA-1.3489 TC3 -.1695 BAU 2.0566 SGT 2501.2 SGR 3680.4 SG3 79.7 ST 1228.8 SR 1137.4 SS 812.8
RDE-1.7907 RRA 2.1900 RC3 .2510 FAU-.03518 RRT -.9525 RRF .9967 RTF -.9735 CRT -.8201 CRS -.9770 CST .9233
FDE -.7368 FRA .5436 FC3 .0600 BSP 14017 SGB 4449.9 R23 -.0168 R13 .9997 LSA 1790.8 MSA 507.5 SSA 1.2
BDE 4.4935 BRA 2.5721 BC3 .3029 FSP -256 SG1 4404.1 SG2 636.4 THA 123.71 EL1 1597.9 EL2 500.5 ALF 137.70

LAUNCH DATE SEP 29 1965 FLIGHT TIME 160.00 ARRIVAL DATE MAR 8 1966

HELIOCENTRIC CONIC DISTANCE 429.458

RL 149.85 LAL .00 LOL 5.65 VL 27.303 GAL 3.28 AZL 116.17 HCA 186.96 SMA 129.37 ECC .16807 INC26.1707 V1 29.735
RP 107.85 LAP 3.06 LOP 191.90 VP 37.885 GAP -1.39 AZP 64.00 TAL 163.37 TAP 350.33 RCA 107.63 APO 151.12 V2 35.138
RC 68.394 GL -64.81 GP 83.79 ZAL 81.09 ZAP 86.33 ETS 242.17 ZAE 94.20 ETE 354.89 ZAC 81.62 ETC 135.45 CLP 53.72

PLANETOCENTRIC CONIC

C3 176.504 VHL 13.285 DLA -78.84 RAL 3.58 RAD 6570.9 VEL 17.258 PTH 2.95 VHP 17.571 DPA 70.57 RAP 287.83 ECC 3.9048

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
12.70	11 28 45	2288.51	10.92	81.61	271.38	168.64	12 6 53	1688.5	18.76	80.37
167.30	22 38 12	5781.88	10.93	259.22	271.40	168.64	24 14 34	5181.9	18.77	257.98
12.70	11 28 45	2288.51	10.92	81.61	271.38	168.64	12 6 53	1688.5	18.76	80.37
167.30	22 38 12	5781.88	10.93	259.22	271.40	168.64	24 14 34	5181.9	18.77	257.98
12.70	11 28 45	2288.51	10.92	81.61	271.38	168.64	12 6 53	1688.5	18.76	80.37
167.30	22 38 12	5781.88	10.93	259.22	271.40	168.64	24 14 34	5181.9	18.77	257.98

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE-3.5307 TRA-1.9255 TC3 -.1786 BAU .4559 SGT 4578.7 SGR 1345.8 SG3 111.5 ST 1994.2 SR 1018.2 SS 928.3
RDE 2.2765 RRA .4035 RC3 .0737 FAU-.00824 RRT -.8841 RRF .9074 RTF -.9982 CRT -.9074 CRS -.9384 CST .9967
FDE 1.1530 FRA .5321 FC3 .0404 BSP 14849 SGB 4772.4 R23 -.0192 R13 .9995 LSA 2392.8 MSA 386.9 SSA 1.5
BDE 4.2010 BRA 1.9673 BC3 .1532 FSP -354 SG1 4733.5 SG2 608.2 THA 165.18 EL1 2205.4 EL2 386.9 ALF 154.29

LAUNCH DATE SEP 29 1965 FLIGHT TIME 162.00 ARRIVAL DATE MAR 10 1966

HELIOCENTRIC CONIC DISTANCE 435.622

RL 149.85 LAL .00 LOL 5.65 VL 27.316 GAL 3.32 AZL 107.52 HCA 189.93 SMA 129.46 ECC .16755 INC17.5205 V1 29.735
RP 107.89 LAP 2.98 LOP 195.13 VP 37.884 GAP -1.00 AZP 72.73 TAL 163.10 TAP 353.03 RCA 107.77 APO 151.15 V2 35.126
RC 70.553 GL -62.55 GP 84.76 ZAL 77.03 ZAP 85.93 ETS 305.11 ZAE 101.69 ETE 55.73 ZAC 74.09 ETC 193.96 CLP -39.08

PLANETOCENTRIC CONIC

C3 85.588 VHL 9.251 DLA -74.75 RAL 1.23 RAD 6569.7 VEL 14.385 PTH 2.61 VHP 12.324 DPA 62.48 RAP 287.71 ECC 2.4086

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
17.39	11 28 46	2138.26	20.06	76.36	265.51	163.74	12 4 24	1538.3	27.72	74.25
162.61	22 19 29	5647.38	20.07	258.59	265.53	163.74	23 53 37	5047.4	27.73	256.49
17.39	11 28 46	2138.26	20.06	76.36	265.51	163.74	12 4 24	1538.3	27.72	74.25
162.61	22 19 29	5647.38	20.07	258.59	265.53	163.74	23 53 37	5047.4	27.73	256.49
17.39	11 28 46	2138.26	20.06	76.36	265.51	163.74	12 4 24	1538.3	27.72	74.25
162.61	22 19 29	5647.38	20.07	258.59	265.53	163.74	23 53 37	5047.4	27.73	256.49

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE-2.3239 TRA-1.1563 TC3 -.0429 BAU .1013 SGT 3080.4 SGR 3771.1 SG3 161.0 ST 1654.8 SR 1470.8 SS 911.9
RDE-1.5926 RRA-1.5448 RC3 .0774 FAU .00451 RRT .9736 RRF -.9940 RTF -.9912 CRT .9493 CRS .9832 CST .9907
FDE 1.0988 FRA .7361 FC3 -.0456 BSP 15294 SGB 4869.4 R23 .0112 R13 -.9992 LSA 2368.7 MSA 349.9 SSA 2.2
BDE 2.8172 BRA 1.9297 BC3 .0885 FSP -517 SG1 4838.4 SG2 548.4 THA 50.91 EL1 2186.2 EL2 349.9 ALF 41.45

LAUNCH DATE SEP 29 1965 FLIGHT TIME 164.00 ARRIVAL DATE MAR 12 1966

HELIOCENTRIC CONIC DISTANCE 441.900

RL 149.85 LAL .00 LOL 5.65 VL 27.326 GAL 3.35 AZL 102.88 HCA 193.02 SMA 129.53 ECC .16713 INC12.8843 V1 29.735
RP 107.92 LAP 2.88 LOP 198.35 VP 37.880 GAP -.58 AZP 77.44 TAL 162.90 TAP 355.92 RCA 107.88 APO 151.18 V2 35.114
RC 72.741 GL -58.21 GP 79.78 ZAL 73.02 ZAP 86.37 ETS 330.28 ZAE 107.14 ETE 79.24 ZAC 68.54 ETC 214.73 CLP -69.06

PLANETOCENTRIC CONIC

C3 51.217 VHL 7.157 DLA -70.38 RAL 353.88 RAD 6568.9 VEL 13.137 PTH 2.40 VHP 9.546 DPA 56.47 RAP 287.77 ECC 1.8429

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
22.42	11 9 54	2004.35	27.32	69.40	253.26	157.80	11 43 19	1404.3	34.68	66.15
157.58	21 39 43	5536.54	27.33	256.78	253.28	157.80	23 11 59	4936.5	34.69	253.54
22.42	11 9 54	2004.35	27.32	69.40	253.26	157.80	11 43 19	1404.3	34.68	66.15
157.58	21 39 43	5536.54	27.33	256.78	253.28	157.80	23 11 59	4936.5	34.69	253.54
22.42	11 9 54	2004.35	27.32	69.40	253.26	157.80	11 43 19	1404.3	34.68	66.15
157.58	21 39 43	5536.54	27.33	256.78	253.28	157.80	23 11 59	4936.5	34.69	253.54

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE-1.0149 TRA -.4207 TC3 -.0525 BAU .2483 SGT 1293.1 SGR 4747.5 SG3 226.1 ST 866.4 SR 1716.7 SS 853.0
RDE-1.2709 RRA-1.9326 RC3 .3587 FAU .01463 RRT .8814 RRF -.9978 RTF -.9025 CRT .8355 CRS .9918 CST .8987
FDE .8921 FRA 1.0455 FC3 -.2473 BSP 15366 SGB 4920.5 R23 .0192 R13 -.9988 LSA 2057.8 MSA 436.8 SSA 2.9
BDE 1.6264 BRA 1.9779 BC3 .3626 FSP -724 SG1 4884.5 SG2 593.6 THA 76.29 EL1 1872.8 EL2 436.4 ALF 65.73

LAUNCH DATE SEP 29 1965 FLIGHT TIME 166.00 ARRIVAL DATE MAR 14 1966

HELIOCENTRIC CONIC DISTANCE 448.214

RL	149.85	LAL	.00	LOL	5.65	VL	27.334	GAL	3.38	AZL	100.02	HCA	196.16	SMA	129.58	ECC	.16688	INCI	0.0154
RP	107.96	LAP	2.77	LOP	201.57	VP	37.873	GAP	-.16	AZP	80.37	TAL	162.70	TAP	358.86	RCA	107.96	APO	151.21
RC	74.954	GL	-53.19	GP	75.06	ZAL	69.19	ZAP	87.59	ETS	342.84	ZAE	111.48	ETE	90.63	ZAC	63.85	ETC	223.06
VI	29.735																		
V2	35.101																		
CLP	-80.60																		

PLANETOCENTRIC CONIC

C3	35.132	VHL	5.927	DLA	-65.74	RAL	347.35	RAD	6568.4	VEL	12.510	PTH	2.27	VHP	7.870	DPA	51.42	RAP	287.53
ECC	1.5782																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
27.83	10 55 46	1893.11	32.07	61.09	240.94	150.99	11 27 19	1293.1	38.97	56.53
152.17	21 1 44	5458.08	32.07	254.30	240.95	150.99	22 32 42	4858.1	38.97	249.74
27.83	10 55 46	1893.11	32.07	61.09	240.94	150.99	11 27 19	1293.1	38.97	56.53
152.17	21 1 44	5458.08	32.07	254.30	240.95	150.99	22 32 42	4858.1	38.97	249.74
27.83	10 55 46	1893.11	32.07	61.09	240.94	150.99	11 27 19	1293.1	38.97	56.53
152.17	21 1 44	5458.08	32.07	254.30	240.95	150.99	22 32 42	4858.1	38.97	249.74

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TOE	-.5786	TRA	-.0179	TC3	-.1788	BAU	.3385	SGT	599.6	SGR	4893.3	SG3	302.0	ST	559.5	SR	1613.5	SS	832.9
ROE	-.7740	RRA	-2.0254	RC3	.6981	FAU	.02448	RRT	.1511	RRF	-.9981	RTF	-.1818	CRT	.4834	CRS	.9920	CST	.5900
FOE	.7246	FRA	1.4236	FC3	-.6033	BSP	15460	SGB	4929.9	R23	.0290	R13	-.9982	LSA	1837.0	MSA	485.3	SSA	3.7
BOE	.9664	BRA	2.0255	BC3	.7206	FSP	-975	SG1	4894.2	SG2	592.6	THA	88.92	EL1	1638.2	EL2	482.4	ALF	79.57

LAUNCH DATE SEP 29 1965 FLIGHT TIME 168.00 ARRIVAL DATE MAR 16 1966

HELIOCENTRIC CONIC DISTANCE 454.535

RL	149.85	LAL	.00	LOL	5.65	VL	27.338	GAL	3.42	AZL	98.06	HCA	199.32	SMA	129.62	ECC	.16684	INC	8.0636
RP	108.00	LAP	2.66	LOP	204.79	VP	37.865	GAP	.26	AZP	82.39	TAL	162.49	TAP	1.81	RCA	107.99	APO	151.24
RC	77.191	GL	-48.03	GP	70.74	ZAL	65.64	ZAP	89.52	ETS	351.52	ZAE	115.08	ETE	98.72	ZAC	59.56	ETC	227.74
VI	29.735																		
V2	35.089																		
CLP	-88.54																		

PLANETOCENTRIC CONIC

C3	26.512	VHL	5.149	DLA	-60.97	RAL	342.29	RAD	6568.1	VEL	12.161	PTH	2.18	VHP	6.774	DPA	46.90	RAP	286.99
ECC	1.4363																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
33.45	10 48 56	1800.46	34.53	52.08	229.83	143.91	11 18 57	1200.5	40.85	46.27
146.55	20 28 14	5409.54	34.54	251.79	229.84	143.90	21 58 23	4809.5	40.85	245.99
33.45	10 48 56	1800.46	34.53	52.08	229.83	143.91	11 18 57	1200.5	40.85	46.27
146.55	20 28 14	5409.54	34.54	251.79	229.84	143.90	21 58 23	4809.5	40.85	245.99
33.45	10 48 56	1800.46	34.53	52.08	229.83	143.91	11 18 57	1200.5	40.85	46.27
146.55	20 28 14	5409.54	34.54	251.79	229.84	143.90	21 58 23	4809.5	40.85	245.99

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TOE	-.3932	TRA	.2872	TC3	-.3961	BAU	.3911	SGT	889.6	SGR	4846.3	SG3	384.8	ST	480.2	SR	1511.6	SS	851.9
ROE	-.4907	RRA	-2.0486	RC3	1.0301	FAU	.03419	RRT	-.7624	RRF	-.9981	RTF	.7461	CRT	-.0549	CRS	.9908	CST	.0805
FOE	.6331	FRA	1.8511	FC3	-1.1164	BSP	15464	SGB	4927.3	R23	.0395	R13	-.9975	LSA	1732.2	MSA	490.5	SSA	4.5
BOE	.6288	BRA	2.0686	BC3	1.1036	FSP	-1248	SG1	4894.2	SG2	570.0	THA	98.08	EL1	1511.8	EL2	479.4	ALF	91.11

LAUNCH DATE SEP 29 1965 FLIGHT TIME 170.00 ARRIVAL DATE MAR 18 1966

HELIOCENTRIC CONIC DISTANCE 460.850

RL	149.85	LAL	.00	LOL	5.65	VL	27.341	GAL	3.47	AZL	96.65	HCA	202.50	SMA	129.64	ECC	.16699	INC	6.6450
RP	108.04	LAP	2.54	LOP	208.01	VP	37.855	GAP	.68	AZP	83.86	TAL	162.24	TAP	4.74	RCA	107.99	APO	151.28
RC	79.446	GL	-42.97	GP	66.69	ZAL	62.38	ZAP	92.06	ETS	358.42	ZAE	118.11	ETE	105.64	ZAC	55.50	ETC	230.93
VI	29.735																		
V2	35.076																		
CLP	-95.22																		

PLANETOCENTRIC CONIC

C3	21.465	VHL	4.633	DLA	-56.24	RAL	338.48	RAD	6567.9	VEL	11.952	PTH	2.13	VHP	6.019	DPA	42.70	RAP	286.23
ECC	1.3533																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
39.14	10 48 31	1720.40	35.23	42.99	220.30	137.13	11 17 12	1120.4	40.89	36.21
140.86	19 58 14	5386.26	35.24	249.89	220.32	137.12	21 28 0	4786.3	40.90	243.11
39.14	10 48 31	1720.40	35.23	42.99	220.30	137.13	11 17 12	1120.4	40.89	36.21
140.86	19 58 14	5386.26	35.24	249.89	220.32	137.12	21 28 0	4786.3	40.90	243.11
39.14	10 48 31	1720.40	35.23	42.99	220.30	137.13	11 17 12	1120.4	40.89	36.21
140.86	19 58 14	5386.26	35.24	249.89	220.32	137.12	21 28 0	4786.3	40.90	243.11

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TOE	-.2872	TRA	.5576	TC3	-.6878	BAU	.4259	SGT	1439.4	SGR	4704.3	SG3	469.6	ST	514.9	SR	1424.9	SS	893.2
ROE	-.3505	RRA	-2.0325	RC3	1.3152	FAU	.04354	RRT	-.9208	RRF	-.9979	RTF	.9115	CRT	-.4796	CRS	.9887	CST	-.3429
FOE	.6158	FRA	2.3049	FC3	-1.7561	BSP	15435	SGB	4919.6	R23	.0501	R13	-.9968	LSA	1694.5	MSA	471.1	SSA	5.3
BOE	.4531	BRA	2.1076	BC3	1.4842	FSP	-1531	SG1	4889.9	SG2	540.3	THA	105.93	EL1	1448.4	EL2	444.4	ALF	100.87

LAUNCH DATE SEP 29 1965 FLIGHT TIME 172.00 ARRIVAL DATE MAR 20 1966

HELIOCENTRIC CONIC DISTANCE 467.152

RL	149.85	LAL	.00	LOL	5.65	VL	27.341	GAL	3.53	AZL	95.56	HCA	205.68	SMA	129.64	ECC	.16735	INC	5.5627
RP	108.08	LAP	2.41	LOP	211.22	VP	37.843	GAP	1.09	AZP	84.98	TAL	161.96	TAP	7.64	RCA	107.94	APO	151.33
RC	81.719	GL	-38.15	GP	62.81	ZAL	59.45	ZAP	95.11	ETS	4.21	ZAE	120.62	ETE	112.05	ZAC	51.57	ETC	233.27
VI	29.735																		
V2	35.063																		
CLP	-101.23																		

PLANETOCENTRIC CONIC

C3	18.337	VHL	4.282	DLA	-51.67	RAL	335.60	RAD	6567.7	VEL	11.820	PTH	2.09	VHP	5.485	DPA	38.69	RAP	285.35
ECC	1.3018																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
44.79	10 53 24	1647.50	34.67	34.21	212.44	131.05	11 20 52	1047.5	39.68	26.79
135.21	19 30 23	5384.32	34.68	249.01	212.45	131.04	21 0 7	4784.3	39.69	241.59
44.79	10 53 24	1647.50	34.67	34.21	212.44	131.05	11 20 52	1047.5	39.68	26.79
135.21	19 30 23	5384.32	34.68	249.01	212.45	131.04	21 0 7	4784.3	39.69	241.59
44.79	10 53 24	1647.50	34.67	34.21	212.44	131.05	11 20 52	1047.5	39.68	26.79
135.21	19 30 23	5384.32	34.68	249.01	212.45	131.04	21 0 7	4784.3	39.69	241.59

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TOE	-.2051	TRA	.8109	TC3	-1.0320	BAU	.4522	SGT	1979.0	SGR	4498.3	SG3	551.2	ST	592.8	SR	1342.9	SS	945.3
ROE	-.2880	RRA	-1.9869	RC3	1.5286	FAU	.05223	RRT	-.9604	RRF	-.9976	RTF	.9536	CRT	-.7162	CRS	.9858	CST	-.5890
FOE	.6614	FRA	2.7605	FC3	-2.4656	BSP	15418	SGB	4914.3	R23	.0602	R13	-.9959	LSA	1688.9	MSA	442.7	SSA	6.1
BOE	.3535	BRA	2.1460	BC3	1.8444	FSP	-1809	SG1	4888.0	SG2	507.7	THA	113.17	EL1	1414.4	EL2	392.8	ALF	109.07

LAUNCH DATE SEP 29 1965 FLIGHT TIME 174.00 ARRIVAL DATE MAR 22 1966

DISTANCE 473.437

HELIOCENTRIC CONIC
RL 149.85 LAL .00 LOL 5.65 VL 27.340 GAL 3.60 AZL 94.71 HCA 208.87 SMA 129.63 ECC .16791 INC 4.7056 V1 29.735
RP 108.12 LAP 2.27 LOP 214.43 VP 37.830 GAP 1.51 AZP 85.88 TAL 161.64 TAP 10.51 RCA 107.86 APO 151.39 V2 35.050
RC 84.008 GL -33.63 GP 59.04 ZAL 56.83 ZAP 98.54 ETS 9.14 ZAE 122.66 ETE 118.17 ZAC 47.75 ETC 234.98 CLP-106.78

PLANETOCENTRIC CONIC
C3 16.336 VHL 4.042 DLA -47.32 RAL 333.42 RAD 6567.7 VEL 11.735 PTH 2.07 VHP 5.104 DPA 34.83 RAP 284.42 ECC 1.2688

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
50.35	11 2 56	1577.10	33.29	25.81	206.14	125.81	11 29 13	977.1	37.71	18.03
129.65	19 3 25	5401.26	33.30	249.40	206.15	125.80	20 33 26	4801.3	37.72	241.61
50.35	11 2 56	1577.10	33.29	25.81	206.14	125.81	11 29 13	977.1	37.71	18.03
129.65	19 3 25	5401.26	33.30	249.40	206.15	125.80	20 33 26	4801.3	37.72	241.61
50.35	11 2 56	1577.10	33.29	25.81	206.14	125.81	11 29 13	977.1	37.71	18.03
129.65	19 3 25	5401.26	33.30	249.40	206.15	125.80	20 33 26	4801.3	37.72	241.61

DIFFERENTIAL CORRECTIONS
TDE -.1264 TRA 1.0520 TC3-1.4034 BAU .4743
RDE -.2652 RRA-1.9189 RC3 1.6574 FAU .05982
FDE .7572 FRA 3.1948 FC3-3.1703 BSP 15421
BDE .2938 BRA 2.1884 BC3 2.1717 FSP -2065

MID-COURSE EXECUTION ACCURACY
SGT 2481.7 SGR 4247.4 SG3 625.2
RRT -.9753 RRF -.9972 RTF .9697
SGB 4919.3 R23 .0691 R13 -.9949
SG1 4896.3 SG2 475.1 THA 119.99

ORBIT DETERMINATION ACCURACY
ST 684.7 SR 1261.9 SS 1003.3
CRT -.8432 CRS .9822 CST -.7274
LSA 1702.1 MSA 413.1 SSA 7.0
EL1 1396.6 EL2 332.6 ALF 116.18

LAUNCH DATE SEP 29 1965 FLIGHT TIME 176.00 ARRIVAL DATE MAR 24 1966

DISTANCE 479.705

HELIOCENTRIC CONIC
RL 149.85 LAL .00 LOL 5.65 VL 27.336 GAL 3.69 AZL 94.01 HCA 212.06 SMA 129.60 ECC .16867 INC 4.0063 V1 29.735
RP 108.16 LAP 2.13 LOP 217.64 VP 37.815 GAP 1.91 AZP 86.60 TAL 161.28 TAP 13.34 RCA 107.74 APO 151.46 V2 35.036
RC 86.309 GL -29.43 GP 55.38 ZAL 54.50 ZAP 102.25 ETS 13.34 ZAE 124.24 ETE 124.02 ZAC 44.04 ETC 236.13 CLP-111.94

PLANETOCENTRIC CONIC
C3 15.043 VHL 3.879 DLA -43.24 RAL 331.75 RAD 6567.6 VEL 11.680 PTH 2.05 VHP 4.836 DPA 31.09 RAP 283.52 ECC 1.2476

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
55.84	11 16 53	1505.04	31.43	17.69	201.21	121.38	11 41 58	905.0	35.33	9.73
124.16	18 36 10	5436.05	31.44	251.15	201.22	121.37	20 6 46	4836.0	35.34	243.19
55.84	11 16 53	1505.04	31.43	17.69	201.21	121.38	11 41 58	905.0	35.33	9.73
124.16	18 36 10	5436.05	31.44	251.15	201.22	121.37	20 6 46	4836.0	35.34	243.19
55.84	11 16 53	1505.04	31.43	17.69	201.21	121.38	11 41 58	905.0	35.33	9.73
124.16	18 36 10	5436.05	31.44	251.15	201.22	121.37	20 6 46	4836.0	35.34	243.19

DIFFERENTIAL CORRECTIONS
TDE -.0428 TRA 1.2837 TC3-1.7738 BAU .4940
RDE -.2606 RRA-1.8365 RC3 1.6988 FAU .06585
FDE .8893 FRA 3.5907 FC3-3.7897 BSP 15428
BDE .2641 BRA 2.2407 BC3 2.4561 FSP -2279

MID-COURSE EXECUTION ACCURACY
SGT 2945.3 SGR 3969.4 SG3 687.9
RRT -.9824 RRF -.9967 RTF .9773
SGB 4942.7 R23 .0758 R13 -.9939
SG1 4922.8 SG2 444.0 THA 126.43

ORBIT DETERMINATION ACCURACY
ST 784.7 SR 1182.4 SS 1065.6
CRT -.9161 CRS .9781 CST -.8128
LSA 1732.4 MSA 384.7 SSA 7.9
EL1 1393.8 EL2 267.0 ALF 122.64

LAUNCH DATE SEP 29 1965 FLIGHT TIME 178.00 ARRIVAL DATE MAR 26 1966

DISTANCE 485.952

HELIOCENTRIC CONIC
RL 149.85 LAL .00 LOL 5.65 VL 27.330 GAL 3.79 AZL 93.42 HCA 215.25 SMA 129.56 ECC .16963 INC 3.4217 V1 29.735
RP 108.20 LAP 1.97 LOP 220.84 VP 37.799 GAP 2.32 AZP 87.20 TAL 160.88 TAP 16.13 RCA 107.59 APO 151.54 V2 35.023
RC 88.623 GL -25.57 GP 51.83 ZAL 52.44 ZAP 106.13 ETS 16.90 ZAE 125.38 ETE 129.59 ZAC 40.47 ETC 236.73 CLP-116.72

PLANETOCENTRIC CONIC
C3 14.226 VHL 3.772 DLA -39.45 RAL 330.48 RAD 6567.6 VEL 11.645 PTH 2.04 VHP 4.652 DPA 27.49 RAP 282.70 ECC 1.2341

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
61.31	11 35 36	1426.83	29.32	9.54	197.43	117.67	11 59 23	826.8	32.77	1.53
118.69	18 7 20	5489.40	29.33	254.37	197.43	117.66	19 38 50	4889.4	32.78	246.36
61.31	11 35 36	1426.83	29.32	9.54	197.43	117.67	11 59 23	826.8	32.77	1.53
118.69	18 7 20	5489.40	29.33	254.37	197.43	117.66	19 38 50	4889.4	32.78	246.36
61.31	11 35 36	1426.83	29.32	9.54	197.43	117.67	11 59 23	826.8	32.77	1.53
118.69	18 7 20	5489.40	29.33	254.37	197.43	117.66	19 38 50	4889.4	32.78	246.36

DIFFERENTIAL CORRECTIONS
TDE .0472 TRA 1.5055 TC3-2.1233 BAU .5142
RDE -.2596 RRA-1.7416 RC3 1.6741 FAU .07042
FDE 1.0372 FRA 3.9247 FC3-4.2858 BSP 15537
BDE .2639 BRA 2.3022 BC3 2.7039 FSP -2456

MID-COURSE EXECUTION ACCURACY
SGT 3367.7 SGR 3672.6 SG3 735.9
RRT -.9862 RRF -.9960 RTF .9816
SGB 4983.0 R23 .0793 R13 -.9928
SG1 4965.9 SG2 412.5 THA 132.49

ORBIT DETERMINATION ACCURACY
ST 892.7 SR 1101.5 SS 1126.6
CRT -.9593 CRS .9735 CST -.8695
LSA 1775.1 MSA 358.1 SSA 8.9
EL1 1404.0 EL2 197.7 ALF 128.78

LAUNCH DATE SEP 29 1965 FLIGHT TIME 180.00 ARRIVAL DATE MAR 28 1966

DISTANCE 492.177

HELIOCENTRIC CONIC
RL 149.85 LAL .00 LOL 5.65 VL 27.323 GAL 3.90 AZL 92.92 HCA 218.44 SMA 129.51 ECC .17078 INC 2.9229 V1 29.735
RP 108.24 LAP 1.82 LOP 224.05 VP 37.781 GAP 2.72 AZP 87.71 TAL 160.44 TAP 18.88 RCA 107.40 APO 151.63 V2 35.010
RC 90.946 GL -22.02 GP 48.41 ZAL 50.62 ZAP 110.08 ETS 19.89 ZAE 126.13 ETE 134.82 ZAC 37.10 ETC 236.75 CLP-121.15

PLANETOCENTRIC CONIC
C3 13.744 VHL 3.707 DLA -35.93 RAL 329.53 RAD 6567.5 VEL 11.625 PTH 2.04 VHP 4.536 DPA 24.04 RAP 282.02 ECC 1.2262

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
66.90	12 0 13	1336.38	27.10	.91	194.59	114.55	12 22 29	736.4	30.17	352.91
113.10	17 35 6	5564.72	27.11	259.30	194.59	114.53	19 7 51	4964.7	30.18	251.29
66.90	12 0 13	1336.38	27.10	.91	194.59	114.55	12 22 29	736.4	30.17	352.91
113.10	17 35 6	5564.72	27.11	259.30	194.59	114.53	19 7 51	4964.7	30.18	251.29
66.90	12 0 13	1336.38	27.10	.91	194.59	114.55	12 22 29	736.4	30.17	352.91
113.10	17 35 6	5564.72	27.11	259.30	194.59	114.53	19 7 51	4964.7	30.18	251.29

DIFFERENTIAL CORRECTIONS
TDE .1437 TRA 1.7181 TC3-2.4361 BAU .5351
RDE -.2572 RRA-1.6410 RC3 1.5957 FAU .07333
FDE 1.1887 FRA 4.1894 FC3-4.6189 BSP 15724
BDE .2946 BRA 2.3759 BC3 2.9122 FSP -2585

MID-COURSE EXECUTION ACCURACY
SGT 3750.1 SGR 3371.5 SG3 768.1
RRT -.9882 RRF -.9950 RTF .9842
SGB 5042.9 R23 .0790 R13 -.9919
SG1 5028.2 SG2 384.4 THA 138.08

ORBIT DETERMINATION ACCURACY
ST 1009.9 SR 1020.8 SS 1184.9
CRT -.9840 CRS .9681 CST -.9083
LSA 1831.3 MSA 334.7 SSA 9.8
EL1 1430.2 EL2 128.4 ALF 134.69

LAUNCH DATE SEP 29 1965 FLIGHT TIME 182.00 ARRIVAL DATE MAR 30 1966

HELIOCENTRIC CONIC DISTANCE 498.380

RL 149.85 LAL .00 LOL 5.65 VL 27.315 GAL 4.03 AZL 92.49 HCA 221.63 SMA 129.45 ECC .17214 INC 2.4898 V1 29.735
RP 108.29 LAP 1.65 LOP 227.24 VP 37.763 GAP 3.12 AZP 88.14 TAL 159.96 TAP 21.58 RCA 107.17 APO 151.74 V2 34.996
RC 93.279 GL -18.78 GP 45.15 ZAL 48.99 ZAP 114.03 ETS 22.39 ZAE 126.52 ETE 139.64 ZAC 33.94 ETC 236.14 CLP-125.26

PLANETOCENTRIC CONIC

C3 13.514 VHL 3.676 DLA -32.68 RAL 328.82 RAD 6567.5 VEL 11.615 PTH 2.04 VHP 4.475 DPA 20.75 RAP 281.49 ECC 1.2224

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
72.96	12 33 41	1222.20	24.87	350.92	192.52	111.91	12 54 3	622.2	27.62	342.96
107.04	16 56 0	5671.53	24.89	266.58	192.52	111.89	18 30 31	5071.5	27.63	258.62
72.96	12 33 41	1222.20	24.87	350.92	192.52	111.91	12 54 3	622.2	27.62	342.96
107.04	16 56 0	5671.53	24.89	266.58	192.52	111.89	18 30 31	5071.5	27.63	258.62
110.00	15 57 55	5850.70	18.87	277.31	189.43	119.05	17 35 25	5250.7	22.59	270.15
110.00	18 30 56	5379.06	31.21	246.37	194.89	104.72	20 0 35	4779.1	32.91	237.56

DIFFERENTIAL CORRECTIONS
TDE .2462 TRA 1.9232 TC3-2.7010 BAU .5565
RDE -.2512 RRA-1.5399 RC3 1.4803 FAU .07459
FDE 1.3339 FRA 4.3840 FC3-4.7781 BSP 15980
BDE .3518 BRA 2.4637 BC3 3.0801 FSP -2664

MID-COURSE EXECUTION ACCURACY
SGT 4095.4 SGR 3077.1 SG3 785.1
RRT -.9892 RRF -.9937 RTF .9858
SGB 5122.6 R23 .0748 R13 -.9911
SG1 5109.9 SG2 361.5 THA 143.16

ORBIT DETERMINATION ACCURACY
ST 1136.7 SR 941.4 SS 1238.7
CRT -.9963 CRS .9618 CST -.9352
LSA 1900.9 MSA 315.0 SSA 10.7
EL1 1474.6 EL2 62.4 ALF 140.39

LAUNCH DATE SEP 29 1965 FLIGHT TIME 184.00 ARRIVAL DATE APR 1 1966

HELIOCENTRIC CONIC DISTANCE 504.560

RL 149.85 LAL .00 LOL 5.65 VL 27.305 GAL 4.17 AZL 92.11 HCA 224.81 SMA 129.39 ECC .17370 INC 2.1082 V1 29.735
RP 108.33 LAP 1.49 LOP 230.44 VP 37.743 GAP 3.52 AZP 88.50 TAL 159.44 TAP 24.25 RCA 106.91 APO 151.86 V2 34.983
RC 95.621 GL -15.83 GP 42.06 ZAL 47.54 ZAP 117.89 ETS 24.47 ZAE 126.61 ETE 144.02 ZAC 31.06 ETC 234.87 CLP-129.05

PLANETOCENTRIC CONIC

C3 13.480 VHL 3.672 DLA -29.69 RAL 328.32 RAD 6567.5 VEL 11.613 PTH 2.03 VHP 4.459 DPA 17.65 RAP 281.14 ECC 1.2218

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
80.69	13 26 43	1047.99	22.71	336.91	191.07	109.65	13 44 11	448.0	25.18	329.00
99.31	15 58 57	5844.64	22.72	278.71	191.08	109.64	17 36 22	5244.6	25.19	270.80
100.00	15 34 44	634.02	20.57	305.67	190.19	112.18	15 45 18	34.0	23.40	298.02
100.00	16 33 37	5733.84	24.89	271.28	191.87	107.10	18 9 11	5133.8	27.00	263.11
110.00	15 1 5	740.18	12.71	309.47	186.00	122.00	15 13 25	140.2	16.85	302.81
110.00	19 23 45	5200.45	33.52	232.97	193.99	97.12	20 50 26	4600.5	34.14	223.78

DIFFERENTIAL CORRECTIONS
TDE .3542 TRA 2.1221 TC3-2.9125 BAU .5780
RDE -.2412 RRA-1.4416 RC3 1.3429 FAU .07429
FDE 1.4655 FRA 4.5109 FC3-4.7711 BSP 16289
BDE .4285 BRA 2.5655 BC3 3.2072 FSP -2694

MID-COURSE EXECUTION ACCURACY
SGT 4405.8 SGR 2796.4 SG3 787.9
RRT -.9893 RRF -.9920 RTF .9868
SGB 5218.3 R23 .0673 R13 -.9904
SG1 5206.9 SG2 345.3 THA 147.72

ORBIT DETERMINATION ACCURACY
ST 1271.8 SR 863.7 SS 1286.4
CRT -.9999 CRS .9543 CST -.9539
LSA 1982.1 MSA 299.1 SSA 11.6
EL1 1537.3 EL2 11.6 ALF 145.82

LAUNCH DATE SEP 29 1965 FLIGHT TIME 186.00 ARRIVAL DATE APR 3 1966

HELIOCENTRIC CONIC DISTANCE 510.716

RL 149.85 LAL .00 LOL 5.65 VL 27.293 GAL 4.32 AZL 91.77 HCA 228.00 SMA 129.31 ECC .17546 INC 1.7673 V1 29.735
RP 108.37 LAP 1.31 LOP 233.63 VP 37.723 GAP 3.92 AZP 88.82 TAL 158.88 TAP 26.88 RCA 106.62 APO 151.99 V2 34.970
RC 97.969 GL -13.15 GP 39.17 ZAL 46.22 ZAP 121.62 ETS 26.22 ZAE 126.45 ETE 147.93 ZAC 28.49 ETC 232.89 CLP-132.56

PLANETOCENTRIC CONIC

C3 13.608 VHL 3.689 DLA -26.93 RAL 327.98 RAD 6567.5 VEL 11.619 PTH 2.04 VHP 4.481 DPA 14.76 RAP 280.98 ECC 1.2240

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	13 23 55	1058.01	15.31	334.51	188.00	114.12	13 41 33	458.0	18.44	327.23
90.00	15 59 5	5838.74	26.16	279.33	191.70	101.24	17 36 24	5238.7	27.45	270.90
100.00	14 11 35	904.02	12.82	321.97	186.77	117.24	14 26 39	304.0	16.37	314.97
100.00	17 54 6	5467.97	28.88	252.56	192.22	98.06	19 25 14	4868.0	29.70	243.85
110.00	14 25 14	861.15	8.26	316.02	184.07	123.29	14 39 35	261.1	12.58	309.59
110.00	19 56 56	5083.60	34.14	223.91	192.75	91.79	21 21 39	4483.6	34.01	214.67

DIFFERENTIAL CORRECTIONS
TDE .4684 TRA 2.3185 TC3-3.0653 BAU .5984
RDE -.2282 RRA-1.3499 RC3 1.1935 FAU .07249
FDE 1.5823 FRA 4.5826 FC3-4.6115 BSP .16589
BDE .5210 BRA 2.6829 BC3 3.2894 FSP -2671

MID-COURSE EXECUTION ACCURACY
SGT 4686.1 SGR 2536.0 SG3 779.3
RRT -.9886 RRF -.9899 RTF .9873
SGB 5328.3 R23 .0580 R13 -.9899
SG1 5317.6 SG2 336.8 THA 151.73

ORBIT DETERMINATION ACCURACY
ST 1415.0 SR 790.0 SS 1329.1
CRT -.9971 CRS .9452 CST -.9669
LSA 2076.1 MSA 286.8 SSA 12.3
EL1 1619.7 EL2 52.8 ALF 150.86

LAUNCH DATE SEP 29 1965 FLIGHT TIME 188.00 ARRIVAL DATE APR 5 1966

HELIOCENTRIC CONIC DISTANCE 516.847

RL 149.85 LAL .00 LOL 5.65 VL 27.281 GAL 4.50 AZL 91.46 HCA 231.18 SMA 129.22 ECC .17743 INC 1.4592 V1 29.735
RP 108.41 LAP 1.14 LOP 236.82 VP 37.702 GAP 4.32 AZP 89.09 TAL 158.28 TAP 29.47 RCA 106.29 APO 152.15 V2 34.957
RC 100.323 GL -10.72 GP 36.49 ZAL 45.03 ZAP 125.20 ETS 27.68 ZAE 126.11 ETE 151.39 ZAC 26.26 ETC 230.17 CLP-135.80

PLANETOCENTRIC CONIC

C3 13.876 VHL 3.725 DLA -24.40 RAL 327.79 RAD 6567.5 VEL 11.630 PTH 2.04 VHP 4.534 DPA 12.08 RAP 281.02 ECC 1.2284

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 30 29	1240.86	9.95	345.26	186.13	116.65	12 51 9	640.9	13.45	338.33
90.00	16 50 58	5664.41	27.87	266.86	191.51	95.23	18 25 22	5064.4	28.30	258.23
100.00	13 30 56	1045.72	8.28	330.03	185.24	118.83	13 48 21	445.7	12.06	323.29
100.00	18 33 12	5334.79	29.76	242.77	191.67	92.98	20 2 7	4734.8	29.85	233.96
110.00	13 58 29	959.29	4.56	321.21	182.96	123.91	14 14 28	359.3	8.98	314.91
110.00	20 22 8	4993.98	34.11	216.91	191.70	87.65	21 45 22	4394.0	33.41	207.74

DIFFERENTIAL CORRECTIONS
TDE .5842 TRA 2.5094 TC3-3.1729 BAU .6201
RDE -.2099 RRA-1.2631 RC3 1.0516 FAU .06998
FDE 1.6715 FRA 4.5973 FC3-4.3663 BSP 16998
BDE .6207 BRA 2.8094 BC3 3.3427 FSP -2629

MID-COURSE EXECUTION ACCURACY
SGT 4935.5 SGR 2295.6 SG3 760.5
RRT -.9872 RRF -.9870 RTF .9877
SGB 5443.2 R23 .0472 R13 -.9894
SG1 5433.0 SG2 332.9 THA 155.24

ORBIT DETERMINATION ACCURACY
ST 1558.6 SR 717.2 SS 1359.6
CRT -.9890 CRS .9333 CST -.9759
LSA 2171.4 MSA 277.5 SSA 12.8
EL1 1712.9 EL2 96.5 ALF 155.45

LAUNCH DATE SEP 29 1965 FLIGHT TIME 190.00 ARRIVAL DATE APR 7 1966

HELIOCENTRIC CONIC DISTANCE 522.953

RL 149.85 LAL .00 LOL 5.65 VL 27.267 GAL 4.68 AZL 91.18 HCA 234.37 SMA 129.13 ECC .17961 INC 1.1777 V1 29.735
RP 108.44 LAP .96 LOP 240.01 VP 37.680 GAP 4.72 AZP 89.31 TAL 157.65 TAP 32.02 RCA 105.93 APO 152.32 V2 34.945
RC 102.682 GL -8.50 GP 34.02 ZAL 43.93 ZAP 128.59 ETS 28.93 ZAE 125.64 ETE 154.42 ZAC 24.41 ETC 226.71 CLP-138.81

PLANETOCENTRIC CONIC

C3 14.269 VHL 3.777 DLA -22.08 RAL 327.71 RAD 6567.6 VEL 11.647 PTH 2.04 VHP 4.615 DPA 9.61 RAP 281.24 ECC 1.2348

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 56 9	1367.08	6.02	352.45	185.24	117.72	12 18 56	767.1	9.69	345.69
90.00	17 24 41	5550.51	28.30	258.56	191.19	91.09	18 57 12	4950.5	28.15	249.90
100.00	13 1 44	1155.42	4.63	336.14	184.48	119.56	13 20 59	555.4	8.53	329.52
100.00	19 1 47	5237.40	29.88	235.53	191.19	89.18	20 29 5	4637.4	29.45	226.75
110.00	13 37 15	1044.09	1.33	325.64	182.42	124.16	13 54 39	444.1	5.80	319.41
110.00	20 42 46	4921.49	33.77	211.28	190.93	84.34	22 4 47	4321.5	32.62	202.23

DIFFERENTIAL CORRECTIONS
TDE .7033 TRA 2.6989 TC3-3.2333 BAU .6412
RDE -.1892 RRA-1.1842 RC3 .9172 FAU .06671
FDE 1.7404 FRA 4.5723 FC3-4.0475 BSP 17423
BDE .7283 BRA 2.9473 BC3 3.3609 FSP -2558

MID-COURSE EXECUTION ACCURACY
SGT 5159.3 SGR 2078.4 SG3 734.8
RRT -.9849 RRF -.9834 RTF .9879
SGB 5562.2 R23 .0368 R13 -.9890
SG1 5552.2 SG2 334.2 THA 158.28

ORBIT DETERMINATION ACCURACY
ST 1702.8 SR 648.8 SS 1382.3
CRT -.9760 CRS .9182 CST -.9822
LSA 2271.0 MSA 270.9 SSA 13.2
EL1 1817.4 EL2 132.3 ALF 159.49

LAUNCH DATE SEP 29 1965 FLIGHT TIME 192.00 ARRIVAL DATE APR 9 1966

HELIOCENTRIC CONIC DISTANCE 529.033

RL 149.85 LAL .00 LOL 5.65 VL 27.252 GAL 4.89 AZL 90.92 HCA 237.55 SMA 129.02 ECC .18201 INC .9180 V1 29.735
RP 108.48 LAP .77 LOP 243.19 VP 37.658 GAP 5.13 AZP 89.51 TAL 156.98 TAP 34.53 RCA 105.54 APO 152.51 V2 34.932
RC 105.043 GL -6.50 GP 31.75 ZAL 42.91 ZAP 131.78 ETS 30.02 ZAE 125.08 ETE 157.05 ZAC 22.94 ETC 222.57 CLP-141.59

PLANETOCENTRIC CONIC

C3 14.781 VHL 3.845 DLA -19.93 RAL 327.74 RAD 6567.6 VEL 11.669 PTH 2.05 VHP 4.720 DPA 7.36 RAP 281.65 ECC 1.2433

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 30 15	1469.64	2.75	358.21	184.94	118.19	11 54 45	869.6	6.50	351.54
90.00	17 50 47	5463.59	28.25	252.21	191.01	87.90	19 21 51	4863.6	27.66	243.59
100.00	12 38 53	1248.18	1.50	341.24	184.24	119.86	12 59 41	648.2	5.46	334.69
100.00	19 24 51	5160.28	29.67	229.81	190.93	86.17	20 50 51	4560.3	28.82	221.11
110.00	13 19 50	1119.83	-1.57	329.59	182.33	124.15	13 38 30	519.8	2.92	323.39
110.00	21 0 23	4861.39	33.27	206.66	190.48	81.65	22 21 24	4261.4	31.76	197.76

DIFFERENTIAL CORRECTIONS
TDE .8258 TRA 2.8889 TC3-3.2502 BAU .6611
RDE -.1670 RRA-1.1135 RC3 .7933 FAU .06287
FDE 1.7904 FRA 4.5181 FC3-3.6821 BSP 17845
BDE .8425 BRA 3.0961 BC3 3.3456 FSP -2465

MID-COURSE EXECUTION ACCURACY
SGT 5360.4 SGR 1884.1 SG3 704.2
RRT -.9817 RRF -.9790 RTF .9879
SGB 5681.9 R23 .0278 R13 -.9886
SG1 5671.7 SG2 339.2 THA 160.89

ORBIT DETERMINATION ACCURACY
ST 1846.0 SR 585.4 SS 1397.5
CRT -.9579 CRS .8990 CST -.9867
LSA 2373.3 MSA 266.2 SSA 13.5
EL1 1929.9 EL2 160.7 ALF 162.98

LAUNCH DATE SEP 29 1965 FLIGHT TIME 194.00 ARRIVAL DATE APR 11 1966

HELIOCENTRIC CONIC DISTANCE 535.085

RL 149.85 LAL .00 LOL 5.65 VL 27.236 GAL 5.11 AZL 90.68 HCA 240.73 SMA 128.92 ECC .18464 INC .6761 V1 29.735
RP 108.52 LAP .59 LOP 246.37 VP 37.635 GAP 5.53 AZP 89.67 TAL 156.28 TAP 37.01 RCA 105.11 APO 152.72 V2 34.920
RC 107.406 GL -4.68 GP 29.69 ZAL 41.95 ZAP 134.79 ETS 31.00 ZAE 124.47 ETE 159.31 ZAC 21.88 ETC 217.88 CLP-144.19

PLANETOCENTRIC CONIC

C3 15.408 VHL 3.925 DLA -17.96 RAL 327.85 RAD 6567.6 VEL 11.696 PTH 2.06 VHP 4.846 DPA 5.31 RAP 282.24 ECC 1.2536

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 9 30	1558.22	-.11	3.15	185.05	118.32	11 35 29	958.2	3.68	356.52
90.00	18 12 26	5393.60	27.97	247.11	191.05	85.36	19 42 19	4793.6	27.03	238.57
100.00	12 20 15	1329.97	-1.27	345.73	184.40	119.87	12 42 25	730.0	2.71	339.20
100.00	19 44 23	5097.09	29.29	225.15	190.90	83.75	21 9 20	4497.1	28.12	216.54
110.00	13 5 17	1188.87	-4.20	333.20	182.58	123.96	13 25 5	588.9	.28	326.99
110.00	21 15 50	4810.95	32.70	202.83	190.31	79.45	22 36 1	4210.9	30.90	194.07

DIFFERENTIAL CORRECTIONS
TDE .9539 TRA 3.0831 TC3-3.2233 BAU .6785
RDE -.1447 RRA-1.0514 RC3 .6797 FAU .05848
FDE 1.8283 FRA 4.4465 FC3-3.2857 BSP 18201
BDE .9648 BRA 3.2574 BC3 3.2942 FSP -2350

MID-COURSE EXECUTION ACCURACY
SGT 5542.9 SGR 1712.3 SG3 671.1
RRT -.9774 RRF -.9735 RTF .9877
SGB 5801.3 R23 .0206 R13 -.9882
SG1 5791.0 SG2 346.5 THA 163.14

ORBIT DETERMINATION ACCURACY
ST 1989.7 SR 528.3 SS 1408.5
CRT -.9344 CRS .8752 CST -.9900
LSA 2480.5 MSA 262.7 SSA 13.7
EL1 2050.5 EL2 182.6 ALF 165.95

LAUNCH DATE SEP 29 1965 FLIGHT TIME 196.00 ARRIVAL DATE APR 13 1966

HELIOCENTRIC CONIC DISTANCE 541.108

RL 149.85 LAL .00 LOL 5.65 VL 27.219 GAL 5.35 AZL 90.45 HCA 243.91 SMA 128.80 ECC .18751 INC .4490 V1 29.735
RP 108.56 LAP .40 LOP 249.55 VP 37.612 GAP 5.94 AZP 89.80 TAL 155.55 TAP 39.46 RCA 104.65 APO 152.95 V2 34.909
RC 109.770 GL -3.03 GP 27.81 ZAL 41.04 ZAP 137.60 ETS 31.90 ZAE 123.83 ETE 161.26 ZAC 21.22 ETC 212.81 CLP-146.60

PLANETOCENTRIC CONIC

C3 16.149 VHL 4.019 DLA -16.15 RAL 328.04 RAD 6567.6 VEL 11.727 PTH 2.07 VHP 4.991 DPA 3.45 RAP 282.98 ECC 1.2658

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 52 21	1637.29	-2.66	7.56	185.49	118.20	11 19 38	1037.3	1.13	.94
90.00	18 31 4	5335.83	27.58	242.92	191.30	83.30	20 0 0	4735.8	26.36	234.47
100.00	12 4 41	1403.91	-3.77	349.79	184.87	119.68	12 28 5	803.9	.20	343.26
100.00	20 1 26	5044.44	28.84	221.30	191.11	81.77	21 25 30	4444.4	27.40	212.79
110.00	12 52 56	1252.72	-6.62	336.56	183.11	123.61	13 13 49	652.7	-2.16	330.32
110.00	21 29 39	4768.38	32.13	199.65	190.42	77.64	22 49 8	4168.4	30.09	191.02

DIFFERENTIAL CORRECTIONS
TDE 1.0817 TRA 3.2770 TC3-3.1727 BAU .6965
RDE -.1205 RRA -.9954 RC3 .5831 FAU .05422
FDE 1.8456 FRA 4.3554 FC3-2.9068 BSP 18618
BDE 1.0884 BRA 3.4249 BC3 3.2259 FSP -2239

MID-COURSE EXECUTION ACCURACY
SGT 5704.5 SGR 1559.6 SG3 635.9
RRT -.9719 RRF -.9669 RTF .9875
SGB 5913.9 R23 .0144 R13 -.9878
SG1 5903.2 SG2 354.5 THA 165.06

ORBIT DETERMINATION ACCURACY
ST 2124.6 SR 475.6 SS 1409.8
CRT -.9034 CRS .8442 CST -.9924
LSA 2580.6 MSA 260.4 SSA 13.8
EL1 2168.0 EL2 199.8 ALF 168.47

LAUNCH DATE SEP 29 1965 FLIGHT TIME 198.00 ARRIVAL DATE APR 15 1966

HELIOCENTRIC CONIC DISTANCE 547.101

RL	149.85	LAL	.00	LOL	5.65	VL	27.202	GAL	5.60	AZL	90.23	HCA	247.09	SMA	128.68	ECC	.19063	INC	.2341	V1	29.735
RP	108.59	LAP	.22	LOP	252.73	VP	37.589	GAP	6.36	AZP	89.91	TAL	154.79	TAP	41.88	RCA	104.15	APO	153.21	V2	34.897
RC	112.133	GL	-1.54	GP	26.10	ZAL	40.18	ZAP	140.24	ETS	32.76	ZAE	123.20	ETE	162.94	ZAC	20.96	ETC	207.60	CLP	-148.87

PLANETOCENTRIC CONIC

C3	17.008	VHL	4.124	DLA	-14.47	RAL	328.29	RAD	6567.7	VEL	11.764	PTH	2.08	VHP	5.153	DPA	1.78	RAP	283.88	ECC	1.2799

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 37 53	1709.33	-4.97	11.60	186.20	117.91	11 6 22	1109.3	-1.20	4.95
90.00	18 47 32	5287.54	27.15	239.46	191.75	81.61	20 15 40	4687.5	25.71	231.08
100.00	11 51 29	1471.88	-6.05	353.55	185.60	119.33	12 16 1	871.9	-2.10	346.99
100.00	20 16 37	5000.22	28.37	218.10	191.53	80.15	21 39 58	4400.2	26.71	209.69
110.00	12 42 24	1312.40	-8.86	339.74	183.89	123.15	13 4 16	712.4	-4.43	333.44
110.00	21 42 12	4732.46	31.57	196.99	190.76	76.16	23 1 4	4132.5	29.35	188.49

DIFFERENTIAL CORRECTIONS

TDE	1.2121	TRA	3.4749	TC3	-3.0962	BAU	.7131												
RDE	-.0960	RRA	-.9462	RC3	.4991	FAU	.04994												
FDE	1.8506	FRA	4.2557	FC3	-2.5422	BSP	19031												
BDE	1.2159	BRA	3.6014	BC3	3.1362	FSP	-2125												

MID-COURSE EXECUTION ACCURACY

SGT	5849.5	SGR	1425.0	SG3	600.4						
RRT	-.9652	RRF	-.9590	RTF	.9872						
SGB	6020.6	R23	.0095	R13	-.9874						
SG1	6009.6	SG2	362.8	THA	166.72						

ORBIT DETERMINATION ACCURACY

ST	2253.6	SR	428.8	SS	1405.7						
CRT	-.8639	CRS	.8050	CST	-.9942						
LSA	2678.0	MSA	258.7	SSA	13.8						
EL1	2284.1	EL2	213.1	ALF	170.58						

LAUNCH DATE SEP 29 1965 FLIGHT TIME 200.00 ARRIVAL DATE APR 17 1966

HELIOCENTRIC CONIC DISTANCE 553.062

RL	149.85	LAL	.00	LOL	5.65	VL	27.184	GAL	5.88	AZL	90.03	HCA	250.26	SMA	128.56	ECC	.19402	INC	.0271	V1	29.735
RP	108.63	LAP	.03	LOP	255.91	VP	37.566	GAP	6.78	AZP	89.99	TAL	154.01	TAP	44.27	RCA	103.62	APO	153.50	V2	34.886
RC	114.493	GL	-.19	GP	24.55	ZAL	39.36	ZAP	142.70	ETS	33.61	ZAE	122.57	ETE	164.38	ZAC	21.07	ETC	202.50	CLP	-150.99

PLANETOCENTRIC CONIC

C3	17.992	VHL	4.242	DLA	-12.93	RAL	328.59	RAD	6567.7	VEL	11.806	PTH	2.09	VHP	5.331	DPA	.29	RAP	284.91	ECC	1.2961

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 25 31	1775.95	-7.08	15.36	187.14	117.49	10 55 7	1175.9	-3.34	8.67
90.00	19 2 19	5246.98	26.71	236.57	192.40	80.23	20 29 46	4647.0	25.09	228.27
100.00	11 40 10	1535.13	-8.15	357.08	186.56	118.86	12 5 45	935.1	-4.24	350.47
100.00	20 30 22	4963.03	27.90	215.43	192.15	78.82	21 53 5	4363.0	26.08	207.11
110.00	12 33 19	1368.65	-10.94	342.77	184.88	122.59	12 56 8	768.6	-6.56	336.41
110.00	21 53 42	4702.27	31.06	194.79	191.31	74.95	23 12 4	4102.3	28.68	186.39

DIFFERENTIAL CORRECTIONS

TDE	1.3464	TRA	3.6788	TC3	-2.9962	BAU	.7279												
RDE	-.0720	RRA	-.9034	RC3	.4263	FAU	.04568												
FDE	1.8479	FRA	4.1533	FC3	-2.1980	BSP	19407												
BDE	1.3483	BRA	3.7881	BC3	3.0264	FSP	-2009												

MID-COURSE EXECUTION ACCURACY

SGT	5980.3	SGR	1306.8	SG3	565.5						
RRT	-.9570	RRF	-.9498	RTF	.9868						
SGB	6121.4	R23	.0057	R13	-.9870						
SG1	6110.1	SG2	370.9	THA	168.14						

ORBIT DETERMINATION ACCURACY

ST	2377.6	SR	388.1	SS	1398.2						
CRT	-.8150	CRS	.7569	CST	-.9955						
LSA	2773.5	MSA	257.4	SSA	13.8						
EL1	2398.8	EL2	222.9	ALF	172.36						

LAUNCH DATE SEP 29 1965 FLIGHT TIME 202.00 ARRIVAL DATE APR 19 1966

HELIOCENTRIC CONIC DISTANCE 558.989

RL	149.85	LAL	.00	LOL	5.65	VL	27.165	GAL	6.18	AZL	89.83	HCA	253.43	SMA	128.43	ECC	.19769	INC	.1667	V1	29.735
RP	108.66	LAP	-.16	LOP	259.08	VP	37.542	GAP	7.21	AZP	90.05	TAL	153.20	TAP	46.63	RCA	103.04	APO	153.82	V2	34.875
RC	116.852	GL	1.04	GP	23.15	ZAL	38.56	ZAP	145.00	ETS	34.48	ZAE	121.97	ETE	165.62	ZAC	21.51	ETC	197.69	CLP	-152.99

PLANETOCENTRIC CONIC

C3	19.107	VHL	4.371	DLA	-11.51	RAL	328.94	RAD	6567.8	VEL	11.853	PTH	2.10	VHP	5.524	DPA	-1.05	RAP	286.07	ECC	1.3145

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 14 52	1838.21	-9.02	18.91	188.28	116.96	10 45 31	1238.2	-5.33	12.17
90.00	19 15 47	5212.94	26.29	234.16	193.23	79.09	20 42 40	4612.9	24.52	225.94
100.00	11 30 24	1594.54	-10.08	.43	187.71	118.29	11 56 59	994.5	-6.23	353.76
100.00	20 42 56	4931.84	27.47	213.22	192.96	77.73	22 5 8	4331.8	25.50	204.97
110.00	12 25 29	1422.03	-12.88	345.68	186.06	121.94	12 49 11	822.0	-8.56	339.24
110.00	22 4 20	4677.11	30.60	192.97	192.05	73.97	23 22 18	4077.1	28.10	184.67

DIFFERENTIAL CORRECTIONS

TDE	1.4834	TRA	3.8885	TC3	-2.8797	BAU	.7414												
RDE	-.0480	RRA	-.8658	RC3	.3639	FAU	.04156												
FDE	1.8373	FRA	4.0495	FC3	-1.8831	BSP	19776												
BDE	1.4841	BRA	3.9837	BC3	2.9026	FSP	-1895												

MID-COURSE EXECUTION ACCURACY

SGT	6097.0	SGR	1202.7	SG3	531.6						
RRT	-.9474	RRF	-.9391	RTF	.9864						
SGB	6214.5	R23	.0028	R13	-.9865						
SG1	6202.9	SG2	378.3	THA	169.37						

ORBIT DETERMINATION ACCURACY

ST	2494.2	SR	353.2	SS	1386.9						
CRT	-.7550	CRS	.6982	CST	-.9965						
LSA	2864.2	MSA	256.3	SSA	13.8						
EL1	2508.6	EL2	230.3	ALF	173.84						

LAUNCH DATE SEP 29 1965 FLIGHT TIME 204.00 ARRIVAL DATE APR 21 1966

HELIOCENTRIC CONIC DISTANCE 564.881

RL	149.85	LAL	.00	LOL	5.65	VL	27.145	GAL	6.50	AZL	89.64	HCA	256.60	SMA	128.30	ECC	.20166	INC	.3577	V1	29.735
RP	108.69	LAP	-.35	LOP	262.25	VP	37.518	GAP	7.65	AZP	90.08	TAL	152.37	TAP	48.97	RCA	102.43	APO	154.17	V2	34.865
RC	119.206	GL	2.14	GP	21.88	ZAL	37.79	ZAP	147.16	ETS	35.39	ZAE	121.39	ETE	166.69	ZAC	22.23	ETC	193.33	CLP	-154.88

PLANETOCENTRIC CONIC

C3	20.366	VHL	4.513	DLA	-10.19	RAL	329.34	RAD	6567.8	VEL	11.906	PTH	2.12	VHP	5.733	DPA	-2.23	RAP	287.34	ECC	1.3352

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 5 38	1896.91	-10.81	22.29	189.59	116.33	10 37 15	1296.9	-7.19	15.48
90.00	19 28 8	5184.53	25.91	232.17	194.21	78.16	20 54 33	4584.5	24.02	224.01
100.00	11 21 56	1650.78	-11.88	3.63	189.03	117.63	11 49 26	1050.8	-8.09	356.90
100.00	20 54 32	4905.89	27.08	211.39	193.92	76.84	22 16 18	4305.9	25.00	203.20
110.00	12 18 42	1473.00	-14.69	348.52	187.40	121.22	12 43 15	873.0	-10.45	341.98
110.00	22 14 15	4656.44	30.20	191.49	192.97	73.17	23 31 51	4056.4	27.60	183.26

DIFFERENTIAL CORRECTIONS

TDE	1.6271	TRA	4.1090	TC3	-2.7434	BAU	.7517												
RDE	-.0251	RRA	-.8337	RC3	.3090	FAU	.03741												
FDE	1.8255	FRA	3.9517	FC3	-1.5903	BSP	20050												
BDE	1.6273	BRA	4.1928	BC3	2.7608	FSP	-1777												

MID-COURSE EXECUTION ACCURACY

SGT	6204.5	SGR	1111.5	SG3	499.5						
RRT	-.9363	RRF	-.9270	RTF	.9859						
SGB	6303.2	R23	.0009	R13	-.9860						
SG1	6291.5	SG2	384.9	THA	170.44						

ORBIT DETERMINATION ACCURACY

ST	2608.1	SR	324.3	SS	1375.5						
CRT	-.6852	CRS	.6303	CST	-.9973						
LSA	2955.3	MSA	255.0	SSA	13.8						
EL1	2617.6	EL2	235.4	ALF	175.09						

LAUNCH DATE SEP 29 1965 FLIGHT TIME 206.00 ARRIVAL DATE APR 23 1966

HELIOCENTRIC CONIC DISTANCE 570.734

RL 149.85 LAL .00 LOL 5.65 VL 27.125 GAL 6.84 AZL 89.46 HCA 259.77 SMA 128.16 ECC .20596 INC .5431 V1 29.735
RP 108.72 LAP -.53 LOP 265.42 VP 37.495 GAP 8.10 AZP 90.10 TAL 151.51 TAP 51.29 RCA 101.77 APO 154.56 V2 34.856
RC 121.557 GL 3.14 GP 20.73 ZAL 37.04 ZAP 149.19 ETS 36.36 ZAE 120.84 ETE 167.61 ZAC 23.18 ETC 189.46 CLP-156.68

PLANETOCENTRIC CONIC

C3 21.780 VHL 4.667 DLA -8.98 RAL 329.76 RAD 6567.9 VEL 11.965 PTH 2.13 VHP 5.956 DPA -3.28 RAP 288.71 ECC 1.3584

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 57 36	1952.63	-12.47	25.54	191.05	115.63	10 30 8	1352.6	-8.92	18.66
90.00	19 39 34	5161.07	25.57	230.53	195.34	77.41	21 5 35	4561.1	23.58	222.43
100.00	11 14 33	1704.34	-13.55	6.73	190.50	116.90	11 42 58	1104.3	-9.84	359.91
100.00	21 5 17	4884.59	26.74	209.89	195.04	76.12	22 26 42	4284.6	24.57	201.77
110.00	12 12 49	1521.89	-16.40	351.28	188.89	120.42	12 38 11	921.9	-12.24	344.64
110.00	22 23 30	4639.80	29.87	190.31	194.04	72.55	23 40 50	4039.8	27.19	182.14

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE 1.7716 TRA 4.3350 TC3-2.6029 BAU .7618 SGT 6298.0 SGR 1030.4 SG3 468.6 ST 2710.8 SR 300.3 SS 1359.8
RDE -.0019 RRA -.8050 RC3 .2634 FAU .03364 RRT -.9236 RRF -.9134 RTF .9855 CRT -.6030 CRS .5505 CST -.9979
FDE 1.8061 FRA 3.8536 FC3-1.3371 BSP 20372 SGB 6381.7 R23 -.0008 R13 -.9855 LSA 3037.0 MSA 253.8 SSA 13.7
BDE 1.7716 BRA 4.4091 BC3 2.6162 FSP -1672 SG1 6369.8 SG2 390.4 THA 171.37 EL1 2716.9 EL2 239.0 ALF 176.15

LAUNCH DATE SEP 29 1965 FLIGHT TIME 208.00 ARRIVAL DATE APR 25 1966

HELIOCENTRIC CONIC DISTANCE 576.545

RL 149.85 LAL .00 LOL 5.65 VL 27.104 GAL 7.21 AZL 89.28 HCA 262.94 SMA 128.02 ECC .21060 INC .7246 V1 29.735
RP 108.75 LAP -.72 LOP 268.59 VP 37.471 GAP 8.57 AZP 90.09 TAL 150.65 TAP 53.59 RCA 101.06 APO 154.99 V2 34.846
RC 123.903 GL 4.03 GP 19.69 ZAL 36.32 ZAP 151.08 ETS 37.42 ZAE 120.32 ETE 168.41 ZAC 24.34 ETC 186.12 CLP-158.39

PLANETOCENTRIC CONIC

C3 23.367 VHL 4.834 DLA -7.86 RAL 330.21 RAD 6567.9 VEL 12.031 PTH 2.15 VHP 6.194 DPA -4.20 RAP 290.18 ECC 1.3846

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 50 34	2005.83	-14.02	28.68	192.66	114.86	10 24 0	1405.8	-10.55	21.72
90.00	19 50 11	5142.03	25.28	229.22	196.61	76.81	21 15 53	4542.0	23.22	221.15
100.00	11 8 8	1755.63	-15.11	9.74	192.12	116.10	11 37 23	1155.6	-11.48	2.84
100.00	21 15 19	4867.46	26.46	208.70	196.29	75.56	22 36 26	4267.5	24.21	200.62
110.00	12 7 44	1569.02	-18.00	353.99	190.52	119.56	12 33 53	969.0	-13.93	347.24
110.00	22 32 12	4626.84	29.60	189.40	195.26	72.07	23 49 19	4026.8	26.87	181.28

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE 1.9199 TRA 4.5705 TC3-2.4550 BAU .7701 SGT 6381.0 SGR 958.2 SG3 439.4 ST 2806.3 SR 281.1 SS 1342.4
RDE .0210 RRA -.7798 RC3 .2244 FAU .03007 RRT -.9094 RRF -.8984 RTF .9851 CRT -.5108 CRS .4613 CST -.9983
FDE 1.7837 FRA 3.7599 FC3-1.1142 BSP 20677 SGB 6452.6 R23 -.0021 R13 -.9851 LSA 3113.2 MSA 252.4 SSA 13.7
BDE 1.9200 BRA 4.6365 BC3 2.4652 FSP -1572 SG1 6440.5 SG2 394.9 THA 172.19 EL1 2810.0 EL2 241.3 ALF 177.05

LAUNCH DATE SEP 29 1965 FLIGHT TIME 210.00 ARRIVAL DATE APR 27 1966

HELIOCENTRIC CONIC DISTANCE 582.310

RL 149.85 LAL .00 LOL 5.65 VL 27.083 GAL 7.60 AZL 89.10 HCA 266.11 SMA 127.88 ECC .21563 INC .9035 V1 29.735
RP 108.78 LAP -.90 LOP 271.75 VP 37.448 GAP 9.05 AZP 90.06 TAL 149.76 TAP 55.87 RCA 100.31 APO 155.46 V2 34.838
RC 126.245 GL 4.84 GP 18.74 ZAL 35.61 ZAP 152.87 ETS 38.58 ZAE 119.83 ETE 169.11 ZAC 25.66 ETC 183.26 CLP-160.02

PLANETOCENTRIC CONIC

C3 25.147 VHL 5.015 DLA -6.82 RAL 330.68 RAD 6568.0 VEL 12.105 PTH 2.17 VHP 6.448 DPA -5.00 RAP 291.72 ECC 1.4138

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 44 26	2056.87	-15.46	31.74	194.39	114.03	10 18 43	1456.9	-12.08	24.69
90.00	20 0 6	5126.99	25.05	228.18	198.00	76.34	21 25 33	4527.0	22.92	220.15
100.00	11 2 31	1804.97	-16.57	12.68	193.86	115.24	11 32 36	1205.0	-13.03	5.68
100.00	21 24 42	4854.13	26.23	207.78	197.66	75.12	22 45 37	4254.1	23.93	199.73
110.00	12 3 19	1614.61	-19.51	356.66	192.28	118.64	12 30 13	1014.6	-15.54	349.80
110.00	22 40 24	4617.25	29.40	188.72	196.60	71.72	23 57 21	4017.3	26.62	180.64

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE 2.0737 TRA 4.8176 TC3-2.3006 BAU .7761 SGT 6455.3 SGR 893.9 SG3 412.1 ST 2895.6 SR 266.3 SS 1324.8
RDE .0435 RRA -.7576 RC3 .1908 FAU .02667 RRT -.8936 RRF -.8819 RTF .9846 CRT -.4120 CRS .3660 CST -.9987
FDE 1.7609 FRA 3.6724 FC3 -.9183 BSP 20952 SGB 6516.9 R23 -.0031 R13 -.9846 LSA 3185.5 MSA 250.8 SSA 13.5
BDE 2.0742 BRA 4.8768 BC3 2.3085 FSP -1476 SG1 6504.7 SG2 398.1 THA 172.92 EL1 2897.7 EL2 242.5 ALF 177.82

LAUNCH DATE SEP 29 1965 FLIGHT TIME 212.00 ARRIVAL DATE APR 29 1966

HELIOCENTRIC CONIC DISTANCE 588.025

RL 149.85 LAL .00 LOL 5.65 VL 27.062 GAL 8.02 AZL 88.92 HCA 269.27 SMA 127.74 ECC .22106 INC 1.0810 V1 29.735
RP 108.80 LAP -1.08 LOP 274.92 VP 37.425 GAP 9.54 AZP 90.01 TAL 148.87 TAP 58.14 RCA 99.50 APO 155.98 V2 34.830
RC 128.581 GL 5.57 GP 17.89 ZAL 34.91 ZAP 154.55 ETS 39.87 ZAE 119.37 ETE 169.72 ZAC 27.10 ETC 180.84 CLP-161.58

PLANETOCENTRIC CONIC

C3 27.141 VHL 5.210 DLA -5.87 RAL 331.18 RAD 6568.1 VEL 12.187 PTH 2.19 VHP 6.718 DPA -5.68 RAP 293.33 ECC 1.4467

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 39 4	2106.07	-16.80	34.73	196.24	113.14	10 14 10	1506.1	-13.52	27.58
90.00	20 9 24	5115.59	24.86	227.39	199.50	75.99	21 34 40	4515.6	22.69	219.40
100.00	10 57 37	1852.62	-17.93	15.57	195.72	114.33	11 28 30	1252.6	-14.49	8.46
100.00	21 33 31	4844.27	26.06	207.10	199.15	74.80	22 54 16	4244.3	23.72	199.08
110.00	11 59 30	1658.88	-20.94	359.31	194.16	117.66	12 27 9	1058.9	-17.07	352.32
110.00	22 48 8	4610.78	29.26	188.27	198.05	71.48	24 4 58	4010.8	26.45	180.21

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE 2.2361 TRA 5.0803 TC3-2.1381 BAU .7780 SGT 6523.6 SGR 836.4 SG3 386.9 ST 2981.8 SR 255.2 SS 1308.7
RDE .0652 RRA -.7383 RC3 .1610 FAU .02331 RRT -.8764 RRF -.8640 RTF .9842 CRT -.3109 CRS .2689 CST -.9990
FDE 1.7403 FRA 3.5937 FC3 -.7436 BSP 21113 SGB 6576.9 R23 -.0037 R13 -.9842 LSA 3256.8 MSA 248.7 SSA 13.4
BDE 2.2370 BRA 5.1336 BC3 2.1442 FSP -1379 SG1 6564.8 SG2 400.2 THA 173.57 EL1 2982.9 EL2 242.5 ALF 178.47

LAUNCH DATE SEP 29 1965 FLIGHT TIME 214.00 ARRIVAL DATE MAY 1 1966

HELIOCENTRIC CONIC DISTANCE 593.685

RL	149.85	LAL	.00	LOL	5.65	VL	27.040	GAL	8.48	AZL	88.74	HCA	272.44	SMA	127.59	ECC	.22694	INC	1.2582	VI	29.735
RP	108.82	LAP	-1.26	LOP	278.08	VP	37.402	GAP	10.06	AZP	89.95	TAL	147.97	TAP	60.41	RCA	98.64	APO	156.55	V2	34.822
RC	130.911	GL	6.22	GP	17.10	ZAL	34.24	ZAP	156.13	ETS	41.32	ZAE	118.93	ETE	170.25	ZAC	28.65	ETC	178.80	CLP	-163.09

PLANETOCENTRIC CONIC

C3	29.379	VHL	5.420	DLA	-4.98	RAL	331.68	RAD	6568.2	VEL	12.278	PTH	2.21	VHP	7.005	DPA	-6.27	RAP	295.01	ECC	1.4835

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 34 22	2153.64	-18.04	37.66	198.19	112.20	10 10 15	1553.6	-14.88	30.42
90.00	20 18 7	5107.55	24.73	226.84	201.10	75.74	21 43 15	4507.6	22.53	218.86
100.00	10 53 22	1898.80	-19.20	18.41	197.68	113.36	11 25 0	1298.8	-15.87	11.19
100.00	21 41 49	4837.62	25.94	206.64	200.74	74.59	23 2 26	4237.6	23.57	198.64
110.00	11 56 14	1701.98	-22.27	1.94	196.15	116.63	12 24 36	1102.0	-18.52	354.82
110.00	22 55 26	4607.21	29.18	188.02	199.62	71.35	24 12 13	4007.2	26.36	179.98

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	2.3996	TRA	5.3516	TC3	-1.9814	BAU	.7801	SGT	6579.7	SGR	783.8	SG3	362.9	ST	3056.2	SR	247.2	SS	1290.1
RDE	.0874	RRA	-.7202	RC3	.1363	FAU	.02034	RRT	-.8575	RRF	-.8446	RTF	.9839	CRT	-.2072	CRS	.1694	CST	-.9992
FDE	1.7159	FRA	3.5175	FC3	-.5995	BSP	21367	SGB	6626.2	R23	-.0043	R13	-.9838	LSA	3317.4	MSA	246.4	SSA	13.3
BDE	2.4012	BRA	5.3998	BC3	1.9861	FSP	-1296	SG1	6614.1	SG2	401.1	THA	174.15	EL1	3056.6	EL2	241.8	ALF	179.03

LAUNCH DATE SEP 29 1965 FLIGHT TIME 216.00 ARRIVAL DATE MAY 3 1966

HELIOCENTRIC CONIC DISTANCE 599.282

RL	149.85	LAL	.00	LOL	5.65	VL	27.017	GAL	8.96	AZL	88.56	HCA	275.60	SMA	127.45	ECC	.23332	INC	1.4362	VI	29.735
RP	108.85	LAP	-1.43	LOP	281.25	VP	37.380	GAP	10.60	AZP	89.86	TAL	147.06	TAP	62.66	RCA	97.71	APO	157.18	V2	34.816
RC	133.236	GL	6.80	GP	16.40	ZAL	33.58	ZAP	157.62	ETS	42.94	ZAE	118.51	ETE	170.72	ZAC	30.27	ETC	177.10	CLP	-164.55

PLANETOCENTRIC CONIC

C3	31.893	VHL	5.647	DLA	-4.17	RAL	332.19	RAD	6568.3	VEL	12.380	PTH	2.23	VHP	7.311	DPA	-6.75	RAP	296.74	ECC	1.5249

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 30 16	2199.78	-19.21	40.55	200.24	111.22	10 6 56	1599.8	-16.15	33.20
90.00	20 26 19	5102.63	24.64	226.51	202.79	75.59	21 51 21	4502.6	22.42	218.54
100.00	10 49 39	1943.68	-20.38	21.22	199.74	112.35	11 22 3	1343.7	-17.18	13.89
100.00	21 49 37	4833.96	25.87	206.39	202.43	74.48	23 10 11	4234.0	23.49	198.40
110.00	11 53 25	1744.06	-23.53	4.56	198.24	115.54	12 22 29	1144.1	-19.90	357.30
110.00	23 2 20	4606.35	29.16	187.96	201.29	71.32	24 19 6	4006.3	26.34	179.92

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	2.5698	TRA	5.6382	TC3	-1.8239	BAU	.7792	SGT	6628.5	SGR	735.9	SG3	340.6	ST	3124.4	SR	241.8	SS	1272.0
RDE	.1094	RRA	-.7036	RC3	.1149	FAU	.01753	RRT	-.8371	RRF	-.8238	RTF	.9836	CRT	-.1062	CRS	.0727	CST	-.9994
FDE	1.6923	FRA	3.4482	FC3	-.4759	BSP	21585	SGB	6669.2	R23	-.0047	R13	-.9836	LSA	3373.2	MSA	243.8	SSA	13.1
BDE	2.5721	BRA	5.6820	BC3	1.8675	FSP	-1217	SG1	6657.1	SG2	400.8	THA	174.67	EL1	3124.5	EL2	240.4	ALF	179.53

LAUNCH DATE SEP 29 1965 FLIGHT TIME 218.00 ARRIVAL DATE MAY 5 1966

HELIOCENTRIC CONIC DISTANCE 604.810

RL	149.85	LAL	.00	LOL	5.65	VL	26.995	GAL	9.49	AZL	88.38	HCA	278.76	SMA	127.30	ECC	.24024	INC	1.6160	VI	29.735
RP	108.87	LAP	-1.60	LOP	284.41	VP	37.358	GAP	11.17	AZP	89.75	TAL	146.16	TAP	64.92	RCA	96.72	APO	157.88	V2	34.809
RC	135.553	GL	7.32	GP	15.75	ZAL	32.94	ZAP	159.03	ETS	44.77	ZAE	118.12	ETE	171.14	ZAC	31.97	ETC	175.67	CLP	-165.97

PLANETOCENTRIC CONIC

C3	34.722	VHL	5.893	DLA	-3.41	RAL	332.71	RAD	6568.4	VEL	12.494	PTH	2.26	VHP	7.637	DPA	-7.15	RAP	298.51	ECC	1.5714

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 26 42	2244.66	-20.29	43.40	202.39	110.19	10 4 7	1644.7	-17.36	35.95
90.00	20 34 1	5100.60	24.61	226.37	204.58	75.53	21 59 1	4500.6	22.38	218.40
100.00	10 46 27	1987.41	-21.49	23.99	201.90	111.29	11 19 34	1387.4	-18.41	16.55
100.00	21 56 57	4833.08	25.85	206.33	204.21	74.45	23 17 30	4233.1	23.47	198.34
110.00	11 51 2	1785.23	-24.72	7.17	200.42	114.40	12 20 47	1185.2	-21.21	359.77
110.00	23 8 51	4608.03	29.20	188.08	203.05	71.38	24 25 39	4008.0	26.38	180.03

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	2.7471	TRA	5.9414	TC3	-1.6676	BAU	.7754	SGT	6670.1	SGR	691.7	SG3	319.8	ST	3186.3	SR	238.3	SS	1254.7
RDE	.1315	RRA	-.6881	RC3	.0962	FAU	.01487	RRT	-.8150	RRF	-.8015	RTF	.9834	CRT	-.0103	CRS	-.0190	CST	-.9995
FDE	1.6701	FRA	3.3857	FC3	-.3708	BSP	21776	SGB	6705.9	R23	-.0050	R13	-.9834	LSA	3424.3	MSA	240.7	SSA	13.0
BDE	2.7502	BRA	5.9811	BC3	1.6703	FSP	-1143	SG1	6694.0	SG2	399.3	THA	175.15	EL1	3186.3	EL2	238.3	ALF	179.96

LAUNCH DATE SEP 29 1965 FLIGHT TIME 220.00 ARRIVAL DATE MAY 7 1966

HELIOCENTRIC CONIC DISTANCE 610.259

RL	149.85	LAL	.00	LOL	5.65	VL	26.973	GAL	10.05	AZL	88.20	HCA	281.92	SMA	127.15	ECC	.24775	INC	1.7988	VI	29.735
RP	108.88	LAP	-1.76	LOP	287.57	VP	37.336	GAP	11.77	AZP	89.63	TAL	145.26	TAP	67.18	RCA	95.65	APO	158.65	V2	34.804
RC	137.863	GL	7.78	GP	15.16	ZAL	32.33	ZAP	160.35	ETS	46.85	ZAE	117.74	ETE	171.52	ZAC	33.71	ETC	174.47	CLP	-167.35

PLANETOCENTRIC CONIC

C3	37.913	VHL	6.157	DLA	-2.72	RAL	333.23	RAD	6568.5	VEL	12.621	PTH	2.29	VHP	7.985	DPA	-7.46	RAP	300.31	ECC	1.6240

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 23 37	2288.39	-21.29	46.21	204.61	109.12	10 1 45	1688.4	-18.48	38.66
90.00	20 41 14	5101.29	24.62	226.41	206.44	75.55	22 6 16	4501.3	22.40	218.45
100.00	10 43 41	2030.09	-22.52	26.74	204.14	110.19	11 17 31	1430.1	-19.57	19.19
100.00	22 3 51	4834.83	25.89	206.45	206.06	74.50	23 24 26	4234.8	23.51	198.45
110.00	11 49 1	1825.58	-25.83	9.78	202.69	113.21	12 19 27	1225.6	-22.46	2.24
110.00	23 15 1	4612.11	29.29	188.36	204.89	71.53	24 31 53	4012.1	26.49	180.30

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	2.9327	TRA	6.2629	TC3	-1.5129	BAU	.7679	SGT	6705.1	SGR	650.6	SG3	300.6	ST	3242.5	SR	236.3	SS	1238.6
RDE	.1536	RRA	-.6731	RC3	.0799	FAU	.01234	RRT	-.7912	RRF	-.7777	RTF	.9833	CRT	.0791	CRS	-.1044	CST	-.9996
FDE	1.6497	FRA	3.3303	FC3	-.2817	BSP	21948	SGB	6736.6	R23	-.0051	R13	-.9833	LSA	3470.9	MSA	237.3	SSA	12.7
BDE	2.9367	BRA	6.2989	BC3	1.5150	FSP	-1074	SG1	6724.9	SG2	396.7	THA	175.59	EL1	3242.6	EL2	235.5	ALF	.33

LAUNCH DATE SEP 30 1965 FLIGHT TIME 70.00 ARRIVAL DATE DEC 9 1965

HELIOCENTRIC CONIC DISTANCE 133.741

RL	149.81	LAL	.00	LOL	6.63	VL	16.865	GAL	21.26	AZL	92.46	HCA	41.26	SMA	89.23	ECC	.72927	INC	2.4590	V1	29.743
RP	108.12	LAP	-1.62	LOP	47.87	VP	31.106	GAP	-45.56	AZP	91.85	TAL	171.44	TAP	212.71	RCA	24.16	APO	154.30	V2	35.049
RC	74.169	GL	-2.49	GP	-4.08	ZAL	64.80	ZAP	31.52	ETS	169.92	ZAE	137.47	ETE	181.12	ZAC	19.34	ETC	67.88	CLP	31.28

PLANETOCENTRIC CONIC

C3 241.188 VHL 15.530 DLA -22.18 RAL 304.70 RAD 6571.4 VEL 19.039 PTH 3.08 VHP 25.777 DPA -27.20 RAP 257.48 ECC 4.9693

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 21 46	1986.13	-13.45	27.51	200.21	115.15	10 54 52	1386.1	-9.95	20.58
90.00	15 47 38	891.08	19.66	324.19	214.01	110.80	16 2 29	291.1	22.32	316.53
100.00	11 27 10	1775.03	-15.69	10.90	199.11	115.78	11 56 45	1175.0	-12.09	3.95
100.00	17 24 55	5865.46	21.98	279.96	214.95	110.79	19 2 40	5265.5	24.61	272.15
110.00	12 2 23	1664.62	-21.12	359.66	196.24	117.53	12 30 8	1064.6	-17.26	352.65
110.00	19 6 11	5548.64	27.65	258.28	217.33	110.94	20 38 39	4948.6	30.24	250.05

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-.4764	TRA	-1.7877	TC3	-.1167	BAU	.3764	SGT	818.3	SGR	457.0	SG3	27.2	ST	276.9	SR	431.8	SS	243.9
RDE	-1.1636	RRA	.3936	RC3	-.0006	FAU	.01208	RRT	-.0951	RRF	.0889	RTF	-.6212	CRT	.5469	CRS	.5672	CST	.9968
FDE	.1940	FRA	.6927	FC3	-.0434	BSP	2139	SGB	937.3	R23	-.0035	R13	.6219	LSA	503.3	MSA	262.9	SSA	13.9
BDE	1.2573	BRA	1.8305	BC3	.1167	FSP	-57	SG1	820.0	SG2	454.0	THA	175.61	EL1	465.8	EL2	214.9	ALF	65.01

LAUNCH DATE SEP 30 1965 FLIGHT TIME 72.00 ARRIVAL DATE DEC 11 1965

HELIOCENTRIC CONIC DISTANCE 139.478

RL	149.81	LAL	.00	LOL	6.63	VL	17.593	GAL	20.35	AZL	92.07	HCA	44.46	SMA	90.76	ECC	.70218	INC	2.0732	V1	29.743
RP	108.08	LAP	-1.45	LOP	51.07	VP	31.521	GAP	-43.50	AZP	91.48	TAL	170.66	TAP	215.13	RCA	27.03	APO	154.49	V2	35.063
RC	72.025	GL	-2.31	GP	-4.19	ZAL	63.50	ZAP	30.02	ETS	169.32	ZAE	137.62	ETE	181.64	ZAC	18.98	ETC	72.75	CLP	29.75

PLANETOCENTRIC CONIC

C3 219.804 VHL 14.826 DLA -21.70 RAL 306.02 RAD 6571.3 VEL 18.469 PTH 3.04 VHP 24.791 DPA -27.54 RAP 259.34 ECC 4.6174

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 20 51	1995.12	-13.71	28.04	200.55	115.02	10 54 6	1395.1	-10.23	21.10
90.00	15 59 2	855.70	20.50	321.94	214.46	109.97	16 13 18	255.7	23.04	314.18
100.00	11 27 2	1781.49	-15.88	11.28	199.49	115.66	11 56 44	1181.5	-12.30	4.32
100.00	17 35 32	5832.60	22.76	277.83	215.34	109.92	19 12 45	5232.6	25.26	269.93
110.00	12 3 36	1666.87	-21.19	359.79	196.69	117.47	12 31 23	1066.9	-17.34	352.78
110.00	19 15 27	5519.99	28.34	256.33	217.59	109.97	20 47 27	4920.0	30.79	247.99

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-.4908	TRA	-1.8014	TC3	-.1245	BAU	.3658	SGT	856.5	SGR	462.7	SG3	29.5	ST	294.3	SR	434.9	SS	259.5
RDE	-1.1179	RRA	.3984	RC3	-.0015	FAU	.01217	RRT	-.1023	RRF	.0962	RTF	-.6407	CRT	.5529	CRS	.5810	CST	.9968
FDE	.2101	FRA	.7198	FC3	-.0479	BSP	2273	SGB	973.5	R23	-.0043	R13	.6414	LSA	519.1	MSA	270.9	SSA	14.1
BDE	1.2209	BRA	1.8450	BC3	.1245	FSP	-62	SG1	858.4	SG2	459.3	THA	175.57	EL1	474.6	EL2	224.7	ALF	62.95

LAUNCH DATE SEP 30 1965 FLIGHT TIME 74.00 ARRIVAL DATE DEC 13 1965

HELIOCENTRIC CONIC DISTANCE 145.320

RL	149.81	LAL	.00	LOL	6.63	VL	18.275	GAL	19.48	AZL	91.73	HCA	47.67	SMA	92.30	ECC	.67543	INC	1.7287	V1	29.743
RP	108.04	LAP	-1.28	LOP	54.28	VP	31.921	GAP	-41.55	AZP	91.16	TAL	169.89	TAP	217.56	RCA	29.96	APO	154.65	V2	35.076
RC	69.906	GL	-2.10	GP	-4.32	ZAL	62.26	ZAP	28.55	ETS	168.64	ZAE	137.85	ETE	182.22	ZAC	18.77	ETC	77.86	CLP	28.25

PLANETOCENTRIC CONIC

C3 200.416 VHL 14.157 DLA -21.21 RAL 307.26 RAD 6571.1 VEL 17.937 PTH 3.00 VHP 23.841 DPA -27.88 RAP 261.24 ECC 4.2983

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 19 40	2003.53	-13.95	28.54	200.79	114.89	10 53 3	1403.5	-10.48	21.58
90.00	16 10 10	819.52	21.33	319.60	214.77	109.08	16 23 49	219.5	23.74	311.76
100.00	11 26 36	1787.50	-16.05	11.64	199.76	115.56	11 56 23	1187.5	-12.48	4.67
100.00	17 45 55	5798.82	23.52	275.62	215.59	109.00	19 22 34	5198.8	25.90	267.62
110.00	12 4 29	1668.77	-21.25	359.91	197.03	117.43	12 32 17	1068.8	-17.40	352.89
110.00	19 24 31	5490.31	29.01	254.29	217.69	108.93	20 56 2	4890.3	31.31	245.84

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-.5051	TRA	-1.8163	TC3	-.1325	BAU	.3551	SGT	896.8	SGR	467.9	SG3	31.9	ST	312.8	SR	437.2	SS	275.7
RDE	-1.0724	RRA	.4020	RC3	-.0027	FAU	.01228	RRT	-.1097	RRF	.1040	RTF	-.6594	CRT	.5582	CRS	.5934	CST	.9966
FDE	.2267	FRA	.7475	FC3	-.0530	BSP	2395	SGB	1011.5	R23	-.0053	R13	.6602	LSA	536.0	MSA	278.4	SSA	14.4
BDE	1.1854	BRA	1.8603	BC3	.1325	FSP	-68	SG1	898.8	SG2	464.0	THA	175.53	EL1	483.7	EL2	234.6	ALF	60.71

LAUNCH DATE SEP 30 1965 FLIGHT TIME 76.00 ARRIVAL DATE DEC 15 1965

HELIOCENTRIC CONIC DISTANCE 151.260

RL	149.81	LAL	.00	LOL	6.63	VL	18.913	GAL	18.65	AZL	91.42	HCA	50.87	SMA	93.85	ECC	.64913	INC	1.4174	V1	29.743
RP	108.00	LAP	-1.10	LOP	57.49	VP	32.305	GAP	-39.69	AZP	90.89	TAL	169.14	TAP	220.01	RCA	32.93	APO	154.77	V2	35.089
RC	67.813	GL	-1.88	GP	-4.45	ZAL	61.06	ZAP	27.11	ETS	167.88	ZAE	138.18	ETE	182.87	ZAC	18.72	ETC	83.11	CLP	26.77

PLANETOCENTRIC CONIC

C3 182.817 VHL 13.521 DLA -20.70 RAL 308.44 RAD 6571.0 VEL 17.440 PTH 2.96 VHP 22.923 DPA -28.21 RAP 263.17 ECC 4.0087

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 18 13	2011.38	-14.18	29.01	200.93	114.77	10 51 44	1411.4	-10.72	22.04
90.00	16 21 1	782.51	22.13	317.19	214.92	108.13	16 34 3	182.5	24.40	309.25
100.00	11 25 52	1793.06	-16.22	11.97	199.93	115.46	11 55 45	1193.1	-12.66	4.99
100.00	17 56 3	5764.11	24.27	273.31	215.68	108.00	19 32 7	5164.1	26.51	265.22
110.00	12 5 1	1670.32	-21.30	.00	197.27	117.39	12 32 52	1070.3	-17.46	352.98
110.00	19 33 23	5459.60	29.67	252.14	217.63	107.81	21 4 22	4859.6	31.81	243.59

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-.5161	TRA	-1.8292	TC3	-.1401	BAU	.3426	SGT	937.0	SGR	472.4	SG3	34.5	ST	331.3	SR	438.7	SS	292.3
RDE	-1.0271	RRA	.4046	RC3	-.0041	FAU	.01241	RRT	-.1184	RRF	.1127	RTF	-.6777	CRT	.5609	CRS	.6041	CST	.9964
FDE	.2435	FRA	.7756	FC3	-.0588	BSP	2581	SGB	1049.4	R23	-.0058	R13	.6785	LSA	553.3	MSA	285.3	SSA	14.6
BDE	1.1495	BRA	1.8734	BC3	.1402	FSP	-75	SG1	939.3	SG2	468.0	THA	175.45	EL1	492.5	EL2	244.3	ALF	58.45

LAUNCH DATE SEP 30 1965 FLIGHT TIME 78.00 ARRIVAL DATE DEC 17 1965

HELIOCENTRIC CONIC DISTANCE 157.292

RL 149.81 LAL .00 LOL 6.63 VL 19.511 GAL 17.84 AZL 91.13 HCA 54.08 SMA 95.40 ECC .62337 INC 1.1331 V1 29.743
RP 107.96 LAP -.92 LOP 60.71 VP 32.672 GAP -37.93 AZP 90.66 TAL 168.40 TAP 222.48 RCA 35.93 APO 154.87 V2 35.101
RC 65.751 GL -1.63 GP -4.60 ZAL 59.92 ZAP 25.69 ETS 167.01 ZAE 138.59 ETE 183.58 ZAC 18.84 ETC 88.42 CLP 25.31

PLANETOCENTRIC CONIC

C3 166.826 VHL 12.916 DLA -20.17 RAL 309.55 RAD 6570.8 VEL 16.975 PTH 2.92 VHP 22.037 DPA -28.53 RAP 265.13 ECC 3.7455

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 16 30	2018.70	-14.38	29.45	200.96	114.66	10 50 8	1418.7	-10.94	22.46
90.00	16 31 36	744.65	22.91	314.69	214.91	107.11	16 44 0	144.7	25.04	306.66
100.00	11 24 50	1798.19	-16.37	12.28	200.00	115.37	11 54 48	1198.2	-12.82	5.29
100.00	18 5 57	5728.44	25.00	270.91	215.61	106.94	19 41 25	5128.4	27.08	262.73
110.00	12 5 14	1671.53	-21.33	.08	197.40	117.36	12 33 6	1071.5	-17.50	353.05
110.00	19 42 2	5427.86	30.31	249.89	217.42	106.62	21 12 29	4827.9	32.28	241.23

DIFFERENTIAL CORRECTIONS

TDE -.5292 TRA-1.8452 TC3 -.1484 BAU .3312
RDE -.9821 RRA .4061 RC3 -.0058 FAU .01255
FDE .2612 FRA .8049 FC3 -.0651 BSP 2701
BDE 1.1156 BRA 1.8893 BC3 .1485 FSP -83

MID-COURSE EXECUTION ACCURACY

SGT 981.0 SGR 476.3 SG3 37.3
RRT -.1269 RRF .1219 RTF -.6951
SGB 1090.6 R23 -.0072 R13 .6959
SG1 983.5 SG2 471.3 THA 175.42

ORBIT DETERMINATION ACCURACY

ST 351.7 SR 439.5 SS 309.8
CRT .5644 CRS .6140 CST .9961
LSA 572.4 MSA 291.4 SSA 14.8
EL1 502.3 EL2 254.0 ALF 55.85

LAUNCH DATE SEP 30 1965 FLIGHT TIME 80.00 ARRIVAL DATE DEC 19 1965

HELIOCENTRIC CONIC DISTANCE 163.411

RL 149.81 LAL .00 LOL 6.63 VL 20.072 GAL 17.07 AZL 90.87 HCA 57.30 SMA 96.95 ECC .59821 INC .8707 V1 29.743
RP 107.92 LAP -.73 LOP 63.92 VP 33.023 GAP -36.24 AZP 90.47 TAL 167.68 TAP 224.98 RCA 38.95 APO 154.94 V2 35.114
RC 63.722 GL -1.35 GP -4.76 ZAL 58.82 ZAP 24.30 ETS 166.03 ZAE 139.10 ETE 184.38 ZAC 19.13 ETC 93.66 CLP 23.86

PLANETOCENTRIC CONIC

C3 152.284 VHL 12.340 DLA -19.63 RAL 310.60 RAD 6570.7 VEL 16.541 PTH 2.88 VHP 21.181 DPA -28.84 RAP 267.12 ECC 3.5062

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 14 30	2025.53	-14.58	29.85	200.90	114.55	10 48 15	1425.5	-11.14	22.86
90.00	16 41 55	705.91	23.66	312.10	214.75	106.02	16 53 41	105.9	25.63	303.98
100.00	11 23 29	1802.90	-16.51	12.56	199.97	115.28	11 53 32	1202.9	-12.96	5.56
100.00	18 15 37	5691.81	25.71	268.42	215.39	105.81	19 50 29	5091.8	27.63	260.14
110.00	12 5 7	1672.41	-21.36	.13	197.43	117.34	12 33 0	1072.4	-17.53	353.10
110.00	19 50 28	5395.06	30.92	247.53	217.04	105.35	21 20 23	4795.1	32.72	238.77

DIFFERENTIAL CORRECTIONS

TDE -.5391 TRA-1.8586 TC3 -.1561 BAU .3181
RDE -.9374 RRA .4068 RC3 -.0079 FAU .01272
FDE .2792 FRA .8347 FC3 -.0723 BSP 2887
BDE 1.0814 BRA 1.9026 BC3 .1563 FSP -91

MID-COURSE EXECUTION ACCURACY

SGT 1024.9 SGR 479.6 SG3 40.3
RRT -.1369 RRF .1320 RTF -.7121
SGB 1131.6 R23 -.0081 R13 .7129
SG1 1027.6 SG2 473.9 THA 175.34

ORBIT DETERMINATION ACCURACY

ST 371.9 SR 439.4 SS 327.7
CRT .5656 CRS .6226 CST .9956
LSA 591.9 MSA 296.9 SSA 14.9
EL1 511.9 EL2 263.3 ALF 55.25

LAUNCH DATE SEP 30 1965 FLIGHT TIME 82.00 ARRIVAL DATE DEC 21 1965

HELIOCENTRIC CONIC DISTANCE 169.610

RL 149.81 LAL .00 LOL 6.63 VL 20.597 GAL 16.33 AZL 90.63 HCA 60.51 SMA 98.48 ECC .57372 INC .6263 V1 29.743
RP 107.89 LAP -.55 LOP 67.14 VP 33.358 GAP -34.63 AZP 90.31 TAL 166.99 TAP 227.50 RCA 41.98 APO 154.99 V2 35.126
RC 61.731 GL -1.05 GP -4.94 ZAL 57.79 ZAP 22.93 ETS 164.90 ZAE 139.70 ETE 185.27 ZAC 19.60 ETC 98.75 CLP 22.42

PLANETOCENTRIC CONIC

C3 139.051 VHL 11.792 DLA -19.06 RAL 311.57 RAD 6570.5 VEL 16.136 PTH 2.84 VHP 20.353 DPA -29.14 RAP 269.13 ECC 3.2884

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 12 12	2031.91	-14.76	30.24	200.73	114.44	10 46 4	1431.9	-11.34	23.23
90.00	16 51 59	666.25	24.38	309.41	214.42	104.86	17 3 6	66.3	26.19	301.21
100.00	11 21 49	1807.26	-16.63	12.82	199.83	115.20	11 51 56	1207.3	-13.10	5.81
100.00	18 25 3	5654.18	26.38	265.82	215.00	104.60	19 59 18	5054.2	28.12	257.46
110.00	12 4 40	1673.00	-21.38	.17	197.35	117.33	12 32 33	1073.0	-17.55	353.13
110.00	19 58 42	5361.20	31.51	245.07	216.50	104.00	21 28 3	4761.2	33.11	236.21

DIFFERENTIAL CORRECTIONS

TDE -.5482 TRA-1.8718 TC3 -.1636 BAU .3047
RDE -.8931 RRA .4066 RC3 -.0103 FAU .01291
FDE .2978 FRA .8655 FC3 -.0804 BSP 3081
BDE 1.0479 BRA 1.9155 BC3 .1639 FSP -100

MID-COURSE EXECUTION ACCURACY

SGT 1070.4 SGR 482.3 SG3 43.6
RRT -.1476 RRF .1430 RTF -.7283
SGB 1174.0 R23 -.0092 R13 .7292
SG1 1073.3 SG2 475.7 THA 175.26

ORBIT DETERMINATION ACCURACY

ST 392.9 SR 438.5 SS 346.3
CRT .5658 CRS .6301 CST .9951
LSA 612.7 MSA 301.7 SSA 15.1
EL1 522.2 EL2 272.1 ALF 50.49

LAUNCH DATE SEP 30 1965 FLIGHT TIME 84.00 ARRIVAL DATE DEC 23 1965

HELIOCENTRIC CONIC DISTANCE 175.884

RL 149.81 LAL .00 LOL 6.63 VL 21.089 GAL 15.61 AZL 90.40 HCA 63.73 SMA 100.01 ECC .54996 INC .3969 V1 29.743
RP 107.85 LAP -.36 LOP 70.36 VP 33.676 GAP -33.09 AZP 90.18 TAL 166.31 TAP 230.04 RCA 45.01 APO 155.01 V2 35.138
RC 59.781 GL -.72 GP -5.13 ZAL 56.80 ZAP 21.59 ETS 163.59 ZAE 140.40 ETE 186.27 ZAC 20.23 ETC 103.59 CLP 21.00

PLANETOCENTRIC CONIC

C3 127.007 VHL 11.270 DLA -18.48 RAL 312.48 RAD 6570.3 VEL 15.759 PTH 2.80 VHP 19.552 DPA -29.44 RAP 271.17 ECC 3.0902

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 9 36	2037.94	-14.93	30.60	200.46	114.34	10 43 34	1437.9	-11.52	23.58
90.00	17 1 50	625.64	25.06	306.63	213.94	103.63	17 12 15	25.6	26.69	298.34
100.00	11 19 50	1811.32	-16.75	13.07	199.59	115.13	11 50 1	1211.3	-13.23	6.05
100.00	18 34 17	5615.54	27.01	263.13	214.46	103.31	20 7 53	5015.5	28.58	254.67
110.00	12 3 52	1673.35	-21.39	.19	197.17	117.32	12 31 45	1073.4	-17.56	353.15
110.00	20 6 44	5326.27	32.05	242.49	215.79	102.57	21 35 31	4726.3	33.45	233.54

DIFFERENTIAL CORRECTIONS

TDE -.5590 TRA-1.8874 TC3 -.1716 BAU .2923
RDE -.8492 RRA .4058 RC3 -.0131 FAU .01311
FDE .3174 FRA .8976 FC3 -.0894 BSP 3217
BDE 1.0167 BRA 1.9306 BC3 .1721 FSP -109

MID-COURSE EXECUTION ACCURACY

SGT 1119.8 SGR 484.4 SG3 47.2
RRT -.1584 RRF .1549 RTF -.7436
SGB 1220.1 R23 -.0111 R13 .7445
SG1 1123.0 SG2 476.9 THA 175.22

ORBIT DETERMINATION ACCURACY

ST 416.0 SR 436.7 SS 365.9
CRT .5665 CRS .6370 CST .9945
LSA 635.6 MSA 305.5 SSA 15.3
EL1 534.0 EL2 280.3 ALF 47.45

LAUNCH DATE SEP 30 1965 FLIGHT TIME 86.00 ARRIVAL DATE DEC 25 1965

HELIOCENTRIC CONIC DISTANCE 182.227

RL	149.81	LAL	.00	LOL	6.63	VL	21.550	GAL	14.92	AZL	90.18	HCA	66.95	SMA	101.51	ECC	.52695	INC	.1797	VI	29.743
RP	107.81	LAP	-.17	LOP	73.58	VP	33.978	GAP	-31.62	AZP	90.07	TAL	165.67	TAP	232.62	RCA	48.02	APO	155.00	V2	35.149
RC	57.879	GL	-.35	GP	-5.34	ZAL	55.87	ZAP	20.27	ETS	162.08	ZAE	141.20	ETE	187.40	ZAC	21.03	ETC	108.14	CLP	19.59

PLANETOCENTRIC CONIC

C3	116.039	VHL	10.772	DLA	-17.87	RAL	313.32	RAD	6570.2	VEL	15.407	PTH	2.75	VHP	18.777	DPA	-29.72	RAP	273.24	ECC	2.9097

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 6 40	2043.69	-15.09	30.94	200.10	114.25	10 40 44	1443.7	-11.69	23.92
90.00	17 11 26	5872.09	25.70	281.66	213.29	102.32	18 49 19	5272.1	27.14	273.29
100.00	11 17 30	1815.16	-16.86	13.30	199.26	115.06	11 47 45	1215.2	-13.34	6.27
100.00	18 43 18	5575.85	27.60	260.32	213.75	101.95	20 16 14	4975.8	28.97	251.79
110.00	12 2 42	1673.53	-21.40	.20	196.90	117.32	12 30 36	1073.5	-17.57	353.16
110.00	20 14 35	5290.24	32.56	239.80	214.92	101.05	21 42 46	4690.2	33.74	230.76

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY				ORBIT DETERMINATION ACCURACY			
TDE	-.5668	TRA	-1.9002	TC3	-.1787	BAU	.2784	SGT	1169.1	SGR	485.8	SG3	51.0	ST	438.8	SR	433.9	SS	386.0
RDE	-.8058	RRA	.4044	RC3	-.0165	FAU	.01336	RRT	-.1709	RRF	.1680	RTF	-.7585	CRT	.5653	CRS	.6427	CST	.9938
FDE	.3375	FRA	.9306	FC3	-.0997	BSP	3414	SGB	1266.0	R23	-.0127	R13	.7594	LSA	659.1	MSA	308.6	SSA	15.4
BDE	.9852	BRA	1.9428	BC3	.1794	FSP	-120	SGI	1172.6	SG2	477.2	THA	175.13	ELI	546.0	EL2	287.7	ALF	44.44

LAUNCH DATE SEP 30 1965 FLIGHT TIME 88.00 ARRIVAL DATE DEC 27 1965

HELIOCENTRIC CONIC DISTANCE 188.635

RL	149.81	LAL	.00	LOL	6.63	VL	21.982	GAL	14.26	AZL	89.97	HCA	70.17	SMA	102.99	ECC	.50473	INC	.0242	VI	29.743
RP	107.78	LAP	.03	LOP	76.80	VP	34.265	GAP	-30.21	AZP	89.99	TAL	165.05	TAP	235.23	RCA	51.01	APO	154.97	V2	35.160
RC	56.028	GL	.06	GP	-5.57	ZAL	54.99	ZAP	18.99	ETS	160.31	ZAE	142.11	ETE	188.68	ZAC	21.96	ETC	112.34	CLP	18.18

PLANETOCENTRIC CONIC

C3	106.052	VHL	10.298	DLA	-17.24	RAL	314.09	RAD	6570.0	VEL	15.080	PTH	2.71	VHP	18.028	DPA	-30.00	RAP	275.33	ECC	2.7454

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 3 24	2049.28	-15.24	31.28	199.64	114.15	10 37 34	1449.3	-11.86	24.24
90.00	17 20 51	5829.47	26.28	278.67	212.49	100.94	18 58 0	5229.5	27.53	270.23
100.00	11 14 48	1818.89	-16.97	13.52	198.82	114.99	11 45 7	1218.9	-13.46	6.49
100.00	18 52 8	5535.09	28.14	257.42	212.89	100.51	20 24 23	4935.1	29.31	248.81
110.00	12 1 10	1673.63	-21.40	.20	196.52	117.32	12 29 4	1073.6	-17.57	353.17
110.00	20 22 16	5253.12	33.01	237.00	213.88	99.45	21 49 49	4653.1	33.96	227.89

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY				ORBIT DETERMINATION ACCURACY			
TDE	-.5738	TRA	-1.9124	TC3	-.1853	BAU	.2642	SGT	1220.1	SGR	486.7	SG3	55.2	ST	462.4	SR	430.3	SS	407.0
RDE	-.7629	RRA	.4024	RC3	-.0204	FAU	.01363	RRT	-.1846	RRF	.1825	RTF	-.7727	CRT	.5632	CRS	.6475	CST	.9930
FDE	.3585	FRA	.9649	FC3	-.1113	BSP	3615	SGB	1313.6	R23	-.0144	R13	.7737	LSA	683.9	MSA	310.8	SSA	15.6
BDE	.9546	BRA	1.9543	BC3	.1864	FSP	-132	SGI	1224.0	SG2	476.8	THA	175.03	ELI	558.9	EL2	294.1	ALF	41.36

LAUNCH DATE SEP 30 1965 FLIGHT TIME 90.00 ARRIVAL DATE DEC 29 1965

HELIOCENTRIC CONIC DISTANCE 195.101

RL	149.81	LAL	.00	LOL	6.63	VL	22.386	GAL	13.61	AZL	89.77	HCA	73.40	SMA	104.45	ECC	.48331	INC	.2258	VI	29.743
RP	107.75	LAP	.22	LOP	80.03	VP	34.537	GAP	-28.85	AZP	89.94	TAL	164.47	TAP	237.87	RCA	53.97	APO	154.93	V2	35.171
RC	54.237	GL	.50	GP	-5.82	ZAL	54.16	ZAP	17.74	ETS	158.22	ZAE	143.12	ETE	190.14	ZAC	23.02	ETC	116.19	CLP	16.78

PLANETOCENTRIC CONIC

C3	96.960	VHL	9.847	DLA	-16.59	RAL	314.79	RAD	6569.9	VEL	14.775	PTH	2.67	VHP	17.302	DPA	-30.27	RAP	277.43	ECC	2.5957

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 59 46	2054.82	-15.40	31.61	199.09	114.06	10 34 1	1454.8	-12.02	24.57
90.00	17 30 4	5785.80	26.81	275.59	211.53	99.47	19 6 30	5185.8	27.85	267.07
100.00	11 11 44	1822.61	-17.07	13.75	198.29	114.91	11 42 7	1222.6	-13.57	6.70
100.00	19 0 47	5493.25	28.63	254.40	211.86	99.00	20 32 20	4893.2	29.57	245.72
110.00	11 59 15	1673.75	-21.40	.21	196.05	117.31	12 27 9	1073.7	-17.57	353.18
110.00	20 29 46	5214.87	33.40	234.08	212.68	97.76	21 56 40	4614.9	34.11	224.91

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY				ORBIT DETERMINATION ACCURACY			
TDE	-.5799	TRA	-1.9238	TC3	-.1911	BAU	.2498	SGT	1272.7	SGR	487.0	SG3	59.8	ST	486.6	SR	425.6	SS	428.8
RDE	-.7206	RRA	.4001	RC3	-.0250	FAU	.01394	RRT	-.1996	RRF	.1984	RTF	-.7863	CRT	.5600	CRS	.6515	CST	.9922
FDE	.3805	FRA	1.0007	FC3	-.1245	BSP	3827	SGB	1362.7	R23	-.0163	R13	.7873	LSA	710.0	MSA	312.2	SSA	15.7
BDE	.9249	BRA	1.9649	BC3	.1927	FSP	-145	SGI	1277.0	SG2	475.6	THA	174.93	ELI	572.9	EL2	299.5	ALF	38.25

LAUNCH DATE SEP 30 1965 FLIGHT TIME 92.00 ARRIVAL DATE DEC 31 1965

HELIOCENTRIC CONIC DISTANCE 201.621

RL	149.81	LAL	.00	LOL	6.63	VL	22.765	GAL	13.00	AZL	89.58	HCA	76.63	SMA	105.87	ECC	.46271	INC	.4184	VI	29.743
RP	107.72	LAP	.41	LOP	83.26	VP	34.794	GAP	-27.55	AZP	89.90	TAL	163.92	TAP	240.54	RCA	56.88	APO	154.86	V2	35.181
RC	52.511	GL	.99	GP	-6.09	ZAL	53.39	ZAP	16.53	ETS	155.75	ZAE	144.23	ETE	191.81	ZAC	24.21	ETC	119.68	CLP	15.39

PLANETOCENTRIC CONIC

C3	88.684	VHL	9.417	DLA	-15.90	RAL	315.42	RAD	6569.7	VEL	14.492	PTH	2.63	VHP	16.600	DPA	-30.54	RAP	279.55	ECC	2.4595

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 55 45	2060.48	-15.56	31.95	198.44	113.96	10 30 5	1460.5	-12.19	24.90
90.00	17 39 7	5741.04	27.27	272.39	210.42	97.94	19 14 48	5141.0	28.09	263.82
100.00	11 8 16	1826.47	-17.18	13.98	197.67	114.84	11 38 43	1226.5	-13.69	6.93
100.00	19 9 17	5450.28	29.04	251.27	210.69	97.40	20 40 7	4850.3	29.76	242.54
110.00	11 56 56	1674.01	-21.41	.23	195.48	117.31	12 24 50	1074.0	-17.58	353.19
110.00	20 37 6	5175.50	33.72	231.05	211.33	96.00	22 3 22	4575.5	34.18	221.84

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY				ORBIT DETERMINATION ACCURACY			
TDE	-.5882	TRA	-1.9370	TC3	-.1974	BAU	.2368	SGT	1329.7	SGR	486.8	SG3	64.7	ST	513.2	SR	419.8	SS	452.0
RDE	-.6787	RRA	.3976	RC3	-.0302	FAU	.01427	RRT	-.2152	RRF	.2158	RTF	-.7989	CRT	.5573	CRS	.6547	CST	.9914
FDE	.4040	FRA	1.0385	FC3	-.1393	BSP	3976	SGB	1416.0	R23	-.0194	R13	.7999	LSA	738.9	MSA	312.5	SSA	15.9
BDE	.8981	BRA	1.9774	BC3	.1997	FSP	-158	SGI	1334.4	SG2	473.8	THA	174.84	ELI	589.5	EL2	303.4	ALF	35.03

LAUNCH DATE SEP 30 1965 FLIGHT TIME 94.00 ARRIVAL DATE JAN 2 1966

HELIOCENTRIC CONIC DISTANCE 208.190

RL 149.81 LAL .00 LOL 6.63 VL 23.120 GAL 12.40 AZL 89.39 HCA 79.86 SMA 107.26 ECC .44294 INC .6059 V1 29.743
RP 107.69 LAP .60 LOP 86.48 VP 35.037 GAP -26.29 AZP 89.89 TAL 163.40 TAP 243.25 RCA 59.75 APO 154.78 V2 35.191
RC 50.858 GL 1.52 GP -6.39 ZAL 52.68 ZAP 15.36 ETS 152.81 ZAE 145.45 ETE 193.73 ZAC 25.49 ETC 122.82 CLP 14.00

PLANETOCENTRIC CONIC

C3 81.153 VHL 9.009 DLA -15.19 RAL 315.98 RAD 6569.6 VEL 14.230 PTH 2.59 VHP 15.921 DPA -30.80 RAP 281.69 ECC 2.3356

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 51 18	2066.40	-15.72	32.31	197.71	113.86	10 25 45	1466.4	-12.36	25.24
90.00	17 48 1	5695.15	27.66	269.09	209.16	96.32	19 22 57	5095.2	28.25	260.47
100.00	11 4 23	1830.62	-17.30	14.23	196.97	114.76	11 34 53	1230.6	-13.82	7.17
100.00	19 17 38	5406.17	29.39	248.04	209.36	95.73	20 47 44	4806.2	29.87	233.27
110.00	11 54 12	1674.56	-21.43	.26	194.83	117.29	12 22 6	1074.6	-17.60	353.22
110.00	20 44 18	5134.98	33.96	227.91	209.83	94.15	22 9 53	4535.0	34.16	218.67

DIFFERENTIAL CORRECTIONS

TDE -.5935 TRA-1.9470 TC3 -.2019 BAU .2225
RDE -.6374 RRA .3949 RC3 -.0363 FAU .01464
FDE .4286 FRA 1.0778 FC3 -.1562 BSP 4188
BDE .8709 BRA 1.9866 BC3 .2051 FSP -173

MID-COURSE EXECUTION ACCURACY

SGT 1386.1 SGR 486.2 SG3 70.1
RRT -.2332 RRF .2352 RTF -.8111
SGB 1468.9 R23 -.0220 R13 .8122
SG1 1391.3 SG2 471.0 THA 174.72

ORBIT DETERMINATION ACCURACY

ST 539.2 SR 412.9 SS 476.1
CRT .5524 CRS .6568 CST .9903
LSA 768.2 MSA 312.1 SSA 16.0
EL1 606.2 EL2 306.1 ALF 31.97

LAUNCH DATE SEP 30 1965 FLIGHT TIME 96.00 ARRIVAL DATE JAN 4 1966

HELIOCENTRIC CONIC DISTANCE 214.801

RL 149.81 LAL .00 LOL 6.63 VL 23.451 GAL 11.83 AZL 89.21 HCA 83.09 SMA 108.62 ECC .42400 INC .7898 V1 29.743
RP 107.66 LAP .78 LOP 89.72 VP 35.266 GAP -25.08 AZP 89.91 TAL 162.91 TAP 246.00 RCA 62.56 APO 154.68 V2 35.200
RC 49.288 GL 2.10 GP -6.72 ZAL 52.03 ZAP 14.27 ETS 149.29 ZAE 146.75 ETE 195.96 ZAC 26.87 ETC 125.63 CLP 12.61

PLANETOCENTRIC CONIC

C3 74.306 VHL 8.620 DLA -14.43 RAL 316.46 RAD 6569.4 VEL 13.988 PTH 2.55 VHP 15.264 DPA -31.07 RAP 283.84 ECC 2.2229

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 46 25	2072.78	-15.89	32.70	196.90	113.75	10 20 58	1472.8	-12.55	25.62
90.00	17 56 48	5648.10	27.97	265.68	207.75	94.64	19 30 56	5048.1	28.31	257.03
100.00	11 0 2	1835.23	-17.43	14.51	196.18	114.67	11 30 38	1235.2	-13.96	7.44
100.00	19 25 52	5360.88	29.65	244.70	207.90	93.99	20 55 13	4760.9	29.89	235.90
110.00	11 51 1	1675.57	-21.46	.32	194.10	117.27	12 18 56	1075.6	-17.63	353.28
110.00	20 51 23	5093.32	34.12	224.67	208.18	92.24	22 16 16	4493.3	34.05	215.42

DIFFERENTIAL CORRECTIONS

TDE -.5981 TRA-1.9558 TC3 -.2050 BAU .2081
RDE -.5967 RRA .3923 RC3 -.0433 FAU .01506
FDE .4546 FRA 1.1191 FC3 -.1755 BSP 4407
BDE .8448 BRA 1.9948 BC3 .2095 FSP -190

MID-COURSE EXECUTION ACCURACY

SGT 1443.9 SGR 485.2 SG3 76.0
RRT -.2532 RRF .2569 RTF -.8227
SGB 1523.2 R23 -.0250 R13 .8239
SG1 1449.7 SG2 467.5 THA 174.57

ORBIT DETERMINATION ACCURACY

ST 566.0 SR 404.8 SS 501.3
CRT .5464 CRS .6578 CST .9893
LSA 799.1 MSA 310.8 SSA 16.1
EL1 624.2 EL2 307.4 ALF 28.99

LAUNCH DATE SEP 30 1965 FLIGHT TIME 98.00 ARRIVAL DATE JAN 6 1966

HELIOCENTRIC CONIC DISTANCE 221.451

RL 149.81 LAL .00 LOL 6.63 VL 23.762 GAL 11.28 AZL 89.03 HCA 86.32 SMA 109.94 ECC .40590 INC .9712 V1 29.743
RP 107.63 LAP .97 LOP 92.95 VP 35.481 GAP -23.92 AZP 89.94 TAL 162.47 TAP 248.79 RCA 65.31 APO 154.56 V2 35.209
RC 47.809 GL 2.74 GP -7.09 ZAL 51.44 ZAP 13.25 ETS 145.07 ZAE 148.14 ETE 198.55 ZAC 28.32 ETC 128.14 CLP 11.22

PLANETOCENTRIC CONIC

C3 68.084 VHL 8.251 DLA -13.64 RAL 316.88 RAD 6569.3 VEL 13.764 PTH 2.51 VHP 14.628 DPA -31.34 RAP 286.00 ECC 2.1205

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 41 3	2079.83	-16.09	33.13	196.01	113.62	10 15 42	1479.8	-12.76	26.03
90.00	18 5 29	5599.86	28.18	262.17	206.21	92.89	19 38 49	4999.9	28.28	253.50
100.00	10 55 13	1840.52	-17.58	14.83	195.31	114.57	11 25 53	1240.5	-14.12	7.75
100.00	19 33 59	5314.40	29.82	241.25	206.30	92.19	21 2 34	4714.4	29.80	232.45
110.00	11 47 22	1677.20	-21.51	.42	193.29	117.23	12 15 19	1077.2	-17.69	353.38
110.00	20 58 20	5050.48	34.18	221.32	206.41	90.26	22 22 31	4450.5	33.84	212.09

DIFFERENTIAL CORRECTIONS

TDE -.6022 TRA-1.9637 TC3 -.2067 BAU .1939
RDE -.5565 RRA .3899 RC3 -.0514 FAU .01552
FDE .4824 FRA 1.1626 FC3 -.1974 BSP 4627
BDE .8200 BRA 2.0020 BC3 .2130 FSP -209

MID-COURSE EXECUTION ACCURACY

SGT 1503.3 SGR 483.9 SG3 82.3
RRT -.2755 RRF .2810 RTF -.8337
SGB 1579.3 R23 -.0284 R13 .8350
SG1 1509.9 SG2 463.1 THA 174.41

ORBIT DETERMINATION ACCURACY

ST 593.4 SR 395.4 SS 527.8
CRT .5389 CRS .6577 CST .9881
LSA 831.6 MSA 308.7 SSA 16.2
EL1 643.5 EL2 307.1 ALF 26.12

LAUNCH DATE SEP 30 1965 FLIGHT TIME 100.00 ARRIVAL DATE JAN 8 1966

HELIOCENTRIC CONIC DISTANCE 228.136

RL 149.81 LAL .00 LOL 6.63 VL 24.052 GAL 10.75 AZL 88.85 HCA 89.55 SMA 111.22 ECC .38862 INC 1.1515 V1 29.743
RP 107.61 LAP 1.15 LOP 96.18 VP 35.684 GAP -22.80 AZP 89.99 TAL 162.06 TAP 251.62 RCA 68.00 APO 154.44 V2 35.217
RC 46.433 GL 3.45 GP -7.49 ZAL 50.91 ZAP 12.33 ETS 140.03 ZAE 149.59 ETE 201.59 ZAC 29.85 ETC 130.37 CLP 9.82

PLANETOCENTRIC CONIC

C3 62.437 VHL 7.902 DLA -12.81 RAL 317.22 RAD 6569.2 VEL 13.557 PTH 2.48 VHP 14.014 DPA -31.63 RAP 288.17 ECC 2.0276

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 35 9	2087.78	-16.30	33.61	195.05	113.48	10 9 57	1487.8	-12.99	26.50
90.00	18 14 5	5550.37	28.30	258.55	204.55	91.08	19 46 35	4950.4	28.15	249.89
100.00	10 49 53	1846.70	-17.76	15.21	194.37	114.45	11 20 39	1246.7	-14.31	8.11
100.00	19 42 3	5266.68	29.89	237.71	204.57	90.32	21 9 49	4666.7	29.62	228.91
110.00	11 43 12	1679.69	-21.59	.57	192.41	117.17	12 11 12	1079.7	-17.77	353.52
110.00	21 5 12	5006.46	34.14	217.89	204.51	88.23	22 28 39	4406.5	33.52	208.70

DIFFERENTIAL CORRECTIONS

TDE -.6060 TRA-1.9703 TC3 -.2067 BAU .1798
RDE -.5168 RRA .3878 RC3 -.0606 FAU .01603
FDE .5122 FRA 1.2086 FC3 -.2223 BSP 4858
BDE .7964 BRA 2.0081 BC3 .2154 FSP -229

MID-COURSE EXECUTION ACCURACY

SGT 1564.1 SGR 482.5 SG3 89.3
RRT -.3002 RRF .3080 RTF -.8441
SGB 1636.8 R23 -.0323 R13 .8455
SG1 1571.4 SG2 458.1 THA 174.22

ORBIT DETERMINATION ACCURACY

ST 621.6 SR 384.6 SS 555.8
CRT .5298 CRS .6560 CST .9869
LSA 865.8 MSA 305.7 SSA 16.3
EL1 664.1 EL2 305.3 ALF 23.37

LAUNCH DATE SEP 30 1965 FLIGHT TIME 102.00 ARRIVAL DATE JAN 10 1966

DISTANCE 234.849

HELIOCENTRIC CONIC

RL	149.81	LAL	.00	LOL	6.63	VL	24.323	GAL	10.24	AZL	88.67	HCA	92.79	SMA	112.45	ECC	.37216	INC	1.3317	V1	29.743
RP	107.58	LAP	1.33	LOP	99.42	VP	35.875	GAP	-21.71	AZP	90.06	TAL	161.70	TAP	254.49	RCA	70.60	APO	154.30	V2	35.224
RC	45.168	GL	4.21	GP	-7.94	ZAL	50.44	ZAP	11.55	ETS	134.05	ZAE	151.06	ETE	205.16	ZAC	31.44	ETC	132.34	CLP	8.42

PLANETOCENTRIC CONIC

C3	57.318	VHL	7.571	DLA	-11.93	RAL	317.48	RAD	6569.0	VEL	13.367	PTH	2.44	VHP	13.420	DPA	-31.92	RAP	290.35	ECC	1.9433

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 28 43	2096.87	-16.55	34.16	194.03	113.31	10 3 40	1496.9	-13.25	27.04
90.00	18 22 38	5499.61	28.31	254.84	202.77	89.22	19 54 18	4899.6	27.90	246.20
100.00	10 43 59	1854.02	-17.96	15.66	193.37	114.30	11 14 53	1254.0	-14.53	8.54
100.00	19 50 3	5217.70	29.85	234.07	202.73	88.41	21 17 1	4617.7	29.31	225.31
110.00	11 38 31	1683.24	-21.70	.79	191.47	117.09	12 6 34	1083.2	-17.89	353.73
110.00	21 12 0	4961.24	33.99	214.36	202.50	86.15	22 34 42	4361.2	33.08	205.24

DIFFERENTIAL CORRECTIONS

TDE	-.6097	TRA	-1.9758	TC3	-.2048	BAU	.1662
RDE	-.4775	RRA	.3864	RC3	-.0712	FAU	.01660
FDE	.5444	FRA	1.2574	FC3	-.2507	BSP	5085
BDE	.7745	BRA	2.0133	BC3	.2168	FSP	-251

MID-COURSE EXECUTION ACCURACY

SGT	1626.3	SGR	481.2	SG3	97.0		
RRT	-.3278	RRF	.3382	RTF	-.8540		
SGB	1696.0	R23	-.0368	R13	.8554		
SG1	1634.5	SG2	452.3	THA	174.00		

ORBIT DETERMINATION ACCURACY

ST	650.5	SR	372.4	SS	585.6
CRT	.5188	CRS	.6526	CST	.9856
LSA	901.9	MSA	301.8	SSA	16.4
EL1	686.1	EL2	301.8	ALF	20.73

LAUNCH DATE SEP 30 1965 FLIGHT TIME 104.00 ARRIVAL DATE JAN 12 1966

DISTANCE 241.588

HELIOCENTRIC CONIC

RL	149.81	LAL	.00	LOL	6.63	VL	24.576	GAL	9.76	AZL	88.49	HCA	96.03	SMA	113.64	ECC	.35651	INC	1.5129	V1	29.743
RP	107.56	LAP	1.50	LOP	102.66	VP	36.053	GAP	-20.67	AZP	90.16	TAL	161.37	TAP	257.40	RCA	73.13	APO	154.16	V2	35.231
RC	44.025	GL	5.05	GP	-8.43	ZAL	50.05	ZAP	10.95	ETS	127.09	ZAE	152.53	ETE	209.37	ZAC	33.09	ETC	134.08	CLP	7.01

PLANETOCENTRIC CONIC

C3	52.685	VHL	7.258	DLA	-10.99	RAL	317.67	RAD	6568.9	VEL	13.193	PTH	2.41	VHP	12.847	DPA	-32.24	RAP	292.54	ECC	1.8671

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 21 40	2107.40	-16.83	34.81	192.95	113.11	9 56 48	1507.4	-13.56	27.66
90.00	18 31 11	5447.51	28.20	251.03	200.88	87.32	20 1 58	4847.5	27.53	242.43
100.00	10 37 30	1862.74	-18.21	16.19	192.32	114.12	11 8 33	1262.7	-14.80	9.06
100.00	19 58 2	5167.40	29.70	230.34	200.79	86.45	21 24 9	4567.4	28.89	221.63
110.00	11 33 16	1688.12	-21.85	1.09	190.47	116.97	12 1 24	1088.1	-18.06	354.01
110.00	21 18 46	4914.79	33.72	210.76	200.40	84.03	22 40 40	4314.8	32.53	201.73

DIFFERENTIAL CORRECTIONS

TDE	-.6133	TRA	-1.9803	TC3	-.2009	BAU	.1531
RDE	-.4386	RRA	.3857	RC3	-.0832	FAU	.01721
FDE	.5794	FRA	1.3092	FC3	-.2828	BSP	5318
BDE	.7540	BRA	2.0175	BC3	.2174	FSP	-276

MID-COURSE EXECUTION ACCURACY

SGT	1689.7	SGR	480.2	SG3	105.3		
RRT	-.3586	RRF	.3718	RTF	-.8633		
SGB	1756.6	R23	-.0419	R13	.8648		
SG1	1699.1	SG2	445.8	THA	173.75		

ORBIT DETERMINATION ACCURACY

ST	680.2	SR	358.5	SS	617.1
CRT	.5052	CRS	.6468	CST	.9842
LSA	939.9	MSA	297.2	SSA	16.5
EL1	709.3	EL2	296.7	ALF	18.20

LAUNCH DATE SEP 30 1965 FLIGHT TIME 106.00 ARRIVAL DATE JAN 14 1966

DISTANCE 248.348

HELIOCENTRIC CONIC

RL	149.81	LAL	.00	LOL	6.63	VL	24.812	GAL	9.29	AZL	88.30	HCA	99.27	SMA	114.79	ECC	.34165	INC	1.6963	V1	29.743
RP	107.55	LAP	1.67	LOP	105.90	VP	36.220	GAP	-19.66	AZP	90.27	TAL	161.09	TAP	260.36	RCA	75.57	APO	154.00	V2	35.237
RC	43.015	GL	5.97	GP	-8.99	ZAL	49.73	ZAP	10.57	ETS	119.23	ZAE	153.92	ETE	214.31	ZAC	34.79	ETC	135.60	CLP	5.59

PLANETOCENTRIC CONIC

C3	48.499	VHL	6.964	DLA	-9.99	RAL	317.78	RAD	6568.8	VEL	13.033	PTH	2.38	VHP	12.294	DPA	-32.58	RAP	294.73	ECC	1.7982

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 13 59	2119.66	-17.16	35.56	191.83	112.88	9 49 19	1519.7	-13.91	28.39
90.00	18 39 45	5394.03	27.97	247.14	198.91	85.38	20 9 39	4794.0	27.03	238.60
100.00	10 30 23	1873.16	-18.50	16.83	191.22	113.91	11 1 37	1273.2	-15.11	9.67
100.00	20 6 2	5115.75	29.42	226.52	198.77	84.46	21 31 18	4515.8	28.34	217.89
110.00	11 27 25	1694.59	-22.05	1.48	189.42	116.81	11 55 40	1094.6	-18.27	354.39
110.00	21 25 30	4867.09	33.32	207.10	198.22	81.90	22 46 37	4267.1	31.85	198.18

DIFFERENTIAL CORRECTIONS

TDE	-.6172	TRA	-1.9835	TC3	-.1943	BAU	.1408
RDE	-.3999	RRA	.3860	RC3	-.0968	FAU	.01788
FDE	.6177	FRA	1.3646	FC3	-.3192	BSP	5546
BDE	.7354	BRA	2.0207	BC3	.2171	FSP	-302

MID-COURSE EXECUTION ACCURACY

SGT	1754.1	SGR	480.0	SG3	114.5		
RRT	-.3929	RRF	.4094	RTF	-.8720		
SGB	1818.6	R23	-.0477	R13	.8738		
SG1	1764.9	SG2	438.7	THA	173.46		

ORBIT DETERMINATION ACCURACY

ST	710.7	SR	342.9	SS	650.8
CRT	.4883	CRS	.6380	CST	.9829
LSA	980.2	MSA	291.7	SSA	16.6
EL1	734.0	EL2	289.8	ALF	15.78

LAUNCH DATE SEP 30 1965 FLIGHT TIME 108.00 ARRIVAL DATE JAN 16 1966

DISTANCE 255.124

HELIOCENTRIC CONIC

RL	149.81	LAL	.00	LOL	6.63	VL	25.032	GAL	8.85	AZL	88.12	HCA	102.51	SMA	115.89	ECC	.32757	INC	1.8833	V1	29.743
RP	107.53	LAP	1.84	LOP	109.14	VP	36.376	GAP	-18.69	AZP	90.41	TAL	160.85	TAP	263.35	RCA	77.93	APO	153.85	V2	35.242
RC	42.147	GL	6.98	GP	-9.60	ZAL	49.48	ZAP	10.43	ETS	110.73	ZAE	155.17	ETE	220.08	ZAC	36.54	ETC	136.93	CLP	4.15

PLANETOCENTRIC CONIC

C3	44.726	VHL	6.688	DLA	-8.93	RAL	317.81	RAD	6568.7	VEL	12.888	PTH	2.35	VHP	11.760	DPA	-32.96	RAP	296.93	ECC	1.7361

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 5 36	2133.99	-17.53	36.44	190.67	112.60	9 41 10	1534.0	-14.32	29.24
90.00	18 48 23	5339.08	27.60	243.16	196.87	83.41	20 17 22	4739.1	26.40	234.70
100.00	10 22 35	1885.61	-18.84	17.59	190.08	113.65	10 54 1	1285.6	-15.48	10.41
100.00	20 14 5	5062.69	29.01	222.63	196.67	82.45	21 38 28	4462.7	27.66	214.09
110.00	11 20 55	1702.97	-22.30	2.00	188.34	116.60	11 49 18	1103.0	-18.55	354.87
110.00	21 32 14	4818.09	32.79	203.37	195.98	79.75	22 52 33	4218.1	31.03	194.59

DIFFERENTIAL CORRECTIONS

TDE	-.6214	TRA	-1.9854	TC3	-.1848	BAU	.1293
RDE	-.3611	RRA	.3876	RC3	-.1122	FAU	.01862
FDE	.6597	FRA	1.4235	FC3	-.3604	BSP	5781
BDE	.7187	BRA	2.0229	BC3	.2162	FSP	-332

MID-COURSE EXECUTION ACCURACY

SGT	1819.1	SGR	480.9	SG3	124.5		
RRT	-.4309	RRF	.4510	RTF	-.8803		
SGB	1881.6	R23	-.0543	R13	.8822		
SG1	1831.5	SG2	431.0	THA	173.12		

ORBIT DETERMINATION ACCURACY

ST	741.8	SR	325.4	SS	686.8
CRT	.4666	CRS	.6249	CST	.9815
LSA	1022.8	MSA	285.5	SSA	16.7
EL1	759.7	EL2	281.0	ALF	13.44

LAUNCH DATE SEP 30 1965 FLIGHT TIME 110.00 ARRIVAL DATE JAN 18 1966

HELIOCENTRIC CONIC DISTANCE 261.914

RL	149.81	LAL	.00	LOL	6.63	VL	25.237	GAL	8.42	AZL	87.92	HCA	105.75	SMA	116.94	ECC	.31426	INC	2.0750	VI	29.743
RP	107.51	LAP	2.00	LOP	112.38	VP	36.522	GAP	-17.74	AZP	90.56	TAL	160.65	TAP	266.39	RCA	80.19	APO	153.69	V2	35.247
RC	41.430	GL	8.08	GP	-10.28	ZAL	49.32	ZAP	10.63	ETS	102.04	ZAE	156.20	ETE	226.70	ZAC	38.34	ETC	138.08	CLP	2.69

PLANETOCENTRIC CONIC

C3 41.335 VHL 6.429 DLA -7.79 RAL 317.76 RAD 6568.6 VEL 12.755 PTH 2.32 VHP 11.247 DPA -33.39 RAP 299.13 ECC 1.6803

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 56 27	2150.75	-17.97	37.48	189.48	112.26	9 32 18	1550.8	-14.80	30.24
90.00	18 57 8	5282.60	27.10	239.10	194.77	81.44	20 25 10	4682.6	25.63	230.74
100.00	10 14 2	1900.44	-19.24	18.51	188.92	113.33	10 45 43	1300.4	-15.92	11.29
100.00	20 22 13	5008.14	28.46	218.67	194.52	80.44	21 45 41	4408.1	26.84	210.24
110.00	11 13 43	1713.58	-22.63	2.65	187.24	116.33	11 42 17	1113.6	-18.90	355.50
110.00	21 39 2	4767.76	32.12	199.60	193.70	77.62	22 58 30	4167.8	30.08	190.98

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-.6265	TRA	-1.9864	TC3	-.1727	BAU	.1193	SGT	1885.0	SGR	483.6	SG3	135.5	ST	774.0	SR	306.0	SS	725.5
RDE	-.3222	RRA	.3908	RC3	-.1296	FAU	.01942	RRT	-.4726	RRF	.4967	RTF	-.8881	CRT	.4384	CRS	.6057	CST	.9801
FDE	.7063	FRA	1.4868	FC3	-.4068	BSP	6016	SGB	1946.0	R23	-.0621	R13	.8902	LSA	1068.2	MSA	278.6	SSA	16.7
BDE	.7045	BRA	2.0244	BC3	.2159	FSP	-364	SG1	1899.5	SG2	422.9	THA	172.72	EL1	787.1	EL2	270.4	ALF	11.17

LAUNCH DATE SEP 30 1965 FLIGHT TIME 112.00 ARRIVAL DATE JAN 20 1966

HELIOCENTRIC CONIC DISTANCE 268.714

RL	149.81	LAL	.00	LOL	6.63	VL	25.427	GAL	8.01	AZL	87.73	HCA	108.99	SMA	117.94	ECC	.30169	INC	2.2731	VI	29.743
RP	107.50	LAP	2.15	LOP	115.63	VP	36.658	GAP	-16.83	AZP	90.74	TAL	160.49	TAP	269.48	RCA	82.36	APO	153.52	V2	35.251
RC	40.873	GL	9.29	GP	-11.05	ZAL	49.24	ZAP	11.12	ETS	93.65	ZAE	156.90	ETE	234.10	ZAC	40.17	ETC	139.07	CLP	1.21

PLANETOCENTRIC CONIC

C3 38.299 VHL 6.189 DLA -6.57 RAL 317.63 RAD 6568.5 VEL 12.636 PTH 2.29 VHP 10.753 DPA -33.87 RAP 301.33 ECC 1.6303

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 46 29	2170.34	-18.47	38.70	188.28	111.85	9 22 39	1570.3	-15.34	31.42
90.00	19 6 2	5224.48	26.44	234.98	192.63	79.47	20 33 6	4624.5	24.72	226.73
100.00	10 4 42	1918.02	-19.71	19.61	187.74	112.94	10 36 40	1318.0	-16.44	12.34
100.00	20 30 30	4952.02	27.76	214.65	192.34	78.43	21 53 2	4352.0	25.88	206.35
110.00	11 5 47	1726.77	-23.02	3.47	186.12	115.99	11 34 33	1126.8	-19.34	356.27
110.00	21 45 54	4716.04	31.30	195.79	191.40	75.50	23 4 30	4116.0	28.99	187.35

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-.6322	TRA	-1.9860	TC3	-.1568	BAU	.1108	SGT	1950.9	SGR	488.8	SG3	147.5	ST	806.8	SR	284.4	SS	767.1
RDE	-.2828	RRA	.3961	RC3	-.1492	FAU	.02030	RRT	-.5181	RRF	.5463	RTF	-.8954	CRT	.4002	CRS	.5774	CST	.9788
FDE	.7580	FRA	1.5544	FC3	-.4588	BSP	6227	SGB	2011.2	R23	-.0707	R13	.8978	LSA	1116.4	MSA	271.2	SSA	16.7
BDE	.6926	BRA	2.0251	BC3	.2165	FSP	-400	SG1	1968.0	SG2	414.4	THA	172.26	EL1	815.7	EL2	257.8	ALF	8.93

LAUNCH DATE SEP 30 1965 FLIGHT TIME 114.00 ARRIVAL DATE JAN 22 1966

HELIOCENTRIC CONIC DISTANCE 275.520

RL	149.81	LAL	.00	LOL	6.63	VL	25.604	GAL	7.63	AZL	87.52	HCA	112.23	SMA	118.90	ECC	.28985	INC	2.4790	VI	29.743
RP	107.49	LAP	2.29	LOP	118.87	VP	36.784	GAP	-15.95	AZP	90.94	TAL	160.38	TAP	272.60	RCA	84.43	APO	153.36	V2	35.254
RC	40.482	GL	10.60	GP	-11.92	ZAL	49.26	ZAP	11.92	ETS	86.01	ZAE	157.18	ETE	242.06	ZAC	42.05	ETC	139.90	CLP	-.29

PLANETOCENTRIC CONIC

C3 35.594 VHL 5.966 DLA -5.26 RAL 317.41 RAD 6568.4 VEL 12.529 PTH 2.27 VHP 10.279 DPA -34.42 RAP 303.55 ECC 1.5858

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 35 37	2193.18	-19.04	40.13	187.09	111.36	9 12 10	1593.2	-15.97	32.80
90.00	19 15 9	5164.61	25.63	230.78	190.47	77.52	20 41 14	4564.6	23.65	222.67
100.00	9 54 29	1938.79	-20.26	20.91	186.57	112.46	10 26 47	1338.8	-17.04	13.59
100.00	20 38 59	4894.24	26.90	210.57	190.14	76.45	22 0 33	4294.2	24.77	202.42
110.00	10 57 2	1742.93	-23.50	4.48	185.01	115.57	11 26 5	1142.9	-19.86	357.23
110.00	21 52 54	4662.86	30.33	191.95	189.09	73.42	23 10 37	4062.9	27.76	183.70

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-.6384	TRA	-1.9841	TC3	-.1369	BAU	.1043	SGT	2015.9	SGR	497.6	SG3	160.6	ST	839.9	SR	260.7	SS	812.0
RDE	-.2426	RRA	.4037	RC3	-.1713	FAU	.02125	RRT	-.5670	RRF	.5992	RTF	-.9024	CRT	.3463	CRS	.5348	CST	.9774
FDE	.8159	FRA	1.6269	FC3	-.5167	BSP	6500	SGB	2076.4	R23	-.0801	R13	.9051	LSA	1167.5	MSA	263.4	SSA	16.7
BDE	.6830	BRA	2.0247	BC3	.2193	FSP	-440	SG1	2036.4	SG2	405.8	THA	171.70	EL1	845.2	EL2	243.0	ALF	6.69

LAUNCH DATE SEP 30 1965 FLIGHT TIME 116.00 ARRIVAL DATE JAN 24 1966

HELIOCENTRIC CONIC DISTANCE 282.328

RL	149.81	LAL	.00	LOL	6.63	VL	25.769	GAL	7.26	AZL	87.31	HCA	115.47	SMA	119.80	ECC	.27872	INC	2.6948	VI	29.743
RP	107.48	LAP	2.43	LOP	122.12	VP	36.901	GAP	-15.10	AZP	91.16	TAL	160.30	TAP	275.77	RCA	86.41	APO	153.20	V2	35.256
RC	40.263	GL	12.04	GP	-12.89	ZAL	49.38	ZAP	13.02	ETS	79.37	ZAE	156.97	ETE	250.22	ZAC	43.98	ETC	140.58	CLP	-1.82

PLANETOCENTRIC CONIC

C3 33.199 VHL 5.762 DLA -3.85 RAL 317.11 RAD 6568.3 VEL 12.433 PTH 2.25 VHP 9.826 DPA -35.06 RAP 305.78 ECC 1.5464

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 23 46	2219.77	-19.69	41.81	185.91	110.77	9 0 46	1619.8	-16.69	34.42
90.00	19 24 34	5102.86	24.65	226.52	188.32	75.60	20 49 37	4502.9	22.43	218.55
100.00	9 43 19	1963.19	-20.88	22.45	185.41	111.89	10 16 2	1363.2	-17.73	15.07
100.00	20 47 43	4834.67	25.88	206.43	187.95	74.50	22 8 17	4234.7	23.50	198.44
110.00	10 47 25	1762.48	-24.07	5.72	183.92	115.04	11 16 48	1162.5	-20.49	358.40
110.00	22 0 5	4608.14	29.20	188.09	186.80	71.39	23 16 53	4008.1	26.38	180.04

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-.6471	TRA	-1.9810	TC3	-.1140	BAU	.1006	SGT	2080.7	SGR	511.2	SG3	175.0	ST	874.6	SR	235.2	SS	860.7
RDE	-.2009	RRA	.4142	RC3	-.1958	FAU	.02226	RRT	-.6176	RRF	.6542	RTF	-.9089	CRT	.2686	CRS	.4690	CST	.9762
FDE	.8812	FRA	1.7045	FC3	-.5805	BSP	6737	SGB	2142.6	R23	-.0910	R13	.9120	LSA	1223.0	MSA	255.2	SSA	16.6
BDE	.6776	BRA	2.0238	BC3	.2266	FSP	-483	SG1	2105.4	SG2	397.3	THA	171.05	EL1	877.1	EL2	225.9	ALF	4.43

LAUNCH DATE SEP 30 1965 FLIGHT TIME 118.00 ARRIVAL DATE JAN 26 1966

HELIOCENTRIC CONIC DISTANCE 289.137

RL 149.81 LAL .00 LOL 6.63 VL 25.921 GAL 6.91 AZL 87.08 HCA 118.71 SMA 120.66 ECC .26827 INC 2.9225 V1 29.743
RP 107.48 LAP 2.56 LOP 125.37 VP 37.010 GAP -14.27 AZP 91.40 TAL 160.27 TAP 278.98 RCA 88.29 APO 153.03 V2 35.258
RC 40.219 GL 13.61 GP -14.00 ZAL 49.61 ZAP 14.39 ETS 73.80 ZAE 156.25 ETE 258.15 ZAC 45.95 ETC 141.12 CLP -3.38

PLANETOCENTRIC CONIC

C3 31.096 VHL 5.576 DLA -2.33 RAL 316.71 RAD 6568.2 VEL 12.348 PTH 2.23 VHP 9.394 DPA -35.80 RAP 308.03 ECC 1.5118

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 10 51	2250.63	-20.43	43.78	184.77	110.05	8 48 22	1650.6	-17.51	36.32
90.00	19 34 21	5039.05	23.50	222.20	186.18	73.73	20 58 20	4439.1	21.04	214.39
100.00	9 31 7	1991.74	-21.60	24.27	184.29	111.18	10 4 18	1391.7	-18.53	16.82
100.00	20 56 46	4773.18	24.70	202.25	185.78	72.60	22 16 19	4173.2	22.08	194.43
110.00	10 36 52	1785.90	-24.74	7.21	182.86	114.38	11 6 38	1185.9	-21.23	359.81
110.00	22 7 30	4551.79	27.92	184.21	184.55	69.42	23 23 22	3951.8	24.86	176.37

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.6578 TRA-1.9775 TC3 -.0878 BAU .0997 SGT 2145.1 SGR 531.1 SG3 190.6 ST 910.5 SR 208.9 SS 913.8
RDE -.1573 RRA .4283 RC3 -.2232 FAU .02334 RRT -.6689 RRF .7096 RTF -.9150 CRT .1506 CRS .3638 CST .9752
FDE .9551 FRA 1.7876 FC3 -.6498 BSP 6968 SGB 2209.9 R23 -.1031 R13 .9186 LSA 1283.1 MSA 247.0 SSA 16.4
BDE .6764 BRA 2.0233 BC3 .2398 FSP -530 SG1 2175.3 SG2 389.3 THA 170.28 EL1 911.1 EL2 206.4 ALF 2.09

LAUNCH DATE SEP 30 1965 FLIGHT TIME 120.00 ARRIVAL DATE JAN 28 1966

HELIOCENTRIC CONIC DISTANCE 295.944

RL 149.81 LAL .00 LOL 6.63 VL 26.063 GAL 6.58 AZL 86.84 HCA 121.95 SMA 121.47 ECC .25848 INC 3.1648 V1 29.743
RP 107.48 LAP 2.68 LOP 128.62 VP 37.110 GAP -13.47 AZP 91.68 TAL 160.27 TAP 282.22 RCA 90.08 APO 152.87 V2 35.259
RC 40.350 GL 15.32 GP -15.25 ZAL 49.95 ZAP 16.03 ETS 69.25 ZAE 155.03 ETE 265.44 ZAC 47.98 ETC 141.53 CLP -4.98

PLANETOCENTRIC CONIC

C3 29.273 VHL 5.410 DLA -.69 RAL 316.23 RAD 6568.2 VEL 12.274 PTH 2.21 VHP 8.983 DPA -36.67 RAP 310.30 ECC 1.4818

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 56 44	2286.37	-21.24	46.08	183.68	109.18	8 34 51	1686.4	-18.43	38.53
90.00	19 44 35	4973.01	22.17	217.81	184.08	71.92	21 7 28	4373.0	19.49	210.16
100.00	9 17 46	2025.01	-22.40	26.41	183.23	110.33	9 51 31	1425.0	-19.43	18.88
100.00	21 6 15	4709.60	23.34	198.02	183.66	70.77	22 24 44	4109.6	20.50	190.37
110.00	10 25 17	1813.68	-25.50	9.00	181.86	113.57	10 55 30	1213.7	-22.10	1.51
110.00	22 15 14	4493.69	26.46	180.31	182.35	67.53	23 30 7	3893.7	23.18	172.69

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.6713 TRA-1.9727 TC3 -.0582 BAU .1018 SGT 2207.8 SGR 559.2 SG3 207.6 ST 947.8 SR 184.3 SS 971.4
RDE -.1108 RRA .4466 RC3 -.2534 FAU .02448 RRT -.7189 RRF .7634 RTF -.9208 CRT -.0316 CRS .1921 CST .9743
FDE 1.0391 FRA 1.8762 FC3 -.7240 BSP 7205 SGB 2277.5 R23 -.1164 R13 .9250 LSA 1348.6 MSA 238.9 SSA 16.2
BDE .6804 BRA 2.0227 BC3 .2600 FSP -581 SG1 2245.2 SG2 382.2 THA 169.37 EL1 947.8 EL2 184.2 ALF 179.63

LAUNCH DATE SEP 30 1965 FLIGHT TIME 122.00 ARRIVAL DATE JAN 30 1966

HELIOCENTRIC CONIC DISTANCE 302.745

RL 149.81 LAL .00 LOL 6.63 VL 26.193 GAL 6.26 AZL 86.58 HCA 125.19 SMA 122.24 ECC .24933 INC 3.4248 V1 29.743
RP 107.48 LAP 2.80 LOP 131.87 VP 37.202 GAP -12.69 AZP 91.98 TAL 160.31 TAP 285.50 RCA 91.76 APO 152.72 V2 35.259
RC 40.657 GL 17.18 GP -16.68 ZAL 50.43 ZAP 17.91 ETS 65.62 ZAE 153.35 ETE 271.84 ZAC 50.07 ETC 141.81 CLP -6.62

PLANETOCENTRIC CONIC

C3 27.719 VHL 5.265 DLA 1.08 RAL 315.65 RAD 6568.1 VEL 12.210 PTH 2.19 VHP 8.595 DPA -37.69 RAP 312.61 ECC 1.4562

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 41 18	2327.66	-22.14	48.77	182.68	108.12	8 20 6	1727.7	-19.46	41.13
90.00	19 55 24	4904.48	20.65	213.36	182.06	70.19	21 17 9	4304.5	17.77	205.88
100.00	9 3 9	2063.65	-23.29	28.94	182.25	109.29	9 37 33	1463.7	-20.45	21.30
100.00	21 16 15	4643.71	21.79	193.73	181.60	69.02	22 33 38	4043.7	18.74	186.26
110.00	10 12 33	1846.42	-26.38	11.15	180.95	112.57	10 43 20	1246.4	-23.09	3.53
110.00	22 23 20	4433.71	24.84	176.41	180.22	65.73	23 37 14	3833.7	21.35	169.00

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.6853 TRA-1.9645 TC3 -.0225 BAU .1066 SGT 2264.8 SGR 597.5 SG3 225.8 ST 983.8 SR 167.2 SS 1033.0
RDE -.0605 RRA .4698 RC3 -.2868 FAU .02571 RRT -.7665 RRF .8133 RTF -.9263 CRT -.2997 CRS -.0757 CST .9735
FDE 1.1334 FRA 1.9686 FC3 -.8031 BSP 7498 SGB 2342.3 R23 -.1295 R13 .9312 LSA 1417.4 MSA 231.6 SSA 15.8
BDE .6880 BRA 2.0199 BC3 .2877 FSP -639 SG1 2311.9 SG2 376.0 THA 168.25 EL1 985.1 EL2 159.3 ALF 177.01

LAUNCH DATE SEP 30 1965 FLIGHT TIME 124.00 ARRIVAL DATE FEB 1 1966

HELIOCENTRIC CONIC DISTANCE 309.538

RL 149.81 LAL .00 LOL 6.63 VL 26.314 GAL 5.97 AZL 86.29 HCA 128.43 SMA 122.96 ECC .24081 INC 3.7065 V1 29.743
RP 107.48 LAP 2.90 LOP 135.12 VP 37.286 GAP -11.94 AZP 92.31 TAL 160.39 TAP 288.82 RCA 93.35 APO 152.57 V2 35.258
RC 41.135 GL 19.21 GP -18.32 ZAL 51.05 ZAP 20.05 ETS 62.77 ZAE 151.27 ETE 277.20 ZAC 52.24 ETC 141.96 CLP -8.31

PLANETOCENTRIC CONIC

C3 26.430 VHL 5.141 DLA 3.00 RAL 314.97 RAD 6568.1 VEL 12.158 PTH 2.18 VHP 8.232 DPA -38.90 RAP 314.98 ECC 1.4350

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 24 22	2375.30	-23.12	51.93	181.78	106.83	8 3 58	1775.3	-20.59	44.16
90.00	20 6 57	4833.17	18.94	208.83	180.12	68.55	21 27 30	4233.2	15.86	201.51
100.00	8 47 7	2108.42	-24.27	31.91	181.39	108.01	9 22 15	1508.4	-21.58	24.14
100.00	21 26 54	4575.29	20.06	189.39	179.64	67.36	22 43 9	3975.3	16.82	182.09
110.00	9 58 34	1884.76	-27.35	13.70	180.16	111.35	10 29 59	1284.8	-24.21	5.95
110.00	22 31 56	4371.71	23.05	172.48	178.19	64.03	23 44 47	3771.7	19.37	165.28

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.7061 TRA-1.9581 TC3 .0115 BAU .1141 SGT 2322.6 SGR 648.7 SG3 245.3 ST 1024.2 SR 167.6 SS 1101.0
RDE -.0046 RRA .4994 RC3 -.3228 FAU .02691 RRT -.8082 RRF .8575 RTF -.9313 CRT -.6150 CRS -.4194 CST .9733
FDE 1.2424 FRA 2.0666 FC3 -.8815 BSP 7724 SGB 2411.5 R23 -.1442 R13 .9371 LSA 1496.2 MSA 224.6 SSA 15.2
BDE .7061 BRA 2.0208 BC3 .3230 FSP -698 SG1 2382.6 SG2 372.4 THA 166.96 EL1 1029.5 EL2 131.5 ALF 174.16

LAUNCH DATE SEP 30 1965 FLIGHT TIME 126.00 ARRIVAL DATE FEB 3 1966

HELIOCENTRIC CONIC DISTANCE 316.321

RL	149.81	LAL	.00	LOL	6.63	VL	26.425	GAL	5.69	AZL	85.99	HCA	131.67	SMA	123.63	ECC	.23288	INC	4.0147	VI	29.743
RP	107.48	LAP	3.00	LOP	138.37	VP	37.364	GAP	-11.21	AZP	92.67	TAL	160.49	TAP	292.16	RCA	94.84	APO	152.42	V2	35.257
RC	41.780	GL	21.42	GP	-20.20	ZAL	51.82	ZAP	22.46	ETS	60.59	ZAE	148.85	ETE	281.54	ZAC	54.50	ETC	142.00	CLP	-10.04

PLANETOCENTRIC CONIC

C3	25.409	VHL	5.041	DLA	5.07	RAL	314.20	RAD	6568.0	VEL	12.116	PTH	2.17	VHP	7.896	DPA	-40.32	RAP	317.43	ECC	1.4182

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 5 44	2430.26	-24.15	55.62	181.04	105.25	7 46 14	1830.3	-21.82	47.72
90.00	20 19 24	4758.73	17.03	204.21	178.31	67.03	21 38 43	4158.7	13.77	197.05
100.00	8 29 28	2160.19	-25.31	35.40	180.67	106.46	9 5 28	1560.2	-22.81	27.49
100.00	21 38 22	4504.03	18.13	184.97	177.81	65.82	22 53 26	3904.0	14.71	177.85
110.00	9 43 11	1929.46	-28.43	16.74	179.53	109.84	10 15 21	1329.5	-25.46	8.82
110.00	22 41 8	4307.52	21.08	168.54	176.29	62.45	23 52 55	3707.5	17.22	161.54

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-.7318	TRA	-1.9516	TC3	.0452	BAU	.1237	SGT	2377.7	SGR	715.3	SG3	265.8	ST	1066.9	SR	195.7	SS	1174.7
RDE	.0587	RRA	.5364	RC3	-.3612	FAU	.02807	RRT	-.8438	RRF	.8948	RTF	-.9359	CRT	-.8534	CRS	-.7129	CST	.9733
FDE	1.3667	FRA	2.1682	FC3	-.9564	BSP	7953	SGB	2483.0	R23	-.1588	R13	.9429	LSA	1583.7	MSA	218.7	SSA	14.6
BDE	.7341	BRA	2.0240	BC3	.3641	FSP	-761	SG1	2455.0	SG2	371.8	THA	165.41	EL1	1080.0	EL2	100.7	ALF	171.03

LAUNCH DATE SEP 30 1965 FLIGHT TIME 128.00 ARRIVAL DATE FEB 5 1966

HELIOCENTRIC CONIC DISTANCE 323.093

RL	149.81	LAL	.00	LOL	6.63	VL	26.528	GAL	5.43	AZL	85.64	HCA	134.91	SMA	124.26	ECC	.22553	INC	4.3555	VI	29.743
RP	107.49	LAP	3.08	LOP	141.62	VP	37.434	GAP	-10.51	AZP	93.08	TAL	160.62	TAP	295.53	RCA	96.23	APO	152.28	V2	35.255
RC	42.583	GL	23.82	GP	-22.36	ZAL	52.75	ZAP	25.15	ETS	58.95	ZAE	146.14	ETE	284.92	ZAC	56.87	ETC	141.91	CLP	-11.82

PLANETOCENTRIC CONIC

C3	24.665	VHL	4.966	DLA	7.31	RAL	313.32	RAD	6568.0	VEL	12.085	PTH	2.16	VHP	7.590	DPA	-41.99	RAP	320.00	ECC	1.4059

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 45 6	2493.70	-25.22	59.96	180.47	103.33	7 26 40	1893.7	-23.13	51.91
90.00	20 33 1	4680.65	14.89	199.47	176.66	65.63	21 51 1	4080.7	11.48	192.46
100.00	8 9 57	2220.04	-26.40	39.51	180.14	104.55	8 46 57	1620.0	-24.14	31.44
100.00	21 50 51	4429.55	16.00	180.47	176.13	64.41	23 4 40	3829.5	12.42	173.51
110.00	9 26 12	1981.41	-29.57	20.35	179.10	107.98	9 59 13	1381.4	-26.83	12.23
110.00	22 51 5	4240.93	18.93	164.57	174.54	60.99	24 1 46	3640.9	14.92	157.75

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-.7625	TRA	-1.9440	TC3	.0793	BAU	.1350	SGT	2427.4	SGR	800.5	SG3	286.9	ST	1110.9	SR	254.0	SS	1253.2
RDE	.1319	RRA	.5821	RC3	-.4017	FAU	.02917	RRT	-.8729	RRF	.9246	RTF	-.9402	CRT	-.9625	CRS	-.8770	CST	.9737
FDE	1.5072	FRA	2.2697	FC3	-1.0237	BSP	8193	SGB	2556.0	R23	-.1716	R13	.9486	LSA	1680.2	MSA	214.1	SSA	13.7
BDE	.7738	BRA	2.0293	BC3	.4095	FSP	-827	SG1	2528.4	SG2	375.0	THA	163.57	EL1	1137.5	EL2	67.3	ALF	167.54

LAUNCH DATE SEP 30 1965 FLIGHT TIME 130.00 ARRIVAL DATE FEB 7 1966

HELIOCENTRIC CONIC DISTANCE 329.850

RL	149.81	LAL	.00	LOL	6.63	VL	26.622	GAL	5.19	AZL	85.26	HCA	138.15	SMA	124.84	ECC	.21874	INC	4.7370	VI	29.743
RP	107.50	LAP	3.16	LOP	144.87	VP	37.498	GAP	-9.82	AZP	93.53	TAL	160.77	TAP	298.92	RCA	97.53	APO	152.15	V2	35.252
RC	43.538	GL	26.42	GP	-24.85	ZAL	53.86	ZAP	28.15	ETS	57.77	ZAE	143.15	ETE	287.44	ZAC	59.38	ETC	141.72	CLP	-13.65

PLANETOCENTRIC CONIC

C3	24.220	VHL	4.921	DLA	9.72	RAL	312.32	RAD	6568.0	VEL	12.066	PTH	2.16	VHP	7.320	DPA	-43.96	RAP	322.74	ECC	1.3986

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 22 6	2567.11	-26.27	65.08	180.13	100.97	7 4 53	1967.1	-24.49	56.86
90.00	20 48 5	4598.29	12.52	194.59	175.21	64.39	22 4 44	3998.3	8.97	187.70
100.00	7 48 14	2289.32	-27.49	44.37	179.85	102.22	8 26 23	1689.3	-25.53	36.12
100.00	22 4 39	4351.32	13.64	175.86	174.64	63.14	23 17 10	3751.3	9.93	169.04
110.00	9 7 22	2041.69	-30.76	24.64	178.92	105.70	9 41 23	1441.7	-28.30	16.30
110.00	23 2 0	4171.71	16.60	160.56	172.97	59.68	24 11 32	3571.7	12.45	153.91

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-.8014	TRA	-1.9363	TC3	.1098	BAU	.1477	SGT	2472.5	SGR	907.4	SG3	308.0	ST	1158.2	SR	341.0	SS	1337.0
RDE	.2189	RRA	.6384	RC3	-.4426	FAU	.03006	RRT	-.8957	RRF	.9474	RTF	-.9442	CRT	-.9951	CRS	-.9497	CST	.9745
FDE	1.6665	FRA	2.3677	FC3	-1.0744	BSP	8434	SGB	2633.7	R23	-.1816	R13	.9544	LSA	1789.1	MSA	210.7	SSA	12.7
BDE	.8308	BRA	2.0388	BC3	.4561	FSP	-892	SG1	2605.7	SG2	382.9	THA	161.39	EL1	1206.9	EL2	32.2	ALF	163.66

LAUNCH DATE SEP 30 1965 FLIGHT TIME 132.00 ARRIVAL DATE FEB 9 1966

HELIOCENTRIC CONIC DISTANCE 336.592

RL	149.81	LAL	.00	LOL	6.63	VL	26.708	GAL	4.96	AZL	84.83	HCA	141.38	SMA	125.38	ECC	.21247	INC	5.1698	VI	29.743
RP	107.51	LAP	3.22	LOP	148.12	VP	37.556	GAP	-9.16	AZP	94.04	TAL	160.94	TAP	302.33	RCA	98.74	APO	152.02	V2	35.249
RC	44.633	GL	29.23	GP	-27.73	ZAL	55.16	ZAP	31.49	ETS	56.95	ZAE	139.88	ETE	289.22	ZAC	62.07	ETC	141.44	CLP	-15.54

PLANETOCENTRIC CONIC

C3	24.111	VHL	4.910	DLA	12.33	RAL	311.21	RAD	6568.0	VEL	12.062	PTH	2.16	VHP	7.092	DPA	-46.27	RAP	325.73	ECC	1.3968

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 56 11	2652.51	-27.23	71.15	180.05	98.08	6 40 23	2052.5	-25.83	62.76
90.00	21 5 7	4510.67	9.89	189.49	174.02	63.33	22 20 18	3910.7	6.23	182.72
100.00	7 23 50	2369.80	-28.52	50.13	179.83	99.35	8 3 20	1769.8	-26.93	41.69
100.00	22 20 9	4268.61	11.05	171.09	173.41	62.05	23 31 17	3668.6	7.22	164.39
110.00	8 46 20	2111.65	-31.94	29.75	179.05	102.89	9 21 32	1511.6	-29.84	21.17
110.00	23 14 8	4099.53	14.07	156.49	171.64	58.52	24 22 27	3499.5	9.81	149.99

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-.8467	TRA	-1.9270	TC3	.1401	BAU	.1621	SGT	2508.5	SGR	1039.6	SG3	327.7	ST	1205.4	SR	455.2	SS	1422.6
RDE	.3239	RRA	.7069	RC3	-.4831	FAU	.03074	RRT	-.9134	RRF	.9641	RTF	-.9480	CRT	-.9994	CRS	-.9796	CST	.9755
FDE	1.8412	FRA	2.4545	FC3	-1.1037	BSP	8742	SGB	2715.4	R23	-.1868	R13	.9602	LSA	1907.9	MSA	209.0	SSA	11.6
BDE	.9066	BRA	2.0526	BC3	.5030	FSP	-959	SG1	2686.5	SG2	395.2	THA	158.79	EL1	1288.4	EL2	14.5	ALF	159.32

LAUNCH DATE SEP 30 1965 FLIGHT TIME 134.00 ARRIVAL DATE FEB 11 1966

HELIOCENTRIC CONIC DISTANCE 343.316

RL 149.81 LAL .00 LOL 6.63 VL 26,787 GAL 4.75 AZL 84.33 HCA 144.61 SMA 125.88 ECC .20671 INC 5.6683 V1 29.743
RP 107.52 LAP 3.28 LOP 151.37 VP 37,608 GAP -8.51 AZP 94.63 TAL 161.13 TAP 305.74 RCA 99.86 APO 151.91 V2 35.244
RC 45.858 GL 32.26 GP -31.06 ZAL 56.67 ZAP 35.20 ETS 56.43 ZAE 136.30 ETE 290.38 ZAC 64.98 ETC 141.09 CLP -17.47

PLANETOCENTRIC CONIC

C3 24.398 VHL 4.939 DLA 15.13 RAL 309.96 RAD 6568.0 VEL 12.074 PTH 2.16 VHP 6.915 DPA -48.96 RAP 329.10 ECC 1.4015

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 26 32	2752.77	-27.98	78.38	180.28	94.52	6 12 25	2152.8	-27.06	69.84
90.00	21 24 49	4416.23	6.96	184.10	173.17	62.48	22 38 25	3816.2	3.22	177.42
100.00	6 56 6	2463.93	-29.37	57.00	180.13	95.84	7 37 10	1863.9	-28.25	48.37
100.00	22 37 56	4180.30	8.19	166.09	172.51	61.15	23 47 36	3580.3	4.28	159.49
110.00	8 22 41	2193.03	-33.01	35.85	179.56	99.42	8 59 14	1593.0	-31.36	27.02
110.00	23 27 50	4023.97	11.35	152.33	170.61	57.54	24 34 54	3424.0	6.99	145.96

DIFFERENTIAL CORRECTIONS
TDE -.9058 TRA-1.9213 TC3 .1575 BAU .1767
RDE .4544 RRA .7902 RC3 -.5182 FAU .03081
FDE 2.0327 FRA 2.5245 FC3-1.0933 BSP 9008
BDE 1.0134 BRA 2.0775 BC3 .5416 FSP -1014

MID-COURSE EXECUTION ACCURACY
SGT 2541.3 SGR 1200.5 SG3 344.8
RRT -.9261 RRF .9759 RTF -.9513
SGB 2810.6 R23 -.1873 R13 .9660
SG1 2779.9 SG2 414.1 THA 155.80

ORBIT DETERMINATION ACCURACY
ST 1258.4 SR 599.3 SS 1510.1
CRT -.9959 CRS -.9919 CST .9770
LSA 2044.4 MSA 208.3 SSA 10.3
EL1 1393.0 EL2 48.7 ALF 154.59

LAUNCH DATE SEP 30 1965 FLIGHT TIME 136.00 ARRIVAL DATE FEB 13 1966

HELIOCENTRIC CONIC DISTANCE 350.020

RL 149.81 LAL .00 LOL 6.63 VL 26,859 GAL 4.56 AZL 83.75 HCA 147.84 SMA 126.35 ECC .20144 INC 6.2528 V1 29.743
RP 107.54 LAP 3.32 LOP 154.62 VP 37,655 GAP -7.89 AZP 95.30 TAL 161.33 TAP 309.17 RCA 100.89 APO 151.80 V2 35.239
RC 47.202 GL 35.53 GP -34.90 ZAL 58.40 ZAP 39.33 ETS 56.14 ZAE 132.37 ETE 291.03 ZAC 68.15 ETC 140.72 CLP -19.42

PLANETOCENTRIC CONIC

C3 25.182 VHL 5.018 DLA 18.13 RAL 308.56 RAD 6568.0 VEL 12.106 PTH 2.17 VHP 6.804 DPA -52.06 RAP 333.05 ECC 1.4144

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 51 49	2872.36	-28.32	87.11	180.80	90.16	5 39 41	2272.4	-27.99	78.46
90.00	21 48 21	4312.20	3.65	178.25	172.78	61.90	23 0 14	3712.2	-.13	171.61
100.00	6 23 56	2575.34	-29.86	65.24	180.78	91.53	7 6 51	1975.3	-29.33	56.47
100.00	22 58 56	4084.46	5.00	160.76	172.04	60.49	24 7 0	3484.5	1.04	154.22
110.00	7 55 42	2288.21	-33.84	43.16	180.50	95.18	8 33 50	1688.2	-32.75	34.09
110.00	23 43 39	3944.35	8.41	148.05	169.95	56.74	24 49 23	3344.3	3.97	141.76

DIFFERENTIAL CORRECTIONS
TDE -.9764 TRA-1.9147 TC3 .1708 BAU .1925
RDE .6182 RRA .8889 RC3 -.5457 FAU .03031
FDE 2.2299 FRA 2.5605 FC3-1.0420 BSP 9385
BDE 1.1557 BRA 2.1110 BC3 .5718 FSP -1061

MID-COURSE EXECUTION ACCURACY
SGT 2562.0 SGR 1392.4 SG3 356.6
RRT -.9356 RRF .9839 RTF -.9545
SGB 2915.9 R23 -.1812 R13 .9719
SG1 2882.9 SG2 436.9 THA 152.36

ORBIT DETERMINATION ACCURACY
ST 1311.2 SR 775.4 SS 1592.1
CRT -.9916 CRS -.9969 CST .9787
LSA 2193.5 MSA 208.8 SSA 9.0
EL1 1520.8 EL2 86.2 ALF 149.50

LAUNCH DATE SEP 30 1965 FLIGHT TIME 138.00 ARRIVAL DATE FEB 15 1966

HELIOCENTRIC CONIC DISTANCE 356.702

RL 149.81 LAL .00 LOL 6.63 VL 26,924 GAL 4.38 AZL 83.05 HCA 151.07 SMA 126.77 ECC .19664 INC 6.9521 V1 29.743
RP 107.55 LAP 3.36 LOP 157.87 VP 37,696 GAP -7.28 AZP 96.09 TAL 161.53 TAP 312.59 RCA 101.84 APO 151.70 V2 35.234
RC 48.656 GL 39.03 GP -39.30 ZAL 60.36 ZAP 43.89 ETS 56.02 ZAE 128.03 ETE 291.31 ZAC 71.63 ETC 140.39 CLP -21.37

PLANETOCENTRIC CONIC

C3 26.626 VHL 5.160 DLA 21.33 RAL 306.99 RAD 6568.1 VEL 12.166 PTH 2.18 VHP 6.778 DPA -55.57 RAP 337.89 ECC 1.4382

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 9 32	3019.44	-27.88	97.84	181.55	84.81	4 59 52	2419.4	-28.30	89.20
90.00	22 18 4	4192.70	-.20	171.57	173.06	61.68	23 27 56	3592.7	-3.98	164.94
100.00	5 45 28	2710.14	-29.68	75.25	181.71	86.27	6 30 38	2110.1	-29.88	66.45
100.00	23 24 49	3977.24	1.38	154.86	172.18	60.14	24 31 7	3377.2	-2.60	148.34
110.00	7 24 23	2400.65	-34.18	51.92	181.88	90.01	8 4 24	1800.6	-33.80	42.69
110.00	0 6 19	3859.49	5.21	143.55	169.80	56.17	1 10 39	3259.5	.73	137.33

DIFFERENTIAL CORRECTIONS
TDE-1.0711 TRA-1.9167 TC3 .1667 BAU .2069
RDE .8296 RRA 1.0065 RC3 -.5569 FAU .02870
FDE 2.4274 FRA 2.5548 FC3 -.9333 BSP 9723
BDE 1.3548 BRA 2.1648 BC3 .5813 FSP -1078

MID-COURSE EXECUTION ACCURACY
SGT 2581.4 SGR 1618.1 SG3 361.1
RRT -.9422 RRF .9893 RTF -.9574
SGB 3046.6 R23 -.1694 R13 .9776
SG1 3010.9 SG2 464.9 THA 148.60

ORBIT DETERMINATION ACCURACY
ST 1372.7 SR 989.1 SS 1666.8
CRT -.9886 CRS -.9989 CST .9808
LSA 2365.7 MSA 209.6 SSA 7.8
EL1 1687.6 EL2 121.0 ALF 144.32

LAUNCH DATE SEP 30 1965 FLIGHT TIME 140.00 ARRIVAL DATE FEB 17 1966

HELIOCENTRIC CONIC DISTANCE 363.360

RL 149.81 LAL .00 LOL 6.63 VL 26.983 GAL 4.22 AZL 82.19 HCA 154.28 SMA 127.16 ECC .19229 INC 7.8097 V1 29.743
RP 107.57 LAP 3.38 LOP 161.12 VP 37.732 GAP -6.69 AZP 97.04 TAL 161.72 TAP 316.01 RCA 102.71 APO 151.61 V2 35.227
RC 50.208 GL 42.76 GP -44.31 ZAL 62.57 ZAP 48.89 ETS 56.03 ZAE 123.21 ETE 291.38 ZAC 75.48 ETC 140.20 CLP -23.24

PLANETOCENTRIC CONIC

C3 29.005 VHL 5.386 DLA 24.72 RAL 305.20 RAD 6568.2 VEL 12.263 PTH 2.21 VHP 6.868 DPA -59.41 RAP 344.17 ECC 1.4773

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	3 13 33	3213.60	-25.90	111.69	182.18	78.14	4 7 6	2613.6	-27.28	103.30
90.00	22 59 47	4041.18	-5.07	163.10	174.41	62.10	24 7 9	3441.2	-8.76	156.37
100.00	4 56 45	2880.86	-28.27	87.73	182.69	79.85	5 44 46	2280.9	-29.38	79.10
100.00	0 3 12	3849.15	-2.96	147.83	173.25	60.24	1 7 21	3249.1	-6.90	141.26
110.00	6 47 1	2535.87	-33.68	62.44	183.60	83.81	7 29 17	1935.9	-34.17	53.23
110.00	0 29 25	3766.91	1.69	136.70	170.35	55.85	1 32 12	3166.9	-2.81	132.50

DIFFERENTIAL CORRECTIONS
TDE-1.1859 TRA-1.9186 TC3 .1617 BAU .2221
RDE 1.1016 RRA 1.1389 RC3 -.5494 FAU .02621
FDE 2.5955 FRA 2.4801 FC3 -.7822 BSP 10321
BDE 1.6186 BRA 2.2312 BC3 .5727 FSP -1079

MID-COURSE EXECUTION ACCURACY
SGT 2582.9 SGR 1871.5 SG3 353.8
RRT -.9472 RRF .9927 RTF -.9603
SGB 3189.7 R23 -.1517 R13 .9830
SG1 3151.5 SG2 491.7 THA 144.54

ORBIT DETERMINATION ACCURACY
ST 1430.5 SR 1238.5 SS 1718.3
CRT -.9869 CRS -.9997 CST .9829
LSA 2547.2 MSA 210.9 SSA 6.5
EL1 1886.0 EL2 151.5 ALF 139.17

LAUNCH DATE SEP 30 1965 FLIGHT TIME 142.00 ARRIVAL DATE FEB 19 1966

HELIOCENTRIC CONIC DISTANCE 369.992

RL	149.81	LAL	.00	LOL	6.63	VL	27.036	GAL	4.08	AZL	81.11	HCA	157.50	SMA	127.51	ECC	.18836	INC	8.8934
RP	107.60	LAP	3.39	LOP	164.37	VP	37.764	GAP	-6.12	AZP	98.23	TAL	161.91	TAP	319.40	RCA	103.49	APO	151.53
RC	51.850	GL	46.71	GP	-49.93	ZAL	65.04	ZAP	54.28	ETS	56.19	ZAE	117.88	ETE	291.46	ZAC	79.74	ETC	140.35

VI	29.743	V2	35.220	CLP	-24.92														

PLANETOCENTRIC CONIC

C3	32.805	VHL	5.728	DLA	28.27	RAL	303.15	RAD	6568.3	VEL	12.417	PTH	2.24	VHP	7.121	DPA	-63.40	RAP	352.76

ECC	1.5399																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	1 14 36	3612.47	-17.72	137.99	180.32	67.55	2 14 48	3012.5	-20.61	130.51
90.00	0 46 19	3704.14	-15.25	143.59	179.21	65.85	1 48 3	3104.1	-18.38	136.31
100.00	3 44 19	3129.69	-24.07	105.00	182.84	71.72	4 36 28	2529.7	-26.34	96.94
100.00	0 59 17	3662.15	-9.18	137.44	176.13	61.43	2 0 20	3062.2	-12.93	130.65
110.00	6 0 12	2704.34	-31.71	75.17	185.30	76.52	6 45 16	2104.3	-33.24	66.27
110.00	0 59 53	3660.27	-2.39	133.14	171.98	55.89	2 0 54	3060.3	-6.85	126.89

DIFFERENTIAL CORRECTIONS

TDE	-1.3513	TRA	-1.9429	TC3	.1340	BAU	.2307
RDE	1.4619	RRA	1.2885	RC3	-.5087	FAU	.02206
FDE	2.7229	FRA	2.3377	FC3	-.5822	BSP	10835
BDE	1.9908	BRA	2.3314	BC3	.5260	FSP	-1029

MID-COURSE EXECUTION ACCURACY

SGT	2592.5	SGR	2149.5	SG3	333.7		
RRT	-.9504	RRF	.9948	RTF	-.9633		
SGB	3367.7	R23	-.1302	R13	.9879		
SG1	3327.2	SG2	520.9	THA	140.61		

ORBIT DETERMINATION ACCURACY

ST	1505.2	SR	1527.0	SS	1746.1		
CRT	-.9866	CRS	-1.0000	CST	.9854		
LSA	2757.1	MSA	211.8	SSA	5.3		
EL1	2137.0	EL2	175.6	ALF	134.58		

LAUNCH DATE SEP 30 1965 FLIGHT TIME 144.00 ARRIVAL DATE FEB 21 1966

HELIOCENTRIC CONIC DISTANCE 376.585

RL	149.81	LAL	.00	LOL	6.63	VL	27.084	GAL	3.95	AZL	79.68	HCA	160.70	SMA	127.83	ECC	.18484	INC	10.3152
RP	107.62	LAP	3.39	LOP	167.61	VP	37.791	GAP	-5.57	AZP	99.75	TAL	162.09	TAP	322.78	RCA	104.20	APO	151.46
RC	53.572	GL	50.84	GP	-56.15	ZAL	67.78	ZAP	59.99	ETS	56.67	ZAE	111.99	ETE	291.89	ZAC	84.43	ETC	141.16

VI	29.743	V2	35.212	CLP	-26.11														

PLANETOCENTRIC CONIC

C3	38.936	VHL	6.240	DLA	31.93	RAL	300.76	RAD	6568.5	VEL	12.661	PTH	2.30	VHP	7.611	DPA	-67.12	RAP	5.08

ECC	1.6408																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
74.59	22 46 44	4086.98	-17.14	172.88	181.11	62.64	23 54 51	3487.0	-20.67	165.71
105.41	2 51 10	3316.16	-17.13	115.80	181.10	62.63	3 46 26	2716.2	-20.66	108.63
74.59	22 46 44	4086.98	-17.14	172.88	181.11	62.64	23 54 51	3487.0	-20.67	165.71
105.41	2 51 10	3316.16	-17.13	115.80	181.10	62.63	3 46 26	2716.2	-20.66	108.63
110.00	4 53 57	2935.94	-26.87	91.43	185.92	68.03	5 42 53	2335.9	-29.61	83.31
110.00	1 47 4	3515.20	-7.89	125.50	175.57	56.63	2 45 39	2915.2	-12.22	119.09

DIFFERENTIAL CORRECTIONS

TDE	-1.5226	TRA	-1.9274	TC3	.1707	BAU	.2577
RDE	1.9051	RRA	1.4100	RC3	-.4647	FAU	.01916
FDE	2.7219	FRA	2.0617	FC3	-.4260	BSP	13266
BDE	2.4388	BRA	2.3881	BC3	.4950	FSP	-1050

MID-COURSE EXECUTION ACCURACY

SGT	2519.6	SGR	2392.4	SG3	293.1		
RRT	-.9540	RRF	.9961	RTF	-.9664		
SGB	3474.5	R23	-.1060	R13	.9919		
SG1	3434.4	SG2	526.5	THA	136.56		

ORBIT DETERMINATION ACCURACY

ST	1531.7	SR	1808.3	SS	1701.3		
CRT	-.9864	CRS	-1.0000	CST	.9874		
LSA	2909.6	MSA	211.2	SSA	4.1		
EL1	2362.0	EL2	192.5	ALF	130.20		

LAUNCH DATE SEP 30 1965 FLIGHT TIME 146.00 ARRIVAL DATE FEB 23 1966

HELIOCENTRIC CONIC DISTANCE 383.156

RL	149.81	LAL	.00	LOL	6.63	VL	27.127	GAL	3.84	AZL	77.73	HCA	163.88	SMA	128.11	ECC	.18174	INC	12.2745
RP	107.64	LAP	3.38	LOP	170.86	VP	37.814	GAP	-5.03	AZP	101.81	TAL	162.22	TAP	326.10	RCA	104.83	APO	151.40
RC	55.368	GL	55.04	GP	-62.85	ZAL	70.77	ZAP	65.81	ETS	58.05	ZAE	105.57	ETE	293.45	ZAC	89.60	ETC	143.40

VI	29.743	V2	35.204	CLP	-26.14														

PLANETOCENTRIC CONIC

C3	49.291	VHL	7.021	DLA	35.58	RAL	297.95	RAD	6568.8	VEL	13.063	PTH	2.38	VHP	8.470	DPA	-69.69	RAP	22.54

ECC	1.8112																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
67.50	21 51 50	4280.38	-16.82	187.70	182.97	58.18	23 3 10	3680.4	-20.90	180.84
112.50	3 23 43	3241.40	-16.80	109.81	182.96	58.17	4 17 44	2641.4	-20.89	102.96
67.50	21 51 50	4280.38	-16.82	187.70	182.97	58.18	23 3 10	3680.4	-20.90	180.84
112.50	3 23 43	3241.40	-16.80	109.81	182.96	58.17	4 17 44	2641.4	-20.89	102.96
67.50	21 51 50	4280.38	-16.82	187.70	182.97	58.18	23 3 10	3680.4	-20.90	180.84
112.50	3 23 43	3241.40	-16.80	109.81	182.96	58.17	4 17 44	2641.4	-20.89	102.96

DIFFERENTIAL CORRECTIONS

TDE	-2.0103	TRA	-2.1389	TC3	.0357	BAU	.2039
RDE	2.5843	RRA	1.5983	RC3	-.3074	FAU	.00926
FDE	2.7593	FRA	1.8534	FC3	-.1627	BSP	11556
BDE	3.2741	BRA	2.6701	BC3	.3094	FSP	-768

MID-COURSE EXECUTION ACCURACY

SGT	2701.8	SGR	2684.4	SG3	253.1		
RRT	-.9546	RRF	.9957	RTF	-.9725		
SGB	3808.7	R23	-.0781	R13	.9954		
SG1	3765.2	SG2	574.0	THA	135.19		

ORBIT DETERMINATION ACCURACY

ST	1762.4	SR	2163.2	SS	1697.7		
CRT	-.9888	CRS	-.9998	CST	.9914		
LSA	3259.2	MSA	212.9	SSA	3.3		
EL1	2782.7	EL2	204.4	ALF	129.11		

LAUNCH DATE SEP 30 1965 FLIGHT TIME 148.00 ARRIVAL DATE FEB 25 1966

HELIOCENTRIC CONIC DISTANCE 389.665

RL	149.81	LAL	.00	LOL	6.63	VL	27.165	GAL	3.75	AZL	74.84	HCA	167.04	SMA	128.37	ECC	.17902	INC	15.1608
RP	107.67	LAP	3.36	LOP	174.10	VP	37.833	GAP	-4.52	AZP	104.79	TAL	162.32	TAP	329.36	RCA	105.39	APO	151.35
RC	57.230	GL	59.14	GP	-69.88	ZAL	74.03	ZAP	71.57	ETS	62.38	ZAE	98.55	ETE	298.27	ZAC	95.31	ETC	149.26

VI	29.743	V2	35.195	CLP	-23.17														

PLANETOCENTRIC CONIC

C3	68.207	VHL	8.259	DLA	38.98	RAL	294.58	RAD	6569.3	VEL	13.768	PTH	2.52	VHP	9.945	DPA	-69.92	RAP	44.24

ECC	2.1225																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
62.01	21 9 55	4443.17	-15.08	199.71	185.15	53.61	22 23 58	3843.2	-19.71	193.29
117.99	3 38 41	3237.38	-15.06	108.26	185.14	53.61	4 32 39	2637.4	-19.70	101.84
62.01	21 9 55	4443.17	-15.08	199.71	185.15	53.61	22 23 58	3843.2	-19.71	193.29
117.99	3 38 41	3237.38	-15.06	108.26	185.14	53.61	4 32 39	2637.4	-19.70	101.84
62.01	21 9 55	4443.17	-15.08	199.71	185.15	53.61	22 23 58	3843.2	-19.71	193.29
117.99	3 38 41	3237.38	-15.06	108.26	185.14	53.61	4 32 39	2637.4	-19.70	101.84

DIFFERENTIAL CORRECTIONS

TDE	-2.8209	TRA	-2.4229	TC3	-.0064	BAU	.1536
RDE	3.3452	RRA	1.6293	RC3	-.1683	FAU	.00224
FDE	2.6399	FRA	1.5404	FC3	-.0284	BSP	12425
BDE	4.3759	BRA	2.9198	BC3	.1684	FSP	-622

MID-COURSE EXECUTION ACCURACY

SGT	2916.5	SGR	2752.8	SG3	197.9		
RRT	-.9570	RRF	.9932	RTF	-.9815		
SGB	4010.5	R23	-.0488	R13	.9977		
SG1	3967.3	SG2	587.0	THA	136.73		

ORBIT DETERMINATION ACCURACY

ST	2061.7	SR	2361.4	SS	1613.1		
CRT	-.9910	CRS	-.9994	CST	.9951		
LSA	3519.2	MSA	210.9	SSA	2.6		
EL1	3127.9	EL2	208.5	ALF	131.09		

LAUNCH DATE SEP 30 1965 FLIGHT TIME 150.00 ARRIVAL DATE FEB 27 1966

HELIOCENTRIC CONIC DISTANCE 396.093

RL	149.81	LAL	.00	LOL	6.63	VL	27.199	GAL	3.69	AZL	70.16	HCA	170.14	SMA	128.60	ECC	.17672	INC	19.8410
RP	107.70	LAP	3.33	LOP	177.34	VP	37.848	GAP	-4.04	AZP	109.57	TAL	162.35	TAP	332.49	RCA	105.87	APO	151.32
RC	59.152	GL	62.63	GP	-76.74	ZAL	77.50	ZAP	76.97	ETS	79.31	ZAE	90.76	ETE	316.01	ZAC	101.88	ETC	168.48

V1	29.743	V2	35.186	CLP	-10.55														

PLANETOCENTRIC CONIC

C3	107.613	VHL	10.374	DLA	41.64	RAL	290.50	RAD	6570.1	VEL	15.131	PTH	2.72	VHP	12.580	DPA	-66.83	RAP	64.91

ECC	2.7710																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
58.10	20 35 57	4595.08	-11.50	209.72	187.28	49.70	21 52 32	3995.1	-16.60	203.77
121.90	3 40 8	3289.77	-11.49	109.81	187.27	49.70	4 34 58	2689.8	-16.58	103.87
58.10	20 35 57	4595.08	-11.50	209.72	187.28	49.70	21 52 32	3995.1	-16.60	203.77
121.90	3 40 8	3289.77	-11.49	109.81	187.27	49.70	4 34 58	2689.8	-16.58	103.87
58.10	20 35 57	4595.08	-11.50	209.72	187.28	49.70	21 52 32	3995.1	-16.60	203.77
121.90	3 40 8	3289.77	-11.49	109.81	187.27	49.70	4 34 58	2689.8	-16.58	103.87

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-5.2514	TRA	-3.1951	TC3	-.0752	BAU	.1230	SGT	3743.2	SGR	1904.8	SG3	144.5	ST	2985.7	SR	1783.1	SS	1533.8
RDE	3.2060	RRA	.9431	RC3	-.0405	FAU	-.00565	RRT	-.9493	RRF	.9710	RTF	-.9960	CRT	-.9926	CRS	-.9966	CST	.9992
FDE	2.5039	FRA	1.2652	FC3	.0455	BSP	12991	SGB	4200.0	R23	-.0178	R13	.9991	LSA	3796.2	MSA	186.9	SSA	2.0
BDE	6.1527	BRA	3.3314	BC3	.0855	FSP	-461	SG1	4165.4	SG2	538.4	THA	153.74	EL1	3472.6	EL2	186.6	ALF	149.24

LAUNCH DATE SEP 30 1965 FLIGHT TIME 152.00 ARRIVAL DATE MAR 1 1966

HELIOCENTRIC CONIC DISTANCE 402.358

RL	149.81	LAL	.00	LOL	6.63	VL	27.228	GAL	3.66	AZL	61.38	HCA	173.12	SMA	128.80	ECC	.17489	INC	28.6227
RP	107.73	LAP	3.29	LOP	180.58	VP	37.860	GAP	-3.60	AZP	118.45	TAL	162.24	TAP	335.36	RCA	106.27	APO	151.32
RC	61.127	GL	64.18	GP	-80.06	ZAL	81.11	ZAP	81.73	ETS	142.15	ZAE	81.41	ETE	19.71	ZAC	110.28	ETC	234.46

V1	29.743	V2	35.176	CLP	33.53														

PLANETOCENTRIC CONIC

C3	209.091	VHL	14.460	DLA	42.23	RAL	285.71	RAD	6571.2	VEL	18.177	PTH	3.02	VHP	17.782	DPA	-59.82	RAP	80.14

ECC	4.4411																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
57.26	20 13 18	4724.40	-6.25	216.37	188.80	48.15	21 32 2	4124.4	-11.55	210.71
122.74	3 24 35	3399.62	-6.24	114.76	188.78	48.15	4 21 15	2799.6	-11.53	109.10
57.26	20 13 18	4724.40	-6.25	216.37	188.80	48.15	21 32 2	4124.4	-11.55	210.71
122.74	3 24 35	3399.62	-6.24	114.76	188.78	48.15	4 21 15	2799.6	-11.53	109.10
57.26	20 13 18	4724.40	-6.25	216.37	188.80	48.15	21 32 2	4124.4	-11.55	210.71
122.74	3 24 35	3399.62	-6.24	114.76	188.78	48.15	4 21 15	2799.6	-11.53	109.10

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-6.7765	TRA	-2.5015	TC3	-.1442	BAU	.5517	SGT	3029.1	SGR	3088.9	SG3	101.1	ST	2715.0	SR	2565.2	SS	1543.9
RDE	-6.3356	RRA	-3.2837	RC3	-.1347	FAU	-.01605	RRT	.9892	RRF	-.9969	RTF	-.9966	CRT	.9983	CRS	.9996	CST	.9995
FDE	2.4956	FRA	1.1120	FC3	.0664	BSP	13320	SGB	4326.3	R23	-.0010	R13	-.9995	LSA	4040.2	MSA	109.2	SSA	1.7
BDE	9.2769	BRA	4.1280	BC3	.1574	FSP	-325	SG1	4314.6	SG2	318.5	THA	45.57	EL1	3733.6	EL2	109.1	ALF	43.37

LAUNCH DATE SEP 30 1965 FLIGHT TIME 154.00 ARRIVAL DATE MAR 3 1966

HELIOCENTRIC CONIC DISTANCE 408.157

RL	149.81	LAL	.00	LOL	6.63	VL	27.254	GAL	3.73	AZL	40.92	HCA	175.71	SMA	128.97	ECC	.17388	INC	49.0821
RP	107.76	LAP	3.24	LOP	183.82	VP	37.869	GAP	-3.29	AZP	139.00	TAL	161.75	TAP	337.46	RCA	106.54	APO	151.40
RC	63.151	GL	59.43	GP	-70.15	ZAL	84.54	ZAP	85.47	ETS	177.09	ZAE	67.59	ETE	54.25	ZAC	123.98	ETC	273.85

V1	29.743	V2	35.166	CLP	76.54														

PLANETOCENTRIC CONIC

C3	569.721	VHL	23.869	DLA	36.64	RAL	280.93	RAD	6572.5	VEL	26.287	PTH	3.37	VHP	29.864	DPA	-46.20	RAP	89.75

ECC	10.3762																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
65.71	20 34 8	4720.53	-1.10	211.83	189.47	53.37	21 52 48	4120.5	-5.86	205.80
114.29	2 25 36	3623.30	-1.08	129.28	189.45	53.37	3 25 59	3023.3	-5.84	123.25
65.71	20 34 8	4720.53	-1.10	211.83	189.47	53.37	21 52 48	4120.5	-5.86	205.80
114.29	2 25 36	3623.30	-1.08	129.28	189.45	53.37	3 25 59	3023.3	-5.84	123.25
65.71	20 34 8	4720.53	-1.10	211.83	189.47	53.37	21 52 48	4120.5	-5.86	205.80
114.29	2 25 36	3623.30	-1.08	129.28	189.45	53.37	3 25 59	3023.3	-5.84	123.25

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-5.2979	TRA	-.2628	TC3	-.1067	BAU	2.2179	SGT	1372.2	SGR	4021.3	SG3	74.7	ST	1272.0	SR	3383.3	SS	1858.2
RDE	-13.9067	RRA	-6.1215	RC3	-.2710	FAU	-.04157	RRT	.9148	RRF	-.9996	RTF	-.9172	CRT	.9896	CRS	1.0000	CST	.9896
FDE	2.9603	FRA	1.3002	FC3	.0632	BSP	12590	SGB	4248.9	R23	-.0331	R13	-.9991	LSA	4060.5	MSA	174.1	SSA	1.8
BDE	14.8816	BRA	6.1272	BC3	.2912	FSP	-232	SG1	4215.9	SG2	528.5	THA	72.38	EL1	3610.5	EL2	171.7	ALF	69.54

LAUNCH DATE SEP 30 1965 FLIGHT TIME 156.00 ARRIVAL DATE MAR 5 1966

HELIOCENTRIC CONIC DISTANCE 419.583

RL	149.81	LAL	.00	LOL	6.63	VL	27.275	GAL	2.79	AZL	172.42	HCA	183.20	SMA	129.12	ECC	.16730	INC	82.4204
RP	107.80	LAP	3.18	LOP	187.05	VP	37.874	GAP	-1.56	AZP	7.59	TAL	165.87	TAP	349.07	RCA	107.52	APO	150.72
RC	65.219	GL	-45.86	GP	50.55	ZAL	87.22	ZAP	88.56	ETS	186.93	ZAE	63.27	ETE	307.06	ZAC	114.71	ETC	85.20

V1	29.743	V2	35.155	CLP	87.73														

PLANETOCENTRIC CONIC

C3	1416.192	VHL	37.632	DLA	-68.54	RAL	290.54	RAD	6573.2	VEL	39.211	PTH	3.55	VHP	48.727	DPA	74.94	RAP	91.72

ECC	24.3069																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
24.55	6 57 54	2446.48	-1.25	77.50	201.02	158.54	7 38 41	1846.5	6.19	74.98
155.45	17 18 30	702.52	-1.24	289.24	201.04	158.54	17 30 12	102.5	6.20	286.72
24.55	6 57 54	2446.48	-1.25	77.50	201.02	158.54	7 38 41	1846.5	6.19	74.98
155.45	17 18 30	702.52	-1.24	289.24	201.04	158.54	17 30 12	102.5	6.20	286.72
24.55	6 57 54	2446.48	-1.25	77.50	201.02	158.54	7 38 41	1846.5	6.19	74.98
155.45	17 18 30	702.52	-1.24	289.24	201.04	158.54	17 30 12	102.5	6.20	286.72

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	8.7452	TRA	-1.1066	TC3	-.1423	BAU	5.4127	SGT	1769.7	SGR	3193.5	SG3	68.1	ST	1339.0	SR	1830.3	SS	2024.8
RDE	-11.4022	RRA	4.6226	RC3	.2480	FAU	-.09757	RRT	-.9194	RRF	.9987	RTF	-.9349	CRT	-.9764	CRS	-.9995	CST	.9830
FDE	-3.0275	FRA	1.0944	FC3	.0596	BSP	10973	SGB	3651.1	R23	-.0483	R13	.9985	LSA	3030.5	MSA	243.1	SSA	2.5
BDE	14.3698	BRA	4.7532	BC3	.2859	FSP	-210	SG1	3598.5	SG2	617.6	THA	117.89	EL1	2255.7	EL2	234.6	ALF	125.99

392A

LAUNCH DATE SEP 30 1965 FLIGHT TIME 158.00 ARRIVAL DATE MAR 7 1966

HELIOCENTRIC CONIC DISTANCE 424.192

RL 149.81 LAL .00 LOL 6.63 VL 27.294 GAL 3.10 AZL 130.38 HCA 184.79 SMA 129.24 ECC .16783 INC40.3839 V1 29.743
RP 107.83 LAP 3.10 LOP 190.28 VP 37.877 GAP -1.56 AZP 49.72 TAL 164.31 TAP 349.10 RCA 107.55 APO 150.93 V2 35.143
RC 67.327 GL -62.50 GP 74.53 ZAL 84.32 ZAP 87.29 ETS 202.67 ZAE 84.69 ETE 316.96 ZAC 91.20 ETC 98.33 CLP 79.79

PLANETOCENTRIC CONIC

C3 396.312 VHL 19.908 DLA -80.92 RAL 342.41 RAD 6572.1 VEL 22.751 PTH 3.27 VHP 26.114 DPA 80.70 RAP 290.04 ECC 7.5223

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
10.33	9 55 45	2397.24	3.89	83.88	251.78	170.90	10 35 42	1797.2	11.79	83.01
169.67	21 14 28	5884.64	3.89	259.19	251.80	170.90	22 52 33	5284.6	11.79	258.32
10.33	9 55 45	2397.24	3.89	83.88	251.78	170.90	10 35 42	1797.2	11.79	83.01
169.67	21 14 28	5884.64	3.89	259.19	251.80	170.90	22 52 33	5284.6	11.79	258.32
10.33	9 55 45	2397.24	3.89	83.88	251.78	170.90	10 35 42	1797.2	11.79	83.01
169.67	21 14 28	5884.64	3.89	259.19	251.80	170.90	22 52 33	5284.6	11.79	258.32

DIFFERENTIAL CORRECTIONS
TDE 1.6631 TRA-1.4600 TC3 -.1753 BAU 1.5276
RDE 1.2317 RRA 1.8870 RC3 .2289 FAU-.02668
FDE .0630 FRA .5185 FC3 .0583 BSP 14175
BDE 2.0695 BRA 2.3859 BC3 .2883 FSP -269

MID-COURSE EXECUTION ACCURACY
SGT 2794.3 SGR 3578.1 SG3 84.2
RRT -.9634 RRF .9966 RTF -.9817
SGB 4540.0 R23 -.0212 R13 .9996
SG1 4500.8 SG2 595.5 THA 127.73

ORBIT DETERMINATION ACCURACY
ST 931.6 SR 1092.1 SS 641.7
CRT -.6447 CRS -.9646 CST .8234
LSA 1454.6 MSA 597.0 SSA 1.1
EL1 1306.1 EL2 595.5 ALF 128.05

LAUNCH DATE SEP 30 1965 FLIGHT TIME 160.00 ARRIVAL DATE MAR 9 1966

HELIOCENTRIC CONIC DISTANCE 430.079

RL 149.81 LAL .00 LOL 6.63 VL 27.309 GAL 3.18 AZL 113.77 HCA 187.51 SMA 129.35 ECC .16742 INC23.7663 V1 29.743
RP 107.87 LAP 3.02 LOP 193.51 VP 37.877 GAP -1.24 AZP 66.42 TAL 163.82 TAP 351.34 RCA 107.69 APO 151.00 V2 35.132
RC 69.470 GL -64.72 GP 85.26 ZAL 80.47 ZAP 86.34 ETS 257.57 ZAE 95.84 ETE 9.28 ZAC 79.79 ETC 149.05 CLP 39.46

PLANETOCENTRIC CONIC

C3 147.691 VHL 12.153 DLA -77.84 RAL 5.02 RAD 6570.6 VEL 16.402 PTH 2.87 VHP 16.138 DPA 68.69 RAP 287.14 ECC 3.4306

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
13.85	11 32 52	2255.84	12.94	80.52	272.18	167.52	12 10 28	1655.8	20.75	79.10
166.15	22 37 46	5752.59	12.95	259.25	272.19	167.52	24 13 39	5152.6	20.75	257.83
13.85	11 32 52	2255.84	12.94	80.52	272.18	167.52	12 10 28	1655.8	20.75	79.10
166.15	22 37 46	5752.59	12.95	259.25	272.19	167.52	24 13 39	5152.6	20.75	257.83
13.85	11 32 52	2255.84	12.94	80.52	272.18	167.52	12 10 28	1655.8	20.75	79.10
166.15	22 37 46	5752.59	12.95	259.25	272.19	167.52	24 13 39	5152.6	20.75	257.83

DIFFERENTIAL CORRECTIONS
TDE-3.8162 TRA-1.9566 TC3 -.1488 BAU .3011
RDE 1.0621 RRA -.1304 RC3 .0334 FAU-.00482
FDE 1.1671 FRA .5672 FC3 .0282 BSP 14921
BDE 3.9612 BRA 1.9609 BC3 .1525 FSP -381

MID-COURSE EXECUTION ACCURACY
SGT 4747.7 SGR 585.2 SG3 119.7
RRT .1250 RRF -.1101 RTF -.9995
SGB 4783.7 R23 .0168 R13 -.9994
SG1 4748.3 SG2 580.5 THA .90

ORBIT DETERMINATION ACCURACY
ST 2227.7 SR 508.3 SS 933.1
CRT -.6941 CRS -.7120 CST .9997
LSA 2441.6 MSA 361.3 SSA 1.6
EL1 2256.2 EL2 361.3 ALF 170.76

LAUNCH DATE SEP 30 1965 FLIGHT TIME 162.00 ARRIVAL DATE MAR 11 1966

HELIOCENTRIC CONIC DISTANCE 436.275

RL 149.81 LAL .00 LOL 6.63 VL 27.320 GAL 3.22 AZL 106.25 HCA 190.52 SMA 129.43 ECC .16694 INC16.2519 V1 29.743
RP 107.90 LAP 2.93 LOP 196.74 VP 37.874 GAP -.84 AZP 74.01 TAL 163.56 TAP 354.09 RCA 107.82 APO 151.04 V2 35.120
RC 71.643 GL -61.81 GP 83.90 ZAL 76.45 ZAP 86.16 ETS 313.77 ZAE 102.81 ETE 63.50 ZAC 72.82 ETC 200.81 CLP -51.00

PLANETOCENTRIC CONIC

C3 75.011 VHL 8.661 DLA -73.73 RAL .36 RAD 6569.5 VEL 14.013 PTH 2.56 VHP 11.584 DPA 61.15 RAP 287.47 ECC 2.2345

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
18.55	11 23 44	2105.71	21.92	74.87	263.61	162.43	11 58 50	1505.7	29.52	72.52
161.45	22 9 43	5619.57	21.92	258.28	263.63	162.42	23 43 22	5019.6	29.53	255.93
18.55	11 23 44	2105.71	21.92	74.87	263.61	162.43	11 58 50	1505.7	29.52	72.52
161.45	22 9 43	5619.57	21.92	258.28	263.63	162.42	23 43 22	5019.6	29.53	255.93
18.55	11 23 44	2105.71	21.92	74.87	263.61	162.43	11 58 50	1505.7	29.52	72.52
161.45	22 9 43	5619.57	21.92	258.28	263.63	162.42	23 43 22	5019.6	29.53	255.93

DIFFERENTIAL CORRECTIONS
TDE-1.8432 TRA -.9113 TC3 -.0283 BAU .1376
RDE-1.6350 RRA-1.7141 RC3 .1343 FAU .00702
FDE 1.0348 FRA .7937 FC3 -.0810 BSP 15221
BDE 2.4639 BRA 1.9413 BC3 .1372 FSP -553

MID-COURSE EXECUTION ACCURACY
SGT 2474.0 SGR 4196.4 SG3 172.8
RRT .9650 RRF -.9959 RTF -.9823
SGB 4871.4 R23 .0139 R13 -.9991
SG1 4838.9 SG2 562.4 THA 59.91

ORBIT DETERMINATION ACCURACY
ST 1379.8 SR 1626.2 SS 886.7
CRT .9372 CRS .9879 CST .9799
LSA 2279.4 MSA 372.7 SSA 2.3
EL1 2099.9 EL2 372.7 ALF 50.00

LAUNCH DATE SEP 30 1965 FLIGHT TIME 164.00 ARRIVAL DATE MAR 13 1966

HELIOCENTRIC CONIC DISTANCE 442.560

RL 149.81 LAL .00 LOL 6.63 VL 27.330 GAL 3.25 AZL 102.09 HCA 193.63 SMA 129.49 ECC .16658 INC12.0914 V1 29.743
RP 107.94 LAP 2.83 LOP 199.96 VP 37.870 GAP -.43 AZP 78.24 TAL 163.36 TAP 356.99 RCA 107.92 APO 151.06 V2 35.108
RC 73.845 GL -57.23 GP 78.80 ZAL 72.50 ZAP 86.81 ETS 334.64 ZAE 108.01 ETE 82.85 ZAC 67.49 ETC 217.30 CLP -73.37

PLANETOCENTRIC CONIC

C3 46.204 VHL 6.797 DLA -69.30 RAL 352.90 RAD 6568.7 VEL 12.945 PTH 2.36 VHP 9.102 DPA 55.37 RAP 287.60 ECC 1.7604

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
23.67	11 4 44	1975.19	28.72	67.51	250.94	156.23	11 37 39	1375.2	35.98	63.95
156.33	21 29 9	5514.21	28.73	256.21	250.96	156.23	23 1 3	4914.2	35.99	252.65
23.67	11 4 44	1975.19	28.72	67.51	250.94	156.23	11 37 39	1375.2	35.98	63.95
156.33	21 29 9	5514.21	28.73	256.21	250.96	156.23	23 1 3	4914.2	35.99	252.65
23.67	11 4 44	1975.19	28.72	67.51	250.94	156.23	11 37 39	1375.2	35.98	63.95
156.33	21 29 9	5514.21	28.73	256.21	250.96	156.23	23 1 3	4914.2	35.99	252.65

DIFFERENTIAL CORRECTIONS
TDE -.8472 TRA -.2765 TC3 -.0750 BAU .2805
RDE-1.1179 RRA-1.9610 RC3 .4478 FAU .01712
FDE .8245 FRA 1.1149 FC3 -.3208 BSP 15345
BDE 1.4026 BRA 1.9804 BC3 .4541 FSP -772

MID-COURSE EXECUTION ACCURACY
SGT 977.4 SGR 4809.9 SG3 240.4
RRT .7861 RRF -.9980 RTF -.8109
SGB 4908.2 R23 .0229 R13 -.9986
SG1 4871.8 SG2 596.5 THA 80.78

ORBIT DETERMINATION ACCURACY
ST 741.1 SR 1690.3 SS 832.1
CRT .7588 CRS .9922 CST .8342
LSA 1972.3 MSA 456.9 SSA 3.0
EL1 1788.3 EL2 456.2 ALF 70.26

LAUNCH DATE SEP 30 1965 FLIGHT TIME 166.00 ARRIVAL DATE MAR 15 1966

HELIOCENTRIC CONIC DISTANCE 448.873

RL	149.81	LAL	.00	LOL	6.63	VL	27.336	GAL	3.28	AZL	99.46	HCA	196.77	SMA	129.54	ECC	.16640	INC	9.4614
RP	107.98	LAP	2.72	LOP	203.18	VP	37.863	GAP	-.01	AZP	80.93	TAL	163.16	TAP	359.93	RCA	107.98	APO	151.09
RC	76.070	GL	-52.10	GP	74.12	ZAL	68.75	ZAP	88.24	ETS	345.92	ZAE	112.20	ETE	93.12	ZAC	62.89	ETC	224.40

V1	29.743																		
V2	35.095																		
CLP	-83.55																		

PLANETOCENTRIC CONIC

C3	32.322	VHL	5.685	DLA	-64.59	RAL	346.58	RAD	6568.3	VEL	12.397	PTH	2.24	VHP	7.578	DPA	50.42	RAP	287.36

ECC	1.5319																		
INJ 2 LONG																			

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
29.17	10 51 51	1867.30	32.97	58.88	238.63	149.24	11 22 58	1267.3	39.74	53.99
150.83	20 51 39	5441.83	32.98	253.60	238.64	149.24	22 22 21	4841.8	39.74	248.71
29.17	10 51 51	1867.30	32.97	58.88	238.63	149.24	11 22 58	1267.3	39.74	53.99
150.83	20 51 39	5441.83	32.98	253.60	238.64	149.24	22 22 21	4841.8	39.74	248.71
29.17	10 51 51	1867.30	32.97	58.88	238.63	149.24	11 22 58	1267.3	39.74	53.99
150.83	20 51 39	5441.83	32.98	253.60	238.64	149.24	22 22 21	4841.8	39.74	248.71

DIFFERENTIAL CORRECTIONS

TDE	-.5082	TRA	.0917	TC3	-.2294	BAU	.3636
RDE	-.6555	RRA	-2.0113	RC3	.8097	FAU	.02733
FDE	.6616	FRA	1.4943	FC3	-.7320	BSP	15611
BDE	.8294	BRA	2.0134	BC3	.8416	FSP	-1042

MID-COURSE EXECUTION ACCURACY

SGT	613.8	SGR	4858.5	SG3	317.0		
RRT	-.3085	RRF	-.9981	RTF	..2807		
SGB	4897.1	R23	.0333	R13	-.9980		
SG1	4862.2	SG2	583.5	THA	92.26		

ORBIT DETERMINATION ACCURACY

ST	516.3	SR	1564.0	SS	816.2		
CRT	.3053	CRS	.9918	CST	.4245		
LSA	1770.7	MSA	493.5	SSA	3.8		
EL1	1572.8	EL2	488.9	ALF	83.63		

LAUNCH DATE SEP 30 1965 FLIGHT TIME 168.00 ARRIVAL DATE MAR 17 1966

HELIOCENTRIC CONIC DISTANCE 455.189

RL	149.81	LAL	.00	LOL	6.63	VL	27.340	GAL	3.33	AZL	97.65	HCA	199.94	SMA	129.56	ECC	.16642	INC	7.6461
RP	108.02	LAP	2.60	LOP	206.40	VP	37.854	GAP	.41	AZP	82.81	TAL	162.93	TAP	2.86	RCA	108.00	APO	151.13
RC	78.316	GL	-46.89	GP	69.82	ZAL	65.26	ZAP	90.35	ETS	354.03	ZAE	115.70	ETE	100.81	ZAC	58.64	ETC	228.56

V1	29.743																		
V2	35.082																		
CLP	-91.01																		

PLANETOCENTRIC CONIC

C3	24.746	VHL	4.975	DLA	-59.78	RAL	341.75	RAD	6568.0	VEL	12.088	PTH	2.16	VHP	6.569	DPA	45.94	RAP	286.83

ECC	1.4073																		
INJ 2 LONG																			

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
34.87	10 46 24	1776.98	34.99	49.67	227.67	142.09	11 16 1	1177.0	41.13	43.57
145.13	20 18 35	5398.97	35.00	251.12	227.69	142.09	21 48 34	4799.0	41.14	245.02
34.87	10 46 24	1776.98	34.99	49.67	227.67	142.09	11 16 1	1177.0	41.13	43.57
145.13	20 18 35	5398.97	35.00	251.12	227.69	142.09	21 48 34	4799.0	41.14	245.02
34.87	10 46 24	1776.98	34.99	49.67	227.67	142.09	11 16 1	1177.0	41.13	43.57
145.13	20 18 35	5398.97	35.00	251.12	227.69	142.09	21 48 34	4799.0	41.14	245.02

DIFFERENTIAL CORRECTIONS

TDE	-.3596	TRA	.3797	TC3	-.4798	BAU	.4070
RDE	-.4215	RRA	-2.0245	RC3	1.1329	FAU	.03676
FDE	.5914	FRA	1.9307	FC3	-1.2860	BSP	15399
BDE	.5540	BRA	2.0598	BC3	1.2303	FSP	-1304

MID-COURSE EXECUTION ACCURACY

SGT	1074.3	SGR	4792.3	SG3	401.7		
RRT	-.8472	RRF	-.9980	RTF	.8342		
SGB	4911.3	R23	.0434	R13	-.9973		
SG1	4879.2	SG2	560.7	THA	100.90		

ORBIT DETERMINATION ACCURACY

ST	489.5	SR	1472.5	SS	846.1		
CRT	-.2243	CRS	.9904	CST	-.0875		
LSA	1698.0	MSA	490.4	SSA	4.6		
EL1	1477.0	EL2	475.6	ALF	94.76		

LAUNCH DATE SEP 30 1965 FLIGHT TIME 170.00 ARRIVAL DATE MAR 19 1966

HELIOCENTRIC CONIC DISTANCE 461.497

RL	149.81	LAL	.00	LOL	6.63	VL	27.342	GAL	3.38	AZL	96.31	HCA	203.11	SMA	129.58	ECC	.16665	INC	6.3128
RP	108.06	LAP	2.47	LOP	209.62	VP	37.843	GAP	.82	AZP	84.19	TAL	162.67	TAP	5.78	RCA	107.98	APO	151.17
RC	80.581	GL	-41.82	GP	65.76	ZAL	62.09	ZAP	93.04	ETS	.57	ZAE	118.63	ETE	107.55	ZAC	54.59	ETC	231.44

V1	29.743																		
V2	35.069																		
CLP	-97.43																		

PLANETOCENTRIC CONIC

C3	20.262	VHL	4.501	DLA	-55.02	RAL	338.12	RAD	6567.8	VEL	11.901	PTH	2.11	VHP	5.871	DPA	41.74	RAP	286.08

ECC	1.3335																		
INJ 2 LONG																			

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
40.63	10 47 15	1698.02	35.32	40.50	218.39	135.37	11 15 33	1098.0	40.79	33.50
139.37	19 48 44	5380.98	35.33	249.39	218.40	135.36	21 18 25	4781.0	40.80	242.38
40.63	10 47 15	1698.02	35.32	40.50	218.39	135.37	11 15 33	1098.0	40.79	33.50
139.37	19 48 44	5380.98	35.33	249.39	218.40	135.36	21 18 25	4781.0	40.80	242.38
40.63	10 47 15	1698.02	35.32	40.50	218.39	135.37	11 15 33	1098.0	40.79	33.50
139.37	19 48 44	5380.98	35.33	249.39	218.40	135.36	21 18 25	4781.0	40.80	242.38

DIFFERENTIAL CORRECTIONS

TDE	-.2667	TRA	.6395	TC3	-.7988	BAU	.4391
RDE	-.3072	RRA	-1.9960	RC3	1.4106	FAU	.04608
FDE	.5885	FRA	2.3812	FC3	-1.9688	BSP	15369
BDE	.4068	BRA	2.0959	BC3	1.6211	FSP	-1586

MID-COURSE EXECUTION ACCURACY

SGT	1627.4	SGR	4626.9	SG3	486.1		
RRT	-.9394	RRF	-.9978	RTF	.9313		
SGB	4904.7	R23	.0539	R13	-.9965		
SG1	4876.1	SG2	529.5	THA	108.51		

ORBIT DETERMINATION ACCURACY

ST	545.1	SR	1386.4	SS	890.3		
CRT	-.5748	CRS	.9880	CST	-.4416		
LSA	1671.6	MSA	466.6	SSA	5.4		
EL1	1425.1	EL2	433.9	ALF	104.07		

LAUNCH DATE SEP 30 1965 FLIGHT TIME 172.00 ARRIVAL DATE MAR 21 1966

HELIOCENTRIC CONIC DISTANCE 467.792

RL	149.81	LAL	.00	LOL	6.63	VL	27.341	GAL	3.44	AZL	95.29	HCA	206.30	SMA	129.57	ECC	.16707	INC	5.2874
RP	108.10	LAP	2.34	LOP	212.83	VP	37.830	GAP	1.24	AZP	85.26	TAL	162.37	TAP	8.66	RCA	107.92	APO	151.22
RC	82.862	GL	-36.99	GP	61.87	ZAL	59.23	ZAP	96.21	ETS	6.08	ZAE	121.06	ETE	113.85	ZAC	50.66	ETC	233.53

V1	29.743																		
V2	35.056																		
CLP	-103.27																		

PLANETOCENTRIC CONIC

C3	17.469	VHL	4.180	DLA	-50.44	RAL	335.38	RAD	6567.7	VEL	11.784	PTH	2.08	VHP	5.377	DPA	37.73	RAP	285.23

ECC	1.2875																		
INJ 2 LONG																			

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
46.34	10 53 26	1624.95	34.48	31.67	210.80	129.41	11 20 31	1025.0	39.31	24.10
133.66	19 20 42	5384.26	34.49	248.81	210.81	129.40	20 50 26	4784.3	39.32	241.24
46.34	10 53 26	1624.95	34.48	31.67	210.80	129.41	11 20 31	1025.0	39.31	24.10
133.66	19 20 42	5384.26	34.49	248.81	210.81	129.40	20 50 26	4784.3	39.32	241.24
46.34	10 53 26	1624.95	34.48	31.67	210.80	129.41	11 20 31	1025.0	39.31	24.10
133.66	19 20 42	5384.26	34.49	248.81	210.81	129.40	20 50 26	4784.3	39.32	241.24

DIFFERENTIAL CORRECTIONS

TDE	-.1888	TRA	.8835	TC3	-1.1654	BAU	.4638
RDE	-.2608	RRA	-1.9411	RC3	1.6082	FAU	.05458
FDE	.6479	FRA	2.8271	FC3	-2.7048	BSP	15359
BDE	.3220	BRA	2.1327	BC3	1.9861	FSP	-1859

MID-COURSE EXECUTION ACCURACY

SGT	2152.2	SGR	4403.5	SG3	566.1		
RRT	-.9667	RRF	-.9975	RTF	.9605		
SGB	4901.3	R23	.0637	R13	-.9956		
SG1	4876.0	SG2	497.3	THA	115.57		

ORBIT DETERMINATION ACCURACY

ST	627.1	SR	1304.0	SS	943.7		
CRT	-.7626	CRS	.9847	CST	-.6386		
LSA	1671.4	MSA	436.8	SSA	6.2		
EL1	1396.5	EL2	378.8	ALF	111.83		

LAUNCH DATE SEP 30 1965 FLIGHT TIME 174.00 ARRIVAL DATE MAR 23 1966

HELIOCENTRIC CONIC DISTANCE 474.070

RL 149.81 LAL .00 LOL 6.63 VL 27.339 GAL 3.52 AZL 94.47 HCA 209.48 SMA 129.55 ECC .16770 INC 4.4702 V1 29.743
RP 108.14 LAP 2.20 LOP 216.04 VP 37.816 GAP 1.65 AZP 86.11 TAL 162.03 TAP 11.51 RCA 107.83 APO 151.28 V2 35.043
RC 85.157 GL -32.48 GP 58.08 ZAL 56.68 ZAP 99.74 ETS 10.76 ZAE 123.01 ETE 119.87 ZAC 46.85 ETC 235.01 CLP-108.66

PLANETOCENTRIC CONIC

C3 15.681 VHL 3.960 DLA -46.10 RAL 333.30 RAD 6567.6 VEL 11.708 PTH 2.06 VHP 5.026 DPA 33.86 RAP 284.35 ECC 1.2581

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
51.97	11 4 19	1553.22	32.90	23.22	204.78	124.32	11 30 12	953.2	37.14	15.34
128.03	18 53 15	5406.56	32.91	249.57	204.79	124.30	20 23 22	4806.6	37.15	241.70
51.97	11 4 19	1553.22	32.90	23.22	204.78	124.32	11 30 12	953.2	37.14	15.34
128.03	18 53 15	5406.56	32.91	249.57	204.79	124.30	20 23 22	4806.6	37.15	241.70
51.97	11 4 19	1553.22	32.90	23.22	204.78	124.32	11 30 12	953.2	37.14	15.34
128.03	18 53 15	5406.56	32.91	249.57	204.79	124.30	20 23 22	4806.6	37.15	241.70

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.1101 TRA 1.1165 TC3-1.5507 BAU .4854 SGT 2638.2 SGR 4142.0 SG3 637.3 ST 717.7 SR 1222.6 SS 1002.1
RDE -.2466 RRA-1.8671 RC3 1.7190 FAU .06194 RRT -.9782 RRF -.9971 RTF .9729 CRT -.8677 CRS .9808 CST -.7543
FDE .7537 FRA 3.2468 FC3-3.4193 BSP 15370 SGB 4910.8 R23 .0719 R13 -.9946 LSA 1687.9 MSA 406.2 SSA 7.1
BDE .2700 BRA 2.1754 BC3 2.3151 FSP -2106 SG1 4888.9 SG2 463.7 THA 122.25 EL1 1382.1 EL2 315.6 ALF 118.62

LAUNCH DATE SEP 30 1965 FLIGHT TIME 176.00 ARRIVAL DATE MAR 25 1966

HELIOCENTRIC CONIC DISTANCE 480.328

RL 149.81 LAL .00 LOL 6.63 VL 27.334 GAL 3.61 AZL 93.80 HCA 212.67 SMA 129.52 ECC .16852 INC 3.8001 V1 29.743
RP 108.18 LAP 2.05 LOP 219.24 VP 37.801 GAP 2.05 AZP 86.80 TAL 161.65 TAP 14.32 RCA 107.70 APO 151.35 V2 35.030
RC 87.465 GL -28.31 GP 54.41 ZAL 54.42 ZAP 103.51 ETS 14.73 ZAE 124.51 ETE 125.63 ZAC 43.16 ETC 235.92 CLP-113.67

PLANETOCENTRIC CONIC

C3 14.535 VHL 3.812 DLA -42.03 RAL 331.73 RAD 6567.6 VEL 11.658 PTH 2.05 VHP 4.779 DPA 30.12 RAP 283.51 ECC 1.2392

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
57.54	11 19 53	1478.35	30.90	14.96	200.10	120.04	11 44 31	878.4	34.63	6.96
122.46	18 25 7	5447.41	30.91	251.78	200.11	120.03	19 55 54	4847.4	34.64	243.78
57.54	11 19 53	1478.35	30.90	14.96	200.10	120.04	11 44 31	878.4	34.63	6.96
122.46	18 25 7	5447.41	30.91	251.78	200.11	120.03	19 55 54	4847.4	34.64	243.78
57.54	11 19 53	1478.35	30.90	14.96	200.10	120.04	11 44 31	878.4	34.63	6.96
122.46	18 25 7	5447.41	30.91	251.78	200.11	120.03	19 55 54	4847.4	34.64	243.78

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.0250 TRA 1.3401 TC3-1.9285 BAU .5049 SGT 3084.5 SGR 3857.6 SG3 696.4 ST 815.4 SR 1143.5 SS 1064.8
RDE -.2470 RRA-1.7809 RC3 1.7410 FAU .06762 RRT -.9838 RRF -.9965 RTF .9790 CRT -.9298 CRS .9765 CST -.8286
FDE .8937 FRA 3.6235 FC3-4.0273 BSP 15402 SGB 4939.1 R23 .0778 R13 -.9935 LSA 1721.5 MSA 377.7 SSA 8.1
BDE .2482 BRA 2.2287 BC3 2.5981 FSP -2310 SG1 4920.1 SG2 433.3 THA 128.54 EL1 1382.3 EL2 248.3 ALF 124.83

LAUNCH DATE SEP 30 1965 FLIGHT TIME 178.00 ARRIVAL DATE MAR 27 1966

HELIOCENTRIC CONIC DISTANCE 486.567

RL 149.81 LAL .00 LOL 6.63 VL 27.328 GAL 3.72 AZL 93.24 HCA 215.86 SMA 129.48 ECC .16953 INC 3.2375 V1 29.743
RP 108.22 LAP 1.90 LOP 222.45 VP 37.784 GAP 2.46 AZP 87.38 TAL 161.23 TAP 17.09 RCA 107.53 APO 151.43 V2 35.016
RC 89.783 GL -24.47 GP 50.86 ZAL 52.42 ZAP 107.42 ETS 18.08 ZAE 125.58 ETE 131.09 ZAC 39.63 ETC 236.26 CLP-118.32

PLANETOCENTRIC CONIC

C3 13.823 VHL 3.718 DLA -38.25 RAL 330.54 RAD 6567.5 VEL 11.628 PTH 2.04 VHP 4.614 DPA 26.53 RAP 282.77 ECC 1.2275

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
63.14	11 40 40	1395.29	28.68	6.54	196.56	116.46	12 3 56	795.3	31.99	358.52
116.86	17 54 49	5508.31	28.70	255.58	196.56	116.45	19 26 37	4908.3	32.00	247.55
63.14	11 40 40	1395.29	28.68	6.54	196.56	116.46	12 3 56	795.3	31.99	358.52
116.86	17 54 49	5508.31	28.70	255.58	196.56	116.45	19 26 37	4908.3	32.00	247.55
63.14	11 40 40	1395.29	28.68	6.54	196.56	116.46	12 3 56	795.3	31.99	358.52
116.86	17 54 49	5508.31	28.70	255.58	196.56	116.45	19 26 37	4908.3	32.00	247.55

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE .0671 TRA 1.5541 TC3-2.2785 BAU .5253 SGT 3490.2 SGR 3559.1 SG3 740.3 ST 922.1 SR 1063.5 SS 1125.9
RDE -.2483 RRA-1.6843 RC3 1.6997 FAU .07183 RRT -.9870 RRF -.9958 RTF .9826 CRT -.9674 CRS .9715 CST -.8799
FDE 1.0459 FRA 3.9354 FC3-4.4987 BSP 15530 SGB 4984.8 R23 .0802 R13 -.9925 LSA 1767.9 MSA 351.2 SSA 9.1
BDE .2572 BRA 2.2918 BC3 2.8426 FSP -2474 SG1 4968.6 SG2 402.2 THA 134.43 EL1 1396.3 EL2 178.0 ALF 130.79

LAUNCH DATE SEP 30 1965 FLIGHT TIME 180.00 ARRIVAL DATE MAR 29 1966

HELIOCENTRIC CONIC DISTANCE 492.783

RL 149.81 LAL .00 LOL 6.63 VL 27.320 GAL 3.84 AZL 92.76 HCA 219.05 SMA 129.43 ECC .17075 INC 2.7558 V1 29.743
RP 108.26 LAP 1.74 LOP 225.65 VP 37.766 GAP 2.86 AZP 87.86 TAL 160.77 TAP 19.82 RCA 107.33 APO 151.53 V2 35.003
RC 92.112 GL -20.96 GP 47.46 ZAL 50.65 ZAP 111.37 ETS 20.89 ZAE 126.25 ETE 136.19 ZAC 36.31 ETC 236.00 CLP-122.62

PLANETOCENTRIC CONIC

C3 13.421 VHL 3.663 DLA -34.75 RAL 329.64 RAD 6567.5 VEL 11.611 PTH 2.03 VHP 4.513 DPA 23.09 RAP 282.16 ECC 1.2209

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
68.96	12 8 22	1296.24	26.41	357.38	193.92	113.46	12 29 59	696.2	29.34	349.38
111.04	17 20 0	5594.47	26.42	261.31	193.93	113.45	18 53 15	4994.5	29.35	253.30
68.96	12 8 22	1296.24	26.41	357.38	193.92	113.46	12 29 59	696.2	29.34	349.38
111.04	17 20 0	5594.47	26.42	261.31	193.93	113.45	18 53 15	4994.5	29.35	253.30
68.96	12 8 22	1296.24	26.41	357.38	193.92	113.46	12 29 59	696.2	29.34	349.38
111.04	17 20 0	5594.47	26.42	261.31	193.93	113.45	18 53 15	4994.5	29.35	253.30

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE .1658 TRA 1.7596 TC3-2.5862 BAU .5463 SGT 3857.1 SGR 3260.2 SG3 768.5 ST 1039.3 SR 984.4 SS 1184.3
RDE -.2471 RRA-1.5842 RC3 1.6067 FAU .07432 RRT -.9886 RRF -.9947 RTF .9847 CRT -.9884 CRS .9658 CST -.9156
FDE 1.1993 FRA 4.1786 FC3-4.7941 BSP 15739 SGB 5050.3 R23 .0787 R13 -.9916 LSA 1828.7 MSA 328.1 SSA 10.1
BDE .2976 BRA 2.3677 BC3 3.0447 FSP -2589 SG1 5036.3 SG2 375.8 THA 139.85 EL1 1427.4 EL2 108.7 ALF 136.57

LAUNCH DATE SEP 30 1965 FLIGHT TIME 182.00 ARRIVAL DATE MAR 31 1966

HELIOCENTRIC CONIC DISTANCE 498.977

RL 149.81 LAL .00 LOL 6.63 VL 27.311 GAL 3.97 AZL 92.34 HCA 222.24 SMA 129.37 ECC .17216 INC 2.3363 V1 29.743
RP 108.31 LAP 1.57 LOP 228.84 VP 37.747 GAP 3.25 AZP 88.27 TAL 160.27 TAP 22.51 RCA 107.09 APO 151.64 V2 34.990
RC 94.449 GL -17.76 GP 44.22 ZAL 49.07 ZAP 115.30 ETS 23.23 ZAE 126.58 ETE 140.88 ZAC 33.24 ETC 235.10 CLP-126.60

PLANETOCENTRIC CONIC

C3 13.252 VHL 3.640 DLA -31.53 RAL 329.00 RAD 6567.5 VEL 11.603 PTH 2.03 VHP 4.465 DPA 19.84 RAP 281.72 ECC 1.2181

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
75.52	12 47 33	1164.57	24.15	346.22	192.03	110.92	13 6 58	564.6	26.77	338.27
104.48	16 35 39	5720.66	24.16	270.01	192.04	110.91	18 10 59	5120.7	26.78	262.05
75.52	12 47 33	1164.57	24.15	346.22	192.03	110.92	13 6 58	564.6	26.77	338.27
104.48	16 35 39	5720.66	24.16	270.01	192.04	110.91	18 10 59	5120.7	26.78	262.05
110.00	15 29 53	637.55	16.33	303.73	188.03	120.45	15 40 30	37.6	20.26	296.80
110.00	18 52 29	5295.67	32.48	240.21	194.77	101.28	20 20 45	4695.7	33.70	231.18

DIFFERENTIAL CORRECTIONS
TDE .2706 TRA 1.9588 TC3-2.8411 BAU .5675
RDE -.2417 RRA-1.4851 RC3 1.4793 FAU .07512
FDE 1.3440 FRA 4.3532 FC3-4.9074 BSP 16009
BDE .3628 BRA 2.4581 BC3 3.2032 FSP -2655

MID-COURSE EXECUTION ACCURACY
SGT 4188.3 SGR 2970.7 SG3 781.7
RRT -.9893 RRF -.9933 RTF .9861
SGB 5134.9 R23 .0734 R13 -.9908
SG1 5122.6 SG2 355.1 THA 144.75

ORBIT DETERMINATION ACCURACY
ST 1167.3 SR 906.9 SS 1238.1
CRT -.9981 CRS .9591 CST -.9406
LSA 1903.3 MSA 308.7 SSA 11.0
EL1 1477.6 EL2 44.0 ALF 142.17

LAUNCH DATE SEP 30 1965 FLIGHT TIME 184.00 ARRIVAL DATE APR 2 1966

HELIOCENTRIC CONIC DISTANCE 505.148

RL 149.81 LAL .00 LOL 6.63 VL 27.301 GAL 4.11 AZL 91.97 HCA 225.42 SMA 129.29 ECC .17377 INC 1.9657 V1 29.743
RP 108.35 LAP 1.40 LOP 232.04 VP 37.728 GAP 3.65 AZP 88.62 TAL 159.73 TAP 25.16 RCA 106.82 APO 151.76 V2 34.977
RC 96.794 GL -14.86 GP 41.18 ZAL 47.65 ZAP 119.12 ETS 25.18 ZAE 126.62 ETE 145.12 ZAC 30.46 ETC 233.52 CLP-130.29

PLANETOCENTRIC CONIC

C3 13.269 VHL 3.643 DLA -28.57 RAL 328.54 RAD 6567.5 VEL 11.604 PTH 2.03 VHP 4.459 DPA 16.78 RAP 281.45 ECC 1.2184

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
86.04	14 6 37	906.35	21.96	326.19	190.75	108.75	14 21 43	306.3	24.32	318.30
93.96	15 12 59	691.39	21.97	310.46	190.75	108.73	15 24 30	91.4	24.33	302.56
100.00	14 46 34	776.64	16.66	314.45	188.48	115.18	14 59 30	176.6	19.91	307.17
100.00	17 15 43	5584.37	27.48	260.93	192.43	102.25	18 48 47	4984.4	28.89	252.41
110.00	14 42 58	787.93	10.97	312.08	185.26	122.58	14 56 6	187.9	15.19	305.52
110.00	19 35 47	5145.84	33.90	228.75	193.54	94.65	21 1 33	4545.8	34.18	219.52

DIFFERENTIAL CORRECTIONS
TDE .3804 TRA 2.1518 TC3-3.0417 BAU .5893
RDE -.2315 RRA-1.3893 RC3 1.3357 FAU .07452
FDE 1.4726 FRA 4.4614 FC3-4.8621 BSP 16346
BDE .4453 BRA 2.5613 BC3 3.3221 FSP -2675

MID-COURSE EXECUTION ACCURACY
SGT 4485.6 SGR 2696.3 SG3 781.2
RRT -.9891 RRF -.9914 RTF .9869
SGB 5233.6 R23 .0650 R13 -.9902
SG1 5222.5 SG2 340.8 THA 149.12

ORBIT DETERMINATION ACCURACY
ST 1303.5 SR 831.0 SS 1284.8
CRT -.9996 CRS .9510 CST -.9579
LSA 1988.5 MSA 293.4 SSA 11.8
EL1 1545.7 EL2 20.0 ALF 147.49

LAUNCH DATE SEP 30 1965 FLIGHT TIME 186.00 ARRIVAL DATE APR 4 1966

HELIOCENTRIC CONIC DISTANCE 511.296

RL 149.81 LAL .00 LOL 6.63 VL 27.289 GAL 4.27 AZL 91.63 HCA 228.61 SMA 129.21 ECC .17559 INC 1.6336 V1 29.743
RP 108.39 LAP 1.23 LOP 235.23 VP 37.707 GAP 4.05 AZP 88.92 TAL 159.16 TAP 27.77 RCA 106.52 APO 151.90 V2 34.964
RC 99.145 GL -12.22 GP 38.34 ZAL 46.37 ZAP 122.81 ETS 26.81 ZAE 126.43 ETE 148.90 ZAC 28.00 ETC 231.22 CLP-133.69

PLANETOCENTRIC CONIC

C3 13.440 VHL 3.666 DLA -25.85 RAL 328.26 RAD 6567.5 VEL 11.611 PTH 2.03 VHP 4.489 DPA 13.93 RAP 281.38 ECC 1.2212

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 55 6	1142.40	12.90	339.53	187.15	115.43	13 14 8	542.4	16.22	332.43
90.00	16 22 11	5748.93	27.20	272.96	191.73	98.21	17 58 0	5148.9	28.05	264.39
100.00	13 50 5	964.86	10.90	325.46	186.12	118.01	14 6 10	364.9	14.56	318.59
100.00	18 9 54	5401.71	29.42	247.71	192.04	95.56	19 39 55	4801.7	29.88	238.94
110.00	14 10 45	900.02	6.80	318.08	183.65	123.58	14 25 45	300.0	11.17	311.71
110.00	20 5 43	5039.31	34.18	220.45	192.30	89.75	21 29 43	4439.3	33.77	211.23

DIFFERENTIAL CORRECTIONS
TDE .4968 TRA 2.3436 TC3-3.1803 BAU .6096
RDE -.2187 RRA-1.3008 RC3 1.1816 FAU .07241
FDE 1.5869 FRA 4.5186 FC3-4.6642 BSP 16657
BDE .5428 BRA 2.6804 BC3 3.3928 FSP -2643

MID-COURSE EXECUTION ACCURACY
SGT 4754.4 SGR 2443.5 SG3 770.0
RRT -.9881 RRF -.9890 RTF .9874
SGB 5345.6 R23 .0553 R13 -.9897
SG1 5335.2 SG2 334.3 THA 152.96

ORBIT DETERMINATION ACCURACY
ST 1448.6 SR 759.5 SS 1327.0
CRT -.9950 CRS .9413 CST -.9700
LSA 2087.3 MSA 281.6 SSA 12.5
EL1 1634.2 EL2 67.3 ALF 152.40

LAUNCH DATE SEP 30 1965 FLIGHT TIME 188.00 ARRIVAL DATE APR 6 1966

HELIOCENTRIC CONIC DISTANCE 517.418

RL 149.81 LAL .00 LOL 6.63 VL 27.275 GAL 4.45 AZL 91.33 HCA 231.79 SMA 129.12 ECC .17761 INC 1.3330 V1 29.743
RP 108.43 LAP 1.05 LOP 238.42 VP 37.685 GAP 4.45 AZP 89.18 TAL 158.54 TAP 30.33 RCA 106.19 APO 152.05 V2 34.951
RC 101.502 GL -9.83 GP 35.71 ZAL 45.20 ZAP 126.32 ETS 28.18 ZAE 126.07 ETE 152.23 ZAC 25.91 ETC 228.18 CLP-136.84

PLANETOCENTRIC CONIC

C3 13.745 VHL 3.707 DLA -23.35 RAL 328.10 RAD 6567.5 VEL 11.625 PTH 2.04 VHP 4.551 DPA 11.31 RAP 281.50 ECC 1.2262

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 11 26	1296.03	8.25	348.43	185.73	117.18	12 33 2	696.0	11.83	341.58
90.00	17 4 39	5605.09	28.16	262.55	191.37	93.08	18 38 4	5005.1	28.29	253.89
100.00	13 14 33	1092.29	6.74	332.64	184.92	119.19	13 32 45	492.3	10.58	325.95
100.00	18 44 15	5284.06	29.88	239.00	191.44	91.00	20 12 17	4684.1	29.70	230.20
110.00	13 46 3	993.50	3.26	323.00	182.76	124.05	14 2 37	393.5	7.71	316.73
110.00	20 29 12	4955.62	33.97	213.93	191.31	85.89	21 51 48	4355.6	33.02	204.81

DIFFERENTIAL CORRECTIONS
TDE .6145 TRA 2.5309 TC3-3.2736 BAU .6310
RDE -.2007 RRA-1.2181 RC3 1.0373 FAU .06965
FDE 1.6735 FRA 4.5236 FC3-4.3867 BSP 17063
BDE .6465 BRA 2.8087 BC3 3.4340 FSP -2592

MID-COURSE EXECUTION ACCURACY
SGT 4994.3 SGR 2211.8 SG3 749.5
RRT -.9865 RRF -.9860 RTF .9877
SGB 5462.1 R23 .0445 R13 -.9892
SG1 5452.0 SG2 332.4 THA 156.31

ORBIT DETERMINATION ACCURACY
ST 1593.9 SR 689.3 SS 1357.2
CRT -.9852 CRS .9286 CST -.9783
LSA 2187.0 MSA 272.9 SSA 13.0
EL1 1733.2 EL2 108.7 ALF 156.83

LAUNCH DATE SEP 30 1965 FLIGHT TIME 190.00 ARRIVAL DATE APR 8 1966

HELIOCENTRIC CONIC DISTANCE 523.514

RL 149.81 LAL .00 LOL 6.63 VL 27.261 GAL 4.64 AZL 91.06 HCA 234.98 SMA 129.02 ECC .17984 INC 1.0578 V1 29.743
RP 108.46 LAP .87 LOP 241.60 VP 37.664 GAP 4.85 AZP 89.39 TAL 157.89 TAP 32.87 RCA 105.82 APO 152.22 V2 34.939
RC 103.862 GL -7.66 GP 33.29 ZAL 44.12 ZAP 129.65 ETS 29.36 ZAE 125.58 ETE 155.14 ZAC 24.20 ETC 224.45 CLP-139.76

PLANETOCENTRIC CONIC

C3 14.172 VHL 3.765 DLA -21.06 RAL 328.07 RAD 6567.6 VEL 11.643 PTH 2.04 VHP 4.638 DPA 8.90 RAP 281.81 ECC 1.2332

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 40 48	1412.01	4.59	354.98	185.10	117.97	12 4 20	812.0	8.30	348.26
90.00	17 35 0	5502.56	28.31	255.05	191.05	89.33	19 6 43	4902.6	27.92	246.41
100.00	12 47 57	1195.28	3.29	338.33	184.38	119.73	13 7 52	595.3	7.22	331.75
100.00	19 10 32	5194.52	29.80	232.35	191.01	87.50	20 37 6	4594.5	29.13	223.61
110.00	13 26 13	1075.34	.13	327.27	182.41	124.18	13 44 8	475.3	4.62	321.06
110.00	20 48 45	4887.23	33.51	208.64	190.64	82.79	22 10 12	4287.2	32.15	199.67

DIFFERENTIAL CORRECTIONS
TDE .7353 TRA 2.7169 TC3-3.3203 BAU .6519
RDE -.1802 RRA-1.1427 RC3 .9025 FAU .06621
FDE 1.7390 FRA 4.4907 FC3-4.0446 BSP 17485
BDE .7571 BRA 2.9475 BC3 3.4408 FSP -2515

MID-COURSE EXECUTION ACCURACY
SGT 5209.2 SGR 2002.6 SG3 722.4
RRT -.9839 RRF -.9821 RTF .9878
SGB 5580.8 R23 .0344 R13 -.9883
SG1 5570.8 SG2 334.8 THA 159.20

ORBIT DETERMINATION ACCURACY
ST 1739.3 SR 623.1 SS 1378.9
CRT -.9705 CRS .9124 CST -.9841
LSA 2289.8 MSA 266.7 SSA 13.3
EL1 1842.0 EL2 142.0 ALF 160.71

LAUNCH DATE SEP 30 1965 FLIGHT TIME 192.00 ARRIVAL DATE APR 10 1966

HELIOCENTRIC CONIC DISTANCE 529.584

RL 149.81 LAL .00 LOL 6.63 VL 27.246 GAL 4.85 AZL 90.80 HCA 238.16 SMA 128.92 ECC .18229 INC .8033 V1 29.743
RP 108.50 LAP .68 LOP 244.78 VP 37.641 GAP 5.25 AZP 89.58 TAL 157.20 TAP 35.36 RCA 105.42 APO 152.42 V2 34.926
RC 106.225 GL -5.70 GP 31.08 ZAL 43.11 ZAP 132.78 ETS 30.39 ZAE 125.02 ETE 157.66 ZAC 22.89 ETC 220.08 CLP-142.47

PLANETOCENTRIC CONIC

C3 14.715 VHL 3.836 DLA -18.95 RAL 328.13 RAD 6567.6 VEL 11.666 PTH 2.05 VHP 4.748 DPA 6.70 RAP 282.29 ECC 1.2422

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 17 1	1509.03	1.48	.41	184.97	118.28	11 42 10	909.0	5.25	353.76
90.00	17 59 16	5422.19	28.11	249.19	190.93	86.40	19 29 39	4822.2	27.31	240.61
100.00	12 26 46	1283.98	.29	343.20	184.31	119.89	12 48 10	684.0	4.26	336.67
100.00	19 32 13	5122.48	29.46	227.02	190.81	84.72	20 57 36	4522.5	28.42	218.37
110.00	13 9 51	1148.98	-2.68	331.11	182.45	124.09	13 29 0	549.0	1.81	324.91
110.00	21 5 38	4830.24	32.93	204.29	190.28	80.28	22 26 8	4230.2	31.24	195.47

DIFFERENTIAL CORRECTIONS
TDE .8592 TRA 2.9041 TC3-3.3240 BAU .6716
RDE -.1581 RRA-1.0755 RC3 .7795 FAU .06227
FDE 1.7857 FRA 4.4318 FC3-3.6638 BSP 17908
BDE .8736 BRA 3.0969 BC3 3.4142 FSP -2420

MID-COURSE EXECUTION ACCURACY
SGT 5402.2 SGR 1816.1 SG3 691.2
RRT -.9803 RRF -.9773 RTF .9878
SGB 5699.3 R23 .0256 R13 -.9885
SG1 5689.1 SG2 340.6 THA 161.69

ORBIT DETERMINATION ACCURACY
ST 1883.0 SR 561.9 SS 1393.0
CRT -.9503 CRS .8917 CST -.9882
LSA 2394.3 MSA 262.4 SSA 13.6
EL1 1957.8 EL2 168.2 ALF 164.05

LAUNCH DATE SEP 30 1965 FLIGHT TIME 194.00 ARRIVAL DATE APR 12 1966

HELIOCENTRIC CONIC DISTANCE 535.627

RL 149.81 LAL .00 LOL 6.63 VL 27.230 GAL 5.08 AZL 90.57 HCA 241.34 SMA 128.81 ECC .18498 INC .5660 V1 29.743
RP 108.54 LAP .50 LOP 247.96 VP 37.618 GAP 5.65 AZP 89.73 TAL 156.49 TAP 37.82 RCA 104.98 APO 152.63 V2 34.914
RC 108.588 GL -3.92 GP 29.06 ZAL 42.16 ZAP 135.72 ETS 31.32 ZAE 124.41 ETE 159.83 ZAC 22.00 ETC 215.25 CLP-144.99

PLANETOCENTRIC CONIC

C3 15.371 VHL 3.921 DLA -17.01 RAL 328.28 RAD 6567.6 VEL 11.694 PTH 2.06 VHP 4.879 DPA 4.71 RAP 282.95 ECC 1.2530

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 57 43	1594.04	-1.27	5.15	185.23	118.29	11 24 17	994.0	2.52	358.52
90.00	18 19 45	5356.71	27.73	244.43	191.04	84.04	19 49 2	4756.7	26.62	235.94
100.00	12 9 19	1362.99	-2.39	347.54	184.60	119.81	12 32 2	763.0	1.59	341.02
100.00	19 50 50	5062.99	29.01	222.65	190.87	82.46	21 15 13	4463.0	27.67	214.11
110.00	12 56 6	1216.44	-5.25	334.65	182.82	123.83	13 16 23	616.4	-.77	328.43
110.00	21 20 33	4782.30	32.33	200.68	190.21	78.23	22 40 15	4182.3	30.37	192.01

DIFFERENTIAL CORRECTIONS
TDE .9888 TRA 3.0965 TC3-3.2846 BAU .6887
RDE -.1362 RRA-1.0170 RC3 .6668 FAU .05780
FDE 1.8213 FRA 4.3593 FC3-3.2554 BSP 18258
BDE .9981 BRA 3.2593 BC3 3.3516 FSP -2303

MID-COURSE EXECUTION ACCURACY
SGT 5578.2 SGR 1651.9 SG3 657.9
RRT -.9756 RRF -.9714 RTF .9876
SGB 5817.7 R23 .0191 R13 -.9880
SG1 5807.2 SG2 348.6 THA 163.83

ORBIT DETERMINATION ACCURACY
ST 2027.2 SR 507.2 SS 1403.4
CRT -.9246 CRS .8662 CST -.9911
LSA 2503.8 MSA 259.3 SSA 13.8
EL1 2081.2 EL2 188.2 ALF 166.86

LAUNCH DATE SEP 30 1965 FLIGHT TIME 196.00 ARRIVAL DATE APR 14 1966

HELIOCENTRIC CONIC DISTANCE 541.641

RL 149.81 LAL .00 LOL 6.63 VL 27.212 GAL 5.32 AZL 90.34 HCA 244.51 SMA 128.69 ECC .18790 INC .3429 V1 29.743
RP 108.58 LAP .31 LOP 251.14 VP 37.595 GAP 6.06 AZP 89.85 TAL 155.74 TAP 40.25 RCA 104.51 APO 152.87 V2 34.903
RC 110.951 GL -2.31 GP 27.23 ZAL 41.26 ZAP 138.48 ETS 32.19 ZAE 123.79 ETE 161.70 ZAC 21.51 ETC 210.16 CLP-147.35

PLANETOCENTRIC CONIC

C3 16.141 VHL 4.018 DLA -15.23 RAL 328.50 RAD 6567.6 VEL 11.727 PTH 2.07 VHP 5.028 DPA 2.91 RAP 283.76 ECC 1.2656

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 41 38	1670.56	-3.73	9.43	185.79	118.09	11 9 29	1070.6	.06	2.79
90.00	18 37 35	5302.32	27.29	240.51	191.36	82.12	20 5 57	4702.3	25.92	232.12
100.00	11 54 41	1434.88	-4.82	351.50	185.19	119.54	12 18 36	834.9	-.85	344.96
100.00	20 7 13	5013.24	28.51	219.04	191.15	80.62	21 30 47	4413.2	26.92	210.60
110.00	12 44 26	1279.03	-7.61	337.96	183.47	123.43	13 5 45	679.0	-3.16	331.70
110.00	21 33 58	4741.85	31.72	197.68	190.40	76.55	22 52 59	4141.8	29.55	189.15

DIFFERENTIAL CORRECTIONS
TDE 1.1176 TRA 3.2883 TC3-3.2239 BAU .7065
RDE -.1121 RRA -.9641 RC3 .5721 FAU .05355
FDE 1.8361 FRA 4.2673 FC3-2.8723 BSP 18686
BDE 1.1232 BRA 3.4267 BC3 3.2743 FSP -2194

MID-COURSE EXECUTION ACCURACY
SGT 5733.4 SGR 1505.7 SG3 622.8
RRT -.9696 RRF -.9643 RTF .9873
SGB 5927.8 R23 .0132 R13 -.9876
SG1 5917.0 SG2 356.7 THA 165.66

ORBIT DETERMINATION ACCURACY
ST 2161.5 SR 456.6 SS 1403.7
CRT -.8908 CRS .8327 CST -.9933
LSA 2604.7 MSA 257.3 SSA 13.9
EL1 2199.8 EL2 203.8 ALF 169.25

LAUNCH DATE SEP 30 1965 FLIGHT TIME 198.00 ARRIVAL DATE APR 16 1966

DISTANCE 547.624

HELIOCENTRIC CONIC

RL 149.81 LAL .00 LOL 6.63 VL 27.194 GAL 5.59 AZL 90.13 HCA 247.69 SMA 128.57 ECC .19108 INC .1305 VI 29.743
RP 108.61 LAP .12 LOP 254.32 VP 37.572 GAP 6.48 AZP 89.95 TAL 154.96 TAP 42.65 RCA 104.00 APO 153.13 V2 34.892
RC 113.313 GL -.86 GP 25.57 ZAL 40.40 ZAP 141.05 ETS 33.03 ZAE 123.16 ETE 163.31 ZAC 21.40 ETC 205.04 CLP-149.56

PLANETOCENTRIC CONIC

C3 17.029 VHL 4.127 DLA -13.59 RAL 328.78 RAD 6567.7 VEL 11.765 PTH 2.08 VHP 5.193 DPA 1.30 RAP 284.71 ECC 1.2803

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 28 1	1740.68	-5.97	13.37	186.61	117.73	10 57 1	1140.7	-2.21	6.70
90.00	18 53 27	5256.74	26.82	237.26	191.90	80.56	20 21 4	4656.7	25.24	228.95
100.00	11 42 13	1501.25	-7.03	355.18	186.03	119.13	12 7 15	901.2	-3.09	348.61
100.00	20 21 55	4971.41	28.01	216.03	191.66	79.12	21 44 47	4371.4	26.23	207.69
110.00	12 34 27	1337.67	-9.79	341.09	184.35	122.91	12 56 45	737.7	-5.39	334.77
110.00	21 46 11	4707.75	31.16	195.19	190.83	75.17	23 4 39	4107.7	28.81	186.77

DIFFERENTIAL CORRECTIONS

TDE 1.2499 TRA 3.4855 TC3-3.1362 BAU .7226
RDE -.0883 RRA -.9179 RC3 .4894 FAU .04924
FDE 1.8409 FRA 4.1699 FC3-2.5035 BSP 19078
BDE 1.2530 BRA 3.6043 BC3 3.1742 FSP -2080

MID-COURSE EXECUTION ACCURACY

SGT 5873.6 SGR 1377.4 SG3 587.8
RRT -.9624 RRF -.9559 RTF .9870
SGB 6033.0 R23 .0087 R13 -.9872
SG1 6021.9 SG2 365.0 THA 167.23

ORBIT DETERMINATION ACCURACY

ST 2291.0 SR 412.2 SS 1399.7
CRT -.8484 CRS .7909 CST -.9949
LSA 2704.0 MSA 255.8 SSA 13.9
EL1 2317.7 EL2 215.7 ALF 171.25

LAUNCH DATE SEP 30 1965 FLIGHT TIME 200.00 ARRIVAL DATE APR 18 1966

DISTANCE 553.576

HELIOCENTRIC CONIC

RL 149.81 LAL .00 LOL 6.63 VL 27.176 GAL 5.87 AZL 89.93 HCA 250.86 SMA 128.44 ECC .19452 INC .0689 VI 29.743
RP 108.64 LAP -.07 LOP 257.49 VP 37.548 GAP 6.90 AZP 90.02 TAL 154.16 TAP 45.03 RCA 103.46 APO 153.43 V2 34.881
RC 115.673 GL .45 GP 24.07 ZAL 39.57 ZAP 143.46 ETS 33.87 ZAE 122.55 ETE 164.69 ZAC 21.65 ETC 200.11 CLP-151.63

PLANETOCENTRIC CONIC

C3 18.041 VHL 4.248 DLA -12.07 RAL 329.11 RAD 6567.7 VEL 11.808 PTH 2.09 VHP 5.375 DPA -.15 RAP 285.80 ECC 1.2969

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 16 21	1805.77	-8.01	17.05	187.64	117.25	10 46 26	1205.8	-4.30	10.34
90.00	19 7 47	5218.45	26.36	234.55	192.62	79.27	20 34 45	4618.4	24.62	226.32
100.00	11 31 32	1563.20	-9.07	358.65	187.08	118.61	11 57 35	963.2	-5.18	352.02
100.00	20 35 17	4936.24	27.54	213.53	192.35	77.88	21 57 33	4336.2	25.59	205.27
110.00	12 25 52	1393.04	-11.83	344.09	185.43	122.31	12 49 5	793.0	-7.48	337.70
110.00	21 57 26	4679.17	30.64	193.12	191.46	74.05	23 15 25	4079.2	28.15	184.81

DIFFERENTIAL CORRECTIONS

TDE 1.3850 TRA 3.6881 TC3-3.0283 BAU .7373
RDE -.0644 RRA -.8775 RC3 .4181 FAU .04502
FDE 1.8367 FRA 4.0696 FC3-2.1601 BSP 19460
BDE 1.3865 BRA 3.7911 BC3 3.0570 FSP -1966

MID-COURSE EXECUTION ACCURACY

SGT 5999.3 SGR 1264.5 SG3 553.4
RRT -.9536 RRF -.9461 RTF .9866
SGB 6131.1 R23 .0052 R13 -.9868
SG1 6119.8 SG2 373.0 THA 168.59

ORBIT DETERMINATION ACCURACY

ST 2413.7 SR 373.5 SS 1391.4
CRT -.7956 CRS .7392 CST -.9960
LSA 2799.3 MSA 254.7 SSA 13.9
EL1 2432.1 EL2 224.6 ALF 172.92

LAUNCH DATE SEP 30 1965 FLIGHT TIME 202.00 ARRIVAL DATE APR 20 1966

DISTANCE 559.493

HELIOCENTRIC CONIC

RL 149.81 LAL .00 LOL 6.63 VL 27.156 GAL 6.17 AZL 89.74 HCA 254.04 SMA 128.31 ECC .19825 INC .2644 VI 29.743
RP 108.68 LAP -.25 LOP 260.67 VP 37.524 GAP 7.33 AZP 90.07 TAL 153.34 TAP 47.37 RCA 102.87 APO 153.75 V2 34.870
RC 118.029 GL 1.63 GP 22.70 ZAL 38.77 ZAP 145.71 ETS 34.73 ZAE 121.96 ETE 165.88 ZAC 22.21 ETC 195.54 CLP-153.59

PLANETOCENTRIC CONIC

C3 19.187 VHL 4.380 DLA -10.68 RAL 329.49 RAD 6567.8 VEL 11.856 PTH 2.10 VHP 5.571 DPA -1.43 RAP 287.00 ECC 1.3158

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 6 16	1866.77	-9.89	20.55	188.86	116.67	10 37 23	1266.8	-6.24	13.78
90.00	19 20 52	5186.35	25.94	232.30	193.51	78.22	20 47 19	4586.3	24.05	224.13
100.00	11 22 17	1621.54	-10.95	1.96	188.31	117.99	11 49 19	1021.5	-7.12	355.26
100.00	20 47 32	4906.82	27.10	211.45	193.23	76.87	22 9 19	4306.8	25.02	203.27
110.00	12 18 27	1445.67	-13.72	346.99	186.68	121.62	12 42 32	845.7	-9.44	340.51
110.00	22 7 52	4655.45	30.18	191.42	192.28	73.14	23 25 28	4055.4	27.58	183.20

DIFFERENTIAL CORRECTIONS

TDE 1.5236 TRA 3.8978 TC3-2.9037 BAU .7504
RDE -.0408 RRA -.8423 RC3 .3570 FAU .04091
FDE 1.8261 FRA 3.9697 FC3-1.8460 BSP 19814
BDE 1.5241 BRA 3.9878 BC3 2.9255 FSP -1854

MID-COURSE EXECUTION ACCURACY

SGT 6112.4 SGR 1165.2 SG3 520.1
RRT -.9434 RRF -.9349 RTF .9862
SGB 6222.5 R23 .0026 R13 -.9863
SG1 6210.8 SG2 380.3 THA 169.77

ORBIT DETERMINATION ACCURACY

ST 2529.9 SR 340.7 SS 1380.1
CRT -.7318 CRS .6769 CST -.9969
LSA 2890.8 MSA 253.7 SSA 13.9
EL1 2542.2 EL2 231.1 ALF 174.33

LAUNCH DATE SEP 30 1965 FLIGHT TIME 204.00 ARRIVAL DATE APR 22 1966

DISTANCE 565.375

HELIOCENTRIC CONIC

RL 149.81 LAL .00 LOL 6.63 VL 27.136 GAL 6.50 AZL 89.55 HCA 257.21 SMA 128.18 ECC .20229 INC .4525 VI 29.743
RP 108.71 LAP -.44 LOP 263.84 VP 37.501 GAP 7.77 AZP 90.10 TAL 152.49 TAP 49.70 RCA 102.25 APO 154.10 V2 34.860
RC 120.382 GL 2.70 GP 21.47 ZAL 38.00 ZAP 147.83 ETS 35.65 ZAE 121.39 ETE 166.91 ZAC 23.04 ETC 191.43 CLP-155.44

PLANETOCENTRIC CONIC

C3 20.477 VHL 4.525 DLA -9.39 RAL 329.91 RAD 6567.8 VEL 11.910 PTH 2.12 VHP 5.782 DPA -2.57 RAP 288.32 ECC 1.3370

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 57 32	1924.42	-11.64	23.89	190.25	116.00	10 29 37	1324.4	-8.05	17.05
90.00	19 32 56	5159.63	25.55	230.43	194.56	77.36	20 58 56	4559.6	23.56	222.33
100.00	11 14 16	1676.85	-12.70	5.14	189.71	117.29	11 42 13	1076.9	-8.94	358.36
100.00	20 58 53	4882.43	26.71	209.74	194.26	76.05	22 20 15	4282.4	24.53	201.62
110.00	12 12 2	1495.97	-15.50	349.81	188.10	120.86	12 36 58	896.0	-11.29	343.23
110.00	22 17 36	4636.08	29.79	190.05	193.27	72.41	23 34 52	4036.1	27.10	181.90

DIFFERENTIAL CORRECTIONS

TDE 1.6690 TRA 4.1186 TC3-2.7597 BAU .7601
RDE -.0183 RRA -.8122 RC3 .3031 FAU .03678
FDE 1.8145 FRA 3.8755 FC3-1.5550 BSP 20076
BDE 1.6691 BRA 4.1979 BC3 2.7763 FSP -1738

MID-COURSE EXECUTION ACCURACY

SGT 6216.3 SGR 1078.0 SG3 488.7
RRT -.9316 RRF -.9222 RTF .9857
SGB 6309.0 R23 .0008 R13 -.9857
SG1 6297.2 SG2 386.7 THA 170.79

ORBIT DETERMINATION ACCURACY

ST 2643.0 SR 313.7 SS 1368.8
CRT -.6579 CRS .6053 CST -.9976
LSA 2982.2 MSA 252.5 SSA 13.8
EL1 2651.1 EL2 235.5 ALF 175.50

LAUNCH DATE SEP 30 1965 FLIGHT TIME 206.00 ARRIVAL DATE APR 24 1966

HELIOCENTRIC CONIC DISTANCE 571.216

RL 149.81 LAL .00 LOL 6.63 VL 27.116 GAL 6.85 AZL 89.36 HCA 260.38 SMA 128.04 ECC .20665 INC .6359 V1 29.743
RP 108.74 LAP -.63 LOP 267.00 VP 37.477 GAP 8.22 AZP 90.11 TAL 151.62 TAP 52.00 RCA 101.58 APO 154.50 V2 34.851
RC 122.731 GL 3.66 GP 20.35 ZAL 37.24 ZAP 149.81 ETS 36.63 ZAE 120.86 ETE 167.80 ZAC 24.08 ETC 187.84 CLP-157.20

PLANETOCENTRIC CONIC

C3 21.926 VHL 4.683 DLA -8.21 RAL 330.36 RAD 6567.9 VEL 11.971 PTH 2.13 VHP 6.008 DPA -3.57 RAP 289.73 ECC 1.3608

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 49 56	1979.23	-13.25	27.10	191.79	115.26	10 22 55	1379.2	-9.74	20.18
90.00	19 44 7	5137.69	25.22	228.91	195.76	76.67	21 9 45	4537.7	23.13	220.86
100.00	11 7 18	1729.62	-14.32	8.21	191.26	116.52	11 36 8	1129.6	-10.65	1.35
100.00	21 9 26	4862.53	26.37	208.36	195.44	75.40	22 30 28	4262.5	24.11	200.29
110.00	12 6 30	1544.28	-17.17	352.56	189.67	120.02	12 32 14	944.3	-13.05	345.87
110.00	22 26 44	4620.64	29.47	188.96	194.41	71.84	23 43 44	4020.6	26.71	180.87

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE 1.8142 TRA 4.3446 TC3-2.6141 BAU .7700 SGT 6306.3 SGR 1000.4 SG3 458.5 ST 2744.0 SR 291.3 SS 1352.5
RDE .0048 RRA -.7851 RC3 .2587 FAU .03309 RRT -.9183 RRF -.9079 RTF .9852 CRT -.5713 CRS .5213 CST -.9982
FDE 1.7944 FRA 3.7809 FC3-1.3064 BSP 20399 SGB 6385.2 R23 -.0008 R13 -.9853 LSA 3062.8 MSA 251.4 SSA 13.8
BDE 1.8142 BRA 4.4150 BC3 2.6269 FSP -1636 SG1 6373.1 SG2 392.0 THA 171.68 EL1 2749.1 EL2 238.7 ALF 176.50

LAUNCH DATE SEP 30 1965 FLIGHT TIME 208.00 ARRIVAL DATE APR 26 1966

HELIOCENTRIC CONIC DISTANCE 577.016

RL 149.81 LAL .00 LOL 6.63 VL 27.095 GAL 7.22 AZL 89.18 HCA 263.54 SMA 127.90 ECC .21137 INC .8157 V1 29.743
RP 108.76 LAP -.81 LOP 270.17 VP 37.454 GAP 8.69 AZP 90.09 TAL 150.74 TAP 54.28 RCA 100.86 APO 154.93 V2 34.842
RC 125.075 GL 4.52 GP 19.34 ZAL 36.51 ZAP 151.66 ETS 37.70 ZAE 120.36 ETE 168.57 ZAC 25.31 ETC 184.73 CLP-158.88

PLANETOCENTRIC CONIC

C3 23.550 VHL 4.853 DLA -7.11 RAL 330.83 RAD 6568.0 VEL 12.039 PTH 2.15 VHP 6.249 DPA -4.44 RAP 291.23 ECC 1.3876

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 43 18	2031.65	-14.75	30.22	193.47	114.45	10 17 9	1431.6	-11.33	23.21
90.00	19 54 33	5120.01	24.93	227.70	197.08	76.12	21 19 53	4520.0	22.78	219.69
100.00	11 1 14	1780.21	-15.84	11.20	192.94	115.69	11 30 54	1180.2	-12.26	4.25
100.00	21 19 17	4846.68	26.10	207.26	196.74	74.88	22 40 4	4246.7	23.77	199.24
110.00	12 1 42	1590.88	-18.73	355.27	191.37	119.13	12 28 13	990.9	-14.71	348.46
110.00	22 35 18	4608.78	29.22	188.13	195.68	71.41	23 52 7	4008.8	26.40	180.08

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE 1.9640 TRA 4.5804 TC3-2.4614 BAU .7780 SGT 6386.3 SGR 931.4 SG3 430.1 ST 2838.1 SR 273.8 SS 1335.3
RDE .0275 RRA -.7613 RC3 .2205 FAU .02957 RRT -.9033 RRF -.8921 RTF .9848 CRT -.4756 CRS .4288 CST -.9986
FDE 1.7725 FRA 3.6911 FC3-1.0869 BSP 20700 SGB 6453.9 R23 -.0021 R13 -.9848 LSA 3138.5 MSA 250.0 SSA 13.7
BDE 1.9641 BRA 4.6433 BC3 2.4712 FSP -1538 SG1 6441.7 SG2 396.1 THA 172.47 EL1 2841.1 EL2 240.6 ALF 177.35

LAUNCH DATE SEP 30 1965 FLIGHT TIME 210.00 ARRIVAL DATE APR 28 1966

HELIOCENTRIC CONIC DISTANCE 582.769

RL 149.81 LAL .00 LOL 6.63 VL 27.074 GAL 7.62 AZL 89.01 HCA 266.71 SMA 127.76 ECC .21647 INC .9932 V1 29.743
RP 108.79 LAP -.99 LOP 273.34 VP 37.430 GAP 9.17 AZP 90.06 TAL 149.84 TAP 56.55 RCA 100.10 APO 155.41 V2 34.834
RC 127.413 GL 5.30 GP 18.42 ZAL 35.79 ZAP 153.41 ETS 38.89 ZAE 119.88 ETE 169.24 ZAC 26.68 ETC 182.09 CLP-160.49

PLANETOCENTRIC CONIC

C3 25.370 VHL 5.037 DLA -6.10 RAL 331.33 RAD 6568.0 VEL 12.114 PTH 2.17 VHP 6.506 DPA -5.20 RAP 292.81 ECC 1.4175

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 37 30	2082.00	-16.15	33.26	195.26	113.58	10 12 12	1482.0	-12.82	26.16
90.00	20 4 17	5106.22	24.71	226.75	198.52	75.70	21 29 24	4506.2	22.50	218.78
100.00	10 55 57	1828.93	-17.25	14.13	194.74	114.79	11 26 26	1228.9	-13.77	7.07
100.00	21 28 32	4834.52	25.88	206.42	198.17	74.49	22 49 6	4234.5	23.50	198.43
110.00	11 57 34	1636.00	-20.21	357.94	193.19	118.18	12 24 50	1036.0	-16.28	351.01
110.00	22 43 24	4600.22	29.03	187.54	197.07	71.10	24 0 4	4000.2	26.18	179.52

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE 2.1190 TRA 4.8285 TC3-2.3030 BAU .7837 SGT 6457.9 SGR 869.7 SG3 403.5 ST 2925.9 SR 260.4 SS 1317.7
RDE .0498 RRA -.7404 RC3 .1876 FAU .02621 RRT -.8868 RRF -.8749 RTF .9844 CRT -.3739 CRS .3308 CST -.9989
FDE 1.7499 FRA 3.6075 FC3 -.8945 BSP 20959 SGB 6516.2 R23 -.0030 R13 -.9844 LSA 3209.9 MSA 248.4 SSA 13.6
BDE 2.1196 BRA 4.8849 BC3 2.3107 FSP -1444 SG1 6504.0 SG2 399.1 THA 173.16 EL1 2927.6 EL2 241.4 ALF 178.08

LAUNCH DATE SEP 30 1965 FLIGHT TIME 212.00 ARRIVAL DATE APR 30 1966

HELIOCENTRIC CONIC DISTANCE 588.472

RL 149.81 LAL .00 LOL 6.63 VL 27.052 GAL 8.05 AZL 88.83 HCA 269.87 SMA 127.61 ECC .22198 INC 1.1694 V1 29.743
RP 108.81 LAP -1.17 LOP 276.50 VP 37.407 GAP 9.67 AZP 90.00 TAL 148.94 TAP 58.81 RCA 99.28 APO 155.94 V2 34.826
RC 129.747 GL 5.99 GP 17.59 ZAL 35.09 ZAP 155.06 ETS 40.21 ZAE 119.43 ETE 169.83 ZAC 28.17 ETC 179.86 CLP-162.03

PLANETOCENTRIC CONIC

C3 27.409 VHL 5.235 DLA -5.16 RAL 331.84 RAD 6568.1 VEL 12.198 PTH 2.19 VHP 6.778 DPA -5.84 RAP 294.45 ECC 1.4511

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 32 26	2130.58	-17.45	36.23	197.17	112.66	10 7 57	1530.6	-14.22	29.04
90.00	20 13 26	5095.97	24.53	226.05	200.07	75.39	21 38 22	4496.0	22.29	218.10
100.00	10 51 21	1876.03	-18.58	17.00	196.66	113.85	11 22 37	1276.0	-15.20	9.84
100.00	21 37 13	4825.75	25.72	205.82	199.71	74.22	22 57 38	4225.7	23.30	197.85
110.00	11 54 1	1679.84	-21.59	.58	195.13	117.17	12 22 1	1079.8	-17.78	353.53
110.00	22 51 2	4594.70	28.91	187.15	198.58	70.91	24 7 37	3994.7	26.03	179.16

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE 2.2829 TRA 5.0924 TC3-2.1368 BAU .7851 SGT 6523.9 SGR 814.4 SG3 378.9 ST 3010.8 SR 250.6 SS 1301.9
RDE .0714 RRA -.7221 RC3 .1583 FAU .02289 RRT -.8688 RRF -.8563 RTF .9839 CRT -.2713 CRS .2323 CST -.9991
FDE 1.7300 FRA 3.5329 FC3 -.7231 BSP 21114 SGB 6574.6 R23 -.0036 R13 -.9839 LSA 3280.5 MSA 246.4 SSA 13.4
BDE 2.2840 BRA 5.1434 BC3 2.1427 FSP -1349 SG1 6562.3 SG2 400.9 THA 173.79 EL1 3011.5 EL2 241.1 ALF 178.70

LAUNCH DATE SEP 30 1965 FLIGHT TIME 214.00 ARRIVAL DATE MAY 2 1966

DISTANCE 594.118

HELIOCENTRIC CONIC

RL 149.81 LAL .00 LOL 6.63 VL 27.030 GAL 8.51 AZL 88.65 HCA 273.04 SMA 127.46 ECC .22795 INC 1.3455 V1 29.743
RP 108.84 LAP -1.34 LOP 279.67 VP 37.385 GAP 10.19 AZP 89.93 TAL 148.02 TAP 61.06 RCA 98.41 APO 156.52 V2 34.819
RC 132.074 GL 6.62 GP 16.83 ZAL 34.41 ZAP 156.61 ETS 41.69 ZAE 119.01 ETE 170.35 ZAC 29.75 ETC 177.99 CLP-163.51

PLANETOCENTRIC CONIC

C3 29.697 VHL 5.449 DLA -4.30 RAL 332.36 RAD 6568.2 VEL 12.291 PTH 2.21 VHP 7.069 DPA -6.39 RAP 296.15 ECC 1.4887

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 28 2	2177.59	-18.65	39.15	199.18	111.70	10 4 19	1577.6	-15.54	31.86
90.00	20 22 1	5088.99	24.41	225.58	201.71	75.18	21 46 50	4489.0	22.14	217.64
100.00	10 47 21	1921.70	-19.81	19.83	198.68	112.86	11 19 23	1321.7	-16.54	12.56
100.00	21 45 23	4820.11	25.61	205.44	201.35	74.04	23 5 43	4220.1	23.18	197.48
110.00	11 50 58	1722.54	-22.90	3.21	197.17	116.10	12 19 41	1122.5	-19.20	356.02
110.00	22 58 15	4592.03	28.85	186.97	200.20	70.81	24 14 47	3992.0	25.96	178.98

DIFFERENTIAL CORRECTIONS

TDE 2.4483 TRA 5.3655 TC3-1.9764 BAU .7865
RDE .0935 RRA -.7049 RC3 .1340 FAU .01995
FDE 1.7064 FRA 3.4605 FC3 -.5816 BSP 21352
BDE 2.4501 BRA 5.4116 BC3 1.9810 FSP -1268

MID-COURSE EXECUTION ACCURACY

SGT 6578.0 SGR 763.8 SG3 355.5
RRT -.8491 RRF -.8361 RTF .9836
SGB 6622.2 R23 -.0041 R13 -.9836
SG1 6610.0 SG2 401.5 THA 174.35

ORBIT DETERMINATION ACCURACY

ST 3083.9 SR 243.7 SS 1283.6
CRT -.1671 CRS .1322 CST -.9993
LSA 3340.3 MSA 244.1 SSA 13.3
EL1 3084.2 EL2 240.3 ALF 179.24

LAUNCH DATE SEP 30 1965 FLIGHT TIME 216.00 ARRIVAL DATE MAY 4 1966

DISTANCE 599.700

HELIOCENTRIC CONIC

RL 149.81 LAL .00 LOL 6.63 VL 27.007 GAL 9.01 AZL 88.48 HCA 276.20 SMA 127.32 ECC .23443 INC 1.5226 V1 29.743
RP 108.86 LAP -1.51 LOP 282.83 VP 37.362 GAP 10.73 AZP 89.84 TAL 147.11 TAP 63.31 RCA 97.47 APO 157.16 V2 34.812
RC 134.395 GL 7.17 GP 16.14 ZAL 33.74 ZAP 158.07 ETS 43.35 ZAE 118.60 ETE 170.80 ZAC 31.41 ETC 176.42 CLP-164.95

PLANETOCENTRIC CONIC

C3 32.267 VHL 5.680 DLA -3.51 RAL 332.89 RAD 6568.3 VEL 12.395 PTH 2.24 VHP 7.378 DPA -6.84 RAP 297.90 EGC 1.5310

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 24 12	2223.23	-19.78	42.03	201.29	110.69	10 1 15	1623.2	-16.79	34.63
90.00	20 30 6	5085.05	24.34	225.31	203.45	75.07	21 54 51	4485.1	22.05	217.38
100.00	10 43 54	1966.12	-20.96	22.63	200.80	111.82	11 16 40	1366.1	-17.81	15.25
100.00	21 53 5	4817.39	25.56	205.25	203.08	73.95	23 13 22	4217.4	23.12	197.31
110.00	11 48 23	1764.26	-24.12	5.83	199.32	114.99	12 17 47	1164.3	-20.55	358.51
110.00	23 5 5	4592.02	28.85	186.97	201.91	70.81	24 21 37	3992.0	25.96	178.98

DIFFERENTIAL CORRECTIONS

TDE 2.6198 TRA 5.8537 TC3-1.8168 BAU .7852
RDE .1156 RRA -.6891 RC3 .1129 FAU .01718
FDE 1.6835 FRA 3.3949 FC3 -.4609 BSP 21573
BDE 2.6223 BRA 5.8955 BC3 1.8203 FSP -1192

MID-COURSE EXECUTION ACCURACY

SGT 6624.6 SGR 717.6 SG3 333.8
RRT -.8278 RRF -.8145 RTF .9834
SGB 6663.3 R23 -.0045 R13 -.9833
SG1 6651.3 SG2 401.0 THA 174.86

ORBIT DETERMINATION ACCURACY

ST 3150.3 SR 239.3 SS 1265.7
CRT -.0666 CRS .0360 CST -.9995
LSA 3394.8 MSA 241.5 SSA 13.1
EL1 3150.3 EL2 238.7 ALF 179.71

LAUNCH DATE SEP 30 1965 FLIGHT TIME 218.00 ARRIVAL DATE MAY 6 1966

DISTANCE 605.212

HELIOCENTRIC CONIC

RL 149.81 LAL .00 LOL 6.63 VL 26.985 GAL 9.54 AZL 88.30 HCA 279.36 SMA 127.17 ECC .24145 INC 1.7019 V1 29.743
RP 108.87 LAP -1.68 LOP 285.99 VP 37.341 GAP 11.30 AZP 89.72 TAL 146.19 TAP 65.55 RCA 96.46 APO 157.87 V2 34.806
RC 136.709 GL 7.66 GP 15.52 ZAL 33.09 ZAP 159.45 ETS 45.23 ZAE 118.22 ETE 171.21 ZAC 33.13 ETC 175.10 CLP-166.35

PLANETOCENTRIC CONIC

C3 35.160 VHL 5.930 DLA -2.78 RAL 333.43 RAD 6568.4 VEL 12.511 PTH 2.27 VHP 7.707 DPA -7.20 RAP 299.69 ECC 1.5786

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 20 52	2267.64	-20.82	44.87	203.48	109.64	9 58 40	1667.6	-17.95	37.37
90.00	20 37 41	5083.96	24.32	225.23	205.28	75.03	22 2 25	4484.0	22.03	217.31
100.00	10 40 55	2009.42	-22.03	25.41	203.01	110.73	11 14 25	1409.4	-19.01	17.91
100.00	22 0 19	4817.40	25.56	205.25	204.90	73.95	23 20 37	4217.4	23.12	197.31
110.00	11 46 12	1805.09	-25.27	8.45	201.56	113.83	12 16 17	1205.1	-21.83	.98
110.00	23 11 32	4594.50	28.90	187.14	203.71	70.90	24 28 7	3994.5	26.02	179.14

DIFFERENTIAL CORRECTIONS

TDE 2.7987 TRA 5.9588 TC3-1.6585 BAU .7808
RDE .1377 RRA -.6740 RC3 .0945 FAU .01455
FDE 1.6620 FRA 3.3358 FC3 -.3582 BSP 21766
BDE 2.8021 BRA 5.9968 BC3 1.6611 FSP -1120

MID-COURSE EXECUTION ACCURACY

SGT 6664.3 SGR 674.8 SG3 313.6
RRT -.8048 RRF -.7913 RTF .9832
SGB 6698.3 R23 -.0047 R13 -.9832
SG1 6686.4 SG2 399.2 THA 175.32

ORBIT DETERMINATION ACCURACY

ST 3210.5 SR 236.6 SS 1248.7
CRT .0280 CRS -.0546 CST -.9996
LSA 3444.6 MSA 238.5 SSA 12.9
EL1 3210.5 EL2 236.5 ALF .12

LAUNCH DATE SEP 30 1965 FLIGHT TIME 220.00 ARRIVAL DATE MAY 8 1966

DISTANCE 610.644

HELIOCENTRIC CONIC

RL 149.81 LAL .00 LOL 6.63 VL 26.962 GAL 10.11 AZL 88.12 HCA 282.52 SMA 127.02 ECC .24908 INC 1.8842 V1 29.743
RP 108.89 LAP -1.84 LOP 289.15 VP 37.319 GAP 11.90 AZP 89.59 TAL 145.28 TAP 67.80 RCA 95.38 APO 158.65 V2 34.801
RC 139.015 GL 8.09 GP 14.94 ZAL 32.46 ZAP 160.75 ETS 47.37 ZAE 117.84 ETE 171.58 ZAC 34.89 ETC 173.99 CLP-167.72

PLANETOCENTRIC CONIC

C3 38.424 VHL 6.199 DLA -2.11 RAL 333.96 RAD 6568.5 VEL 12.641 PTH 2.29 VHP 8.059 DPA -7.48 RAP 301.51 ECC 1.6324

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 18 1	2310.93	-21.78	47.68	205.75	108.55	9 56 31	1710.9	-19.05	40.07
90.00	20 44 49	5085.53	24.35	225.34	207.18	75.08	22 9 34	4485.5	22.06	217.41
100.00	10 38 22	2051.70	-23.02	28.15	205.29	109.61	11 12 34	1451.7	-20.14	20.54
100.00	22 7 8	4819.99	25.61	205.43	206.79	74.03	23 27 28	4220.0	23.17	197.48
110.00	11 44 22	1845.11	-26.34	11.06	203.88	112.61	12 15 7	1245.1	-23.05	3.45
110.00	23 17 38	4599.34	29.01	187.48	205.59	71.07	24 34 17	3999.3	26.15	179.46

DIFFERENTIAL CORRECTIONS

TDE 2.9860 TRA 6.2826 TC3-1.5022 BAU .7727
RDE .1599 RRA -.6594 RC3 .0784 FAU .01205
FDE 1.6422 FRA 3.2836 FC3 -.2714 BSP 21931
BDE 2.9902 BRA 6.3171 BC3 1.5042 FSP -1052

MID-COURSE EXECUTION ACCURACY

SGT 6697.2 SGR 635.0 SG3 294.8
RRT -.7800 RRF -.7665 RTF .9831
SGB 6727.3 R23 -.0049 R13 -.9831
SG1 6715.6 SG2 396.3 THA 175.76

ORBIT DETERMINATION ACCURACY

ST 3264.9 SR 235.2 SS 1232.8
CRT .1156 CRS -.1383 CST -.9997
LSA 3489.9 MSA 235.0 SSA 12.7
EL1 3265.0 EL2 233.6 ALF .48

LAUNCH DATE OCT 1 1965 FLIGHT TIME 70.00 ARRIVAL DATE DEC 10 1965

HELIOCENTRIC CONIC DISTANCE 134.329

RL 149.76 LAL .00 LOL 7.61 VL 17.020 GAL 20.67 AZL 92.30 HCA 41.88 SMA 89.51 ECC .72198 INC 2.3033 V1 29.752
RP 108.10 LAP -1.54 LOP 49.47 VP 31.189 GAP -44.98 AZP 91.72 TAL 171.40 TAP 213.28 RCA 24.89 APO 154.14 V2 35.056
RC 73.094 GL -2.40 GP -4.10 ZAL 64.84 ZAP 31.17 ETS 169.80 ZAE 137.95 ETE 181.41 ZAC 98.51 ETC 263.99 CLP 30.93

PLANETOCENTRIC CONIC

C3 234.188 VHL 15.303 DLA -21.87 RAL 305.67 RAD 6571.4 VEL 18.855 PTH 3.07 VHP 25.493 DPA -27.39 RAP 258.88 ECC 4.8541

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 17 42	1996.34	-13.75	28.11	200.82	115.00	10 50 58	1396.3	-10.26	21.17
90.00	15 51 32	872.67	20.10	323.02	214.72	110.37	16 6 4	272.7	22.70	315.31
100.00	11 23 37	1783.59	-15.94	11.41	199.75	115.63	11 53 20	1183.6	-12.36	4.44
100.00	17 28 18	5848.69	22.38	278.88	215.63	110.35	19 5 46	5248.7	24.95	271.02
110.00	11 59 43	1670.45	-21.30	.01	196.93	117.39	12 27 33	1070.4	-17.46	352.99
110.00	19 8 41	5534.60	27.99	257.33	217.94	110.47	20 40 56	4934.6	30.52	249.04

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.4838 TRA-1.7925 TC3 -.1177 BAU .3686 SGT 821.0 SGR 456.6 SG3 27.6 ST 281.0 SR 450.4 SS 246.8
RDE-1.1423 RRA .3959 RC3 -.0011 FAU .01215 RRT -.0948 RRF .0894 RTF -.6220 CRT .5556 CRS .5785 CST .9968
FDE .1992 FRA .6900 FC3 -.0449 BSP 2059 SGB 939.4 R23 -.0046 R13 .6227 LSA 506.2 MSA 261.9 SSA 13.9
BDE 1.2405 BRA 1.8162 BC3 .1177 FSP -57 SG1 822.7 SG2 453.6 THA 175.66 EL1 466.6 EL2 215.5 ALF 64.17

LAUNCH DATE OCT 1 1965 FLIGHT TIME 72.00 ARRIVAL DATE DEC 12 1965

HELIOCENTRIC CONIC DISTANCE 140.095

RL 149.76 LAL .00 LOL 7.61 VL 17.741 GAL 19.79 AZL 91.93 HCA 45.08 SMA 91.05 ECC .69483 INC 1.9286 V1 29.752
RP 108.06 LAP -1.37 LOP 52.68 VP 31.603 GAP -42.94 AZP 91.36 TAL 170.63 TAP 215.71 RCA 27.79 APO 154.32 V2 35.069
RC 70.962 GL -2.20 GP -4.22 ZAL 63.55 ZAP 29.68 ETS 169.18 ZAE 138.13 ETE 181.96 ZAC 98.47 ETC 264.37 CLP 29.41

PLANETOCENTRIC CONIC

C3 213.302 VHL 14.605 DLA -21.38 RAL 306.96 RAD 6571.2 VEL 18.293 PTH 3.03 VHP 24.513 DPA -27.73 RAP 260.75 ECC 4.5104

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 16 40	2005.22	-14.00	28.64	201.13	114.87	10 50 5	1405.2	-10.53	21.68
90.00	16 2 53	836.73	20.94	320.72	215.12	109.51	16 16 50	236.7	23.41	312.92
100.00	11 23 21	1790.01	-16.13	11.79	200.09	115.51	11 53 11	1190.0	-12.56	4.81
100.00	17 38 54	5815.21	23.16	276.70	215.96	109.45	19 15 49	5215.2	25.60	268.75
110.00	12 0 46	1672.70	-21.37	.15	197.34	117.34	12 28 39	1072.7	-17.54	353.12
110.00	19 17 57	5505.29	28.67	255.32	218.13	109.46	20 49 43	4905.3	31.05	246.93

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.5008 TRA-1.7891 TC3 -.1261 BAU .3597 SGT 861.7 SGR 462.2 SG3 29.9 ST 299.7 SR 433.3 SS 262.8
RDE-1.0969 RRA .4001 RC3 -.0021 FAU .01223 RRT -.1010 RRF .0966 RTF -.6412 CRT .5629 CRS .5920 CST .9968
FDE .2157 FRA .7173 FC3 -.0496 BSP 2117 SGB 977.8 R23 -.0062 R13 .6420 LSA 523.1 MSA 269.8 SSA 14.2
BDE 1.2058 BRA 1.8333 BC3 .1261 FSP -62 SG1 863.4 SG2 458.9 THA 175.67 EL1 476.2 EL2 225.4 ALF 61.90

LAUNCH DATE OCT 1 1965 FLIGHT TIME 74.00 ARRIVAL DATE DEC 14 1965

HELIOCENTRIC CONIC DISTANCE 145.962

RL 149.76 LAL .00 LOL 7.61 VL 18.416 GAL 18.95 AZL 91.59 HCA 48.29 SMA 92.60 ECC .66806 INC 1.5931 V1 29.752
RP 108.02 LAP -1.19 LOP 55.89 VP 32.001 GAP -41.01 AZP 91.06 TAL 169.87 TAP 218.15 RCA 30.74 APO 154.47 V2 35.082
RC 68.856 GL -1.99 GP -4.34 ZAL 62.32 ZAP 28.22 ETS 168.48 ZAE 138.40 ETE 182.57 ZAC 98.40 ETC 264.76 CLP 27.91

PLANETOCENTRIC CONIC

C3 194.373 VHL 13.942 DLA -20.87 RAL 308.19 RAD 6571.1 VEL 17.768 PTH 2.99 VHP 23.568 DPA -28.05 RAP 262.65 ECC 4.1989

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 15 22	2013.51	-14.24	29.14	201.33	114.74	10 48 55	1413.5	-10.78	22.16
90.00	16 13 58	800.00	21.75	318.33	215.35	108.59	16 27 18	200.0	24.09	310.44
100.00	11 22 47	1795.95	-16.30	12.14	200.33	115.41	11 52 43	1196.0	-12.75	5.16
100.00	17 49 14	5780.82	23.92	274.42	216.14	108.49	19 25 35	5180.8	26.22	266.38
110.00	12 1 30	1674.58	-21.43	.26	197.65	117.29	12 29 25	1074.6	-17.60	353.22
110.00	19 27 0	5474.96	29.34	253.22	218.16	108.38	20 58 15	4875.0	31.57	244.72

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.5093 TRA-1.7985 TC3 -.1332 BAU .3462 SGT 898.6 SGR 467.3 SG3 32.3 ST 316.6 SR 435.5 SS 278.7
RDE-1.0518 RRA .4031 RC3 -.0034 FAU .01237 RRT -.1101 RRF .1049 RTF -.6603 CRT .5646 CRS .6029 CST .9965
FDE .2318 FRA .7443 FC3 -.0551 BSP 2360 SGB 1012.8 R23 -.0059 R13 .6611 LSA 539.1 MSA 277.1 SSA 14.4
BDE 1.1686 BRA 1.8431 BC3 .1332 FSP -69 SG1 900.6 SG2 463.4 THA 175.54 EL1 484.5 EL2 234.9 ALF 59.93

LAUNCH DATE OCT 1 1965 FLIGHT TIME 76.00 ARRIVAL DATE DEC 16 1965

HELIOCENTRIC CONIC DISTANCE 151.926

RL 149.76 LAL .00 LOL 7.61 VL 19.048 GAL 18.14 AZL 91.29 HCA 51.50 SMA 94.16 ECC .64177 INC 1.2894 V1 29.752
RP 107.98 LAP -1.01 LOP 59.10 VP 32.383 GAP -39.17 AZP 90.80 TAL 169.12 TAP 220.62 RCA 33.73 APO 154.59 V2 35.095
RC 66.778 GL -1.75 GP -4.48 ZAL 61.14 ZAP 26.77 ETS 167.70 ZAE 138.76 ETE 183.25 ZAC 98.31 ETC 265.17 CLP 26.42

PLANETOCENTRIC CONIC

C3 177.202 VHL 13.312 DLA -20.35 RAL 309.35 RAD 6570.9 VEL 17.278 PTH 2.95 VHP 22.656 DPA -28.37 RAP 264.58 ECC 3.9163

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 13 48	2021.22	-14.46	29.60	201.43	114.62	10 47 29	1421.2	-11.02	22.61
90.00	16 24 46	762.43	22.55	315.86	215.43	107.60	16 37 28	162.4	24.75	307.88
100.00	11 21 54	1801.43	-16.46	12.47	200.46	115.31	11 51 56	1201.4	-12.92	5.47
100.00	17 59 20	5745.49	24.66	272.06	216.16	107.45	19 35 6	5145.5	26.81	263.92
110.00	12 1 54	1676.09	-21.48	.35	197.85	117.26	12 29 50	1076.1	-17.65	353.31
110.00	19 35 50	5443.60	30.00	251.01	218.04	107.22	21 6 34	4843.6	32.06	242.40

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.5211 TRA-1.8122 TC3 -.1411 BAU .3344 SGT 939.9 SGR 471.7 SG3 35.0 ST 335.7 SR 436.9 SS 295.6
RDE-1.0068 RRA .4050 RC3 -.0050 FAU .01250 RRT -.1185 RRF .1136 RTF -.6785 CRT .5677 CRS .6133 CST .9962
FDE .2488 FRA .7725 FC3 -.0611 BSP 2512 SGB 1051.7 R23 -.0068 R13 .6793 LSA 557.0 MSA 283.8 SSA 14.6
BDE 1.1337 BRA 1.8569 BC3 .1411 FSP -76 SG1 942.1 SG2 467.3 THA 175.48 EL1 493.8 EL2 244.6 ALF 57.57

LAUNCH DATE OCT 1 1965 FLIGHT TIME 78.00 ARRIVAL DATE DEC 18 1965

HELIOCENTRIC CONIC DISTANCE 157.981

RL	149.76	LAL	.00	LOL	7.61	VL	19.648	GAL	17.36	AZL	91.01	HCA	54.71	SMA	95.71	ECC	.61605	INC	1.0114	V1	29.752
RP	107.94	LAP	-.83	LOP	62.31	VP	32.748	GAP	-37.42	AZP	90.58	TAL	168.39	TAP	223.10	RCA	36.75	APO	154.68	V2	35.108
RC	64.732	GL	-1.49	GP	-4.63	ZAL	60.01	ZAP	25.36	ETS	166.81	ZAE	139.21	ETE	184.01	ZAC	18.95	ETC	92.19	CLP	24.96

PLANETOCENTRIC CONIC

C3 161.608 VHL 12.713 DLA -19.81 RAL 310.43 RAD 6570.8 VEL 16.821 PTH 2.91 VHP 21.775 DPA -28.67 RAP 266.55 ECC 3.6597

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 11 58	2028.39	-14.66	30.03	201.43	114.50	10 45 46	1428.4	-11.23	23.02
90.00	16 35 17	724.01	23.32	313.31	215.36	106.54	16 47 21	124.0	25.36	305.24
100.00	11 20 44	1806.46	-16.61	12.77	200.49	115.22	11 50 51	1206.5	-13.08	5.77
100.00	18 9 12	5709.21	25.38	269.61	216.02	106.35	19 44 21	5109.2	27.37	261.37
110.00	12 1 58	1677.24	-21.51	.42	197.94	117.23	12 29 56	1077.2	-17.69	353.38
110.00	19 44 27	5411.19	30.63	248.69	217.75	105.98	21 14 38	4811.2	32.51	239.98

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-.5298	TRA	-1.8238	TC3	-.1484	BAU	.3209	SGT	981.1	SGR	475.6	SG3	37.8	ST	354.8	SR	437.6	SS	313.0
RDE	-.9622	RRA	.4060	RC3	-.0068	FAU	.01267	RRT	-.1282	RRF	.1231	RTF	-.6962	CRT	.5686	CRS	.6222	CST	.9958
FDE	.2661	FRA	.8012	FC3	-.0679	BSP	2724	SGB	1090.3	R23	-.0072	R13	.6970	LSA	575.4	MSA	289.9	SSA	14.7
BDE	1.0984	BRA	1.8684	BC3	.1485	FSP	-84	SG1	983.6	SG2	470.5	THA	175.39	EL1	502.8	EL2	253.9	ALF	55.20

LAUNCH DATE OCT 1 1965 FLIGHT TIME 80.00 ARRIVAL DATE DEC 20 1965

HELIOCENTRIC CONIC DISTANCE 164.121

RL	149.76	LAL	.00	LOL	7.61	VL	20.194	GAL	16.60	AZL	90.75	HCA	57.92	SMA	97.26	ECC	.59096	INC	.7545	V1	29.752
RP	107.90	LAP	-.64	LOP	65.53	VP	33.096	GAP	-35.75	AZP	90.40	TAL	167.69	TAP	225.61	RCA	39.78	APO	154.74	V2	35.120
RC	62.721	GL	-1.20	GP	-4.80	ZAL	58.93	ZAP	23.96	ETS	165.79	ZAE	139.76	ETE	184.85	ZAC	19.36	ETC	97.32	CLP	23.51

PLANETOCENTRIC CONIC

C3 147.436 VHL 12.142 DLA -19.25 RAL 311.45 RAD 6570.6 VEL 16.394 PTH 2.86 VHP 20.924 DPA -28.97 RAP 268.54 ECC 3.4264

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 9 51	2035.07	-14.85	30.43	201.33	114.39	10 43 46	1435.1	-11.43	23.41
90.00	16 45 32	684.69	24.05	310.66	215.12	105.41	16 56 57	84.7	25.94	302.50
100.00	11 19 15	1811.08	-16.74	13.05	200.42	115.13	11 49 26	1211.1	-13.22	6.03
100.00	18 18 49	5671.95	26.07	267.05	215.73	105.17	19 53 21	5072.0	27.90	258.73
110.00	12 1 42	1678.06	-21.54	.47	197.93	117.21	12 29 40	1078.1	-17.72	353.43
110.00	19 52 51	5377.74	31.23	246.27	217.29	104.67	21 22 29	4777.7	32.92	237.46

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-.5390	TRA	-1.8366	TC3	-.1558	BAU	.3077	SGT	1025.0	SGR	478.8	SG3	40.9	ST	375.0	SR	437.4	SS	331.0
RDE	-.9179	RRA	.4061	RC3	-.0090	FAU	.01285	RRT	-.1383	RRF	.1334	RTF	-.7132	CRT	.5694	CRS	.6303	CST	.9953
FDE	.2841	FRA	.8309	FC3	-.0754	BSP	2914	SGB	1131.3	R23	-.0081	R13	.7140	LSA	595.1	MSA	295.2	SSA	14.9
BDE	1.0645	BRA	1.8809	BC3	.1561	FSP	-93	SG1	1027.7	SG2	473.0	THA	175.31	EL1	512.6	EL2	263.1	ALF	52.59

LAUNCH DATE OCT 1 1965 FLIGHT TIME 82.00 ARRIVAL DATE DEC 22 1965

HELIOCENTRIC CONIC DISTANCE 170.340

RL	149.76	LAL	.00	LOL	7.61	VL	20.714	GAL	15.88	AZL	90.51	HCA	61.14	SMA	98.80	ECC	.56657	INC	.5148	V1	29.752
RP	107.87	LAP	-.45	LOP	68.75	VP	33.429	GAP	-34.16	AZP	90.25	TAL	167.00	TAP	228.14	RCA	42.82	APO	154.78	V2	35.132
RC	60.751	GL	-.88	GP	-4.98	ZAL	57.90	ZAP	22.60	ETS	164.62	ZAE	140.40	ETE	185.80	ZAC	19.94	ETC	102.24	CLP	22.07

PLANETOCENTRIC CONIC

C3 134.551 VHL 11.600 DLA -18.67 RAL 312.41 RAD 6570.4 VEL 15.996 PTH 2.82 VHP 20.101 DPA -29.26 RAP 270.56 ECC 3.2144

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 7 25	2041.32	-15.02	30.80	201.12	114.29	10 41 27	1441.3	-11.62	23.78
90.00	16 55 33	644.45	24.75	307.92	214.72	104.21	17 6 17	44.4	26.47	299.67
100.00	11 17 27	1815.35	-16.87	13.31	200.24	115.05	11 47 43	1215.3	-13.35	6.28
100.00	18 28 12	5633.70	26.72	264.40	215.27	103.92	20 2 6	5033.7	28.37	255.98
110.00	12 1 6	1678.59	-21.55	.51	197.81	117.20	12 29 4	1078.6	-17.74	353.46
110.00	20 1 3	5343.22	31.80	243.74	216.67	103.27	21 30 6	4743.2	33.29	234.83

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-.5500	TRA	-1.8517	TC3	-.1639	BAU	.2955	SGT	1072.6	SGR	481.4	SG3	44.2	ST	397.3	SR	436.3	SS	350.1
RDE	-.8740	RRA	.4055	RC3	-.0116	FAU	.01304	RRT	-.1483	RRF	.1444	RTF	-.7292	CRT	.5707	CRS	.6377	CST	.9948
FDE	.3031	FRA	.8619	FC3	-.0839	BSP	3045	SGB	1175.7	R23	-.0099	R13	.7301	LSA	617.0	MSA	299.7	SSA	15.1
BDE	1.0326	BRA	1.8956	BC3	.1643	FSP	-101	SG1	1075.5	SG2	474.8	THA	175.27	EL1	523.8	EL2	271.8	ALF	49.67

LAUNCH DATE OCT 1 1965 FLIGHT TIME 84.00 ARRIVAL DATE DEC 24 1965

HELIOCENTRIC CONIC DISTANCE 176.632

RL	149.76	LAL	.00	LOL	7.61	VL	21.200	GAL	15.18	AZL	90.29	HCA	64.36	SMA	100.32	ECC	.54291	INC	.2893	V1	29.752
RP	107.83	LAP	-.26	LOP	71.97	VP	33.744	GAP	-32.63	AZP	90.13	TAL	166.35	TAP	230.70	RCA	45.86	APO	154.79	V2	35.144
RC	58.824	GL	-.53	GP	-5.17	ZAL	56.93	ZAP	21.25	ETS	163.27	ZAE	141.14	ETE	186.86	ZAC	20.67	ETC	106.87	CLP	20.64

PLANETOCENTRIC CONIC

C3 122.829 VHL 11.083 DLA -18.07 RAL 313.29 RAD 6570.3 VEL 15.626 PTH 2.78 VHP 19.306 DPA -29.53 RAP 272.61 ECC 3.0215

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 4 42	2047.22	-15.19	31.15	200.82	114.19	10 38 49	1447.2	-11.79	24.12
90.00	17 5 19	603.25	25.41	305.08	214.16	102.93	17 15 22	3.2	26.94	296.75
100.00	11 15 19	1819.32	-16.98	13.55	199.96	114.98	11 45 39	1219.3	-13.47	6.51
100.00	18 37 23	5594.42	27.33	261.64	214.64	102.60	20 10 37	4994.4	28.79	253.14
110.00	12 0 8	1678.89	-21.56	.52	197.59	117.19	12 28 7	1078.9	-17.75	353.47
110.00	20 9 3	5307.62	32.32	241.10	215.89	101.79	21 37 30	4707.6	33.61	232.10

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-.5582	TRA	-1.8645	TC3	-.1711	BAU	.2820	SGT	1120.3	SGR	483.4	SG3	47.9	ST	419.4	SR	434.4	SS	369.7
RDE	-.8305	RRA	.4041	RC3	-.0146	FAU	.01327	RRT	-.1599	RRF	.1565	RTF	-.7448	CRT	.5700	CRS	.6439	CST	.9941
FDE	.3226	FRA	.8937	FC3	-.0935	BSP	3232	SGB	1220.2	R23	-.0113	R13	.7456	LSA	639.5	MSA	303.5	SSA	15.3
BDE	1.0007	BRA	1.9078	BC3	.1717	FSP	-111	SG1	1123.6	SG2	475.8	THA	175.19	EL1	535.1	EL2	279.8	ALF	46.76

LAUNCH DATE OCT 1 1965 FLIGHT TIME 86.00 ARRIVAL DATE DEC 26 1965

HELIOCENTRIC CONIC DISTANCE 182.993

RL	149.76	LAL	.00	LOL	7.61	VL	21.656	GAL	14.50	AZL	90.08	HCA	67.58	SMA	101.83	ECC	.52003	INC	.0753
RP	107.80	LAP	-.07	LOP	75.19	VP	34.044	GAP	-31.17	AZP	90.03	TAL	165.72	TAP	233.29	RCA	48.87	APO	154.78
RC	56.947	GL	-.15	GP	-5.38	ZAL	56.02	ZAP	19.94	ETS	161.70	ZAE	141.99	ETE	188.07	ZAC	21.56	ETC	111.19

V1	29.752																		
V2	35.155																		
CLP	19.23																		

PLANETOCENTRIC CONIC

C3	112.163	VHL	10.591	DLA	-17.45	RAL	314.10	RAD	6570.1	VEL	15.281	PTH	2.74	VHP	18.536	DPA	-29.80	RAP	274.68

ECC	2.8459																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 1 38	2052.86	-15.34	31.49	200.41	114.09	10 35 51	1452.9	-11.96	24.45
90.00	17 14 52	5849.09	26.02	280.05	213.44	101.58	18 52 21	5249.1	27.36	271.64
100.00	11 12 50	1823.08	-17.09	13.78	199.58	114.91	11 43 13	1223.1	-13.59	6.73
100.00	18 46 20	5554.10	27.90	258.78	213.86	101.19	20 18 55	4954.1	29.16	250.20
110.00	11 58 49	1679.02	-21.57	.53	197.27	117.19	12 26 48	1079.0	-17.75	353.48
110.00	20 16 51	5270.93	32.80	238.34	214.93	100.22	21 44 42	4670.9	33.86	229.27

DIFFERENTIAL CORRECTIONS

TDE	-.5653	TRA	-1.8765	TC3	-.1778	BAU	.2680												
RDE	-.7876	RRA	.4022	RC3	-.0182	FAU	.01352												
FDE	.3429	FRA	.9267	FC3	-.1044	BSP	3431												
BDE	.9695	BRA	1.9192	BC3	.1787	FSP	-122												

MID-COURSE EXECUTION ACCURACY

SGT	1169.6	SGR	484.8	SG3	51.8														
RRT	-.1726	RRF	.1698	RTF	-.7597														
SGB	1266.1	R23	-.0128	R13	.7606														
SG1	1173.2	SG2	476.1	THA	175.10														

ORBIT DETERMINATION ACCURACY

ST	442.3	SR	431.5	SS	390.0														
CRT	.5684	CRS	.6493	CST	.9934														
LSA	663.1	MSA	306.5	SSA	15.4														
EL1	547.3	EL2	286.9	ALF	43.76														

LAUNCH DATE OCT 1 1965 FLIGHT TIME 88.00 ARRIVAL DATE DEC 28 1965

HELIOCENTRIC CONIC DISTANCE 189.416

RL	149.76	LAL	.00	LOL	7.61	VL	22.083	GAL	13.85	AZL	89.87	HCA	70.80	SMA	103.31	ECC	.49795	INC	.1272
RP	107.76	LAP	.12	LOP	8.42	VP	34.328	GAP	-29.77	AZP	89.96	TAL	165.11	TAP	235.92	RCA	51.87	APO	154.75
RC	55.125	GL	.27	GP	-5.62	ZAL	55.15	ZAP	18.66	ETS	159.85	ZAE	142.94	ETE	189.43	ZAC	22.57	ETC	115.15

V1	29.752																		
V2	35.166																		
CLP	17.82																		

PLANETOCENTRIC CONIC

C3	102.459	VHL	10.122	DLA	-16.81	RAL	314.84	RAD	6570.0	VEL	14.960	PTH	2.70	VHP	17.791	DPA	-30.07	RAP	276.77

ECC	2.6862																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 58 13	2058.36	-15.50	31.83	199.91	114.00	10 32 31	1458.4	-12.12	24.77
90.00	17 24 12	5805.87	26.58	277.01	212.55	100.15	19 0 58	5205.9	27.71	268.52
100.00	11 10 0	1826.75	-17.19	14.00	199.11	114.84	11 40 26	1226.8	-13.70	6.95
100.00	18 55 7	5512.71	28.41	255.81	212.92	99.71	20 27 0	4912.7	29.46	247.16
110.00	11 57 8	1679.09	-21.57	.54	196.85	117.19	12 25 7	1079.1	-17.75	353.49
110.00	20 24 28	5233.13	33.22	235.47	213.82	98.57	21 51 41	4633.1	34.05	226.33

DIFFERENTIAL CORRECTIONS

TDE	-.5718	TRA	-1.8880	TC3	-.1840	BAU	.2539												
RDE	-.7451	RRA	.3999	RC3	-.0224	FAU	.01381												
FDE	.3641	FRA	.9609	FC3	-.1167	BSP	3633												
BDE	.9393	BRA	1.9299	BC3	.1854	FSP	-134												

MID-COURSE EXECUTION ACCURACY

SGT	1220.6	SGR	485.6	SG3	56.1														
RRT	-.1865	RRF	.1845	RTF	-.7739														
SGB	1313.7	R23	-.0146	R13	.7749														
SG1	1224.5	SG2	475.6	THA	175.00														

ORBIT DETERMINATION ACCURACY

ST	465.9	SR	427.7	SS	411.2														
CRT	.5660	CRS	.6538	CST	.9925														
LSA	688.2	MSA	308.6	SSA	15.6														
EL1	560.4	EL2	293.1	ALF	40.70														

LAUNCH DATE OCT 1 1965 FLIGHT TIME 90.00 ARRIVAL DATE DEC 30 1965

HELIOCENTRIC CONIC DISTANCE 195.896

RL	149.76	LAL	.00	LOL	7.61	VL	22.483	GAL	13.22	AZL	89.68	HCA	74.03	SMA	104.76	ECC	.47669	INC	.3243
RP	107.73	LAP	.31	LOP	81.64	VP	34.597	GAP	-28.43	AZP	89.91	TAL	164.54	TAP	238.57	RCA	54.82	APO	154.70
RC	53.365	GL	.73	GP	-5.87	ZAL	54.35	ZAP	17.41	ETS	157.67	ZAE	144.00	ETE	191.00	ZAC	23.71	ETC	118.75

V1	29.752																		
V2	35.176																		
CLP	16.42																		

PLANETOCENTRIC CONIC

C3	93.630	VHL	9.676	DLA	-16.14	RAL	315.52	RAD	6569.8	VEL	14.662	PTH	2.66	VHP	17.071	DPA	-30.32	RAP	278.87

ECC	2.5409																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 54 26	2063.86	-15.65	32.16	199.32	113.90	10 28 50	1463.9	-12.29	25.09
90.00	17 33 22	5761.58	27.07	273.86	211.52	98.65	19 9 23	5161.6	27.99	265.31
100.00	11 6 46	1830.45	-17.30	14.22	198.54	114.76	11 37 16	1230.5	-13.82	7.16
100.00	19 3 43	5470.22	28.86	252.73	211.81	98.15	20 34 53	4870.2	29.69	244.02
110.00	11 55 3	1679.21	-21.57	.54	196.33	117.18	12 23 2	1079.2	-17.76	353.49
110.00	20 31 55	5194.23	33.57	232.49	212.54	96.84	21 58 29	4594.2	34.16	223.30

DIFFERENTIAL CORRECTIONS

TDE	-.5800	TRA	-1.9011	TC3	-.1905	BAU	.2409												
RDE	-.7032	RRA	.3972	RC3	-.0272	FAU	.01412												
FDE	.3866	FRA	.9970	FC3	-.1306	BSP	3786												
BDE	.9115	BRA	1.9421	BC3	.1924	FSP	-147												

MID-COURSE EXECUTION ACCURACY

SGT	1275.6	SGR	485.9	SG3	60.7														
RRT	-.2009	RRF	.2005	RTF	-.7871														
SGB	1365.0	R23	-.0174	R13	.7881														
SG1	1279.9	SG2	474.4	THA	174.93														

ORBIT DETERMINATION ACCURACY

ST	491.6	SR	422.8	SS	433.7														
CRT	.5638	CRS	.6577	CST	.9918														
LSA	715.8	MSA	309.7	SSA	15.7														
EL1	575.8	EL2	298.1	ALF	37.49														

LAUNCH DATE OCT 1 1965 FLIGHT TIME 92.00 ARRIVAL DATE JAN 1 1966

HELIOCENTRIC CONIC DISTANCE 202.429

RL	149.76	LAL	.00	LOL	7.61	VL	22.857	GAL	12.62	AZL	89.49	HCA	77.26	SMA	106.18	ECC	.45626	INC	.5145
RP	107.70	LAP	.50	LOP	84.87	VP	34.852	GAP	-27.13	AZP	89.89	TAL	164.01	TAP	241.27	RCA	57.74	APO	154.63
RC	51.675	GL	1.24	GP	-6.15	ZAL	53.60	ZAP	16.21	ETS	155.09	ZAE	145.16	ETE	192.79	ZAC	24.95	ETC	122.01

V1	29.752																		
V2	35.186																		
CLP	15.02																		

PLANETOCENTRIC CONIC

C3	85.600	VHL	9.252	DLA	-15.44	RAL	316.12	RAD	6569.7	VEL	14.386	PTH	2.61	VHP	16.374	DPA	-30.58	RAP	280.99

ECC	2.4088																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 50 15	2069.50	-15.80	32.50	198.63	113.81	10 24 44	1469.5	-12.45	25.42
90.00	17 42 21	5716.20	27.49	270.61	210.32	97.07	19 17 37	5116.2	28.19	262.01
100.00	11 3 8	1834.32	-17.41	14.46	197.88	114.69	11 33 42	1234.3	-13.93	7.39
100.00	19 12 9	5426.61	29.24	249.54	210.56	96.51	20 42 35	4826.6	29.83	240.79
110.00	11 52 33	1679.51	-21.58	.56	195.73	117.18	12 20 33	1079.5	-17.77	353.51
110.00	20 39 13	5154.19	33.86	229.40	211.11	95.03	22 5 7	4554.2	34.18	220.17

DIFFERENTIAL CORRECTIONS

TDE	-.5853	TRA	-1.9111	TC3	-.1953	BAU	.2266												
RDE	-.6618	RRA	.3943	RC3	-.0328	FAU	.01448												
FDE	.4101	FRA	1.0344	FC3	-.1464	BSP	3994												
BDE	.8835	BRA	1.9514	BC3	.1980	FSP	-161												

MID-COURSE EXECUTION ACCURACY

SGT	1330.2	SGR	485.6	SG3	65.8														
RRT	-.2175	RRF	.2184	RTF	-.8000														
SGB	1416.1	R23	-.0197	R13	.8011														
SG1	1335.0	SG2	472.3	THA	174.81														

ORBIT DETERMINATION ACCURACY

ST	516.9	SR	416.8	SS	456.9														
CRT	.5597	CRS	.6605	CST	.9908														
LSA	743.8	MSA	310.1	SSA	15.9														
EL1	591.4	EL2	301.9	ALF	34.41														

LAUNCH DATE OCT 1 1965 FLIGHT TIME 94.00 ARRIVAL DATE JAN 3 1966

HELIOCENTRIC CONIC DISTANCE 209,009

RL	149.76	LAL	.00	LOL	7.61	VL	23.207	GAL	12.04	AZL	89.30	HCA	80.49	SMA	107.57	ECC	.43666	INC	.7000
RP	107.67	LAP	.69	LOP	88.10	VP	35.092	GAP	-25.89	AZP	89.88	TAL	163.51	TAP	244.00	RCA	60.60	APO	154.54
RC	50.062	GL	1.80	GP	-6.46	ZAL	52.91	ZAP	15.05	ETS	152.00	ZAE	146.42	ETE	194.86	ZAC	26.29	ETC	124.94

V1	29.752	V2	35.196	CLP	13.63														

PLANETOCENTRIC CONIC

C3	78.300	VHL	8.849	DLA	-14.70	RAL	316.65	RAD	6569.5	VEL	14.130	PTH	2.58	VHP	15.700	DPA	-30.83	RAP	283.13

ECC	2.2886																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 45 38	2075.46	-15.97	32.86	197.86	113.70	10 20 13	1475.5	-12.63	25.77
90.00	17 51 11	5669.69	27.84	267.25	208.99	95.42	19 25 41	5069.7	28.30	258.61
100.00	10 59 4	1838.53	-17.53	14.71	197.13	114.61	11 29 42	1238.5	-14.06	7.63
100.00	19 20 26	5381.86	29.54	246.25	209.16	94.80	20 50 8	4781.9	29.89	237.46
110.00	11 49 38	1680.13	-21.60	.60	195.03	117.16	12 17 38	1080.1	-17.79	353.55
110.00	20 46 22	5113.02	34.06	226.20	209.53	93.15	22 11 35	4513.0	34.12	216.96

DIFFERENTIAL CORRECTIONS

TDE	-.5903	TRA	-1.9203	TC3	-.1991	BAU	.2124
RDE	-.6210	RRA	.3914	RC3	-.0393	FAU	.01487
FDE	.4350	FRA	1.0737	FC3	-.1644	BSP	4203
BDE	.8568	BRA	1.9598	BC3	.2029	FSP	-177

MID-COURSE EXECUTION ACCURACY

SGT	1386.6	SGR	484.9	SG3	71.3		
RRT	-.2359	RRF	.2382	RTF	-.8122		
SGB	1469.0	R23	-.0225	R13	.8133		
SG1	1391.9	SG2	469.5	THA	174.68		

ORBIT DETERMINATION ACCURACY

ST	543.1	SR	409.7	SS	481.3
CRT	.5546	CRS	.6623	CST	.9897
LSA	773.5	MSA	309.5	SSA	16.0
EL1	608.4	EL2	304.3	ALF	31.38

LAUNCH DATE OCT 1 1965 FLIGHT TIME 96.00 ARRIVAL DATE JAN 5 1966

HELIOCENTRIC CONIC DISTANCE 215,630

RL	149.76	LAL	.00	LOL	7.61	VL	23.534	GAL	11.48	AZL	89.12	HCA	83.72	SMA	108.92	ECC	.41791	INC	.8822
RP	107.64	LAP	.88	LOP	91.33	VP	35.318	GAP	-24.69	AZP	89.90	TAL	163.04	TAP	246.76	RCA	63.40	APO	154.44
RC	48.537	GL	2.40	GP	-6.80	ZAL	52.28	ZAP	13.97	ETS	148.31	ZAE	147.77	ETE	197.27	ZAC	27.71	ETC	127.55

V1	29.752	V2	35.204	CLP	12.23														

PLANETOCENTRIC CONIC

C3	71.668	VHL	8.466	DLA	-13.93	RAL	317.10	RAD	6569.4	VEL	13.893	PTH	2.54	VHP	15.048	DPA	-31.09	RAP	285.28

ECC	2.1795																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 40 33	2081.94	-16.14	33.25	197.01	113.58	10 15 15	1481.9	-12.82	26.16
90.00	17 59 54	5622.02	28.09	263.78	207.51	93.70	19 33 36	5022.0	28.31	255.12
100.00	10 54 32	1843.26	-17.66	15.00	196.30	114.52	11 25 15	1243.3	-14.21	7.91
100.00	19 28 37	5335.93	29.75	242.85	207.62	93.03	20 57 33	4735.9	29.86	234.05
110.00	11 46 15	1681.25	-21.64	.67	194.26	117.13	12 14 16	1081.3	-17.83	353.61
110.00	20 53 23	5070.70	34.16	222.90	207.81	91.20	22 17 53	4470.7	33.95	213.66

DIFFERENTIAL CORRECTIONS

TDE	-.5944	TRA	-1.9283	TC3	-.2014	BAU	.1981
RDE	-.5808	RRA	.3885	RC3	-.0468	FAU	.01531
FDE	.4613	FRA	1.1149	FC3	-.1849	BSP	4424
BDE	.8310	BRA	1.9670	BC3	.2068	FSP	-194

MID-COURSE EXECUTION ACCURACY

SGT	1444.3	SGR	483.9	SG3	77.3		
RRT	-.2563	RRF	.2603	RTF	-.8238		
SGB	1523.2	R23	-.0255	R13	.8250		
SG1	1450.3	SG2	465.8	THA	174.53		

ORBIT DETERMINATION ACCURACY

ST	569.8	SR	401.4	SS	506.8
CRT	.5482	CRS	.6630	CST	.9886
LSA	804.6	MSA	308.2	SSA	16.1
EL1	626.5	EL2	305.3	ALF	28.44

LAUNCH DATE OCT 1 1965 FLIGHT TIME 98.00 ARRIVAL DATE JAN 7 1966

HELIOCENTRIC CONIC DISTANCE 222,289

RL	149.76	LAL	.00	LOL	7.61	VL	23.840	GAL	10.94	AZL	88.94	HCA	86.95	SMA	110.23	ECC	.40000	INC	1.0623
RP	107.62	LAP	1.06	LOP	94.57	VP	35.531	GAP	-23.54	AZP	89.94	TAL	162.62	TAP	249.57	RCA	66.14	APO	154.32
RC	47.108	GL	3.07	GP	-7.17	ZAL	51.71	ZAP	12.97	ETS	143.87	ZAE	149.19	ETE	200.09	ZAC	29.21	ETC	129.88

V1	29.752	V2	35.213	CLP	10.83														

PLANETOCENTRIC CONIC

C3	65.648	VHL	8.102	DLA	-13.12	RAL	317.49	RAD	6569.2	VEL	13.675	PTH	2.50	VHP	14.418	DPA	-31.35	RAP	287.44

ECC	2.0804																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 34 59	2089.14	-16.34	33.69	196.08	113.45	10 9 48	1489.1	-13.03	26.58
90.00	18 8 31	5573.15	28.26	260.22	205.90	91.92	19 41 24	4973.1	28.22	251.55
100.00	10 49 30	1848.72	-17.82	15.33	195.40	114.41	11 20 19	1248.7	-14.37	8.23
100.00	19 36 41	5288.80	29.87	239.35	205.95	91.19	21 4 50	4688.8	29.72	230.55
110.00	11 42 24	1683.07	-21.69	.78	193.41	117.09	12 10 27	1083.1	-17.89	353.72
110.00	21 0 17	5027.22	34.17	219.51	205.97	89.19	22 24 5	4427.2	33.68	210.30

DIFFERENTIAL CORRECTIONS

TDE	-.5984	TRA	-1.9353	TC3	-.2023	BAU	.1841
RDE	-.5410	RRA	.3858	RC3	-.0553	FAU	.01579
FDE	.4896	FRA	1.1584	FC3	-.2082	BSP	4644
BDE	.8067	BRA	1.9734	BC3	.2098	FSP	-213

MID-COURSE EXECUTION ACCURACY

SGT	1503.8	SGR	482.6	SG3	83.8		
RRT	-.2789	RRF	.2850	RTF	-.8348		
SGB	1579.3	R23	-.0291	R13	.8360		
SG1	1510.4	SG2	461.4	THA	174.36		

ORBIT DETERMINATION ACCURACY

ST	597.4	SR	391.7	SS	533.8
CRT	.5405	CRS	.6626	CST	.9874
LSA	837.6	MSA	305.9	SSA	16.2
EL1	646.1	EL2	304.7	ALF	25.60

LAUNCH DATE OCT 1 1965 FLIGHT TIME 100.00 ARRIVAL DATE JAN 9 1966

HELIOCENTRIC CONIC DISTANCE 228,981

RL	149.76	LAL	.00	LOL	7.61	VL	24.126	GAL	10.42	AZL	88.76	HCA	90.19	SMA	111.50	ECC	.38291	INC	1.2412
RP	107.60	LAP	1.24	LOP	97.80	VP	35.731	GAP	-22.43	AZP	90.00	TAL	162.23	TAP	252.42	RCA	68.81	APO	154.20
RC	45.785	GL	3.80	GP	-7.59	ZAL	51.21	ZAP	12.08	ETS	138.57	ZAE	150.65	ETE	203.40	ZAC	30.77	ETC	131.95

V1	29.752	V2	35.220	CLP	9.43														

PLANETOCENTRIC CONIC

C3	60.190	VHL	7.758	DLA	-12.27	RAL	317.79	RAD	6569.1	VEL	13.474	PTH	2.46	VHP	13.808	DPA	-31.62	RAP	289.61

ECC	1.9906																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 28 54	2097.32	-16.56	34.19	195.09	113.30	10 3 51	1497.3	-13.27	27.06
90.00	18 17 4	5523.04	28.32	256.55	204.17	90.08	19 49 7	4923.0	28.03	247.90
100.00	10 43 57	1855.14	-18.00	15.72	194.43	114.28	11 14 53	1255.1	-14.57	8.61
100.00	19 44 41	5240.45	29.88	235.76	204.16	89.30	21 12 2	4640.5	29.47	226.98
110.00	11 38 2	1685.80	-21.78	.95	192.50	117.02	12 6 7	1085.8	-17.98	353.87
110.00	21 7 6	4982.56	34.08	216.02	204.00	87.13	22 30 9	4382.6	33.30	206.87

DIFFERENTIAL CORRECTIONS

TDE	-.6018	TRA	-1.9411	TC3	-.2013	BAU	.1702
RDE	-.5018	RRA	.3836	RC3	-.0651	FAU	.01633
FDE	.5200	FRA	1.2045	FC3	-.2348	BSP	4875
BDE	.7836	BRA	1.9786	BC3	.2115	FSP	-234

MID-COURSE EXECUTION ACCURACY

SGT	1564.4	SGR	481.2	SG3	91.0		
RRT	-.3043	RRF	.3125	RTF	-.8452		
SGB	1636.7	R23	-.0330	R13	.8465		
SG1	1571.8	SG2	456.2	THA	174.16		

ORBIT DETERMINATION ACCURACY

ST	625.5	SR	380.7	SS	562.3
CRT	.5310	CRS	.6606	CST	.9861
LSA	872.1	MSA	302.8	SSA	16.3
EL1	666.8	EL2	302.6	ALF	22.87

LAUNCH DATE OCT 1 1965 FLIGHT TIME 102.00 ARRIVAL DATE JAN 11 1966

HELIOCENTRIC CONIC DISTANCE 235,701

RL	149.76	LAL	.00	LOL	7.61	VL	24.393	GAL	9.92	AZL	88.58	HCA	93.43	SMA	112.73	ECC	.36665	INC	1.4204	V1	29.752
RP	107.57	LAP	1.42	LOP	101.04	VP	35.918	GAP	-21.36	AZP	90.09	TAL	161.89	TAP	255.31	RCA	71.40	APO	154.06	V2	35.227
RC	44.580	GL	4.60	GP	-8.04	ZAL	50.78	ZAP	11.34	ETS	132.30	ZAE	152.13	ETE	207.29	ZAC	32.39	ETC	133.77	CLP	8.02

PLANETOCENTRIC CONIC

C3	55.247	VHL	7.433	DLA	-11.36	RAL	318.02	RAD	6569.0	VEL	13.289	PTH	2.43	VHP	13.220	DPA	-31.91	RAP	291.78	ECC	1.9092

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 22 14	2106.74	-16.81	34.77	194.03	113.12	9 57 20	1506.7	-13.54	27.62
90.00	18 25 34	5471.65	28.26	252.80	202.33	88.20	19 56 46	4871.6	27.72	244.17
100.00	10 37 50	1862.79	-18.21	16.19	193.39	114.12	11 8 53	1262.8	-14.80	9.06
100.00	19 52 39	5190.83	29.79	232.07	202.26	87.36	21 19 10	4590.8	29.10	223.34
110.00	11 33 7	1689.68	-21.90	1.18	191.52	116.93	12 1 17	1089.7	-18.11	354.10
110.00	21 13 51	4936.71	33.86	212.46	201.94	85.03	22 36 8	4336.7	32.80	203.38

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY				ORBIT DETERMINATION ACCURACY					
TDE	-.6055	TRA	-1.9458	TC3	-.1983	BAU	.1569	SGT	1626.5	SGR	480.0	SG3	98.8	ST	654.6	SR	368.1	SS	592.6
RDE	-.4629	RRA	.3820	RC3	-.0762	FAU	.01691	RRT	-.3325	RRF	.3434	RTF	-.8550	CRT	.5197	CRS	.6568	CST	.9848
FDE	.5529	FRA	1.2533	FC3	-.2650	BSP	5101	SGB	1695.8	R23	-.0377	R13	.8565	LSA	908.7	MSA	298.8	SSA	16.4
BDE	.7622	BRA	1.9830	BC3	.2125	FSP	-256	SG1	1634.9	SG2	450.3	THA	173.93	EL1	689.0	EL2	298.8	ALF	20.26

LAUNCH DATE OCT 1 1965 FLIGHT TIME 104.00 ARRIVAL DATE JAN 13 1966

HELIOCENTRIC CONIC DISTANCE 242,445

RL	149.76	LAL	.00	LOL	7.61	VL	24.642	GAL	9.45	AZL	88.40	HCA	96.66	SMA	113.91	ECC	.35120	INC	1.6008	V1	29.752
RP	107.55	LAP	1.59	LOP	104.28	VP	36.094	GAP	-20.32	AZP	90.19	TAL	161.58	TAP	258.25	RCA	73.90	APO	153.92	V2	35.234
RC	43.503	GL	5.47	GP	-8.55	ZAL	50.41	ZAP	10.79	ETS	125.05	ZAE	153.57	ETE	211.89	ZAC	34.06	ETC	135.39	CLP	6.60

PLANETOCENTRIC CONIC

C3	50.779	VHL	7.126	DLA	-10.40	RAL	318.18	RAD	6568.9	VEL	13.120	PTH	2.40	VHP	12.651	DPA	-32.22	RAP	293.96	ECC	1.8357

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 14 57	2117.67	-17.11	35.44	192.92	112.92	9 50 14	1517.7	-13.86	28.27
90.00	18 34 4	5418.93	28.09	248.95	200.39	86.28	20 4 23	4818.9	27.28	240.38
100.00	10 31 7	1871.92	-18.46	16.75	192.31	113.94	11 2 19	1271.9	-15.07	9.60
100.00	20 0 35	5139.91	29.57	228.30	200.27	85.39	21 26 15	4539.9	28.61	219.63
110.00	11 27 38	1694.96	-22.06	1.51	190.49	116.80	11 55 53	1095.0	-18.29	354.41
110.00	21 20 34	4889.64	33.53	208.82	199.79	82.90	22 42 3	4289.6	32.18	199.85

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY				ORBIT DETERMINATION ACCURACY					
TDE	-.6090	TRA	-1.9492	TC3	-.1929	BAU	.1442	SGT	1689.4	SGR	479.2	SG3	107.4	ST	684.4	SR	353.8	SS	624.8
RDE	-.4244	RRA	.3812	RC3	-.0889	FAU	.01756	RRT	-.3640	RRF	.3778	RTF	-.8643	CRT	.5056	CRS	.6505	CST	.9835
FDE	.5888	FRA	1.3052	FC3	-.2993	BSP	5335	SGB	1756.1	R23	-.0429	R13	.8659	LSA	947.2	MSA	294.0	SSA	16.5
BDE	.7423	BRA	1.9861	BC3	.2124	FSP	-282	SG1	1699.1	SG2	443.8	THA	173.67	EL1	712.4	EL2	293.2	ALF	17.76

LAUNCH DATE OCT 1 1965 FLIGHT TIME 106.00 ARRIVAL DATE JAN 15 1966

HELIOCENTRIC CONIC DISTANCE 249.208

RL	149.76	LAL	.00	LOL	7.61	VL	24.874	GAL	8.99	AZL	88.22	HCA	99.90	SMA	115.05	ECC	.33655	INC	1.7837	V1	29.752
RP	107.54	LAP	1.76	LOP	107.52	VP	36.259	GAP	-19.32	AZP	90.31	TAL	161.32	TAP	261.23	RCA	76.33	APO	153.77	V2	35.239
RC	42.563	GL	6.42	GP	-9.11	ZAL	50.12	ZAP	10.47	ETS	116.94	ZAE	154.91	ETE	217.28	ZAC	35.78	ETC	136.80	CLP	5.17

PLANETOCENTRIC CONIC

C3	46.747	VHL	6.837	DLA	-9.38	RAL	318.25	RAD	6568.7	VEL	12.966	PTH	2.36	VHP	12.103	DPA	-32.56	RAP	296.15	ECC	1.7693

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 7 0	2130.45	-17.44	36.22	191.77	112.67	9 42 30	1530.4	-14.22	29.03
90.00	18 42 36	5364.82	27.79	245.02	198.37	84.33	20 12 1	4764.8	26.71	236.52
100.00	10 23 45	1882.86	-18.76	17.42	191.17	113.71	10 55 7	1282.9	-15.40	10.25
100.00	20 8 33	5087.64	29.22	224.46	198.20	83.39	21 33 20	4487.6	28.00	215.87
110.00	11 21 31	1701.93	-22.27	1.94	189.41	116.63	11 49 53	1101.9	-18.52	354.81
110.00	21 27 15	4841.34	33.06	205.13	197.57	80.76	22 47 57	4241.3	31.43	196.28

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY				ORBIT DETERMINATION ACCURACY					
TDE	-.6130	TRA	-1.9517	TC3	-.1849	BAU	.1323	SGT	1753.8	SGR	479.1	SG3	116.8	ST	715.0	SR	337.8	SS	659.2
RDE	-.3860	RRA	.3815	RC3	-.1033	FAU	.01826	RRT	-.3990	RRF	.4162	RTF	-.8730	CRT	.4880	CRS	.6410	CST	.9821
FDE	.6281	FRA	1.3606	FC3	-.3382	BSP	5560	SGB	1818.0	R23	-.0489	R13	.8748	LSA	988.2	MSA	288.5	SSA	16.6
BDE	.7244	BRA	1.9886	BC3	.2118	FSP	-309	SG1	1764.8	SG2	436.6	THA	173.37	EL1	737.3	EL2	285.9	ALF	15.34

LAUNCH DATE OCT 1 1965 FLIGHT TIME 108.00 ARRIVAL DATE JAN 17 1966

HELIOCENTRIC CONIC DISTANCE 255,988

RL	149.76	LAL	.00	LOL	7.61	VL	25.091	GAL	8.55	AZL	88.03	HCA	103.14	SMA	116.14	ECC	.32268	INC	1.9703	V1	29.752
RP	107.52	LAP	1.92	LOP	110.76	VP	36.413	GAP	-18.36	AZP	90.45	TAL	161.10	TAP	264.25	RCA	78.66	APO	153.61	V2	35.244
RC	41.769	GL	7.46	GP	-9.74	ZAL	49.91	ZAP	10.42	ETS	108.28	ZAE	156.06	ETE	223.53	ZAC	37.54	ETC	138.03	CLP	3.72

PLANETOCENTRIC CONIC

C3	43.119	VHL	6.567	DLA	-8.29	RAL	318.24	RAD	6568.6	VEL	12.825	PTH	2.33	VHP	11.575	DPA	-32.94	RAP	298.34	ECC	1.7096

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 58 20	2145.40	-17.83	37.15	190.59	112.37	9 34 6	1545.4	-14.64	29.92
90.00	18 51 12	5309.25	27.35	241.01	196.29	82.37	20 19 42	4709.3	26.01	232.60
100.00	10 15 40	1895.92	-19.12	18.23	190.01	113.43	10 47 16	1295.9	-15.79	11.02
100.00	20 16 34	5033.96	28.73	220.54	196.07	81.38	21 40 28	4434.0	27.24	212.06
110.00	11 14 45	1710.90	-22.55	2.49	188.31	116.40	11 43 16	1110.9	-18.82	355.34
110.00	21 33 58	4791.75	32.45	201.39	195.31	78.63	22 53 49	4191.7	30.55	192.69

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY				ORBIT DETERMINATION ACCURACY					
TDE	-.6172	TRA	-1.9525	TC3	-.1735	BAU	.1215	SGT	1818.2	SGR	480.4	SG3	127.0	ST	746.2	SR	319.8	SS	696.1
RDE	-.3476	RRA	.3831	RC3	-.1195	FAU	.01904	RRT	-.4379	RRF	.4588	RTF	-.8813	CRT	.4652	CRS	.6269	CST	.9807
FDE	.6714	FRA	1.4196	FC3	-.3822	BSP	5800	SGB	1880.6	R23	-.0557	R13	.8833	LSA	1031.4	MSA	282.2	SSA	16.6
BDE	.7083	BRA	1.9897	BC3	.2107	FSP	-340	SG1	1831.1	SG2	428.8	THA	173.02	EL1	763.2	EL2	276.8	ALF	13.02

LAUNCH DATE OCT 1 1965 FLIGHT TIME 110.00 ARRIVAL DATE JAN 19 1966

HELIOCENTRIC CONIC DISTANCE 262.779

RL 149.76 LAL .00 LOL 7.61 VL 25.292 GAL 8.14 AZL 87.84 HCA 106.38 SMA 117.18 ECC .30957 INC 2.1619 V1 29.752
RP 107.51 LAP 2.07 LOP 114.01 VP 36.556 GAP -17.42 AZP 90.61 TAL 160.93 TAP 267.31 RCA 80.90 APO 153.45 V2 35.249
RC 41.131 GL 8.60 GP -10.45 ZAL 49.78 ZAP 10.68 ETS 99.56 ZAE 156.94 ETE 230.62 ZAC 39.35 ETC 139.09 CLP 2.25

PLANETOCENTRIC CONIC

C3 39.864 VHL 6.314 DLA -7.12 RAL 318.15 RAD 6568.5 VEL 12.698 PTH 2.31 VHP 11.067 DPA -33.37 RAP 300.53 ECC 1.6561

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 48 54	2162.89	-18.28	38.23	189.38	112.01	9 24 57	1562.9	-15.14	30.97
90.00	18 59 56	5252.15	26.77	236.93	194.16	80.40	20 27 28	4652.1	25.17	228.63
100.00	10 6 50	1911.48	-19.54	19.20	188.83	113.08	10 38 41	1311.5	-16.24	11.95
100.00	20 24 41	4978.80	28.11	216.56	193.89	79.38	21 47 40	4378.8	26.35	208.20
110.00	11 7 17	1722.20	-22.89	3.19	187.18	116.11	11 35 59	1122.2	-19.19	356.00
110.00	21 40 43	4740.84	31.71	197.61	193.01	76.50	22 59 44	4140.8	29.53	189.08

DIFFERENTIAL CORRECTIONS

TDE -.6223 TRA-1.9526 TC3 -.1597 BAU .1124
RDE -.3089 RRA .3865 RC3 -.1379 FAU .01987
FDE .7194 FRA 1.4831 FC3 -.4315 BSP 6022
BDE .6948 BRA 1.9904 BC3 .2110 FSP -373

MID-COURSE EXECUTION ACCURACY

SGT 1883.7 SGR 483.5 SG3 138.3
RRT -.4806 RRF .5055 RTF -.8890
SGB 1944.8 R23 -.0636 R13 .8912
SG1 1898.7 SG2 420.7 THA 172.60

ORBIT DETERMINATION ACCURACY

ST 778.4 SR 299.7 SS 735.8
CRT .4351 CRS .6060 CST .9793
LSA 1077.5 MSA 275.3 SSA 16.7
EL1 790.7 EL2 265.7 ALF 10.74

LAUNCH DATE OCT 1 1965 FLIGHT TIME 112.00 ARRIVAL DATE JAN 21 1966

HELIOCENTRIC CONIC DISTANCE 269.579

RL 149.76 LAL .00 LOL 7.61 VL 25.480 GAL 7.74 AZL 87.64 HCA 109.62 SMA 118.17 ECC .29721 INC 2.3601 V1 29.752
RP 107.50 LAP 2.22 LOP 117.25 VP 36.689 GAP -16.52 AZP 90.79 TAL 160.79 TAP 270.42 RCA 83.05 APO 153.29 V2 35.252
RC 40.657 GL 9.85 GP -11.24 ZAL 49.75 ZAP 11.26 ETS 91.29 ZAE 157.44 ETE 238.43 ZAC 41.19 ETC 139.99 CLP .76

PLANETOCENTRIC CONIC

C3 36.955 VHL 6.079 DLA -5.87 RAL 317.98 RAD 6568.4 VEL 12.583 PTH 2.28 VHP 10.578 DPA -33.85 RAP 302.74 ECC 1.6082

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 38 37	2183.34	-18.80	39.51	188.16	111.57	9 15 0	1583.3	-15.70	32.20
90.00	19 8 49	5193.41	26.03	232.79	192.00	78.45	20 35 23	4593.4	24.18	224.61
100.00	9 57 10	1929.92	-20.03	20.35	187.64	112.67	10 29 20	1329.9	-16.78	13.06
100.00	20 32 57	4922.07	27.33	212.53	191.69	77.39	21 54 59	4322.1	25.32	204.30
110.00	10 59 3	1736.20	-23.30	4.06	186.05	115.75	11 27 59	1136.2	-19.65	356.83
110.00	21 47 34	4688.55	30.81	193.79	190.69	74.41	23 5 42	4088.6	28.37	185.45

DIFFERENTIAL CORRECTIONS

TDE -.6282 TRA-1.9440 TC3 -.1392 BAU .1042
RDE -.2696 RRA .3919 RC3 -.1585 FAU .02079
FDE .7731 FRA 1.5509 FC3 -.4869 BSP 6261
BDE .6836 BRA 1.9831 BC3 .2109 FSP -410

MID-COURSE EXECUTION ACCURACY

SGT 1942.1 SGR 489.5 SG3 150.7
RRT -.5270 RRF .5560 RTF -.8970
SGB 2002.9 R23 -.0718 R13 .8995
SG1 1960.0 SG2 412.2 THA 172.08

ORBIT DETERMINATION ACCURACY

ST 809.9 SR 277.5 SS 778.6
CRT .3956 CRS .5751 CST .9783
LSA 1125.8 MSA 267.3 SSA 16.6
EL1 818.1 EL2 252.3 ALF 8.54

LAUNCH DATE OCT 1 1965 FLIGHT TIME 114.00 ARRIVAL DATE JAN 23 1966

HELIOCENTRIC CONIC DISTANCE 276.385

RL 149.76 LAL .00 LOL 7.61 VL 25.654 GAL 7.36 AZL 87.43 HCA 112.87 SMA 119.11 ECC .28557 INC 2.5665 V1 29.752
RP 107.49 LAP 2.36 LOP 120.50 VP 36.813 GAP -15.64 AZP 91.00 TAL 160.70 TAP 273.57 RCA 85.10 APO 153.13 V2 35.255
RC 40.351 GL 11.21 GP -12.12 ZAL 49.81 ZAP 12.15 ETS 83.86 ZAE 157.49 ETE 246.63 ZAC 43.08 ETC 140.75 CLP -.76

PLANETOCENTRIC CONIC

C3 34.369 VHL 5.863 DLA -4.53 RAL 317.72 RAD 6568.4 VEL 12.480 PTH 2.26 VHP 10.110 DPA -34.41 RAP 304.95 ECC 1.5656

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 27 24	2207.19	-19.39	41.01	186.96	111.05	9 4 12	1607.2	-16.35	33.65
90.00	19 17 57	5132.92	25.14	228.59	189.83	76.52	20 43 30	4532.9	23.04	220.55
100.00	9 46 37	1951.66	-20.59	21.72	186.45	112.16	10 19 9	1351.7	-17.40	14.37
100.00	20 41 25	4863.68	26.39	208.44	189.49	75.43	22 2 29	4263.7	24.13	200.37
110.00	10 49 59	1753.29	-23.80	5.14	184.92	115.29	11 19 12	1153.3	-20.20	357.85
110.00	21 54 33	4634.82	29.77	189.96	188.38	72.36	23 11 48	4034.8	27.07	181.81

DIFFERENTIAL CORRECTIONS

TDE -.6359 TRA-1.9485 TC3 -.1204 BAU .1001
RDE -.2293 RRA .3997 RC3 -.1816 FAU .02177
FDE .8334 FRA 1.6237 FC3 -.5483 BSP 6507
BDE .6760 BRA 1.9890 BC3 .2179 FSP -450

MID-COURSE EXECUTION ACCURACY

SGT 2013.7 SGR 499.1 SG3 164.2
RRT -.5763 RRF .6096 RTF -.9033
SGB 2074.7 R23 -.0822 R13 .9061
SG1 2035.0 SG2 403.6 THA 171.54

ORBIT DETERMINATION ACCURACY

ST 845.4 SR 253.2 SS 824.9
CRT .3361 CRS .5282 CST .9767
LSA 1179.6 MSA 260.0 SSA 16.6
EL1 850.0 EL2 237.1 ALF 6.24

LAUNCH DATE OCT 1 1965 FLIGHT TIME 116.00 ARRIVAL DATE JAN 25 1966

HELIOCENTRIC CONIC DISTANCE 283.192

RL 149.76 LAL .00 LOL 7.61 VL 25.815 GAL 7.00 AZL 87.22 HCA 116.11 SMA 120.01 ECC .27464 INC 2.7830 V1 29.752
RP 107.48 LAP 2.50 LOP 123.75 VP 36.928 GAP -14.80 AZP 91.23 TAL 160.65 TAP 276.76 RCA 87.05 APO 152.97 V2 35.257
RC 40.219 GL 12.69 GP -13.13 ZAL 49.97 ZAP 13.32 ETS 77.48 ZAE 157.03 ETE 254.82 ZAC 45.01 ETC 141.36 CLP -2.30

PLANETOCENTRIC CONIC

C3 32.087 VHL 5.665 DLA -3.09 RAL 317.37 RAD 6568.3 VEL 12.388 PTH 2.24 VHP 9.662 DPA -35.06 RAP 307.17 ECC 1.5281

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 15 12	2234.93	-20.06	42.77	185.77	110.42	8 52 27	1634.9	-17.10	35.35
90.00	19 27 23	5070.53	24.08	224.32	187.67	74.64	20 51 54	4470.5	21.74	216.43
100.00	9 35 6	1977.18	-21.24	23.34	185.29	111.55	10 8 3	1377.2	-18.12	15.93
100.00	20 50 10	4803.51	25.30	204.30	187.29	73.52	22 10 14	4203.5	22.80	196.40
110.00	10 40 2	1773.89	-24.40	6.44	183.82	114.72	11 9 36	1173.9	-20.86	359.09
110.00	22 1 43	4579.56	28.57	186.11	186.10	70.37	23 18 3	3979.6	25.62	178.17

DIFFERENTIAL CORRECTIONS

TDE -.6454 TRA-1.9450 TC3 -.0956 BAU .0980
RDE -.1875 RRA .4106 RC3 -.2074 FAU .02283
FDE .9013 FRA 1.7016 FC3 -.6159 BSP 6740
BDE .6721 BRA 1.9879 BC3 .2283 FSP -494

MID-COURSE EXECUTION ACCURACY

SGT 2078.4 SGR 514.0 SG3 178.9
RRT -.6273 RRF .6650 RTF -.9097
SGB 2141.0 R23 -.0936 R13 .9129
SG1 2104.2 SG2 395.3 THA 170.86

ORBIT DETERMINATION ACCURACY

ST 880.7 SR 227.2 SS 875.2
CRT .2505 CRS .4547 CST .9756
LSA 1236.7 MSA 251.8 SSA 16.5
EL1 882.6 EL2 219.4 ALF 3.94

LAUNCH DATE OCT 1 1965 FLIGHT TIME 118.00 ARRIVAL DATE JAN 27 1966

HELIOCENTRIC CONIC DISTANCE 289.999

RL	149.76	LAL	.00	LOL	7.61	VL	25.965	GAL	6.66	AZL	86.99	HCA	119.35	SMA	120.86	ECC	.26439	INC	3.0118	V1	29.752
RP	107.48	LAP	2.62	LOP	126.99	VP	37.034	GAP	-13.98	AZP	91.48	TAL	160.64	TAP	279.99	RCA	88.90	APO	152.81	V2	35.259
RC	40.263	GL	14.30	GP	-14.26	ZAL	50.25	ZAP	14.77	ETS	72.17	ZAE	156.06	ETE	262.55	ZAC	46.99	ETC	141.85	CLP	-3.88

PLANETOCENTRIC CONIC

C3	30.090	VHL	5.485	DLA	-1.53	RAL	316.93	RAD	6568.2	VEL	12.307	PTH	2.22	VHP	9.235	DPA	-35.83	RAP	309.41	ECC	1.4952

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 1 53	2267.09	-20.81	44.83	184.63	109.65	8 39 40	1667.1	-17.94	37.33
90.00	19 37 13	5006.09	22.85	220.00	185.54	72.81	21 0 39	4406.1	20.28	212.27
100.00	9 22 31	2007.00	-21.97	25.25	184.17	110.80	9 55 58	1407.0	-18.94	17.76
100.00	20 59 16	4741.41	24.03	200.12	185.13	71.67	22 18 17	4141.4	21.30	192.39
110.00	10 29 8	1798.49	-25.09	8.02	182.77	114.02	10 59 6	1198.5	-21.63	.58
110.00	22 9 9	4522.69	27.20	182.24	183.86	68.45	23 24 31	3922.7	24.03	174.51

DIFFERENTIAL CORRECTIONS

TDE	-.6568	TRA	-1.9401	TC3	-.0670	BAU	.0987
RDE	-.1436	RRA	.4250	RC3	-.2360	FAU	.02395
FDE	.9783	FRA	1.7847	FC3	-.6891	BSP	6977
BDE	.6723	BRA	1.9862	BC3	.2453	FSP	-543

MID-COURSE EXECUTION ACCURACY

SGT	2141.4	SGR	535.5	SG3	195.0				
RRT	-.6788	RRF	.7205	RTF	-.9158				
SGB	2207.3	R23	-.1059	R13	.9195				
SG1	2173.1	SG2	387.5	THA	170.05				

ORBIT DETERMINATION ACCURACY

ST	916.8	SR	200.7	SS	929.7				
CRT	.1188	CRS	.3357	CST	.9747				
LSA	1298.3	MSA	243.7	SSA	16.3				
EL1	917.1	EL2	199.3	ALF	1.56				

LAUNCH DATE OCT 1 1965 FLIGHT TIME 120.00 ARRIVAL DATE JAN 29 1966

HELIOCENTRIC CONIC DISTANCE 296.802

RL	149.76	LAL	.00	LOL	7.61	VL	26.104	GAL	6.34	AZL	86.74	HCA	122.59	SMA	121.65	ECC	.25480	INC	3.2558	V1	29.752
RP	107.48	LAP	2.74	LOP	130.24	VP	37.132	GAP	-13.19	AZP	91.76	TAL	160.67	TAP	283.26	RCA	90.66	APO	152.65	V2	35.259
RC	40.482	GL	16.06	GP	-15.56	ZAL	50.64	ZAP	16.48	ETS	67.88	ZAE	154.62	ETE	269.48	ZAC	49.02	ETC	142.20	CLP	-5.50

PLANETOCENTRIC CONIC

C3	28.368	VHL	5.326	DLA	.14	RAL	316.40	RAD	6568.1	VEL	12.237	PTH	2.20	VHP	8.831	DPA	-36.72	RAP	311.68	ECC	1.4669

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 47 21	2304.29	-21.64	47.25	183.55	108.72	8 25 46	1704.3	-18.88	39.66
90.00	19 47 31	4939.39	21.44	215.62	183.47	71.05	21 9 51	4339.4	18.66	208.05
100.00	9 8 46	2041.69	-22.79	27.50	183.12	109.88	9 42 47	1441.7	-19.87	19.92
100.00	21 8 48	4677.22	22.59	195.90	183.03	69.89	22 26 45	4077.2	19.65	188.34
110.00	10 17 10	1827.60	-25.88	9.91	181.78	113.15	10 47 37	1227.6	-22.52	2.37
110.00	22 16 53	4464.08	25.68	178.37	181.68	66.62	23 31 17	3864.1	22.29	170.85

DIFFERENTIAL CORRECTIONS

TDE	-.6715	TRA	-1.9344	TC3	-.0356	BAU	.1024
RDE	-.0965	RRA	.4439	RC3	-.2676	FAU	.02514
FDE	1.0660	FRA	1.8732	FC3	-.7672	BSP	7204
BDE	.6783	BRA	1.9847	BC3	.2699	FSP	-595

MID-COURSE EXECUTION ACCURACY

SGT	2203.1	SGR	565.7	SG3	212.4				
RRT	-.7285	RRF	.7738	RTF	-.9215				
SGB	2274.5	R23	-.1194	R13	.9259				
SG1	2242.5	SG2	380.7	THA	169.09				

ORBIT DETERMINATION ACCURACY

ST	954.7	SR	177.1	SS	989.3				
CRT	-.0856	CRS	.1402	CST	.9740				
LSA	1365.9	MSA	235.8	SSA	16.0				
EL1	954.8	EL2	176.4	ALF	179.06				

LAUNCH DATE OCT 1 1965 FLIGHT TIME 122.00 ARRIVAL DATE JAN 31 1966

HELIOCENTRIC CONIC DISTANCE 303.600

RL	149.76	LAL	.00	LOL	7.61	VL	26.232	GAL	6.03	AZL	86.48	HCA	125.83	SMA	122.41	ECC	.24585	INC	3.5181	V1	29.752
RP	107.48	LAP	2.85	LOP	133.49	VP	37.221	GAP	-12.42	AZP	92.06	TAL	160.73	TAP	286.56	RCA	92.31	APO	152.50	V2	35.259
RC	40.875	GL	17.97	GP	-17.03	ZAL	51.17	ZAP	18.44	ETS	64.46	ZAE	152.75	ETE	275.40	ZAC	51.12	ETC	142.43	CLP	-7.16

PLANETOCENTRIC CONIC

C3	26.911	VHL	5.188	DLA	1.95	RAL	315.78	RAD	6568.1	VEL	12.177	PTH	2.19	VHP	8.449	DPA	-37.78	RAP	313.99	ECC	1.4429

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 31 27	2347.24	-22.55	50.06	182.57	107.59	8 10 34	1747.2	-19.93	42.37
90.00	19 58 27	4870.18	19.85	211.17	181.47	69.38	21 19 37	4270.2	16.86	203.76
100.00	8 53 42	2081.93	-23.70	30.14	182.16	108.77	9 28 24	1481.9	-20.92	22.45
100.00	21 18 53	4610.72	20.97	191.62	181.00	68.20	22 35 44	4010.7	17.83	184.24
110.00	10 4 2	1861.80	-26.78	12.17	180.89	112.09	10 35 4	1261.8	-23.54	4.50
110.00	22 25 2	4403.62	23.99	174.49	179.59	64.88	23 38 26	3803.6	20.40	167.18

DIFFERENTIAL CORRECTIONS

TDE	-.6865	TRA	-1.9252	TC3	.0021	BAU	.1088
RDE	-.0453	RRA	.4677	RC3	-.3024	FAU	.02642
FDE	1.1646	FRA	1.9654	FC3	-.8501	BSP	7502
BDE	.6880	BRA	1.9812	BC3	.3024	FSP	-655

MID-COURSE EXECUTION ACCURACY

SGT	2258.7	SGR	606.7	SG3	231.0				
RRT	-.7753	RRF	.8229	RTF	-.9270				
SGB	2338.7	R23	-.1327	R13	.9321				
SG1	2308.5	SG2	374.9	THA	167.91				

ORBIT DETERMINATION ACCURACY

ST	991.1	SR	163.2	SS	1052.7				
CRT	-.3775	CRS	-.1571	CST	.9733				
LSA	1436.9	MSA	228.7	SSA	15.6				
EL1	993.1	EL2	150.8	ALF	176.36				

LAUNCH DATE OCT 1 1965 FLIGHT TIME 124.00 ARRIVAL DATE FEB 2 1966

HELIOCENTRIC CONIC DISTANCE 310.389

RL	149.76	LAL	.00	LOL	7.61	VL	26.350	GAL	5.74	AZL	86.20	HCA	129.07	SMA	123.11	ECC	.23752	INC	3.8027	V1	29.752
RP	107.48	LAP	2.95	LOP	136.75	VP	37.304	GAP	-11.68	AZP	92.40	TAL	160.82	TAP	289.89	RCA	93.87	APO	152.35	V2	35.258
RC	41.437	GL	20.05	GP	-18.72	ZAL	51.83	ZAP	20.65	ETS	61.80	ZAE	150.54	ETE	280.28	ZAC	53.29	ETC	142.54	CLP	-8.87

PLANETOCENTRIC CONIC

C3	25.716	VHL	5.071	DLA	3.91	RAL	315.06	RAD	6568.0	VEL	12.128	PTH	2.17	VHP	8.092	DPA	-39.02	RAP	316.36	ECC	1.4232

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 14 1	2396.76	-23.53	53.36	181.70	106.22	7 53 58	1796.8	-21.08	45.55
90.00	20 10 8	4798.16	18.06	206.64	179.58	67.81	21 30 7	4198.2	14.89	199.40
100.00	8 37 11	2128.49	-24.68	33.25	181.32	107.42	9 12 40	1528.5	-22.07	25.43
100.00	21 29 39	4541.66	19.17	187.29	179.08	66.61	22 45 21	3941.7	15.84	180.08
110.00	9 49 38	1901.76	-27.77	14.85	180.12	110.78	10 21 19	1301.8	-24.69	7.03
110.00	22 33 42	4341.15	22.13	170.59	177.60	63.25	23 46 3	3741.2	18.36	163.49

DIFFERENTIAL CORRECTIONS

TDE	-.7089	TRA	-1.9182	TC3	.0366	BAU	.1175
RDE	.0121	RRA	.4981	RC3	-.3397	FAU	.02765
FDE	1.2789	FRA	2.0632	FC3	-.9307	BSP	7721
BDE	.7090	BRA	1.9818	BC3	.3416	FSP	-716

MID-COURSE EXECUTION ACCURACY

SGT	2315.6	SGR	661.1	SG3	251.0				
RRT	-.8159	RRF	.8659	RTF	-.9319				
SGB	2408.1	R23	-.1476	R13	.9380				
SG1	2379.2	SG2	372.0	THA	166.55				

ORBIT DETERMINATION ACCURACY

ST	1032.6	SR	170.1	SS	1123.1				
CRT	-.6901	CRS	-.5073	CST	.9732				
LSA	1518.9	MSA	222.1	SSA	15.0				
EL1	1039.4	EL2	122.3	ALF	173.42				

LAUNCH DATE OCT 1 1965 FLIGHT TIME 126.00 ARRIVAL DATE FEB 4 1966

HELIOCENTRIC CONIC DISTANCE 317.167

RL	149.76	LAL	.00	LOL	7.61	VL	26.459	GAL	5.47	AZL	85.89	HCA	132.31	SMA	123.77	ECC	.22978	INC	4.1147	V1	29.752
RP	107.49	LAP	3.04	LOP	140.00	VP	37.379	GAP	-10.95	AZP	92.77	TAL	160.95	TAP	293.26	RCA	95.33	APO	152.21	V2	35.256
RC	42.162	GL	22.31	GP	-20.66	ZAL	52.65	ZAP	23.13	ETS	59.77	ZAE	148.02	ETE	284.14	ZAC	55.56	ETC	142.53	CLP	-10.63

PLANETOCENTRIC CONIC

C3	24.787	VHL	4.979	DLA	6.01	RAL	314.24	RAD	6568.0	VEL	12.090	PTH	2.16	VHP	7.764	DPA	-40.49	RAP	318.82	ECC	1.4079

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 54 48	2453.83	-24.56	57.23	180.98	104.55	7 35 42	1853.8	-22.32	49.27
90.00	20 22 48	4722.94	16.06	202.02	177.82	66.36	21 41 31	4122.9	12.73	194.93
100.00	8 19 0	2182.27	-25.73	36.91	180.64	105.77	8 55 22	1582.3	-23.32	28.94
100.00	21 41 17	4469.74	17.16	182.89	177.30	65.14	22 55 47	3869.7	13.67	175.84
110.00	9 33 46	1948.26	-28.85	18.03	179.53	109.18	10 6 15	1348.3	-25.96	10.04
110.00	22 43 0	4276.51	20.09	166.68	175.75	61.75	23 54 17	3676.5	16.16	159.76

DIFFERENTIAL CORRECTIONS

TDE	-.7358	TRA	-1.9099	TC3	.0725	BAU	.1280
RDE	.0773	RRA	.5360	RC3	-.3795	FAU	.02886
FDE	1.4088	FRA	2.1633	FC3	-1.0080	BSP	7952
BDE	.7399	BRA	1.9837	BC3	.3864	FSP	-780

MID-COURSE EXECUTION ACCURACY

SGT	2367.9	SGR	731.7	SG3	271.9		
RRT	-.8504	RRF	.9017	RTF	-.9365		
SGB	2478.4	R23	-.1617	R13	.9439		
SG1	2450.3	SG2	372.1	THA	164.92		

ORBIT DETERMINATION ACCURACY

ST	1075.5	SR	206.5	SS	1198.7		
CRT	-.8946	CRS	-.7703	CST	.9734		
LSA	1609.1	MSA	216.5	SSA	14.3		
EL1	1091.4	EL2	91.0	ALF	170.18		

LAUNCH DATE OCT 1 1965 FLIGHT TIME 128.00 ARRIVAL DATE FEB 6 1966

HELIOCENTRIC CONIC DISTANCE 323.933

RL	149.76	LAL	.00	LOL	7.61	VL	26.559	GAL	5.22	AZL	85.54	HCA	135.55	SMA	124.39	ECC	.22261	INC	4.4606	V1	29.752
RP	107.49	LAP	3.12	LOP	143.25	VP	37.448	GAP	-10.25	AZP	93.19	TAL	161.10	TAP	296.64	RCA	96.70	APO	152.08	V2	35.254
RC	43.042	GL	24.75	GP	-22.89	ZAL	53.64	ZAP	25.89	ETS	58.26	ZAE	145.23	ETE	287.09	ZAC	57.94	ETC	142.41	CLP	-12.44

PLANETOCENTRIC CONIC

C3	24.136	VHL	4.913	DLA	8.29	RAL	313.31	RAD	6568.0	VEL	12.063	PTH	2.16	VHP	7.466	DPA	-42.22	RAP	321.41	ECC	1.3972

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 33 31	2519.69	-25.61	61.76	180.46	102.51	7 15 31	1919.7	-23.63	53.65
90.00	20 36 41	4644.00	13.85	197.28	176.23	65.05	21 54 5	4044.0	10.37	190.33
100.00	7 58 53	2244.40	-26.81	41.21	180.15	103.75	8 36 17	1644.4	-24.65	33.07
100.00	21 54 1	4394.53	14.96	178.39	175.68	63.81	23 7 16	3794.5	11.32	171.50
110.00	9 16 16	2002.20	-30.00	21.81	179.15	107.21	9 49 39	1402.2	-27.35	13.62
110.00	22 53 7	4209.49	17.88	162.74	174.06	60.37	24 3 16	3609.5	13.81	156.00

DIFFERENTIAL CORRECTIONS

TDE	-.7694	TRA	-1.9016	TC3	.1061	BAU	.1401
RDE	.1535	RRA	.5829	RC3	-.4210	FAU	.02995
FDE	1.5567	FRA	2.2632	FC3	-1.0744	BSP	8188
BDE	.7846	BRA	1.9889	BC3	.4741	FSP	-847

MID-COURSE EXECUTION ACCURACY

SGT	2416.4	SGR	821.6	SG3	293.3		
RRT	-.8781	RRF	.9300	RTF	-.9407		
SGB	2552.2	R23	-.1741	R13	.9496		
SG1	2524.3	SG2	376.3	THA	162.99		

ORBIT DETERMINATION ACCURACY

ST	1121.3	SR	273.3	SS	1280.0		
CRT	-.9766	CRS	-.9042	CST	.9741		
LSA	1710.3	MSA	212.1	SSA	13.4		
EL1	1152.7	EL2	57.2	ALF	166.58		

LAUNCH DATE OCT 1 1965 FLIGHT TIME 130.00 ARRIVAL DATE FEB 8 1966

HELIOCENTRIC CONIC DISTANCE 330.684

RL	149.76	LAL	.00	LOL	7.61	VL	26.651	GAL	4.98	AZL	85.15	HCA	138.78	SMA	124.96	ECC	.21593	INC	4.8487	V1	29.752
RP	107.50	LAP	3.19	LOP	146.50	VP	37.510	GAP	-9.58	AZP	93.65	TAL	161.27	TAP	300.05	RCA	97.97	APO	151.95	V2	35.250
RC	44.068	GL	27.40	GP	-25.47	ZAL	54.79	ZAP	28.97	ETS	57.18	ZAE	142.18	ETE	289.24	ZAC	60.46	ETC	142.19	CLP	-14.30

PLANETOCENTRIC CONIC

C3	23.786	VHL	4.877	DLA	10.74	RAL	312.27	RAD	6568.0	VEL	12.048	PTH	2.15	VHP	7.205	DPA	-44.26	RAP	324.18	ECC	1.3915

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 9 45	2595.92	-26.63	67.12	180.17	100.01	6 53 1	1995.9	-24.97	58.84
90.00	20 52 10	4560.61	11.40	192.38	174.86	63.90	22 8 10	3960.6	7.80	185.55
100.00	7 36 28	2316.29	-27.87	46.29	179.91	101.28	8 15 4	1716.3	-26.03	37.97
100.00	22 8 9	4315.48	12.53	173.78	174.28	62.64	23 20 4	3715.5	8.77	167.01
110.00	8 56 52	2064.69	-31.17	26.30	179.03	104.79	9 31 16	1464.7	-28.83	17.88
110.00	23 4 14	4139.84	15.49	158.75	172.57	59.14	24 13 14	3539.8	11.29	152.17

DIFFERENTIAL CORRECTIONS

TDE	-.8104	TRA	-1.8932	TC3	.1358	BAU	.1533
RDE	.2444	RRA	.6405	RC3	-.4626	FAU	.03084
FDE	1.7227	FRA	2.3584	FC3	-1.1224	BSP	8427
BDE	.8464	BRA	1.9986	BC3	.4821	FSP	-913

MID-COURSE EXECUTION ACCURACY

SGT	2459.4	SGR	934.2	SG3	314.5		
RRT	-.8996	RRF	.9514	RTF	-.9446		
SGB	2630.8	R23	-.1835	R13	.9554		
SG1	2602.5	SG2	385.5	THA	160.69		

ORBIT DETERMINATION ACCURACY

ST	1169.5	SR	368.0	SS	1365.7		
CRT	-.9979	CRS	-.9611	CST	.9750		
LSA	1823.3	MSA	209.1	SSA	12.4		
EL1	1225.8	EL2	22.7	ALF	162.56		

LAUNCH DATE OCT 1 1965 FLIGHT TIME 132.00 ARRIVAL DATE FEB 10 1966

HELIOCENTRIC CONIC DISTANCE 337.418

RL	149.76	LAL	.00	LOL	7.61	VL	26.735	GAL	4.76	AZL	84.71	HCA	142.02	SMA	125.49	ECC	.20990	INC	5.2903	V1	29.752
RP	107.51	LAP	3.25	LOP	149.75	VP	37.566	GAP	-8.92	AZP	94.17	TAL	161.45	TAP	303.47	RCA	99.15	APO	151.83	V2	35.247
RC	45.230	GL	30.25	GP	-28.44	ZAL	56.14	ZAP	32.40	ETS	56.44	ZAE	138.87	ETE	290.68	ZAC	63.16	ETC	141.88	CLP	-16.22

PLANETOCENTRIC CONIC

C3	23.778	VHL	4.876	DLA	13.37	RAL	311.11	RAD	6568.0	VEL	12.048	PTH	2.15	VHP	6.988	DPA	-46.64	RAP	327.23	ECC	1.3913

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 42 54	2684.71	-27.52	73.46	180.16	96.95	6 27 39	2084.7	-26.27	65.01
90.00	21 9 45	4471.66	8.69	187.25	173.77	62.94	22 24 17	3871.7	4.99	180.53
100.00	7 11 14	2399.84	-28.83	52.31	179.96	98.25	7 51 14	1799.8	-27.39	43.80
100.00	22 24 6	4231.76	9.86	168.99	173.14	61.64	23 34 38	3631.8	6.00	162.34
110.00	8 35 11	2137.15	-32.31	31.65	179.24	101.82	9 10 48	1537.2	-30.34	22.98
110.00	23 16 39	4067.22	12.92	154.70	171.33	58.07	24 24 26	3467.2	8.61	148.26

DIFFERENTIAL CORRECTIONS

TDE	-.8581	TRA	-1.8826	TC3	.1641	BAU	.1682
RDE	.3547	RRA	.7103	RC3	-.5031	FAU	.03146
FDE	1.9043	FRA	2.4401	FC3	-1.1455	BSP	8743
BDE	.9285	BRA	2.0121	BC3	.5292	FSP	-979

MID-COURSE EXECUTION ACCURACY

SGT	2492.3	SGR	1072.6	SG3	333.9		
RRT	-.9162	RRF	.9670	RTF	-.9483		
SGB	2713.3	R23	-.1876	R13	.9613		
SG1	2683.8	SG2	399.0	THA	157.97		

ORBIT DETERMINATION ACCURACY

ST	1217.3	SR	490.1	SS	1452.7		
CRT	-.9988	CRS	-.9843	CST	.9762		
LSA	1946.5	MSA	207.7	SSA	11.2		
EL1	1312.1	EL2	22.3	ALF	158.09		

LAUNCH DATE OCT 1 1965 FLIGHT TIME 134.00 ARRIVAL DATE FEB 12 1966

HELIOCENTRIC CONIC DISTANCE 344.135

RL 149.76 LAL .00 LOL 7.61 VL 26.811 GAL 4.56 AZL 84.20 HCA 145.25 SMA 125.98 ECC .20431 INC 5.8006 V1 29.752
RP 107.53 LAP 3.30 LOP 153.00 VP 37.616 GAP -8.28 AZP 94.77 TAL 161.65 TAP 306.90 RCA 100.24 APO 151.72 V2 35.242
RC 46.516 GL 33.32 GP -31.88 ZAL 57.69 ZAP 36.22 ETS 55.97 ZAE 135.25 ETE 291.55 ZAC 66.09 ETC 141.52 CLP -18.18

PLANETOCENTRIC CONIC

C3 24.179 VHL 4.917 DLA 16.19 RAL 309.82 RAD 6568.0 VEL 12.065 PTH 2.16 VHP 6.824 DPA -49.42 RAP 330.68 ECC 1.3979

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 12 3	2789.24	-28.15	81.04	180.44	93.20	5 58 32	2189.2	-27.41	72.45
90.00	21 30 16	4375.34	5.67	181.79	173.04	62.21	22 43 12	3775.3	1.90	175.13
100.00	6 42 27	2497.73	-29.58	59.49	180.33	94.54	7 24 4	1897.7	-28.63	50.81
100.00	22 42 34	4142.08	6.93	163.96	172.36	60.85	23 51 36	3542.1	2.99	157.38
110.00	8 10 45	2221.43	-33.31	38.02	179.84	98.17	8 47 46	1621.4	-31.82	29.10
110.00	23 30 45	3991.14	10.14	150.56	170.41	57.18	24 37 16	3391.1	5.75	144.22

DIFFERENTIAL CORRECTIONS
TDE -.9201 TRA-1.8757 TC3 .1800 BAU .1833
RDE .4926 RRA .7952 RC3 -.5376 FAU .03147
FDE 2.1019 FRA 2.5029 FC3-1.1269 BSP .9019
BDE 1.0436 BRA 2.0373 BC3 .5670 FSP -1033

MID-COURSE EXECUTION ACCURACY
SGT 2522.0 SGR 1240.9 SG3 350.4
RRT -.9282 RRF .9779 RTF -.9516
SGB 2810.7 R23 -.1865 R13 .9672
SG1 2779.3 SG2 419.0 THA 154.84

ORBIT DETERMINATION ACCURACY
ST 1271.0 SR 643.0 SS 1540.9
CRT -.9948 CRS -.9938 CST .9778
LSA 2088.1 MSA 207.1 SSA 10.0
ELI 1423.2 EL2 58.5 ALF 153.24

LAUNCH DATE OCT 1 1965 FLIGHT TIME 136.00 ARRIVAL DATE FEB 14 1966

HELIOCENTRIC CONIC DISTANCE 350.831

RL 149.76 LAL .00 LOL 7.61 VL 26.881 GAL 4.37 AZL 83.60 HCA 148.48 SMA 126.43 ECC .19921 INC 6.4011 V1 29.752
RP 107.55 LAP 3.34 LOP 156.25 VP 37.661 GAP -7.66 AZP 95.46 TAL 161.86 TAP 310.34 RCA 101.24 APO 151.62 V2 35.236
RC 47.916 GL 36.62 GP -35.84 ZAL 59.45 ZAP 40.45 ETS 55.72 ZAE 131.27 ETE 291.97 ZAC 69.28 ETC 141.13 CLP -20.16

PLANETOCENTRIC CONIC

C3 25.099 VHL 5.010 DLA 19.21 RAL 308.37 RAD 6568.0 VEL 12.103 PTH 2.17 VHP 6.730 DPA -52.61 RAP 334.77 ECC 1.4131

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 35 37	2914.70	-28.29	90.21	181.00	88.61	5 24 12	2314.7	-28.18	81.55
90.00	21 55 9	4268.24	2.24	175.79	172.83	61.76	23 6 17	3668.2	-1.55	169.16
100.00	6 8 51	2614.06	-29.89	68.12	181.02	90.01	6 52 25	2014.1	-29.57	59.33
100.00	23 4 36	4044.11	3.65	158.53	172.05	60.31	24 12 0	3444.1	-.33	152.01
110.00	7 42 49	2320.10	-34.00	45.63	180.87	93.72	8 21 29	1720.1	-33.12	36.51
110.00	23 47 8	3910.83	7.15	146.26	169.88	56.48	24 52 19	3310.8	2.69	140.01

DIFFERENTIAL CORRECTIONS
TDE -.9947 TRA-1.8686 TC3 .1893 BAU .1993
RDE .6665 RRA .8955 RC3 -.5629 FAU .03080
FDE 2.3034 FRA 2.5296 FC3-1.0624 BSP .9403
BDE 1.1974 BRA 2.0721 BC3 .5939 FSP -1076

MID-COURSE EXECUTION ACCURACY
SGT 2540.0 SGR 1440.7 SG3 361.0
RRT -.9370 RRF .9853 RTF -.9547
SGB 2920.1 R23 -.1790 R13 .9731
SG1 2886.3 SG2 442.9 THA 151.27

ORBIT DETERMINATION ACCURACY
ST 1324.8 SR 829.0 SS 1622.4
CRT -.9908 CRS -.9977 CST .9796
LSA 2243.0 MSA 207.6 SSA 8.7
ELI 1559.9 EL2 95.2 ALF 148.07

LAUNCH DATE OCT 1 1965 FLIGHT TIME 138.00 ARRIVAL DATE FEB 16 1966

HELIOCENTRIC CONIC DISTANCE 357.505

RL 149.76 LAL .00 LOL 7.61 VL 26.945 GAL 4.20 AZL 82.88 HCA 151.70 SMA 126.84 ECC .19456 INC 7.1228 V1 29.752
RP 107.56 LAP 3.37 LOP 159.50 VP 37.701 GAP -7.06 AZP 96.28 TAL 162.07 TAP 313.77 RCA 102.16 APO 151.52 V2 35.230
RC 49.420 GL 40.14 GP -40.37 ZAL 61.43 ZAP 45.11 ETS 55.61 ZAE 126.87 ETE 292.05 ZAC 72.80 ETC 140.81 CLP -22.13

PLANETOCENTRIC CONIC

C3 26.716 VHL 5.169 DLA 22.42 RAL 306.74 RAD 6568.1 VEL 12.169 PTH 2.18 VHP 6.725 DPA -56.20 RAP 339.83 ECC 1.4397

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	3 50 31	3071.15	-27.50	101.58	181.72	82.97	4 41 42	2471.1	-28.19	92.98
90.00	22 27 17	4142.67	-1.81	168.78	173.36	61.74	23 36 20	3542.7	-5.58	162.13
100.00	5 28 14	2756.08	-29.43	78.64	181.96	84.50	6 14 10	2156.1	-29.88	69.86
100.00	23 32 15	3932.97	-.12	152.43	172.41	60.11	24 37 48	3333.0	-4.09	145.90
110.00	7 10 13	2436.98	-34.15	54.75	182.31	88.33	7 50 50	1837.0	-34.00	45.51
110.00	0 10 41	3824.84	3.90	141.73	169.91	56.01	1 14 26	3224.8	-.59	135.52

DIFFERENTIAL CORRECTIONS
TDE-1.0934 TRA-1.8695 TC3 .1813 BAU .2138
RDE .8913 RRA 1.0142 RC3 -.5704 FAU .02898
FDE 2.5006 FRA 2.5106 FC3 -.9389 BSP .9761
BDE 1.4107 BRA 2.1269 BC3 .5985 FSP -1090

MID-COURSE EXECUTION ACCURACY
SGT 2555.4 SGR 1674.2 SG3 363.4
RRT -.9430 RRF .9902 RTF -.9575
SGB 3055.0 R23 -.1657 R13 .9788
SG1 3018.4 SG2 471.6 THA 147.40

ORBIT DETERMINATION ACCURACY
ST 1386.1 SR 1053.4 SS 1694.1
CRT -.9883 CRS -.9992 CST .9817
LSA 2420.2 MSA 208.5 SSA 7.5
ELI 1736.2 EL2 128.5 ALF 142.85

LAUNCH DATE OCT 1 1965 FLIGHT TIME 140.00 ARRIVAL DATE FEB 18 1966

HELIOCENTRIC CONIC DISTANCE 364.154

RL 149.76 LAL .00 LOL 7.61 VL 27.002 GAL 4.05 AZL 81.99 HCA 154.92 SMA 127.22 ECC .19036 INC 8.0127 V1 29.752
RP 107.58 LAP 3.39 LOP 162.75 VP 37.736 GAP -6.48 AZP 97.27 TAL 162.27 TAP 317.19 RCA 103.00 APO 151.44 V2 35.224
RC 51.018 GL 43.88 GP -45.51 ZAL 63.66 ZAP 50.20 ETS 55.63 ZAE 121.99 ETE 291.98 ZAC 76.68 ETC 140.66 CLP -24.02

PLANETOCENTRIC CONIC

C3 29.334 VHL 5.416 DLA 25.81 RAL 304.90 RAD 6568.2 VEL 12.276 PTH 2.21 VHP 6.843 DPA -60.10 RAP 346.45 ECC 1.4828

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	2 47 50	3286.82	-24.78	116.76	182.09	75.84	3 42 37	2686.8	-26.49	108.51
90.00	23 15 15	3973.61	-7.20	159.29	175.18	62.54	24 21 29	3373.6	-10.83	152.48
100.00	4 35 21	2940.19	-27.48	91.96	182.80	77.76	5 24 22	2340.2	-28.89	83.45
100.00	0 14 21	3795.47	-4.77	144.87	173.85	60.46	1 17 37	3195.5	-8.67	138.25
110.00	6 30 59	2578.44	-33.32	65.71	184.01	81.90	7 13 57	1978.4	-34.08	56.55
110.00	0 35 14	3729.98	.27	136.78	170.71	55.82	1 37 24	3130.0	-4.21	130.57

DIFFERENTIAL CORRECTIONS
TDE-1.2149 TRA-1.8722 TC3 .1703 BAU .2283
RDE 1.1818 RRA 1.1474 RC3 -.5566 FAU .02614
FDE 2.6637 FRA 2.4215 FC3 -.7715 BSP 10350
BDE 1.6948 BRA 2.1958 BC3 .5821 FSP -1080

MID-COURSE EXECUTION ACCURACY
SGT 2554.6 SGR 1935.0 SG3 353.5
RRT -.9476 RRF .9933 RTF -.9603
SGB 3204.7 R23 -.1469 R13 .9842
SG1 3165.6 SG2 498.8 THA 143.27

ORBIT DETERMINATION ACCURACY
ST 1444.8 SR 1314.1 SS 1741.0
CRT -.9869 CRS -.9998 CST .9838
LSA 2607.9 MSA 209.6 SSA 6.2
ELI 1946.7 EL2 157.1 ALF 137.75

LAUNCH DATE OCT 1 1965 FLIGHT TIME 142.00 ARRIVAL DATE FEB 20 1966

DISTANCE 370.775

HELIOCENTRIC CONIC

RL 149.76 LAL .00 LOL 7.61 VL 27.054 GAL 3.91 AZL 80.86 HCA 158.13 SMA 127.56 ECC .18658 INC 9.1446 V1 29.752
RP 107.61 LAP 3.39 LOP 165.99 VP 37.766 GAP -5.91 AZP 98.50 TAL 162.46 TAP 320.59 RCA 103.76 APO 151.36 V2 35.216
RC 52.701 GL 47.83 GP -51.26 ZAL 66.13 ZAP 55.66 ETS 55.81 ZAE 116.58 ETE 291.98 ZAC 80.97 ETC 140.89 CLP -25.67

PLANETOCENTRIC CONIC

C3 33.497 VHL 5.788 DLA 29.35 RAL 302.79 RAD 6568.3 VEL 12.445 PTH 2.25 VHP 7.135 DPA -64.08 RAP 355.62 ECC 1.5513

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
81.96	23 45 4	3877.17	-16.93	157.07	180.03	65.67	24 49 41	3277.2	-20.07	149.73
98.04	2 1 12	3449.96	-16.92	125.70	180.02	65.66	2 58 42	2850.0	-20.06	118.36
100.00	3 4 25	3247.49	-21.34	112.68	182.00	68.56	3 58 32	2647.5	-24.06	104.34
100.00	1 28 28	3554.87	-12.61	131.31	177.87	62.67	2 27 48	2954.9	-16.17	124.34
110.00	5 40 49	2757.55	-30.80	79.05	185.53	74.39	6 26 46	2157.6	-32.64	70.31
110.00	1 8 34	3617.57	-4.02	130.91	172.73	56.03	2 8 52	3017.6	-8.45	124.62

DIFFERENTIAL CORRECTIONS

TDE-1.3883 TRA-1.8969 TC3 .1396 BAU .2361
RDE 1.5664 RRA 1.2959 RC3 -.5084 FAU .02169
FDE 2.7772 FRA 2.2629 FC3 -.5605 BSP 10907
BDE 2.0931 BRA 2.2973 BC3 .5272 FSP -1021

MID-COURSE EXECUTION ACCURACY

SGT 2560.5 SGR 2217.5 SG3 330.0
RRT -.9505 RRF .9952 RTF -.9633
SGB 3387.2 R23 -.1244 R13 .9890
SG1 3346.0 SG2 527.0 THA 139.32

ORBIT DETERMINATION ACCURACY

ST 1518.7 SR 1612.4 SS 1760.4
CRT -.9868 CRS-1.0000 CST .9862
LSA 2821.5 MSA 210.4 SSA 5.1
EL1 2207.8 EL2 179.3 ALF 133.26

LAUNCH DATE OCT 1 1965 FLIGHT TIME 144.00 ARRIVAL DATE FEB 22 1966

DISTANCE 377.360

HELIOCENTRIC CONIC

RL 149.76 LAL .00 LOL 7.61 VL 27.100 GAL 3.79 AZL 79.36 HCA 161.33 SMA 127.87 ECC .18320 INC10.6427 V1 29.752
RP 107.63 LAP 3.39 LOP 169.24 VP 37.791 GAP -5.36 AZP 100.09 TAL 162.64 TAP 323.96 RCA 104.44 APO 151.30 V2 35.208
RC 54.462 GL 51.93 GP -57.57 ZAL 68.86 ZAP 61.39 ETS 56.34 ZAE 110.63 ETE 292.44 ZAC 85.69 ETC 141.88 CLP -26.76

PLANETOCENTRIC CONIC

C3 40.237 VHL 6.343 DLA 32.96 RAL 300.33 RAD 6568.5 VEL 12.712 PTH 2.31 VHP 7.683 DPA -67.65 RAP 8.79 ECC 1.6622

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
72.37	22 26 34	4140.53	-17.38	177.11	181.49	61.54	23 35 34	3540.5	-21.05	169.99
107.63	3 0 7	3279.22	-17.37	113.11	181.48	61.53	3 54 46	2679.2	-21.03	106.00
72.37	22 26 34	4140.53	-17.38	177.11	181.49	61.54	23 35 34	3540.5	-21.05	169.99
107.63	3 0 7	3279.22	-17.37	113.11	181.48	61.53	3 54 46	2679.2	-21.03	106.00
110.00	4 23 49	3021.91	-24.56	97.04	185.32	65.44	5 14 11	2421.9	-27.66	89.24
110.00	2 5 58	3445.83	-10.46	121.79	177.28	57.27	3 3 24	2845.8	-14.70	115.25

DIFFERENTIAL CORRECTIONS

TDE-1.6045 TRA-1.9135 TC3 .1417 BAU .2499
RDE 2.0550 RRA 1.4263 RC3 -.4425 FAU .01744
FDE 2.7785 FRA 1.9961 FC3 -.3752 BSP 12648
BDE 2.6072 BRA 2.3866 BC3 .4646 FSP -987

MID-COURSE EXECUTION ACCURACY

SGT 2525.2 SGR 2473.5 SG3 288.4
RRT -.9533 RRF .9962 RTF -.9668
SGB 3534.8 R23 -.0993 R13 .9929
SG1 3493.3 SG2 540.2 THA 135.62

ORBIT DETERMINATION ACCURACY

ST 1575.5 SR 1912.6 SS 1720.1
CRT -.9872 CRS-1.0000 CST .9885
LSA 3009.2 MSA 209.8 SSA 4.0
EL1 2470.4 EL2 194.2 ALF 129.41

LAUNCH DATE OCT 1 1965 FLIGHT TIME 146.00 ARRIVAL DATE FEB 24 1966

DISTANCE 383.916

HELIOCENTRIC CONIC

RL 149.76 LAL .00 LOL 7.61 VL 27.141 GAL 3.69 AZL 77.27 HCA 164.51 SMA 128.15 ECC .18024 INC12.7309 V1 29.752
RP 107.66 LAP 3.38 LOP 172.48 VP 37.813 GAP -4.84 AZP 102.28 TAL 162.77 TAP 327.28 RCA 105.05 APO 151.24 V2 35.200
RC 56.291 GL 56.08 GP -64.35 ZAL 71.83 ZAP 67.21 ETS 57.98 ZAE 104.14 ETE 294.26 ZAC 90.89 ETC 144.53 CLP -26.48

PLANETOCENTRIC CONIC

C3 51.737 VHL 7.193 DLA 36.53 RAL 297.45 RAD 6568.9 VEL 13.157 PTH 2.40 VHP 8.634 DPA -69.87 RAP 27.17 ECC 1.8515

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
65.89	21 37 3	4318.73	-16.78	190.74	183.45	57.06	22 49 2	3718.7	-21.00	183.97
114.11	3 26 36	3227.17	-16.76	108.65	183.44	57.05	4 20 23	2627.2	-20.98	101.88
65.89	21 37 3	4318.73	-16.78	190.74	183.45	57.06	22 49 2	3718.7	-21.00	183.97
114.11	3 26 36	3227.17	-16.76	108.65	183.44	57.05	4 20 23	2627.2	-20.98	101.88
65.89	21 37 3	4318.73	-16.78	190.74	183.45	57.06	22 49 2	3718.7	-21.00	183.97
114.11	3 26 36	3227.17	-16.76	108.65	183.44	57.05	4 20 23	2627.2	-20.98	101.88

DIFFERENTIAL CORRECTIONS

TDE-2.1074 TRA-2.1130 TC3 .0339 BAU .2011
RDE 2.7629 RRA 1.5912 RC3 -.2887 FAU .00828
FDE 2.7707 FRA 1.7592 FC3 -.1386 BSP 11623
BDE 3.4748 BRA 2.6452 BC3 .2907 FSP -742

MID-COURSE EXECUTION ACCURACY

SGT 2684.8 SGR 2739.4 SG3 243.6
RRT -.9543 RRF .9956 RTF -.9731
SGB 3835.7 R23 -.0712 R13 .9960
SG1 3791.7 SG2 579.5 THA 134.40

ORBIT DETERMINATION ACCURACY

ST 1792.4 SR 2251.1 SS 1692.1
CRT -.9893 CRS -.9998 CST .9921
LSA 3331.5 MSA 211.7 SSA 3.1
EL1 2870.2 EL2 205.2 ALF 128.46

LAUNCH DATE OCT 1 1965 FLIGHT TIME 148.00 ARRIVAL DATE FEB 26 1966

DISTANCE 390.408

HELIOCENTRIC CONIC

RL 149.76 LAL .00 LOL 7.61 VL 27.178 GAL 3.61 AZL 74.14 HCA 167.65 SMA 128.39 ECC .17765 INC15.8574 V1 29.752
RP 107.69 LAP 3.35 LOP 175.72 VP 37.831 GAP -4.33 AZP 105.51 TAL 162.86 TAP 330.52 RCA 105.58 APO 151.20 V2 35.191
RC 58.184 GL 60.05 GP -71.42 ZAL 75.05 ZAP 72.88 ETS 63.42 ZAE 97.03 ETE 300.22 ZAC 96.67 ETC 151.67 CLP -22.53

PLANETOCENTRIC CONIC

C3 73.165 VHL 8.554 DLA 39.79 RAL 293.98 RAD 6569.4 VEL 13.947 PTH 2.55 VHP 10.272 DPA -69.53 RAP 49.03 ECC 2.2041

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
60.79	20 57 52	4476.05	-14.66	202.14	185.69	52.58	22 12 29	3876.1	-19.42	195.83
119.21	3 38 7	3237.60	-14.64	107.95	185.68	52.58	4 32 4	2637.6	-19.40	101.64
60.79	20 57 52	4476.05	-14.66	202.14	185.69	52.58	22 12 29	3876.1	-19.42	195.83
119.21	3 38 7	3237.60	-14.64	107.95	185.68	52.58	4 32 4	2637.6	-19.40	101.64
60.79	20 57 52	4476.05	-14.66	202.14	185.69	52.58	22 12 29	3876.1	-19.42	195.83
119.21	3 38 7	3237.60	-14.64	107.95	185.68	52.58	4 32 4	2637.6	-19.40	101.64

DIFFERENTIAL CORRECTIONS

TDE-3.0657 TRA-2.4436 TC3 -.0112 BAU .1414
RDE 3.5304 RRA 1.5732 RC3 -.1442 FAU .00108
FDE 2.6333 FRA 1.4504 FC3 -.0128 BSP 12474
BDE 4.6757 BRA 2.9062 BC3 .1446 FSP -590

MID-COURSE EXECUTION ACCURACY

SGT 2958.9 SGR 2744.8 SG3 187.5
RRT -.9571 RRF .9922 RTF -.9834
SGB 4036.0 R23 -.0414 R13 .9982
SG1 3992.7 SG2 589.6 THA 137.25

ORBIT DETERMINATION ACCURACY

ST 2150.6 SR 2400.4 SS 1601.2
CRT -.9916 CRS -.9992 CST .9960
LSA 3592.7 MSA 208.3 SSA 2.4
EL1 3216.2 EL2 207.3 ALF 131.83

LAUNCH DATE OCT 1 1965 FLIGHT TIME 150.00 ARRIVAL DATE FEB 28 1966

HELIOCENTRIC CONIC DISTANCE 396.811

RL 149.76 LAL .00 LOL 7.61 VL 27.210 GAL 3.55 AZL 68.95 HCA 170.74 SMA 128.61 ECC .17548 INC21.0509 V1 29.752
RP 107.72 LAP 3.31 LOP 178.96 VP 37.845 GAP -3.85 AZP 110.80 TAL 162.88 TAP 333.62 RCA 106.04 APO 151.18 V2 35.181
RC 60.133 GL 63.27 GP -78.07 ZAL 78.47 ZAP 78.14 ETS 86.42 ZAE 89.07 ETE 324.05 ZAC 103.40 ETC 177.16 CLP -6.04

PLANETOCENTRIC CONIC

C3 119.304 VHL 10.923 DLA 42.14 RAL 289.82 RAD 6570.2 VEL 15.513 PTH 2.77 VHP 13.238 DPA -65.77 RAP 68.80 ECC 2.9634

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
57.38	20 26 16	4624.46	-10.68	211.56	187.81	48.99	21 43 20	4024.5	-15.86	205.71
122.62	3 36 32	3302.48	-10.66	110.19	187.79	48.98	4 31 34	2702.5	-15.84	104.35
57.38	20 26 16	4624.46	-10.68	211.56	187.81	48.99	21 43 20	4024.5	-15.86	205.71
122.62	3 36 32	3302.48	-10.66	110.19	187.79	48.98	4 31 34	2702.5	-15.84	104.35
57.38	20 26 16	4624.46	-10.68	211.56	187.81	48.99	21 43 20	4024.5	-15.86	205.71
122.62	3 36 32	3302.48	-10.66	110.19	187.79	48.98	4 31 34	2702.5	-15.84	104.35

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE-6.1457 TRA-3.3139 TC3 -.0885 BAU .1494 SGT 3990.8 SGR 1360.3 SG3 135.0 ST 3299.6 SR 1319.1 SS 1525.9
RDE 2.5072 RRA .4817 RC3 -.0306 FAU-.00703 RRT -.9258 RRF .9426 RTF -.9981 CRT -.9906 CRS -.9936 CST .9997
FDE 2.4971 FRA 1.1924 FC3 .0510 BSP 13052 SGB 4216.2 R23 -.0115 R13 .9993 LSA 3863.6 MSA 168.0 SSA 1.9
BDE 6.6374 BRA 3.3487 BC3 .0937 FSP -433 SG1 4187.6 SG2 490.0 THA 162.23 EL1 3549.6 EL2 167.8 ALF 158.34

LAUNCH DATE OCT 1 1965 FLIGHT TIME 152.00 ARRIVAL DATE MAR 2 1966

HELIOCENTRIC CONIC DISTANCE 403.022

RL 149.76 LAL .00 LOL 7.61 VL 27.238 GAL 3.54 AZL 58.83 HCA 173.68 SMA 128.80 ECC .17381 INC31.1731 V1 29.752
RP 107.75 LAP 3.27 LOP 182.20 VP 37.856 GAP -3.43 AZP 121.02 TAL 162.72 TAP 336.40 RCA 106.41 APO 151.19 V2 35.171
RC 62.133 GL 64.07 GP -79.58 ZAL 81.99 ZAP 82.69 ETS 154.52 ZAE 79.21 ETE 32.94 ZAC 112.33 ETC 248.65 CLP 45.27

PLANETOCENTRIC CONIC

C3 244.858 VHL 15.648 DLA 41.98 RAL 285.04 RAD 6571.4 VEL 19.136 PTH 3.09 VHP 19.265 DPA -57.89 RAP 82.91 ECC 5.0298

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
57.60	20 8 8	4743.15	-5.19	217.06	189.26	48.28	21 27 12	4143.2	-10.48	211.41
122.40	3 16 33	3426.26	-5.18	116.14	189.25	48.28	4 13 39	2826.3	-10.47	110.50
57.60	20 8 8	4743.15	-5.19	217.06	189.26	48.28	21 27 12	4143.2	-10.48	211.41
122.40	3 16 33	3426.26	-5.18	116.14	189.25	48.28	4 13 39	2826.3	-10.47	110.50
57.60	20 8 8	4743.15	-5.19	217.06	189.26	48.28	21 27 12	4143.2	-10.48	211.41
122.40	3 16 33	3426.26	-5.18	116.14	189.25	48.28	4 13 39	2826.3	-10.47	110.50

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE-5.9630 TRA-1.7641 TC3 -.1307 BAU .7061 SGT 2385.3 SGR 3597.4 SG3 94.1 ST 2198.9 SR 3058.0 SS 1568.4
RDE-8.2045 RRA-3.8670 RC3 -.1716 FAU-.01854 RRT .9829 RRF -.9982 RTF -.9902 CRT .9976 CRS .9998 CST .9987
FDE 2.5362 FRA 1.0791 FC3 .0656 BSP 13491 SGB 4316.4 R23 -.0068 R13 -.9994 LSA 4078.2 MSA 123.7 SSA 1.7
BDE10.1425 BRA 4.2504 BC3 .2157 FSP -308 SG1 4300.7 SG2 367.6 THA 56.63 EL1 3764.5 EL2 123.4 ALF 54.30

LAUNCH DATE OCT 1 1965 FLIGHT TIME 154.00 ARRIVAL DATE MAR 4 1966

HELIOCENTRIC CONIC DISTANCE 408.637

RL 149.76 LAL .00 LOL 7.61 VL 27.262 GAL 3.65 AZL 34.12 HCA 176.12 SMA 128.96 ECC .17309 INC55.8786 V1 29.752
RP 107.78 LAP 3.21 LOP 185.44 VP 37.863 GAP -3.17 AZP 145.82 TAL 162.07 TAP 338.20 RCA 106.64 APO 151.29 V2 35.160
RC 64.180 GL 56.95 GP -66.35 ZAL 85.24 ZAP 86.11 ETS 179.19 ZAE 63.73 ETE 56.50 ZAC 127.88 ETC 278.45 CLP 80.26

PLANETOCENTRIC CONIC

C3 722.129 VHL 26.872 DLA 34.11 RAL 280.70 RAD 6572.7 VEL 29.042 PTH 3.43 VHP 33.688 DPA -42.16 RAP 91.72 ECC12.8844

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
70.14	20 54 22	4661.01	-.43	206.64	190.08	55.89	22 12 3	4061.0	-4.90	200.41
109.86	1 55 39	3714.53	-.41	136.04	190.07	55.89	2 57 34	3114.5	-4.89	129.81
70.14	20 54 22	4661.01	-.43	206.64	190.08	55.89	22 12 3	4061.0	-4.90	200.41
109.86	1 55 39	3714.53	-.41	136.04	190.07	55.89	2 57 34	3114.5	-4.89	129.81
110.00	2 13 36	3659.81	-2.41	133.12	191.42	55.89	3 14 36	3059.8	-6.87	126.87
110.00	1 39 31	3763.72	1.56	138.54	188.73	55.85	2 42 15	3163.7	-2.93	132.33

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE-5.5152 TRA .0379 TC3 -.1040 BAU 2.8438 SGT 1302.0 SGR 3934.7 SG3 71.3 ST 1176.0 SR 3264.6 SS 1967.6
RDE-15.1216 RRA-6.6051 RC3 -.2756 FAU-.05120 RRT .8984 RRF -.9997 RTF -.8986 CRT .9873 CRS 1.0000 CST .9870
FDE 3.1303 FRA 1.3842 FC3 .0614 BSP 12825 SGB 4144.5 R23 -.0393 R13 -.9989 LSA 3984.9 MSA 179.2 SSA 1.8
BDE16.0960 BRA 6.6052 BC3 .2946 FSP -231 SG1 4108.2 SG2 547.7 THA 73.14 EL1 3465.5 EL2 175.9 ALF 70.37

LAUNCH DATE OCT 1 1965 FLIGHT TIME 156.00 ARRIVAL DATE MAR 6 1966

HELIOCENTRIC CONIC DISTANCE 419.705

RL 149.76 LAL .00 LOL 7.61 VL 27.283 GAL 2.78 AZL 161.44 HCA 183.31 SMA 129.10 ECC .16701 INC71.4351 V1 29.752
RP 107.81 LAP 3.14 LOP 188.67 VP 37.868 GAP -1.54 AZP 18.59 TAL 165.92 TAP 349.23 RCA 107.54 APO 150.67 V2 35.149
RC 66.268 GL -50.69 GP 56.50 ZAL 86.88 ZAP 88.39 ETS 188.39 ZAE 68.14 ETE 306.09 ZAC 108.75 ETC 85.40 CLP 87.09

PLANETOCENTRIC CONIC

C31114.654 VHL 33.386 DLA -72.92 RAL 297.93 RAD 6573.0 VEL 35.156 PTH 3.52 VHP 43.338 DPA 80.93 RAP 92.44 ECC19.3444

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
19.49	7 12 42	2450.66	-.71	79.91	208.14	162.92	7 53 32	1850.7	6.94	77.96
160.51	17 54 48	680.56	-.70	286.36	208.16	162.92	18 6 9	80.6	6.94	284.42
19.49	7 12 42	2450.66	-.71	79.91	208.14	162.92	7 53 32	1850.7	6.94	77.96
160.51	17 54 48	680.56	-.70	286.36	208.16	162.92	18 6 9	80.6	6.94	284.42
19.49	7 12 42	2450.66	-.71	79.91	208.14	162.92	7 53 32	1850.7	6.94	77.96
160.51	17 54 48	680.56	-.70	286.36	208.16	162.92	18 6 9	80.6	6.94	284.42

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE 8.4459 TRA-1.2235 TC3 -.1460 BAU 4.4464 SGT 1887.5 SGR 3414.3 SG3 69.7 ST 1465.5 SR 1913.1 SS 1824.4
RDE-10.3660 RRA 4.0041 RC3 .2602 FAU-.07668 RRT -.9225 RRF .9983 RTF -.9414 CRT -.9739 CRS -.9991 CST .9828
FDE-2.6824 FRA .9078 FC3 .0596 BSP 12022 SGB 3901.3 R23 -.0355 R13 .9990 LSA 3010.3 MSA 272.3 SSA 2.2
BDE13.3712 BRA 4.1869 BC3 .2984 FSP -220 SG1 3847.4 SG2 646.5 THA 117.88 EL1 2395.2 EL2 265.7 ALF 127.26

LAUNCH DATE OCT 1 1965 FLIGHT TIME 158.00 ARRIVAL DATE MAR 8 1966

HELIOCENTRIC CONIC DISTANCE 424.725

RL 149.76 LAL .00 LOL 7.61 VL 27.300 GAL 3.01 AZL 125.61 HCA 185.27 SMA 129.22 ECC .16722 INC35.6051 V1 29.752
RP 107.85 LAP 3.06 LOP 191.90 VP 37.869 GAP -1.43 AZP 54.51 TAL 164.70 TAP 349.96 RCA 107.61 APO 150.83 V2 35.138
RC 68.394 GL -63.76 GP 77.57 ZAL 83.74 ZAP 87.16 ETS 208.93 ZAE 87.34 ETE 322.03 ZAC 88.19 ETC 102.86 CLP 76.70

PLANETOCENTRIC CONIC

C3 313.140 VHL 17.696 DLA -80.44 RAL 353.24 RAD 6571.8 VEL 20.843 PTH 3.18 VHP 23.305 DPA 77.70 RAP 286.83 ECC 6.1535

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
10.87	10 36 5	2371.45	5.57	83.40	262.29	170.39	11 15 37	1771.4	13.46	82.45
169.13	21 52 41	5860.10	5.58	259.24	262.31	170.39	23 30 21	5260.1	13.46	258.29
10.87	10 36 5	2371.45	5.57	83.40	262.29	170.39	11 15 37	1771.4	13.46	82.45
169.13	21 52 41	5860.10	5.58	259.24	262.31	170.39	23 30 21	5260.1	13.46	258.29
10.87	10 36 5	2371.45	5.57	83.40	262.29	170.39	11 15 37	1771.4	13.46	82.45
169.13	21 52 41	5860.10	5.58	259.24	262.31	170.39	23 30 21	5260.1	13.46	258.29

DIFFERENTIAL CORRECTIONS
TDE -.2589 TRA-1.5911 TC3 -.1794 BAU 1.1194
RDE 2.8740 RRA 1.6094 RC3 .1982 FAU-.02001
FDE .5943 FRA .5126 FC3 .0553 BSP 14245
BDE 2.8856 BRA 2.2631 BC3 .2674 FSP -283

MID-COURSE EXECUTION ACCURACY
SGT 3167.4 SGR 3347.0 SG3 89.5
RRT -.9674 RRF .9952 RTF -.9871
SGB 4608.2 R23 -.0242 R13 .9995
SG1 4570.6 SG2 587.1 THA 133.37

ORBIT DETERMINATION ACCURACY
ST 934.6 SR 1323.8 SS 717.4
CRT -.7714 CRS -.9782 CST .8867
LSA 1696.5 MSA 512.0 SSA 1.1
EL1 1537.4 EL2 512.0 ALF 122.64

LAUNCH DATE OCT 1 1965 FLIGHT TIME 160.00 ARRIVAL DATE MAR 10 1966

HELIOCENTRIC CONIC DISTANCE 430.708

RL 149.76 LAL .00 LOL 7.61 VL 27.314 GAL 3.08 AZL 111.68 HCA 188.08 SMA 129.32 ECC .16679 INC21.6835 V1 29.752
RP 107.89 LAP 2.98 LOP 195.13 VP 37.868 GAP -1.09 AZP 68.51 TAL 164.28 TAP 352.36 RCA 107.75 APO 150.89 V2 35.126
RC 70.553 GL -64.43 GP 86.22 ZAL 79.87 ZAP 86.40 ETS 273.99 ZAE 97.34 ETE 24.73 ZAC 78.11 ETC 163.65 CLP 18.05

PLANETOCENTRIC CONIC

C3 124.803 VHL 11.172 DLA -76.84 RAL 5.50 RAD 6570.3 VEL 15.689 PTH 2.79 VHP 14.899 DPA 66.96 RAP 286.71 ECC 3.0539

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
14.98	11 33 5	2222.19	15.00	79.35	271.90	166.37	12 10 8	1622.2	22.76	77.73
165.02	22 33 29	5722.59	15.00	259.19	271.92	166.37	24 8 51	5122.6	22.77	257.57
14.98	11 33 5	2222.19	15.00	79.35	271.90	166.37	12 10 8	1622.2	22.76	77.73
165.02	22 33 29	5722.59	15.00	259.19	271.92	166.37	24 8 51	5122.6	22.77	257.57
14.98	11 33 5	2222.19	15.00	79.35	271.90	166.37	12 10 8	1622.2	22.76	77.73
165.02	22 33 29	5722.59	15.00	259.19	271.92	166.37	24 8 51	5122.6	22.77	257.57

DIFFERENTIAL CORRECTIONS
TDE-3.6064 TRA-1.8258 TC3 -.1071 BAU .1804
RDE -.1704 RRA -.6988 RC3 .0150 FAU-.00167
FDE 1.1442 FRA .6063 FC3 .0116 BSP 15030
BDE 3.6104 BRA 1.9550 BC3 .1081 FSP -413

MID-COURSE EXECUTION ACCURACY
SGT 4517.4 SGR 1577.6 SG3 128.5
RRT .9308 RRF -.9386 RTF -.9992
SGB 4784.9 R23 .0147 R13 -.9994
SG1 4753.4 SG2 548.2 THA 18.26

ORBIT DETERMINATION ACCURACY
ST 2223.7 SR 480.5 SS 921.4
CRT .6971 CRS .7122 CST .9998
LSA 2430.8 MSA 340.5 SSA 1.7
EL1 2249.4 EL2 340.5 ALF 8.77

LAUNCH DATE OCT 1 1965 FLIGHT TIME 162.00 ARRIVAL DATE MAR 12 1966

HELIOCENTRIC CONIC DISTANCE 436.928

RL 149.76 LAL .00 LOL 7.61 VL 27.325 GAL 3.12 AZL 105.11 HCA 191.11 SMA 129.39 ECC .16635 INC15.1090 V1 29.752
RP 107.92 LAP 2.88 LOP 198.35 VP 37.865 GAP -.69 AZP 75.16 TAL 164.03 TAP 355.15 RCA 107.87 APO 150.92 V2 35.114
RC 72.741 GL -61.00 GP 82.92 ZAL 75.89 ZAP 86.45 ETS 321.05 ZAE 103.88 ETE 69.94 ZAC 71.60 ETC 206.27 CLP -59.87

PLANETOCENTRIC CONIC

C3 66.114 VHL 8.131 DLA -72.71 RAL 359.35 RAD 6569.3 VEL 13.692 PTH 2.50 VHP 10.922 DPA 59.87 RAP 287.29 ECC 2.0881

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
19.73	11 18 11	2073.32	23.71	73.28	261.48	161.06	11 52 45	1473.3	31.25	70.67
160.27	21 59 17	5592.36	23.72	257.89	261.50	161.06	23 32 30	4992.4	31.26	255.27
19.73	11 18 11	2073.32	23.71	73.28	261.48	161.06	11 52 45	1473.3	31.25	70.67
160.27	21 59 17	5592.36	23.72	257.89	261.50	161.06	23 32 30	4992.4	31.26	255.27
19.73	11 18 11	2073.32	23.71	73.28	261.48	161.06	11 52 45	1473.3	31.25	70.67
160.27	21 59 17	5592.36	23.72	257.89	261.50	161.06	23 32 30	4992.4	31.26	255.27

DIFFERENTIAL CORRECTIONS
TDE-1.4611 TRA -.6870 TC3 -.0236 BAU .1837
RDE-1.5507 RRA-1.8174 RC3 .2065 FAU .00961
FDE .9632 FRA .8512 FC3 -.1259 BSP 15297
BDE 2.1305 BRA 1.9429 BC3 .2079 FSP -596

MID-COURSE EXECUTION ACCURACY
SGT 1927.4 SGR 4458.0 SG3 184.8
RRT .9463 RRF -.9969 RTF -.9650
SGB 4856.8 R23 .0172 R13 -.9990
SG1 4822.6 SG2 576.0 THA 67.41

ORBIT DETERMINATION ACCURACY
ST 1139.6 SR 1692.7 SS 858.3
CRT .9106 CRS .9901 CST .9596
LSA 2177.6 MSA 398.4 SSA 2.4
EL1 2001.3 EL2 398.3 ALF 57.01

LAUNCH DATE OCT 1 1965 FLIGHT TIME 164.00 ARRIVAL DATE MAR 14 1966

HELIOCENTRIC CONIC DISTANCE 443.219

RL 149.76 LAL .00 LOL 7.61 VL 27.333 GAL 3.15 AZL 101.36 HCA 194.23 SMA 129.45 ECC .16606 INC11.3580 V1 29.752
RP 107.96 LAP 2.77 LOP 201.57 VP 37.859 GAP -.28 AZP 78.98 TAL 163.82 TAP 358.05 RCA 107.95 APO 150.95 V2 35.101
RC 74.954 GL -56.21 GP 77.80 ZAL 72.00 ZAP 87.32 ETS 338.61 ZAE 108.86 ETE 86.12 ZAC 66.45 ETC 219.49 CLP -77.21

PLANETOCENTRIC CONIC

C3 41.826 VHL 6.467 DLA -68.21 RAL 351.90 RAD 6568.6 VEL 12.775 PTH 2.32 VHP 8.696 DPA 54.27 RAP 287.45 ECC 1.6884

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
24.94	10 59 35	1946.45	30.03	65.52	248.52	154.61	11 32 2	1346.4	37.19	61.64
155.06	21 18 28	5492.86	30.04	255.58	248.54	154.60	22 50 0	4892.9	37.20	251.70
24.94	10 59 35	1946.45	30.03	65.52	248.52	154.61	11 32 2	1346.4	37.19	61.64
155.06	21 18 28	5492.86	30.04	255.58	248.54	154.60	22 50 0	4892.9	37.20	251.70
24.94	10 59 35	1946.45	30.03	65.52	248.52	154.61	11 32 2	1346.4	37.19	61.64
155.06	21 18 28	5492.86	30.04	255.58	248.54	154.60	22 50 0	4892.9	37.20	251.70

DIFFERENTIAL CORRECTIONS
TDE -.7167 TRA -.1438 TC3 -.1072 BAU .3103
RDE -.9656 RRA-1.9735 RC3 .5444 FAU .01967
FDE .7563 FRA 1.1851 FC3 -.4072 BSP 15333
BDE 1.2025 BRA 1.9787 BC3 .5549 FSP -822

MID-COURSE EXECUTION ACCURACY
SGT 734.9 SGR 4838.0 SG3 255.2
RRT .5797 RRF -.9981 RTF -.6093
SGB 4893.5 R23 .0267 R13 -.9984
SG1 4857.0 SG2 596.5 THA 84.89

ORBIT DETERMINATION ACCURACY
ST 643.3 SR 1651.7 SS 812.3
CRT .6480 CRS .9923 CST .7372
LSA 1891.1 MSA 475.1 SSA 3.2
EL1 1708.1 EL2 473.8 ALF 74.63

LAUNCH DATE OCT 1 1965 FLIGHT TIME 166.00 ARRIVAL DATE MAR 16 1966

HELIOCENTRIC CONIC DISTANCE 449.529

RL	149.76	LAL	.00	LOL	7.61	VL	27.338	GAL	3.19	AZL	98.94	HCA	197.38	SMA	129.49	ECC	.16595	INC	8.9400	VI	29.752
RP	108.00	LAP	2.66	LOP	204.79	VP	37.852	GAP	.14	AZP	81.46	TAL	163.61	TAP	.99	RCA	108.00	APO	150.98	V2	35.089
RC	77.191	GL	-50.98	GP	73.16	ZAL	68.32	ZAP	88.94	ETS	348.84	ZAE	112.91	ETE	95.50	ZAC	61.92	ETC	225.58	CLP	-86.34

PLANETOCENTRIC CONIC

C3 29.808 VHL 5.460 DLA -63.43 RAL 345.82 RAD 6568.2 VEL 12.296 PTH 2.21 VHP 7.306 DPA 49.41 RAP 287.21 ECC 1.4906

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
30.54	10 48 5	1841.78	33.77	56.59	236.27	147.44	11 18 47	1241.8	40.39	51.36
149.46	20 41 28	5426.66	33.78	252.87	236.28	147.44	22 11 55	4826.7	40.40	247.64
30.54	10 48 5	1841.78	33.77	56.59	236.27	147.44	11 18 47	1241.8	40.39	51.36
149.46	20 41 28	5426.66	33.78	252.87	236.28	147.44	22 11 55	4826.7	40.40	247.64
30.54	10 48 5	1841.78	33.77	56.59	236.27	147.44	11 18 47	1241.8	40.39	51.36
149.46	20 41 28	5426.66	33.78	252.87	236.28	147.44	22 11 55	4826.7	40.40	247.64

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-.4564	TRA	.1927	TC3	-.2975	BAU	.3793	SGT	734.4	SGR	4844.4	SG3	334.7
RDE	-.5630	RRA	-2.0058	RC3	.9043	FAU	.02958	RRT	-.6087	RRF	-.9982	RTF	.5872
FDE	.6139	FRA	1.5782	FC3	-.8591	BSP	15339	SGB	4899.7	R23	.0368	R13	-.9978
BDE	.7248	BRA	2.0151	BC3	.9519	FSP	-1082	SG1	4865.3	SG2	580.2	THA	95.35

ST	497.9	SR	1530.7	SS	810.7								
CRT	.1197	CRS	.9917	CST	.2465								
LSA	1731.3	MSA	500.6	SSA	3.9								
EL1	1532.0	EL2	493.9	ALF	87.51								

LAUNCH DATE OCT 1 1965 FLIGHT TIME 168.00 ARRIVAL DATE MAR 18 1966

HELIOCENTRIC CONIC DISTANCE 455.840

RL	149.76	LAL	.00	LOL	7.61	VL	27.341	GAL	3.24	AZL	97.25	HCA	200.55	SMA	129.51	ECC	.16604	INC	7.2481	VI	29.752
RP	108.04	LAP	2.54	LOP	208.01	VP	37.842	GAP	.56	AZP	83.21	TAL	163.37	TAP	3.91	RCA	108.00	APO	151.01	V2	35.076
RC	79.446	GL	-45.72	GP	68.87	ZAL	64.91	ZAP	91.23	ETS	356.44	ZAE	116.31	ETE	102.86	ZAC	57.70	ETC	229.29	CLP	-93.41

PLANETOCENTRIC CONIC

C3 23.140 VHL 4.810 DLA -58.57 RAL 341.21 RAD 6567.9 VEL 12.022 PTH 2.15 VHP 6.378 DPA 44.96 RAP 286.68 ECC 1.3808

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
36.33	10 44 1	1753.53	35.35	47.21	225.50	140.25	11 13 14	1153.5	41.32	40.82
143.67	20 8 46	5389.55	35.36	250.46	225.52	140.25	21 38 35	4789.6	41.33	244.07
36.33	10 44 1	1753.53	35.35	47.21	225.50	140.25	11 13 14	1153.5	41.32	40.82
143.67	20 8 46	5389.55	35.36	250.46	225.52	140.25	21 38 35	4789.6	41.33	244.07
36.33	10 44 1	1753.53	35.35	47.21	225.50	140.25	11 13 14	1153.5	41.32	40.82
143.67	20 8 46	5389.55	35.36	250.46	225.52	140.25	21 38 35	4789.6	41.33	244.07

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-.3329	TRA	.4671	TC3	-.5756	BAU	.4226	SGT	1265.6	SGR	4727.5	SG3	418.7
RDE	-.3578	RRA	-1.9943	RC3	1.2390	FAU	.03940	RRT	-.8941	RRF	-.9980	RTF	.8835
FDE	.5507	FRA	2.0084	FC3	-1.4741	BSP	15354	SGB	4894.0	R23	.0473	R13	-.9971
BDE	.4887	BRA	2.0483	BC3	1.3662	FSP	-1362	SG1	4862.9	SG2	550.9	THA	103.64

ST	509.8	SR	1431.8	SS	840.4								
CRT	-.3683	CRS	.9899	CST	-.2328								
LSA	1666.5	MSA	488.7	SSA	4.7								
EL1	1445.5	EL2	469.5	ALF	98.36								

LAUNCH DATE OCT 1 1965 FLIGHT TIME 170.00 ARRIVAL DATE MAR 20 1966

HELIOCENTRIC CONIC DISTANCE 462.142

RL	149.76	LAL	.00	LOL	7.61	VL	27.342	GAL	3.29	AZL	95.99	HCA	203.73	SMA	129.51	ECC	.16633	INC	5.9931	VI	29.752
RP	108.08	LAP	2.41	LOP	211.22	VP	37.830	GAP	.97	AZP	84.51	TAL	163.09	TAP	6.81	RCA	107.97	APO	151.06	V2	35.063
RC	81.719	GL	-40.63	GP	64.81	ZAL	61.81	ZAP	94.07	ETS	2.64	ZAE	119.15	ETE	109.44	ZAC	53.66	ETC	231.87	CLP	-99.60

PLANETOCENTRIC CONIC

C3 19.155 VHL 4.377 DLA -53.78 RAL 337.75 RAD 6567.8 VEL 11.855 PTH 2.10 VHP 5.733 DPA 40.77 RAP 285.95 ECC 1.3152

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
42.16	10 46 14	1675.32	35.33	37.95	216.47	133.60	11 14 9	1075.3	40.61	30.74
137.84	19 38 58	5377.02	35.34	248.95	216.49	133.59	21 8 35	4777.0	40.62	241.74
42.16	10 46 14	1675.32	35.33	37.95	216.47	133.60	11 14 9	1075.3	40.61	30.74
137.84	19 38 58	5377.02	35.34	248.95	216.49	133.59	21 8 35	4777.0	40.62	241.74
42.16	10 46 14	1675.32	35.33	37.95	216.47	133.60	11 14 9	1075.3	40.61	30.74
137.84	19 38 58	5377.02	35.34	248.95	216.49	133.59	21 8 35	4777.0	40.62	241.74

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-.2495	TRA	.7167	TC3	-.9215	BAU	.4520	SGT	1810.8	SGR	4540.7	SG3	502.3
RDE	-.2681	RRA	-1.9547	RC3	1.5053	FAU	.04861	RRT	-.9518	RRF	-.9978	RTF	.9446
FDE	.5631	FRA	2.4538	FC3	-2.1971	BSP	15317	SGB	4888.4	R23	.0576	R13	-.9963
BDE	.3662	BRA	2.0819	BC3	1.7650	FSP	-1642	SG1	4860.8	SG2	518.8	THA	111.04

ST	578.1	SR	1346.5	SS	887.0								
CRT	-.6492	CRS	.9871	CST	-.5193								
LSA	1649.6	MSA	461.3	SSA	5.5								
EL1	1403.3	EL2	421.9	ALF	107.18								

LAUNCH DATE OCT 1 1965 FLIGHT TIME 172.00 ARRIVAL DATE MAR 22 1966

HELIOCENTRIC CONIC DISTANCE 468.428

RL	149.76	LAL	.00	LOL	7.61	VL	27.341	GAL	3.36	AZL	95.02	HCA	206.91	SMA	129.51	ECC	.16682	INC	5.0207	VI	29.752
RP	108.12	LAP	2.27	LOP	214.43	VP	37.817	GAP	1.38	AZP	85.52	TAL	162.77	TAP	9.68	RCA	107.90	APO	151.11	V2	35.050
RC	84.008	GL	-35.81	GP	60.90	ZAL	59.03	ZAP	97.35	ETS	7.86	ZAE	121.50	ETE	115.63	ZAC	49.74	ETC	233.71	CLP	-105.25

PLANETOCENTRIC CONIC

C3 16.664 VHL 4.082 DLA -49.19 RAL 335.15 RAD 6567.7 VEL 11.749 PTH 2.07 VHP 5.276 DPA 36.75 RAP 285.14 ECC 1.2742

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
47.93	10 53 45	1601.82	34.22	29.07	209.17	127.78	11 20 27	1001.8	38.86	21.37
132.07	19 10 42	5385.64	34.23	248.70	209.18	127.77	20 40 28	4785.6	38.87	240.99
47.93	10 53 45	1601.82	34.22	29.07	209.17	127.78	11 20 27	1001.8	38.86	21.37
132.07	19 10 42	5385.64	34.23	248.70	209.18	127.77	20 40 28	4785.6	38.87	240.99
47.93	10 53 45	1601.82	34.22	29.07	209.17	127.78	11 20 27	1001.8	38.86	21.37
132.07	19 10 42	5385.64	34.23	248.70	209.18	127.77	20 40 28	4785.6	38.87	240.99

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-.1741	TRA	.9517	TC3	-1.3087	BAU	.4758	SGT	2319.2	SGR	4303.3	SG3	580.4
RDE	-.2352	RRA	-1.8920	RC3	1.6879	FAU	.05698	RRT	-.9716	RRF	-.9974	RTF	.9657
FDE	.6347	FRA	2.8888	FC3	-2.9605	BSP	15321	SGB	4888.4	R23	.0670	R13	-.9953
BDE	.2926	BRA	2.1178	BC3	2.1358	FSP	-1910	SG1	4864.2	SG2	485.7	THA	117.94

ST	660.8	SR	1263.6	SS	941.1								
CRT	-.8001	CRS	.9835	CST	-.6786								
LSA	1653.5	MSA	430.1	SSA	6.4								
EL1	1378.9	EL2	363.3	ALF	114.52								

LAUNCH DATE OCT 1 1965 FLIGHT TIME 174.00 ARRIVAL DATE MAR 24 1966

HELIOCENTRIC CONIC DISTANCE 474.698

RL 149.76 LAL .00 LOL 7.61 VL 27.338 GAL 3.45 AZL 94.24 HCA 210.10 SMA 129.48 ECC .16751 INC 4.2410 V1 29.752
RP 108.16 LAP 2.13 LOP 217.64 VP 37.803 GAP 1.79 AZP 86.33 TAL 162.42 TAP 12.51 RCA 107.79 APO 151.17 V2 35.036
RC 86.309 GL -31.32 GP 57.10 ZAL 56.56 ZAP 100.96 ETS 12.30 ZAE 123.37 ETE 121.56 ZAC 45.93 ETC 234.95 CLP-110.49

PLANETOCENTRIC CONIC

C3 15.072 VHL 3.882 DLA -44.85 RAL 333.19 RAO 6567.6 VEL 11.681 PTH 2.05 VHP 4.952 DPA 32.87 RAP 284.31 ECC 1.2480

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
53.64	11 6 7	1528.27	32.45	20.54	203.44	122.84	11 31 36	928.3	36.52	12.59
126.36	18 42 38	5413.67	32.46	249.88	203.45	122.83	20 12 52	4813.7	36.53	241.93
53.64	11 6 7	1528.27	32.45	20.54	203.44	122.84	11 31 36	928.3	36.52	12.59
126.36	18 42 38	5413.67	32.46	249.88	203.45	122.83	20 12 52	4813.7	36.53	241.93
53.64	11 6 7	1528.27	32.45	20.54	203.44	122.84	11 31 36	928.3	36.52	12.59
126.36	18 42 38	5413.67	32.46	249.88	203.45	122.83	20 12 52	4813.7	36.53	241.93

DIFFERENTIAL CORRECTIONS

TDE -.0940 TRA 1.1772 TC3-1.7057 BAU .4956
RDE -.2315 RRA-1.8151 RC3 1.7720 FAU .06384
FDE .7555 FRA 3.2967 FC3-3.6670 BSP 15292
BDE .2498 BRA 2.1634 BC3 2.4596 FSP -2140

MID-COURSE EXECUTION ACCURACY

SGT 2789.0 SGR 4035.7 SG3 649.1
RRT -.9803 RRF -.9970 RTF .9752
SGB 4905.6 R23 .0748 R13 -.9942
SG1 4884.5 SG2 454.7 THA 124.46

ORBIT DETERMINATION ACCURACY

ST 749.2 SR 1184.6 SS 1002.4
CRT -.8874 CRS .9794 CST -.7761
LSA 1676.2 MSA 399.8 SSA 7.4
EL1 1369.4 EL2 298.8 ALF 120.94

LAUNCH DATE OCT 1 1965 FLIGHT TIME 176.00 ARRIVAL DATE MAR 26 1966

HELIOCENTRIC CONIC DISTANCE 480.948

RL 149.76 LAL .00 LOL 7.61 VL 27.333 GAL 3.54 AZL 93.60 HCA 213.28 SMA 129.45 ECC .16839 INC 3.5985 V1 29.752
RP 108.20 LAP 1.97 LOP 220.84 VP 37.787 GAP 2.19 AZP 86.99 TAL 162.02 TAP 15.31 RCA 107.65 APO 151.25 V2 35.023
RC 88.623 GL -27.17 GP 53.43 ZAL 54.36 ZAP 104.78 ETS 16.05 ZAE 124.78 ETE 127.22 ZAC 42.27 ETC 235.62 CLP-115.36

PLANETOCENTRIC CONIC

C3 14.061 VHL 3.750 DLA -40.79 RAL 331.70 RAO 6567.6 VEL 11.638 PTH 2.04 VHP 4.728 DPA 29.14 RAP 283.53 ECC 1.2314

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
59.31	11 23 28	1449.92	30.32	12.11	199.03	118.72	11 47 38	849.9	33.89	4.08
120.69	18 13 26	5461.17	30.33	252.59	199.04	118.71	19 44 27	4861.2	33.90	244.55
59.31	11 23 28	1449.92	30.32	12.11	199.03	118.72	11 47 38	849.9	33.89	4.08
120.69	18 13 26	5461.17	30.33	252.59	199.04	118.71	19 44 27	4861.2	33.90	244.55
59.31	11 23 28	1449.92	30.32	12.11	199.03	118.72	11 47 38	849.9	33.89	4.08
120.69	18 13 26	5461.17	30.33	252.59	199.04	118.71	19 44 27	4861.2	33.90	244.55

DIFFERENTIAL CORRECTIONS

TDE -.0076 TRA 1.3919 TC3-2.0897 BAU .5161
RDE -.2338 RRA-1.7238 RC3 1.7804 FAU .06936
FDE .8983 FRA 3.6491 FC3-4.2705 BSP 15394
BDE .2339 BRA 2.2156 BC3 2.7453 FSP -2340

MID-COURSE EXECUTION ACCURACY

SGT 3217.0 SGR 3743.6 SG3 704.0
RRT -.9850 RRF -.9963 RTF .9803
SGB 4935.9 R23 .0796 R13 -.9932
SG1 4917.8 SG2 422.4 THA 130.61

ORBIT DETERMINATION ACCURACY

ST 844.2 SR 1103.9 SS 1063.2
CRT -.9415 CRS .9746 CST -.8423
LSA 1710.1 MSA 370.6 SSA 8.4
EL1 1370.7 EL2 229.1 ALF 126.96

LAUNCH DATE OCT 1 1965 FLIGHT TIME 178.00 ARRIVAL DATE MAR 28 1966

HELIOCENTRIC CONIC DISTANCE 487.178

RL 149.76 LAL .00 LOL 7.61 VL 27.326 GAL 3.65 AZL 93.06 HCA 216.47 SMA 129.40 ECC .16947 INC 3.0568 V1 29.752
RP 108.24 LAP 1.82 LOP 224.05 VP 37.769 GAP 2.59 AZP 87.54 TAL 161.58 TAP 18.06 RCA 107.47 APO 151.33 V2 35.010
RC 90.946 GL -23.36 GP 49.89 ZAL 52.42 ZAP 108.72 ETS 19.20 ZAE 125.77 ETE 132.57 ZAC 38.79 ETC 235.69 CLP-119.87

PLANETOCENTRIC CONIC

C3 13.446 VHL 3.667 DLA -37.03 RAL 330.58 RAO 6567.5 VEL 11.612 PTH 2.03 VHP 4.580 DPA 25.55 RAP 282.86 ECC 1.2213

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
65.06	11 46 42	1360.74	28.02	3.35	195.72	115.28	12 9 23	760.7	31.17	355.31
114.94	17 41 17	5530.79	28.03	257.05	195.72	115.27	19 13 28	4930.8	31.18	249.00
65.06	11 46 42	1360.74	28.02	3.35	195.72	115.28	12 9 23	760.7	31.17	355.31
114.94	17 41 17	5530.79	28.03	257.05	195.72	115.27	19 13 28	4930.8	31.18	249.00
65.06	11 46 42	1360.74	28.02	3.35	195.72	115.28	12 9 23	760.7	31.17	355.31
114.94	17 41 17	5530.79	28.03	257.05	195.72	115.27	19 13 28	4930.8	31.18	249.00

DIFFERENTIAL CORRECTIONS

TDE .0866 TRA 1.5982 TC3-2.4392 BAU .5368
RDE -.2370 RRA-1.6263 RC3 1.7226 FAU .07320
FDE 1.0538 FRA 3.9388 FC3-4.7131 BSP 15557
BDE .2523 BRA 2.2802 BC3 2.9861 FSP -2493

MID-COURSE EXECUTION ACCURACY

SGT 3606.2 SGR 3444.8 SG3 743.7
RRT -.9876 RRF -.9955 RTF .9833
SGB 4987.1 R23 .0808 R13 -.9922
SG1 4971.6 SG2 392.4 THA 136.33

ORBIT DETERMINATION ACCURACY

ST 949.7 SR 1025.0 SS 1124.2
CRT -.9743 CRS .9693 CST -.8891
LSA 1760.1 MSA 344.2 SSA 9.4
EL1 1388.4 EL2 158.0 ALF 132.76

LAUNCH DATE OCT 1 1965 FLIGHT TIME 180.00 ARRIVAL DATE MAR 30 1966

HELIOCENTRIC CONIC DISTANCE 493.386

RL 149.76 LAL .00 LOL 7.61 VL 27.317 GAL 3.77 AZL 92.59 HCA 219.66 SMA 129.34 ECC .17074 INC 2.5914 V1 29.752
RP 108.29 LAP 1.65 LOP 227.24 VP 37.751 GAP 2.99 AZP 88.00 TAL 161.10 TAP 20.77 RCA 107.26 APO 151.43 V2 34.996
RC 93.279 GL -19.89 GP 46.50 ZAL 50.70 ZAP 112.67 ETS 21.83 ZAE 126.37 ETE 137.54 ZAC 35.54 ETC 235.15 CLP-124.05

PLANETOCENTRIC CONIC

C3 13.119 VHL 3.622 DLA -33.57 RAL 329.76 RAO 6567.5 VEL 11.598 PTH 2.03 VHP 4.494 DPA 22.14 RAP 282.33 ECC 1.2159

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
71.18	12 18 13	1250.68	25.68	353.48	193.29	112.39	12 39 4	650.7	28.49	345.48
108.82	17 3 11	5630.16	25.69	263.76	193.30	112.38	18 37 1	5030.2	28.50	255.75
71.18	12 18 13	1250.68	25.68	353.48	193.29	112.39	12 39 4	650.7	28.49	345.48
108.82	17 3 11	5630.16	25.69	263.76	193.30	112.38	18 37 1	5030.2	28.50	255.75
110.00	16 21 9	5758.85	21.81	271.80	191.34	117.00	17 57 8	5158.8	25.25	264.34
110.00	17 59 25	5458.03	29.70	252.03	194.95	107.76	19 30 23	4858.0	31.84	243.47

DIFFERENTIAL CORRECTIONS

TDE .1882 TRA 1.7977 TC3-2.7385 BAU .5575
RDE -.2372 RRA-1.5277 RC3 1.6140 FAU .07521
FDE 1.2096 FRA 4.1616 FC3-4.9634 BSP 15772
BDE .3028 BRA 2.3591 BC3 3.1787 FSP -2593

MID-COURSE EXECUTION ACCURACY

SGT 3958.7 SGR 3149.5 SG3 768.0
RRT -.9889 RRF -.9943 RTF .9852
SGB 5058.7 R23 .0781 R13 -.9913
SG1 5045.3 SG2 367.6 THA 141.57

ORBIT DETERMINATION ACCURACY

ST 1067.9 SR 948.2 SS 1183.4
CRT -.9922 CRS .9633 CST -.9225
LSA 1826.6 MSA 321.2 SSA 10.4
EL1 1425.3 EL2 88.8 ALF 138.43

LAUNCH DATE OCT 1 1965 FLIGHT TIME 182.00 ARRIVAL DATE APR 1 1966

HELIOCENTRIC CONIC DISTANCE 499.571

RL 149.76 LAL .00 LOL 7.61 VL 27.308 GAL 3.91 AZL 92.19 HCA 222.85 SMA 129.27 ECC .17220 INC 2.1850 VI 29.752
RP 108.33 LAP 1.49 LOP 230.44 VP 37.732 GAP 3.38 AZP 88.40 TAL 160.58 TAP 23.43 RCA 107.01 APO 151.54 V2 34.983
RC 95.621 GL -16.74 GP 43.30 ZAL 49.17 ZAP 116.56 ETS 24.02 ZAE 126.64 ETE 142.10 ZAC 32.56 ETC 233.95 CLP-127.91

PLANETOCENTRIC CONIC

C3 13.009 VHL 3.607 DLA -30.38 RAL 329.16 RAD 6567.5 VEL 11.593 PTH 2.03 VHP 4.457 OPA 18.92 RAP 281.98 ECC 1.2141

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
78.52	13 5 48	1092.62	23.39	340.50	191.58	109.95	13 24 1	492.6	25.90	332.56
101.48	16 10 52	5784.61	23.40	274.51	191.58	109.93	17 47 17	5184.6	25.91	266.57
78.52	13 5 48	1092.62	23.39	340.50	191.58	109.95	13 24 1	492.6	25.90	332.56
101.48	16 10 52	5784.61	23.40	274.51	191.58	109.93	17 47 17	5184.6	25.91	266.57
110.00	15 6 53	698.16	14.21	307.15	186.92	121.42	15 18 31	98.2	18.27	300.38
110.00	19 8 59	5227.06	33.28	235.01	194.40	98.30	20 36 6	4627.1	34.07	225.86

DIFFERENTIAL CORRECTIONS

TDE .2952 TRA 1.9902 TC3-2.9836 BAU .5790
RDE -.2321 RRA-1.4304 RC3 1.4771 FAU .07565
FDE 1.3535 FRA 4.3155 FC3-5.0344 BSP 16065
BDE .3755 BRA 2.4510 BC3 3.3293 FSP -2646

MID-COURSE EXECUTION ACCURACY

SGT 4275.7 SGR 2865.1 SG3 777.4
RRT -.9892 RRF -.9928 RTF .9863
SGB 5146.9 R23 .0717 R13 -.9906
SG1 5135.0 SG2 349.0 THA 146.28

ORBIT DETERMINATION ACCURACY

ST 1197.0 SR 872.5 SS 1236.9
CRT -.9993 CRS .9562 CST -.9457
LSA 1905.9 MSA 302.5 SSA 11.3
EL1 1481.0 EL2 26.5 ALF 143.92

LAUNCH DATE OCT 1 1965 FLIGHT TIME 184.00 ARRIVAL DATE APR 3 1966

HELIOCENTRIC CONIC DISTANCE 505.733

RL 149.76 LAL .00 LOL 7.61 VL 27.296 GAL 4.06 AZL 91.82 HCA 226.03 SMA 129.20 ECC .17387 INC 1.8248 VI 29.752
RP 108.37 LAP 1.31 LOP 233.63 VP 37.712 GAP 3.78 AZP 88.73 TAL 160.03 TAP 26.06 RCA 106.73 APO 151.66 V2 34.970
RC 97.969 GL -13.87 GP 40.29 ZAL 47.79 ZAP 120.35 ETS 25.84 ZAE 126.63 ETE 146.20 ZAC 29.88 ETC 232.05 CLP-131.48

PLANETOCENTRIC CONIC

C3 13.074 VHL 3.616 DLA -27.45 RAL 328.76 RAD 6567.5 VEL 11.596 PTH 2.03 VHP 4.461 OPA 15.91 RAP 281.80 ECC 1.2152

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	13 35 10	996.39	16.99	330.76	188.79	113.00	13 51 46	396.4	19.96	323.34
90.00	15 38 20	5882.98	25.54	282.42	191.74	102.67	17 16 23	5283.0	27.03	274.07
100.00	14 16 52	861.64	14.13	319.50	187.42	116.62	14 31 13	261.6	17.59	312.42
100.00	17 39 19	5492.97	28.63	254.38	192.41	98.99	19 10 52	4893.0	29.58	245.70
110.00	14 26 18	831.98	9.35	314.46	184.62	123.03	14 40 10	232.0	13.63	307.98
110.00	19 46 22	5095.40	34.11	224.83	193.04	92.34	21 11 17	4495.4	34.06	215.58

DIFFERENTIAL CORRECTIONS

TDE .4097 TRA 2.1809 TC3-3.1637 BAU .5992
RDE -.2241 RRA-1.3396 RC3 1.3198 FAU .07435
FDE 1.4867 FRA 4.4136 FC3-4.9231 BSP 16332
BDE .4669 BRA 2.5594 BC3 3.4279 FSP -2639

MID-COURSE EXECUTION ACCURACY

SGT 4562.8 SGR 2599.6 SG3 774.4
RRT -.9887 RRF -.9907 RTF .9870
SGB 5251.4 R23 .0633 R13 -.9899
SG1 5240.5 SG2 338.6 THA 150.47

ORBIT DETERMINATION ACCURACY

ST 1338.2 SR 801.1 SS 1287.1
CRT -.9987 CRS .9480 CST -.9619
LSA 2001.6 MSA 287.7 SSA 12.1
EL1 1559.3 EL2 34.5 ALF 149.11

LAUNCH DATE OCT 1 1965 FLIGHT TIME 186.00 ARRIVAL DATE APR 5 1966

HELIOCENTRIC CONIC DISTANCE 511.871

RL 149.76 LAL .00 LOL 7.61 VL 27.284 GAL 4.23 AZL 91.50 HCA 229.22 SMA 129.11 ECC .17573 INC 1.5015 VI 29.752
RP 108.41 LAP 1.14 LOP 236.82 VP 37.691 GAP 4.17 AZP 89.02 TAL 159.43 TAP 28.65 RCA 106.42 APO 151.80 V2 34.957
RC 100.323 GL -11.28 GP 37.50 ZAL 46.53 ZAP 123.98 ETS 27.36 ZAE 126.41 ETE 149.85 ZAC 27.56 ETC 229.43 CLP-134.79

PLANETOCENTRIC CONIC

C3 13.286 VHL 3.645 DLA -24.76 RAL 328.52 RAD 6567.5 VEL 11.605 PTH 2.03 VHP 4.500 OPA 13.11 RAP 281.82 ECC 1.2187

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 31 36	1210.42	10.88	343.51	186.50	116.31	12 51 47	610.4	14.33	336.53
90.00	16 39 58	5675.90	27.80	267.70	191.61	95.64	18 14 34	5075.9	28.29	259.07
100.00	13 30 57	1018.83	9.16	328.52	185.59	118.58	13 47 56	418.8	12.91	321.74
100.00	18 23 18	5342.73	29.73	243.36	191.78	93.29	19 52 21	4742.7	29.87	234.55
110.00	13 56 59	937.16	5.40	320.04	183.30	123.81	14 12 36	337.2	9.80	313.72
110.00	20 13 46	4997.16	34.12	217.16	191.83	87.80	21 37 3	4397.2	33.44	207.98

DIFFERENTIAL CORRECTIONS

TDE .5258 TRA 2.3661 TC3-3.2941 BAU .6208
RDE -.2095 RRA-1.2531 RC3 1.1681 FAU .07226
FDE 1.5918 FRA 4.4522 FC3-4.7083 BSP 16720
BDE .5660 BRA 2.6775 BC3 3.4951 FSP -2612

MID-COURSE EXECUTION ACCURACY

SGT 4819.3 SGR 2353.5 SG3 760.3
RRT -.9876 RRF -.9881 RTF .9874
SGB 5363.3 R23 .0526 R13 -.9895
SG1 5353.0 SG2 332.5 THA 154.14

ORBIT DETERMINATION ACCURACY

ST 1482.6 SR 729.8 SS 1325.2
CRT -.9923 CRS .9372 CST -.9729
LSA 2100.1 MSA 276.5 SSA 12.7
EL1 1650.5 EL2 81.2 ALF 153.90

LAUNCH DATE OCT 1 1965 FLIGHT TIME 188.00 ARRIVAL DATE APR 7 1966

HELIOCENTRIC CONIC DISTANCE 517.984

RL 149.76 LAL .00 LOL 7.61 VL 27.270 GAL 4.41 AZL 91.21 HCA 232.40 SMA 129.02 ECC .17781 INC 1.2081 VI 29.752
RP 108.44 LAP .96 LOP 240.01 VP 37.669 GAP 4.57 AZP 89.26 TAL 158.79 TAP 31.20 RCA 106.08 APO 151.96 V2 34.945
RC 102.682 GL -8.93 GP 34.92 ZAL 45.38 ZAP 127.43 ETS 28.65 ZAE 126.02 ETE 153.05 ZAC 25.61 ETC 226.10 CLP-137.85

PLANETOCENTRIC CONIC

C3 13.627 VHL 3.691 DLA -22.30 RAL 328.42 RAD 6567.5 VEL 11.620 PTH 2.04 VHP 4.568 OPA 10.54 RAP 282.02 ECC 1.2243

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 54 2	1346.42	6.68	351.29	185.43	117.58	12 16 28	746.4	10.32	344.50
90.00	17 16 41	5550.93	28.30	258.59	191.19	91.10	18 49 12	4950.9	28.15	249.93
100.00	12 59 13	1136.00	5.28	335.06	184.67	119.46	13 18 9	536.0	9.17	328.43
100.00	18 54 10	5236.58	29.88	235.47	191.19	89.15	20 21 27	4636.6	29.44	226.69
110.00	13 34 5	1026.70	1.99	324.73	182.62	124.13	13 51 12	426.7	6.46	318.49
110.00	20 35 48	4918.65	33.75	211.06	190.93	84.21	21 57 46	4318.6	32.58	202.02

DIFFERENTIAL CORRECTIONS

TDE .6451 TRA 2.5493 TC3-3.3729 BAU .6421
RDE -.1916 RRA-1.1739 RC3 1.0220 FAU .06927
FDE 1.6746 FRA 4.4468 FC3-4.4006 BSP 17133
BDE .6730 BRA 2.8066 BC3 3.5244 FSP -2554

MID-COURSE EXECUTION ACCURACY

SGT 5049.1 SGR 2129.7 SG3 738.0
RRT -.9856 RRF -.9848 RTF .9877
SGB 5479.8 R23 .0419 R13 -.9891
SG1 5469.7 SG2 332.2 THA 157.34

ORBIT DETERMINATION ACCURACY

ST 1629.2 SR 661.8 SS 1354.4
CRT -.9807 CRS .9236 CST -.9805
LSA 2203.2 MSA 268.4 SSA 13.2
EL1 1754.3 EL2 120.0 ALF 158.17

LAUNCH DATE OCT 1 1965 FLIGHT TIME 190.00 ARRIVAL DATE APR 9 1966

HELIOCENTRIC CONIC DISTANCE 524.072

RL 149.76 LAL .00 LOL 7.61 VL 27.255 GAL 4.61 AZL 90.94 HCA 235.58 SMA 128.92 ECC .18009 INC .9390 V1 29.752
RP 108.48 LAP .77 LOP 243.19 VP 37.647 GAP 4.97 AZP 89.47 TAL 158.12 TAP 33.71 RCA 105.70 APO 152.13 V2 34.932
RC 105.043 GL -6.81 GP 32.56 ZAL 44.32 ZAP 130.70 ETS 29.75 ZAE 125.53 ETE 155.84 ZAC 24.05 ETC 222.11 CLP-140.68

PLANETOCENTRIC CONIC

C3 14.086 VHL 3.753 DLA -20.04 RAL 328.42 RAD 6567.6 VEL 11.639 PTH 2.04 VHP 4.662 DPA 8.19 RAP 282.40 ECC 1.2318

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 26 18	1454.57	3.23	357.37	185.01	118.15	11 50 32	854.6	6.97	350.68
90.00	17 44 27	5457.32	28.23	251.75	190.91	87.67	19 15 24	4857.3	27.61	243.14
100.00	12 34 48	1233.53	2.00	340.44	184.33	119.83	12 55 21	633.5	5.95	333.88
100.00	19 18 38	5153.60	29.64	229.32	190.82	85.91	20 44 32	4553.6	28.76	220.62
110.00	13 15 31	1105.92	-1.04	328.87	182.43	124.17	13 33 57	505.9	3.45	322.66
110.00	20 54 24	4853.97	33.19	206.09	190.36	81.32	22 15 18	4254.0	31.64	197.21

DIFFERENTIAL CORRECTIONS

TDE .7673 TRA 2.7324 TC3-3.4059 BAU .6628
RDE -.1711 RRA-1.1024 RC3 .8875 FAU .06570
FDE 1.7364 FRA 4.4082 FC3-4.0376 BSP 17562
BDE .7861 BRA 2.9464 BC3 3.5196 FSP -2474

MID-COURSE EXECUTION ACCURACY

SGT 5255.7 SGR 1929.0 SG3 710.0
RRT -.9827 RRF -.9806 RTF .9877
SGB 5598.6 R23 .0321 R13 -.9887
SG1 5588.5 SG2 335.9 THA 160.09

ORBIT DETERMINATION ACCURACY

ST 1775.4 SR 597.9 SS 1375.0
CRT -.9641 CRS .9061 CST -.9858
LSA 2308.9 MSA 262.8 SSA 13.5
EL1 1867.3 EL2 150.9 ALF 161.89

LAUNCH DATE OCT 1 1965 FLIGHT TIME 192.00 ARRIVAL DATE APR 11 1966

HELIOCENTRIC CONIC DISTANCE 530.133

RL 149.76 LAL .00 LOL 7.61 VL 27.240 GAL 4.82 AZL 90.69 HCA 238.76 SMA 128.81 ECC .18260 INC .6899 V1 29.752
RP 108.52 LAP .59 LOP 246.37 VP 37.624 GAP 5.37 AZP 89.64 TAL 157.42 TAP 36.19 RCA 105.29 APO 152.33 V2 34.920
RC 107.406 GL -4.90 GP 30.40 ZAL 43.32 ZAP 133.77 ETS 30.73 ZAE 124.96 ETE 158.26 ZAC 22.91 ETC 217.56 CLP-143.32

PLANETOCENTRIC CONIC

C3 14.659 VHL 3.829 DLA -17.97 RAL 328.52 RAD 6567.6 VEL 11.664 PTH 2.05 VHP 4.778 DPA 6.05 RAP 282.96 ECC 1.2413

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 4 20	1546.98	.25	2.53	185.05	118.32	11 30 7	947.0	4.04	355.89
90.00	18 7 13	5382.56	27.90	246.30	190.86	84.96	19 36 55	4782.6	26.91	237.78
100.00	12 15 4	1318.74	-.89	345.11	184.41	119.88	12 37 3	718.7	3.09	338.59
100.00	19 39 10	5086.04	29.21	224.34	190.71	83.33	21 3 56	4486.0	27.98	215.75
110.00	13 0 6	1177.65	-3.78	332.61	182.61	124.00	13 19 44	577.7	.71	326.41
110.00	21 10 37	4799.88	32.56	202.00	190.10	78.97	22 30 37	4199.9	30.70	193.28

DIFFERENTIAL CORRECTIONS

TDE .8927 TRA 2.9173 TC3-3.3962 BAU .6823
RDE -.1493 RRA-1.0388 RC3 .7652 FAU .06165
FDE 1.7805 FRA 4.3459 FC3-3.6407 BSP 17986
BDE .9052 BRA 3.0967 BC3 3.4813 FSP -2377

MID-COURSE EXECUTION ACCURACY

SGT 5441.6 SGR 1750.4 SG3 678.2
RRT -.9787 RRF -.9754 RTF .9877
SGB 5716.2 R23 .0238 R13 -.9883
SG1 5705.9 SG2 342.4 THA 162.46

ORBIT DETERMINATION ACCURACY

ST 1920.0 SR 539.1 SS 1388.4
CRT -.9419 CRS .8838 CST -.9895
LSA 2416.1 MSA 258.9 SSA 13.7
EL1 1986.6 EL2 175.0 ALF 165.07

LAUNCH DATE OCT 1 1965 FLIGHT TIME 194.00 ARRIVAL DATE APR 13 1966

HELIOCENTRIC CONIC DISTANCE 536.166

RL 149.76 LAL .00 LOL 7.61 VL 27.223 GAL 5.05 AZL 90.46 HCA 241.94 SMA 128.70 ECC .18533 INC .4569 V1 29.752
RP 108.56 LAP .40 LOP 249.55 VP 37.601 GAP 5.77 AZP 89.78 TAL 156.69 TAP 38.63 RCA 104.84 APO 152.55 V2 34.909
RC 109.770 GL -3.17 GP 28.44 ZAL 42.38 ZAP 136.64 ETS 31.62 ZAE 124.36 ETE 160.34 ZAC 22.18 ETC 212.64 CLP-145.78

PLANETOCENTRIC CONIC

C3 15.344 VHL 3.917 DLA -16.06 RAL 328.70 RAD 6567.6 VEL 11.693 PTH 2.06 VHP 4.913 DPA 4.12 RAP 283.68 ECC 1.2525

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 46 19	1628.88	-2.39	7.09	185.44	118.22	11 13 28	1028.9	1.40	.47
90.00	18 26 41	5321.09	27.46	241.86	191.04	82.78	19 55 22	4721.1	26.17	233.43
100.00	11 58 43	1395.28	-3.48	349.32	184.84	119.71	12 21 58	795.3	.50	342.79
100.00	19 56 58	5029.92	28.69	220.25	190.85	81.24	21 20 48	4429.9	27.18	211.77
110.00	12 47 7	1243.65	-6.28	336.08	183.11	123.67	13 7 51	643.6	-1.81	329.85
110.00	21 25 3	4754.32	31.92	198.60	190.13	77.06	22 44 18	4154.3	29.81	190.03

DIFFERENTIAL CORRECTIONS

TDE 1.0238 TRA 3.1077 TC3-3.3443 BAU .6990
RDE -.1276 RRA -.9835 RC3 .6540 FAU .05712
FDE 1.8138 FRA 4.2716 FC3-3.2230 BSP 18326
BDE 1.0318 BRA 3.2596 BC3 3.4076 FSP -2258

MID-COURSE EXECUTION ACCURACY

SGT 5610.9 SGR 1593.3 SG3 644.8
RRT -.9736 RRF -.9691 RTF .9874
SGB 5832.7 R23 .0177 R13 -.9878
SG1 5822.1 SG2 350.7 THA 164.49

ORBIT DETERMINATION ACCURACY

ST 2064.6 SR 486.6 SS 1398.0
CRT -.9139 CRS .8563 CST -.9922
LSA 2527.5 MSA 256.1 SSA 13.9
EL1 2112.4 EL2 193.1 ALF 167.74

LAUNCH DATE OCT 1 1965 FLIGHT TIME 196.00 ARRIVAL DATE APR 15 1966

HELIOCENTRIC CONIC DISTANCE 542.170

RL 149.76 LAL .00 LOL 7.61 VL 27.205 GAL 5.30 AZL 90.24 HCA 245.12 SMA 128.58 ECC .18831 INC .2375 V1 29.752
RP 108.59 LAP .22 LOP 252.73 VP 37.578 GAP 6.18 AZP 89.90 TAL 155.92 TAP 41.04 RCA 104.36 APO 152.79 V2 34.897
RC 112.133 GL -1.60 GP 26.66 ZAL 41.49 ZAP 139.34 ETS 32.46 ZAE 123.74 ETE 162.13 ZAC 21.86 ETC 207.56 CLP-148.08

PLANETOCENTRIC CONIC

C3 16.142 VHL 4.018 DLA -14.31 RAL 328.96 RAD 6567.6 VEL 11.727 PTH 2.07 VHP 5.066 DPA 2.38 RAP 284.55 ECC 1.2657

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 31 13	1703.12	-4.77	11.25	186.12	117.95	10 59 36	1103.1	-1.00	4.61
90.00	18 43 48	5269.81	26.96	238.19	191.45	81.00	20 11 38	4669.8	25.44	229.85
100.00	11 44 56	1465.29	-5.83	353.18	185.54	119.37	12 9 21	865.3	-1.88	346.63
100.00	20 12 47	4982.87	28.16	216.85	191.22	79.53	21 35 49	4382.9	26.42	208.48
110.00	12 36 5	1305.05	-8.58	339.34	183.86	123.22	12 57 50	705.0	-4.15	333.06
110.00	21 38 6	4715.88	31.30	195.78	190.42	75.49	22 56 42	4115.9	28.99	187.33

DIFFERENTIAL CORRECTIONS

TDE 1.1542 TRA 3.2985 TC3-3.2722 BAU .7165
RDE -.1040 RRA -.9338 RC3 .5608 FAU .05284
FDE 1.8272 FRA 4.1812 FC3-2.8341 BSP 18736
BDE 1.1589 BRA 3.4281 BC3 3.3199 FSP -2148

MID-COURSE EXECUTION ACCURACY

SGT 5761.0 SGR 1453.9 SG3 610.0
RRT -.9671 RRF -.9616 RTF .9871
SGB 5941.6 R23 .0123 R13 -.9874
SG1 5930.7 SG2 359.1 THA 166.23

ORBIT DETERMINATION ACCURACY

ST 2199.2 SR 438.4 SS 1397.9
CRT -.8772 CRS .8203 CST -.9941
LSA 2630.2 MSA 254.3 SSA 14.0
EL1 2232.8 EL2 207.3 ALF 169.99

LAUNCH DATE OCT 1 1965 FLIGHT TIME 198.00 ARRIVAL DATE APR 17 1966

HELIOCENTRIC CONIC DISTANCE 548.144

RL 149.76 LAL .00 LOL 7.61 VL 27.187 GAL 5.57 AZL 90.03 HCA 248.29 SMA 128.45 ECC .19154 INC .0271 V1 29.752
RP 108.63 LAP .03 LOP 255.91 VP 37.554 GAP 6.59 AZP 89.99 TAL 155.13 TAP 43.42 RCA 103.85 APO 153.06 V2 34.886
RC 114.493 GL -.19 GP 25.04 ZAL 40.63 ZAP 141.86 ETS 33.29 ZAE 123.13 ETE 163.67 ZAC 21.90 ETC 202.56 CLP-150.24

PLANETOCENTRIC CONIC

C3 17.059 VHL 4.130 DLA -12.70 RAL 329.27 RAD 6567.7 VEL 11.766 PTH 2.08 VHP 5.235 OPA .82 RAP 285.56 ECC 1.2807

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 18 23	1771.47	-6.94	15.11	187.05	117.52	10 47 54	1171.5	-3.20	8.42
90.00	18 59 8	5226.76	26.47	235.14	192.06	79.55	20 26 15	4626.8	24.76	226.89
100.00	11 33 10	1530.17	-7.99	356.80	186.48	118.90	11 58 40	930.2	-4.07	350.20
100.00	20 27 2	4943.29	27.64	214.03	191.80	78.13	21 49 25	4343.3	25.72	205.75
110.00	12 26 38	1362.69	-10.72	342.44	184.83	122.66	12 49 21	762.7	-6.34	336.09
110.00	21 50 3	4683.54	30.72	193.43	190.93	74.22	23 8 6	4083.5	28.25	185.11

DIFFERENTIAL CORRECTIONS

TDE 1.2877 TRA 3.4945 TC3-3.1750 BAU .7323
RDE -.0805 RRA -.8904 RC3 .4797 FAU .04855
FDE 1.8308 FRA 4.0855 FC3-2.4637 BSP 19136
BDE 1.2902 BRA 3.6062 BC3 3.2110 FSP -2036

MID-COURSE EXECUTION ACCURACY

SGT 5896.1 SGR 1331.3 SG3 575.3
RRT -.9593 RRF -.9526 RTF .9868
SGB 6044.5 R23 .0081 R13 -.9870
SG1 6033.3 SG2 367.4 THA 167.73

ORBIT DETERMINATION ACCURACY

ST 2328.0 SR 396.1 SS 1393.4
CRT -.8314 CRS .7755 CST -.9955
LSA 2730.2 MSA 253.0 SSA 14.0
EL1 2351.4 EL2 217.9 ALF 171.88

LAUNCH DATE OCT 1 1965 FLIGHT TIME 200.00 ARRIVAL DATE APR 19 1966

HELIOCENTRIC CONIC DISTANCE 554.086

RL 149.76 LAL .00 LOL 7.61 VL 27.168 GAL 5.86 AZL 89.83 HCA 251.47 SMA 128.32 ECC .19504 INC .1690 V1 29.752
RP 108.66 LAP -.16 LOP 259.08 VP 37.530 GAP 7.01 AZP 90.05 TAL 154.31 TAP 45.78 RCA 103.29 APO 153.35 V2 34.875
RC 116.852 GL 1.08 GP 23.58 ZAL 39.80 ZAP 144.21 ETS 34.12 ZAE 122.53 ETE 165.00 ZAC 22.28 ETC 197.83 CLP-152.26

PLANETOCENTRIC CONIC

C3 18.100 VHL 4.254 DLA -11.22 RAL 329.63 RAD 6567.7 VEL 11.810 PTH 2.09 VHP 5.419 OPA -.57 RAP 286.70 ECC 1.2979

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 7 21	1835.13	-8.92	18.73	188.17	116.99	10 37 56	1235.1	-5.23	11.99
90.00	19 13 3	5190.60	26.00	232.59	192.85	78.36	20 39 34	4590.6	24.13	224.42
100.00	11 23 3	1590.91	-9.97	.22	187.62	118.33	11 49 34	990.9	-6.11	353.56
100.00	20 40 2	4910.06	27.15	211.68	192.57	76.98	22 1 52	4310.1	25.08	203.49
110.00	12 18 31	1417.22	-12.70	345.42	186.00	122.01	12 42 8	817.2	-8.38	338.99
110.00	22 1 4	4656.51	30.20	191.50	191.64	73.18	23 18 40	4056.5	27.61	183.27

DIFFERENTIAL CORRECTIONS

TDE 1.4241 TRA 3.6967 TC3-3.0582 BAU .7467
RDE -.0569 RRA -.8524 RC3 .4100 FAU .04435
FDE 1.8258 FRA 3.9880 FC3-2.1212 BSP 19509
BDE 1.4252 BRA 3.7937 BC3 3.0656 FSP -1924

MID-COURSE EXECUTION ACCURACY

SGT 6017.4 SGR 1223.7 SG3 541.5
RRT -.9500 RRF -.9422 RTF .9864
SGB 6140.6 R23 .0049 R13 -.9865
SG1 6129.1 SG2 375.2 THA 169.02

ORBIT DETERMINATION ACCURACY

ST 2450.1 SR 359.5 SS 1384.8
CRT -.7748 CRS .7202 CST -.9965
LSA 2825.9 MSA 252.0 SSA 13.9
EL1 2466.0 EL2 225.8 ALF 173.46

LAUNCH DATE OCT 1 1965 FLIGHT TIME 202.00 ARRIVAL DATE APR 21 1966

HELIOCENTRIC CONIC DISTANCE 559.993

RL 149.76 LAL .00 LOL 7.61 VL 27.148 GAL 6.17 AZL 89.64 HCA 254.64 SMA 128.19 ECC .19883 INC .3609 V1 29.752
RP 108.69 LAP -.35 LOP 262.25 VP 37.507 GAP 7.44 AZP 90.10 TAL 153.47 TAP 48.11 RCA 102.70 APO 153.68 V2 34.865
RC 119.206 GL 2.22 GP 22.26 ZAL 38.99 ZAP 146.41 ETS 34.98 ZAE 121.96 ETE 166.14 ZAC 22.96 ETC 193.51 CLP-154.18

PLANETOCENTRIC CONIC

C3 19.276 VHL 4.390 DLA -9.86 RAL 330.04 RAD 6567.8 VEL 11.860 PTH 2.10 VHP 5.619 OPA -1.80 RAP 287.96 ECC 1.3172

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 57 50	1894.96	-10.75	22.17	189.48	116.35	10 29 25	1295.0	-7.13	15.37
90.00	19 25 49	5160.35	25.56	230.48	193.82	77.39	20 51 49	4560.3	23.57	222.38
100.00	11 14 19	1648.22	-11.80	3.49	188.94	117.67	11 41 47	1048.2	-8.00	356.75
100.00	20 52 1	4882.32	26.71	209.73	193.52	76.05	22 13 23	4282.3	24.52	201.61
110.00	12 11 31	1469.11	-14.56	348.30	187.34	121.28	12 36 0	869.1	-10.31	341.77
110.00	22 11 19	4634.19	29.75	189.91	192.54	72.34	23 28 33	4034.2	27.05	181.77

DIFFERENTIAL CORRECTIONS

TDE 1.5638 TRA 3.9059 TC3-2.9261 BAU .7594
RDE -.0337 RRA -.8193 RC3 .3501 FAU .04028
FDE 1.8146 FRA 3.8911 FC3-1.8090 BSP 19856
BDE 1.5642 BRA 3.9909 BC3 2.9470 FSP -1814

MID-COURSE EXECUTION ACCURACY

SGT 6126.3 SGR 1128.8 SG3 508.9
RRT -.9391 RRF -.9303 RTF .9860
SGB 6229.5 R23 .0024 R13 -.9860
SG1 6217.7 SG2 382.3 THA 170.15

ORBIT DETERMINATION ACCURACY

ST 2565.1 SR 328.7 SS 1373.1
CRT -.7066 CRS .6539 CST -.9973
LSA 2917.2 MSA 251.1 SSA 13.9
EL1 2575.6 EL2 231.6 ALF 174.78

LAUNCH DATE OCT 1 1965 FLIGHT TIME 204.00 ARRIVAL DATE APR 23 1966

HELIOCENTRIC CONIC DISTANCE 565.864

RL 149.76 LAL .00 LOL 7.61 VL 27.128 GAL 6.50 AZL 89.45 HCA 257.81 SMA 128.05 ECC .20293 INC .5467 V1 29.752
RP 108.72 LAP -.53 LOP 265.42 VP 37.483 GAP 7.88 AZP 90.12 TAL 152.61 TAP 50.42 RCA 102.07 APO 154.04 V2 34.856
RC 121.557 GL 3.25 GP 21.07 ZAL 38.21 ZAP 148.48 ETS 35.90 ZAE 121.41 ETE 167.12 ZAC 23.88 ETC 189.67 CLP-155.99

PLANETOCENTRIC CONIC

C3 20.598 VHL 4.539 DLA -8.60 RAL 330.48 RAD 6567.8 VEL 11.915 PTH 2.12 VHP 5.833 OPA -2.89 RAP 289.32 ECC 1.3390

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 49 34	1951.60	-12.44	25.48	190.95	115.64	10 22 6	1351.6	-8.89	18.60
90.00	19 37 36	5135.26	25.18	228.75	194.93	76.60	21 3 12	4535.3	23.09	220.70
100.00	11 6 44	1702.66	-13.50	6.64	190.41	116.93	11 35 7	1102.7	-9.78	359.82
100.00	21 3 8	4859.44	26.32	208.14	194.61	75.30	22 24 7	4259.4	24.04	200.09
110.00	12 5 28	1518.77	-16.29	351.10	188.83	120.47	12 30 47	918.8	-12.13	344.47
110.00	22 20 53	4616.09	29.37	188.64	193.59	71.68	23 37 49	4016.1	26.59	180.57

DIFFERENTIAL CORRECTIONS

TDE 1.7101 TRA 4.1265 TC3-2.7761 BAU .7688
RDE -.0113 RRA -.7911 RC3 .2976 FAU .03621
FDE 1.8023 FRA 3.8003 FC3-1.5221 BSP 20110
BDE 1.7102 BRA 4.2016 BC3 2.7920 FSP -1700

MID-COURSE EXECUTION ACCURACY

SGT 6226.5 SGR 1045.6 SG3 478.2
RRT -.9266 RRF -.9170 RTF .9854
SGB 6313.6 R23 .0007 R13 -.9855
SG1 6301.7 SG2 388.4 THA 171.12

ORBIT DETERMINATION ACCURACY

ST 2676.7 SR 303.4 SS 1361.3
CRT -.6283 CRS .5780 CST -.9979
LSA 3007.9 MSA 250.0 SSA 13.9
EL1 2683.6 EL2 235.5 ALF 175.89

LAUNCH DATE OCT 1 1965 FLIGHT TIME 206.00 ARRIVAL DATE APR 25 1966

HELIOCENTRIC CONIC DISTANCE 571.695

RL 149.76 LAL .00 LOL 7.61 VL 27.107 GAL 6.85 AZL 89.27 HCA 260.98 SMA 127.91 ECC .20736 INC .7281 V1 29.752
RP 108.75 LAP -.72 LOP 268.59 VP 37.459 GAP 8.34 AZP 90.11 TAL 151.73 TAP 52.70 RCA 101.39 APO 154.44 V2 34.846
RC 123.903 GL 4.17 GP 19.98 ZAL 37.45 ZAP 150.42 ETS 36.89 ZAE 120.89 ETE 167.98 ZAC 25.00 ETC 186.32 CLP-157.72

PLANETOCENTRIC CONIC

C3 22.081 VHL 4.699 DLA -7.44 RAL 330.95 RAD 6567.9 VEL 11.977 PTH 2.13 VHP 6.061 DPA -3.85 RAP 290.77 ECC 1.3634

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 42 23	2005.55	-14.01	28.66	192.56	114.86	10 15 49	1405.6	-10.54	21.70
90.00	19 48 34	5114.77	24.85	227.34	196.18	75.96	21 13 49	4514.8	22.67	219.34
100.00	11 0 10	1754.66	-15.08	9.69	192.03	116.12	11 29 24	1154.7	-11.45	2.78
100.00	21 13 29	4840.90	25.99	206.86	195.85	74.70	22 34 10	4240.9	23.64	198.85
110.00	12 0 15	1566.51	-17.92	353.84	190.47	119.61	12 26 22	966.5	-13.84	347.10
110.00	22 29 53	4601.82	29.06	187.65	194.79	71.16	23 46 35	4001.8	26.22	179.62

DIFFERENTIAL CORRECTIONS
TDE 1.8569 TRA 4.3530 TC3-2.6244 BAU .7783
RDE .0115 RRA -.7656 RC3 .2541 FAU .03254
FDE 1.7827 FRA 3.7096 FC3-1.2759 BSP .20424
BDE 1.8569 BRA 4.4198 BC3 2.6366 FSP -.1600

MID-COURSE EXECUTION ACCURACY
SGT 6313.5 SGR 971.4 SG3 448.7
RRT -.9125 RRF -.9020 RTF .9850
SGB 6387.8 R23 -.0008 R13 -.9850
SG1 6375.7 SG2 393.4 THA 171.98

ORBIT DETERMINATION ACCURACY
ST 2776.7 SR 282.9 SS 1345.3
CRT -.5376 CRS .4902 CST -.9984
LSA 3088.3 MSA 249.0 SSA 13.8
EL1 2780.9 EL2 238.2 ALF 176.84

LAUNCH DATE OCT 1 1965 FLIGHT TIME 208.00 ARRIVAL DATE APR 27 1966

HELIOCENTRIC CONIC DISTANCE 577.483

RL 149.76 LAL .00 LOL 7.61 VL 27.086 GAL 7.23 AZL 89.09 HCA 264.14 SMA 127.77 ECC .21215 INC .9061 V1 29.752
RP 108.78 LAP -.90 LOP 271.75 VP 37.436 GAP 8.80 AZP 90.09 TAL 150.83 TAP 54.97 RCA 100.67 APO 154.88 V2 34.838
RC 126.245 GL 5.00 GP 19.00 ZAL 36.70 ZAP 152.24 ETS 37.98 ZAE 120.40 ETE 168.72 ZAC 26.30 ETC 183.45 CLP-159.37

PLANETOCENTRIC CONIC

C3 23.742 VHL 4.873 DLA -6.37 RAL 331.45 RAD 6568.0 VEL 12.047 PTH 2.15 VHP 6.305 DPA -4.68 RAP 292.31 ECC 1.3907

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 36 7	2057.21	-15.47	31.76	194.30	114.02	10 10 25	1457.2	-12.09	24.70
90.00	19 58 48	5098.42	24.57	226.22	197.56	75.47	21 23 47	4498.4	22.34	218.26
100.00	10 54 26	1804.57	-16.55	12.66	193.78	115.25	11 24 31	1204.6	-13.02	5.66
100.00	21 23 11	4826.30	25.73	205.86	197.22	74.23	22 43 37	4226.3	23.32	197.89
110.00	11 55 45	1612.60	-19.45	356.54	192.23	118.68	12 22 38	1012.6	-15.47	349.68
110.00	22 38 21	4591.04	28.82	186.90	196.12	70.78	23 54 52	3991.0	25.93	178.92

DIFFERENTIAL CORRECTIONS
TDE 2.0080 TRA 4.5898 TC3-2.4664 BAU .7859
RDE .0340 RRA -.7433 RC3 .2166 FAU .02906
FDE 1.7612 FRA 3.6240 FC3-1.0596 BSP .20719
BDE 2.0083 BRA 4.6496 BC3 2.4759 FSP -.1505

MID-COURSE EXECUTION ACCURACY
SGT 6390.9 SGR 905.3 SG3 421.0
RRT -.8968 RRF -.8855 RTF .9845
SGB 6454.7 R23 -.0019 R13 -.9845
SG1 6442.4 SG2 397.3 THA 172.73

ORBIT DETERMINATION ACCURACY
ST 2869.6 SR 266.9 SS 1328.1
CRT -.4384 CRS .3944 CST -.9988
LSA 3163.6 MSA 247.7 SSA 13.7
EL1 2872.0 EL2 239.7 ALF 177.65

LAUNCH DATE OCT 1 1965 FLIGHT TIME 210.00 ARRIVAL DATE APR 29 1966

HELIOCENTRIC CONIC DISTANCE 583.225

RL 149.76 LAL .00 LOL 7.61 VL 27.064 GAL 7.64 AZL 88.92 HCA 267.31 SMA 127.63 ECC .21732 INC 1.0821 V1 29.752
RP 108.80 LAP -1.08 LOP 274.92 VP 37.413 GAP 9.29 AZP 90.05 TAL 149.92 TAP 57.23 RCA 99.89 APO 155.36 V2 34.830
RC 128.581 GL 5.75 GP 18.11 ZAL 35.98 ZAP 153.95 ETS 39.19 ZAE 119.94 ETE 169.37 ZAC 27.72 ETC 181.02 CLP-160.95

PLANETOCENTRIC CONIC

C3 25.602 VHL 5.060 DLA -5.38 RAL 331.97 RAD 6568.0 VEL 12.123 PTH 2.17 VHP 6.564 DPA -5.39 RAP 293.91 ECC 1.4214

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 30 40	2106.90	-16.82	34.78	196.16	113.12	10 5 47	1506.9	-13.54	27.63
90.00	20 8 24	5085.83	24.36	225.36	199.06	75.09	21 33 10	4485.8	22.07	217.43
100.00	10 49 28	1852.69	-17.93	15.57	195.65	114.33	11 20 21	1252.7	-14.49	8.47
100.00	21 32 17	4815.27	25.52	205.11	198.70	73.89	22 52 32	4215.3	23.07	197.17
110.00	11 51 54	1657.25	-20.88	359.21	194.12	117.70	12 19 31	1057.2	-17.01	352.23
110.00	22 46 20	4583.48	28.65	186.38	197.57	70.51	24 2 44	3983.5	25.73	178.42

DIFFERENTIAL CORRECTIONS
TDE 2.1644 TRA 4.8386 TC3-2.3039 BAU .7911
RDE .0562 RRA -.7236 RC3 .1843 FAU .02574
FDE 1.7392 FRA 3.5443 FC3 -.8705 BSP .20975
BDE 2.1651 BRA 4.8924 BC3 2.3112 FSP -.1414

MID-COURSE EXECUTION ACCURACY
SGT 6459.7 SGR 846.2 SG3 395.0
RRT -.8795 RRF -.8675 RTF .9841
SGB 6514.9 R23 -.0028 R13 -.9841
SG1 6502.6 SG2 400.0 THA 173.40

ORBIT DETERMINATION ACCURACY
ST 2955.9 SR 255.0 SS 1310.7
CRT -.3344 CRS .2942 CST -.9990
LSA 3234.2 MSA 246.1 SSA 13.6
EL1 2957.2 EL2 240.2 ALF 178.34

LAUNCH DATE OCT 1 1965 FLIGHT TIME 212.00 ARRIVAL DATE MAY 1 1966

HELIOCENTRIC CONIC DISTANCE 588.915

RL 149.76 LAL .00 LOL 7.61 VL 27.042 GAL 8.08 AZL 88.74 HCA 270.47 SMA 127.48 ECC .22292 INC 1.2571 V1 29.752
RP 108.82 LAP -1.26 LOP 278.08 VP 37.390 GAP 9.79 AZP 89.99 TAL 149.00 TAP 59.48 RCA 99.06 APO 155.90 V2 34.822
RC 130.911 GL 6.41 GP 17.30 ZAL 35.26 ZAP 155.56 ETS 40.54 ZAE 119.50 ETE 169.94 ZAC 29.25 ETC 178.96 CLP-162.46

PLANETOCENTRIC CONIC

C3 27.687 VHL 5.262 DLA -4.47 RAL 332.50 RAD 6568.1 VEL 12.209 PTH 2.19 VHP 6.839 DPA -6.00 RAP 295.58 ECC 1.4557

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 25 55	2154.87	-18.08	37.74	198.13	112.17	10 1 50	1554.9	-14.91	30.49
90.00	20 17 24	5076.69	24.19	224.74	200.65	74.82	21 42 1	4476.7	21.88	216.84
100.00	10 45 9	1899.24	-19.21	18.44	197.62	113.35	11 16 49	1299.2	-15.89	11.22
100.00	21 40 50	4807.56	25.38	204.58	200.29	73.65	23 0 58	4207.6	22.89	196.66
110.00	11 48 35	1700.66	-22.23	1.86	196.12	116.66	12 16 56	1100.7	-18.48	354.74
110.00	22 53 54	4578.91	28.55	186.06	199.13	70.35	24 10 13	3978.9	25.61	178.12

DIFFERENTIAL CORRECTIONS
TDE 2.3296 TRA 5.1037 TC3-2.1344 BAU .7921
RDE .0777 RRA -.7062 RC3 .1556 FAU .02247
FDE 1.7196 FRA 3.4732 FC3 -.7028 BSP .21123
BDE 2.3309 BRA 5.1523 BC3 2.1401 FSP -.1321

MID-COURSE EXECUTION ACCURACY
SGT 6523.2 SGR 793.1 SG3 371.1
RRT -.8607 RRF -.8481 RTF .9837
SGB 6571.3 R23 -.0034 R13 -.9837
SG1 6559.0 SG2 401.5 THA 174.00

ORBIT DETERMINATION ACCURACY
ST 3039.1 SR 246.4 SS 1294.9
CRT -.2304 CRS .1944 CST -.9993
LSA 3303.6 MSA 244.1 SSA 13.4
EL1 3039.6 EL2 239.8 ALF 178.92

LAUNCH DATE OCT 1 1965 FLIGHT TIME 214.00 ARRIVAL DATE MAY 3 1966

HELIOCENTRIC CONIC DISTANCE 594.547

RL 149.76 LAL .00 LOL 7.61 VL 27.019 GAL 8.55 AZL 88.57 HCA 273.64 SMA 127.33 ECC .22898 INC 1.4322 V1 29.752
RP 108.85 LAP -1.43 LOP 281.25 VP 37.367 GAP 10.31 AZP 89.91 TAL 148.08 TAP 61.71 RCA 98.18 APO 156.49 V2 34.816
RC 133.236 GL 7.00 GP 16.56 ZAL 34.57 ZAP 157.08 ETS 42.06 ZAE 119.09 ETE 170.44 ZAC 30.87 ETC 177.23 CLP-163.93

PLANETOCENTRIC CONIC

C3 30.026 VHL 5.480 DLA -3.63 RAL 333.05 RAD 6568.2 VEL 12.304 PTH 2.22 VHP 7.133 DPA -6.50 RAP 297.31 ECC 1.4941

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 21 47	2201.35	-19.25	40.64	200.19	111.18	9 58 28	1601.3	-16.20	33.30
90.00	20 25 52	5070.75	24.09	224.34	202.35	74.64	21 50 22	4470.8	21.75	216.45
100.00	10 41 26	1944.42	-20.40	21.26	199.70	112.33	11 13 50	1344.4	-17.20	13.93
100.00	21 48 54	4802.90	25.29	204.26	201.97	73.50	23 8 57	4202.9	22.78	196.36
110.00	11 45 47	1742.97	-23.50	4.49	198.22	115.57	12 14 50	1143.0	-19.87	357.23
110.00	23 1 2	4577.12	28.51	185.94	200.79	70.29	24 17 20	3977.1	25.56	178.01

DIFFERENTIAL CORRECTIONS

TDE 2.4960 TRA 5.3782 TC3-1.9717 BAU .7932
RDE .0999 RRA -.6898 RC3 .1317 FAU .01958
FDE 1.6964 FRA 3.4046 FC3 -.5646 BSP 21363
BDE 2.4980 BRA 5.4222 BC3 1.9761 FSP -1243

MID-COURSE EXECUTION ACCURACY

SGT 6575.1 SGR 744.4 SG3 348.3
RRT -.8402 RRF -.8271 RTF .9833
SGB 6617.1 R23 -.0039 R13 -.9833
SG1 6604.9 SG2 401.9 THA 174.55

ORBIT DETERMINATION ACCURACY

ST 3110.2 SR 240.7 SS 1276.7
CRT -.1260 CRS .0941 CST -.9994
LSA 3361.9 MSA 241.9 SSA 13.3
EL1 3110.3 EL2 238.8 ALF 179.44

LAUNCH DATE OCT 1 1965 FLIGHT TIME 216.00 ARRIVAL DATE MAY 5 1966

HELIOCENTRIC CONIC DISTANCE 600.115

RL 149.76 LAL .00 LOL 7.61 VL 26.997 GAL 9.05 AZL 88.39 HCA 276.80 SMA 127.18 ECC .23555 INC 1.6084 V1 29.752
RP 108.87 LAP -1.60 LOP 284.41 VP 37.345 GAP 10.86 AZP 89.81 TAL 147.15 TAP 63.95 RCA 97.23 APO 157.14 V2 34.809
RC 135.553 GL 7.53 GP 15.89 ZAL 33.89 ZAP 158.51 ETS 43.77 ZAE 118.69 ETE 170.88 ZAC 32.56 ETC 175.78 CLP-165.35

PLANETOCENTRIC CONIC

C3 32.653 VHL 5.714 DLA -2.86 RAL 333.59 RAD 6568.3 VEL 12.411 PTH 2.24 VHP 7.445 DPA -6.91 RAP 299.08 ECC 1.5374

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 18 12	2246.49	-20.33	43.51	202.35	110.15	9 55 39	1646.5	-17.40	36.06
90.00	20 33 49	5067.78	24.03	224.14	204.13	74.56	21 58 17	4467.8	21.68	216.25
100.00	10 38 13	1988.39	-21.51	24.05	201.87	111.27	11 11 21	1388.4	-18.43	16.61
100.00	21 56 30	4801.11	25.25	204.14	203.75	73.45	23 16 31	4201.1	22.74	196.24
110.00	11 43 24	1784.33	-24.69	7.11	200.42	114.43	12 13 8	1184.3	-21.19	359.72
110.00	23 7 48	4577.94	28.53	186.00	202.54	70.32	24 24 6	3977.9	25.58	178.06

DIFFERENTIAL CORRECTIONS

TDE 2.6694 TRA 5.6684 TC3-1.8092 BAU .7913
RDE .1219 RRA -.6746 RC3 .1109 FAU .01683
FDE 1.6744 FRA 3.3425 FC3 -.4463 BSP 21573
BDE 2.6722 BRA 5.7084 BC3 1.8126 FSP -1168

MID-COURSE EXECUTION ACCURACY

SGT 6619.9 SGR 699.8 SG3 327.2
RRT -.8179 RRF -.8046 RTF .9831
SGB 6656.8 R23 -.0043 R13 -.9831
SG1 6644.7 SG2 401.1 THA 175.04

ORBIT DETERMINATION ACCURACY

ST 3175.3 SR 237.1 SS 1259.2
CRT -.0265 CRS -.0013 CST -.9995
LSA 3415.7 MSA 239.3 SSA 13.1
EL1 3175.3 EL2 237.0 ALF 179.89

LAUNCH DATE OCT 1 1965 FLIGHT TIME 218.00 ARRIVAL DATE MAY 7 1966

HELIOCENTRIC CONIC DISTANCE 605.610

RL 149.76 LAL .00 LOL 7.61 VL 26.974 GAL 9.59 AZL 88.21 HCA 279.96 SMA 127.03 ECC .24268 INC 1.7869 V1 29.752
RP 108.88 LAP -1.76 LOP 287.57 VP 37.324 GAP 11.43 AZP 89.69 TAL 146.23 TAP 66.18 RCA 96.21 APO 157.86 V2 34.804
RC 137.863 GL 7.99 GP 15.28 ZAL 33.24 ZAP 159.87 ETS 45.70 ZAE 118.32 ETE 171.28 ZAC 34.30 ETC 174.56 CLP-166.73

PLANETOCENTRIC CONIC

C3 35.611 VHL 5.968 DLA -2.15 RAL 334.15 RAD 6568.4 VEL 12.529 PTH 2.27 VHP 7.778 DPA -7.24 RAP 300.88 ECC 1.5861

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 15 7	2290.44	-21.33	46.34	204.59	109.07	9 53 18	1690.4	-18.54	38.79
90.00	20 41 19	5067.60	24.03	224.12	205.99	74.55	22 5 46	4467.6	21.68	216.24
100.00	10 35 28	2031.27	-22.55	26.82	204.13	110.16	11 9 19	1431.3	-19.60	19.27
100.00	22 3 39	4802.00	25.27	204.20	205.60	73.47	23 23 41	4202.0	22.76	196.30
110.00	11 41 25	1824.82	-25.81	9.73	202.71	113.24	12 11 50	1224.8	-22.44	2.19
110.00	23 14 11	4581.21	28.60	186.22	204.38	70.43	24 30 33	3981.2	25.67	178.27

DIFFERENTIAL CORRECTIONS

TDE 2.8502 TRA 5.9759 TC3-1.6485 BAU .7861
RDE .1440 RRA -.6600 RC3 .0928 FAU .01423
FDE 1.6538 FRA 3.2870 FC3 -.3459 BSP 21754
BDE 2.8538 BRA 6.0122 BC3 1.6512 FSP -1097

MID-COURSE EXECUTION ACCURACY

SGT 6657.8 SGR 658.4 SG3 307.5
RRT -.7940 RRF -.7805 RTF .9830
SGB 6690.3 R23 -.0045 R13 -.9829
SG1 6678.4 SG2 399.1 THA 175.49

ORBIT DETERMINATION ACCURACY

ST 3234.1 SR 235.2 SS 1242.6
CRT .0664 CRS -.0903 CST -.9997
LSA 3464.5 MSA 236.3 SSA 12.9
EL1 3234.1 EL2 234.7 ALF .28

LAUNCH DATE OCT 1 1965 FLIGHT TIME 220.00 ARRIVAL DATE MAY 9 1966

HELIOCENTRIC CONIC DISTANCE 611.024

RL 149.76 LAL .00 LOL 7.61 VL 26.951 GAL 10.18 AZL 88.03 HCA 283.12 SMA 126.88 ECC .25043 INC 1.9689 V1 29.752
RP 108.90 LAP -1.92 LOP 290.74 VP 37.302 GAP 12.04 AZP 89.55 TAL 145.31 TAP 68.42 RCA 95.11 APO 158.66 V2 34.799
RC 140.164 GL 8.40 GP 14.73 ZAL 32.60 ZAP 161.14 ETS 47.90 ZAE 117.95 ETE 171.64 ZAC 36.08 ETC 173.54 CLP-168.08

PLANETOCENTRIC CONIC

C3 38.951 VHL 6.241 DLA -1.50 RAL 334.70 RAD 6568.5 VEL 12.662 PTH 2.30 VHP 8.134 DPA -7.49 RAP 302.72 ECC 1.6410

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 12 28	2333.31	-22.26	49.15	206.91	107.97	9 51 22	1733.3	-19.60	41.49
90.00	20 48 20	5070.03	24.07	224.29	207.93	74.62	22 12 51	4470.0	21.73	216.40
100.00	10 33 7	2073.16	-23.50	29.56	206.46	109.02	11 7 40	1473.2	-20.69	21.90
100.00	22 10 23	4805.41	25.33	204.43	207.54	73.58	23 30 28	4205.4	22.84	196.52
110.00	11 39 46	1864.53	-26.85	12.35	205.08	112.00	12 10 51	1264.5	-23.62	4.67
110.00	23 20 13	4586.80	28.73	186.61	206.31	70.63	24 36 40	3986.8	25.82	178.64

DIFFERENTIAL CORRECTIONS

TDE 3.0391 TRA 6.3019 TC3-1.4911 BAU .7775
RDE .1664 RRA -.6457 RC3 .0769 FAU .01176
FDE 1.6347 FRA 3.2380 FC3 -.2615 BSP 21917
BDE 3.0436 BRA 6.3349 BC3 1.4931 FSP -1032

MID-COURSE EXECUTION ACCURACY

SGT 6689.0 SGR 619.8 SG3 289.2
RRT -.7681 RRF -.7546 RTF .9829
SGB 6717.7 R23 -.0046 R13 -.9829
SG1 6706.0 SG2 395.9 THA 175.91

ORBIT DETERMINATION ACCURACY

ST 3286.6 SR 234.5 SS 1227.0
CRT .1519 CRS -.1722 CST -.9997
LSA 3508.3 MSA 232.9 SSA 12.7
EL1 3286.8 EL2 231.7 ALF .62

LAUNCH DATE OCT 2 1965 FLIGHT TIME 70.00 ARRIVAL DATE DEC 11 1965

HELIOCENTRIC CONIC DISTANCE 134.922

RL 149.72 LAL .00 LOL 8.60 VL 17.175 GAL 20.09 AZL 92.15 HCA 42.50 SMA 89.80 ECC .71462 INC 2.1497 V1 29.761
RP 108.08 LAP -1.45 LOP 51.07 VP 31.273 GAP -44.40 AZP 91.59 TAL 171.36 TAP 213.86 RCA 25.63 APO 153.98 V2 35.063
RC 72.025 GL -2.30 GP -4.12 ZAL 64.89 ZAP 30.83 ETS 169.67 ZAE 138.44 ETE 181.71 ZAC 18.73 ETC 75.13 CLP 30.58

PLANETOCENTRIC CONIC

C3 227.301 VHL 15.077 DLA -21.56 RAL 306.62 RAD 6571.3 VEL 18.671 PTH 3.06 VHP 25.209 DPA -27.58 RAP 260.28 ECC 4.7408

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 13 34	2006.49	-14.04	28.72	201.42	114.85	10 47 1	1406.5	-10.57	21.75
90.00	15 55 22	854.04	20.54	321.83	215.40	109.93	16 9 36	254.0	23.07	314.07
100.00	11 19 59	1792.15	-16.19	11.92	200.37	115.48	11 49 51	1192.1	-12.63	4.94
100.00	17 31 39	5831.65	22.78	277.77	216.27	109.90	19 8 50	5231.7	25.28	269.87
110.00	11 56 56	1676.31	-21.48	.37	197.60	117.25	12 24 53	1076.3	-17.66	353.32
110.00	19 11 11	5520.25	28.33	256.35	218.51	109.98	20 43 11	4920.3	30.78	248.01

DIFFERENTIAL CORRECTIONS
TDE -.4839 TRA-1.7506 TC3 -.1176 BAU .3573
RDE-1.1213 RRA .3977 RC3 -.0017 FAU .01225
FDE .2035 FRA .6864 FC3 -.0466 BSP 2140
BDE 1.2213 BRA 1.7952 BC3 .1176 FSP -58

MID-COURSE EXECUTION ACCURACY
SGT 819.3 SGR 456.1 SG3 27.9
RRT -.0966 RRF .0905 RTF -.6232
SGB 937.7 R23 -.0038 R13 .6239
SG1 821.0 SG2 453.0 THA 175.57

ORBIT DETERMINATION ACCURACY
ST 282.8 SR 428.9 SS 249.1
CRT .5598 CRS .5882 CST .9966
LSA 507.7 MSA 260.9 SSA 13.9
ELI 466.4 EL2 215.5 ALF 63.72

LAUNCH DATE OCT 2 1965 FLIGHT TIME 72.00 ARRIVAL DATE DEC 13 1965

HELIOCENTRIC CONIC DISTANCE 140.715

RL 149.72 LAL .00 LOL 8.60 VL 17.889 GAL 19.24 AZL 91.79 HCA 45.70 SMA 91.35 ECC .68743 INC 1.7856 V1 29.761
RP 108.04 LAP -1.28 LOP 54.28 VP 31.685 GAP -42.38 AZP 91.25 TAL 170.60 TAP 216.30 RCA 28.55 APO 154.15 V2 35.076
RC 69.906 GL -2.10 GP -4.24 ZAL 63.62 ZAP 29.34 ETS 169.04 ZAE 138.66 ETE 182.29 ZAC 18.58 ETC 80.25 CLP 29.06

PLANETOCENTRIC CONIC

C3 206.906 VHL 14.384 DLA -21.05 RAL 307.89 RAD 6571.2 VEL 18.117 PTH 3.02 VHP 24.234 DPA -27.90 RAP 262.15 ECC 4.4051

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 12 25	2015.25	-14.29	29.24	201.69	114.71	10 46 1	1415.2	-10.84	22.26
90.00	16 6 41	817.55	21.37	319.48	215.73	109.03	16 20 19	217.6	23.77	311.63
100.00	11 19 35	1798.51	-16.38	12.30	200.68	115.36	11 49 33	1198.5	-12.83	5.30
100.00	17 42 13	5797.57	23.55	275.53	216.54	108.96	19 18 50	5197.6	25.92	267.54
110.00	11 57 51	1678.55	-21.55	.50	197.98	117.20	12 25 50	1078.5	-17.73	353.45
110.00	19 20 26	5490.29	29.01	254.29	218.63	108.93	20 51 56	4890.3	31.31	245.84

DIFFERENTIAL CORRECTIONS
TDE -.4974 TRA-1.7639 TC3 -.1253 BAU .3467
RDE-1.0762 RRA .4012 RC3 -.0028 FAU .01235
FDE .2197 FRA .7133 FC3 -.0517 BSP 2264
BDE 1.1856 BRA 1.8089 BC3 .1254 FSP -64

MID-COURSE EXECUTION ACCURACY
SGT 857.9 SGR 461.7 SG3 30.2
RRT -.1037 RRF .0979 RTF -.6427
SGB 974.3 R23 -.0047 R13 .6434
SG1 859.8 SG2 458.2 THA 175.53

ORBIT DETERMINATION ACCURACY
ST 300.6 SR 431.8 SS 265.0
CRT .5650 CRS .6006 CST .9965
LSA 524.1 MSA 268.6 SSA 14.1
ELI 475.5 EL2 225.3 ALF 61.61

LAUNCH DATE OCT 2 1965 FLIGHT TIME 74.00 ARRIVAL DATE DEC 15 1965

HELIOCENTRIC CONIC DISTANCE 146.608

RL 149.72 LAL .00 LOL 8.60 VL 18.557 GAL 18.42 AZL 91.46 HCA 48.91 SMA 92.91 ECC .66065 INC 1.4590 V1 29.761
RP 108.00 LAP -1.10 LOP 57.49 VP 32.081 GAP -40.47 AZP 90.96 TAL 169.85 TAP 218.75 RCA 31.53 APO 154.29 V2 35.089
RC 67.813 GL -1.87 GP -4.37 ZAL 62.39 ZAP 27.87 ETS 168.32 ZAE 138.96 ETE 182.94 ZAC 18.60 ETC 85.48 CLP 27.56

PLANETOCENTRIC CONIC

C3 188.435 VHL 13.727 DLA -20.53 RAL 309.10 RAD 6571.0 VEL 17.600 PTH 2.97 VHP 23.295 DPA -28.21 RAP 264.06 ECC 4.1012

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 11 1	2023.40	-14.52	29.73	201.86	114.58	10 44 44	1423.4	-11.08	22.73
90.00	16 17 42	780.26	22.18	317.04	215.90	108.07	16 30 43	180.3	24.44	309.10
100.00	11 18 53	1804.37	-16.55	12.65	200.88	115.25	11 48 57	1204.4	-13.01	5.64
100.00	17 52 31	5762.56	24.31	273.21	216.65	107.96	19 28 34	5162.6	26.53	265.12
110.00	11 58 26	1680.39	-21.61	.62	198.24	117.15	12 26 27	1080.4	-17.80	353.56
110.00	19 29 27	5459.31	29.67	252.12	218.60	107.80	21 0 26	4859.3	31.82	243.56

DIFFERENTIAL CORRECTIONS
TDE -.5082 TRA-1.7757 TC3 -.1328 BAU .3347
RDE-1.0314 RRA .4036 RC3 -.0042 FAU .01248
FDE .2362 FRA .7406 FC3 -.0573 BSP 2440
BDE 1.1498 BRA 1.8209 BC3 .1329 FSP -70

MID-COURSE EXECUTION ACCURACY
SGT 896.8 SGR 466.7 SG3 32.7
RRT -.1120 RRF .1061 RTF -.6617
SGB 1011.0 R23 -.0051 R13 .6624
SG1 898.9 SG2 462.7 THA 175.46

ORBIT DETERMINATION ACCURACY
ST 318.6 SR 433.9 SS 281.4
CRT .5680 CRS .6115 CST .9962
LSA 541.0 MSA 275.8 SSA 14.3
ELI 484.3 EL2 234.9 ALF 59.46

LAUNCH DATE OCT 2 1965 FLIGHT TIME 76.00 ARRIVAL DATE DEC 17 1965

HELIOCENTRIC CONIC DISTANCE 152.597

RL 149.72 LAL .00 LOL 8.60 VL 19.183 GAL 17.63 AZL 91.16 HCA 52.12 SMA 94.47 ECC .63438 INC 1.1626 V1 29.761
RP 107.96 LAP -.92 LOP 60.71 VP 32.461 GAP -38.65 AZP 90.71 TAL 169.11 TAP 221.23 RCA 34.54 APO 154.40 V2 35.101
RC 65.751 GL -1.62 GP -4.51 ZAL 61.22 ZAP 26.43 ETS 167.52 ZAE 139.36 ETE 183.65 ZAC 18.79 ETC 90.73 CLP 26.07

PLANETOCENTRIC CONIC

C3 171.688 VHL 13.103 DLA -20.00 RAL 310.23 RAD 6570.9 VEL 17.118 PTH 2.93 VHP 22.388 DPA -28.51 RAP 266.00 ECC 3.8256

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 9 20	2030.97	-14.73	30.18	201.92	114.46	10 43 11	1431.0	-11.31	23.17
90.00	16 28 26	742.13	22.96	314.52	215.91	107.04	16 40 49	142.1	25.08	306.49
100.00	11 17 53	1809.76	-16.70	12.97	200.97	115.16	11 48 2	1209.8	-13.18	5.96
100.00	18 2 35	5726.62	25.04	270.79	216.61	106.89	19 38 1	5126.6	27.11	262.60
110.00	11 58 42	1681.85	-21.65	.70	198.40	117.12	12 26 44	1081.8	-17.85	353.64
110.00	19 38 15	5427.29	30.32	249.85	218.40	106.60	21 8 42	4827.3	32.29	241.19

DIFFERENTIAL CORRECTIONS
TDE -.5204 TRA-1.7899 TC3 -.1408 BAU .3234
RDE -.9868 RRA .4050 RC3 -.0058 FAU .01262
FDE .2534 FRA .7688 FC3 -.0636 BSP 2567
BDE 1.1156 BRA 1.8352 BC3 .1409 FSP -77

MID-COURSE EXECUTION ACCURACY
SGT 938.9 SGR 471.1 SG3 35.4
RRT -.1201 RRF .1148 RTF -.6798
SGB 1050.5 R23 -.0064 R13 .6806
SG1 941.2 SG2 466.6 THA 175.42

ORBIT DETERMINATION ACCURACY
ST 338.1 SR 435.2 SS 298.5
CRT .5713 CRS .6214 CST .9959
LSA 559.4 MSA 282.4 SSA 14.5
ELI 493.9 EL2 244.5 ALF 57.03

LAUNCH DATE OCT 2 1965 FLIGHT TIME 78.00 ARRIVAL DATE DEC 19 1965

HELIOCENTRIC CONIC DISTANCE 158.674

RL	149.72	LAL	.00	LOL	8.60	VL	19.769	GAL	16.87	AZL	90.89	HCA	55.33	SMA	96.03	ECC	.60871	INC	.8908	V1	29.761
RP	107.92	LAP	-.73	LOP	63.92	VP	32.824	GAP	-36.91	AZP	90.51	TAL	168.39	TAP	223.72	RCA	37.58	APO	154.48	V2	35.114
RC	63.722	GL	-1.35	GP	-4.66	ZAL	60.10	ZAP	25.01	ETS	166.60	ZAE	139.85	ETE	184.45	ZAC	19.14	ETC	95.89	CLP	24.60

PLANETOCENTRIC CONIC

C3	156.489	VHL	12.510	DLA	-19.44	RAL	311.30	RAD	6570.7	VEL	16.668	PTH	2.89	VHP	21.513	DPA	-28.80	RAP	267.97	ECC	3.5754

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 7 22	2037.99	-14.93	30.60	201.88	114.34	10 41 20	1438.0	-11.52	23.58
90.00	16 38 54	703.13	23.71	311.91	215.76	105.94	16 50 37	103.1	25.68	303.79
100.00	11 16 34	1814.68	-16.85	13.27	200.96	115.06	11 46 49	1214.7	-13.33	6.24
100.00	18 12 23	5689.71	25.74	268.27	216.40	105.74	19 47 13	5089.7	27.65	259.99
110.00	11 58 37	1682.93	-21.69	.77	198.46	117.09	12 26 40	1082.9	-17.88	353.71
110.00	19 46 50	5394.23	30.94	247.47	218.04	105.32	21 16 44	4794.2	32.73	238.71

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TDE	-.5299	TRA	-1.8024	TC3	-.1482	BAU	.3106	SGT	981.3	SGR	474.9	SG3	38.3	ST	357.8	SR	435.7	SS	316.1
RDE	-.9425	RRA	.4054	RC3	.0078	FAU	.01279	RRT	-.1295	RRF	.1243	RTF	-.6974	CRT	.5727	CRS	.6301	CST	.9955
FDE	.2709	FRA	.7975	FC3	-.0707	BSP	2745	SGB	1090.1	R23	-.0072	R13	.6982	LSA	578.3	MSA	288.3	SSA	14.7
BDE	1.0813	BRA	1.8474	BC3	.1485	FSP	-85	SG1	983.7	SG2	469.7	THA	175.35	ELI	503.4	EL2	253.9	ALF	54.55

LAUNCH DATE OCT 2 1965 FLIGHT TIME 80.00 ARRIVAL DATE DEC 21 1965

HELIOCENTRIC CONIC DISTANCE 164.835

RL	149.72	LAL	.00	LOL	8.60	VL	20.317	GAL	16.14	AZL	90.64	HCA	58.55	SMA	97.58	ECC	.58370	INC	.6391	V1	29.761
RP	107.89	LAP	-.55	LOP	67.14	VP	33.170	GAP	-35.26	AZP	90.33	TAL	167.70	TAP	226.25	RCA	40.62	APO	154.54	V2	35.126
RC	61.731	GL	-1.04	GP	-4.83	ZAL	59.04	ZAP	23.62	ETS	165.55	ZAE	140.43	ETE	185.35	ZAC	19.66	ETC	100.87	CLP	23.15

PLANETOCENTRIC CONIC

C3	142.686	VHL	11.945	DLA	-18.87	RAL	312.29	RAD	6570.5	VEL	16.249	PTH	2.85	VHP	20.667	DPA	-29.08	RAP	269.97	ECC	3.3483

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 5 8	2044.52	-15.11	30.99	201.74	114.23	10 39 12	1444.5	-11.71	23.96
90.00	16 49 6	663.24	24.43	309.21	215.45	104.77	17 0 9	63.2	26.23	301.00
100.00	11 14 57	1819.20	-16.98	13.54	200.85	114.98	11 45 17	1219.2	-13.47	6.51
100.00	18 21 57	5651.83	26.42	265.66	216.02	104.52	19 56 9	5051.8	28.15	257.29
110.00	11 58 12	1683.68	-21.71	.82	198.40	117.07	12 26 16	1083.7	-17.91	353.75
110.00	19 55 12	5360.11	31.53	244.99	217.50	103.96	21 24 32	4760.1	33.12	236.12

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TDE	-.5412	TRA	-1.8173	TC3	-.1563	BAU	.2988	SGT	1027.3	SGR	478.0	SG3	41.5	ST	379.3	SR	435.4	SS	334.7
RDE	-.8986	RRA	.4051	RC3	-.0102	FAU	.01296	RRT	-.1388	RRF	.1345	RTF	-.7141	CRT	.5745	CRS	.6380	CST	.9950
FDE	.2894	FRA	.8275	FC3	-.0787	BSP	2869	SGB	1133.1	R23	-.0089	R13	.7150	LSA	599.3	MSA	293.4	SSA	14.9
BDE	1.0490	BRA	1.8619	BC3	.1566	FSP	-93	SG1	1030.1	SG2	472.2	THA	175.32	EL1	514.1	EL2	262.9	ALF	51.77

LAUNCH DATE OCT 2 1965 FLIGHT TIME 82.00 ARRIVAL DATE DEC 23 1965

HELIOCENTRIC CONIC DISTANCE 171.074

RL	149.72	LAL	.00	LOL	8.60	VL	20.831	GAL	15.43	AZL	90.40	HCA	61.76	SMA	99.12	ECC	.55940	INC	.4040	V1	29.761
RP	107.85	LAP	-.36	LOP	70.36	VP	33.500	GAP	-33.68	AZP	90.19	TAL	167.03	TAP	228.79	RCA	43.67	APO	154.57	V2	35.138
RC	59.781	GL	-.71	GP	-5.01	ZAL	58.03	ZAP	22.26	ETS	164.34	ZAE	141.12	ETE	186.35	ZAC	20.34	ETC	105.59	CLP	21.71

PLANETOCENTRIC CONIC

C3	130.142	VHL	11.408	DLA	-18.28	RAL	313.22	RAD	6570.4	VEL	15.858	PTH	2.81	VHP	19.850	DPA	-29.35	RAP	271.99	ECC	3.1418

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 2 35	2050.62	-15.28	31.36	201.49	114.13	10 36 46	1450.6	-11.90	24.32
90.00	16 59 2	622.41	25.11	306.41	214.97	103.53	17 9 25	22.4	26.73	298.11
100.00	11 13 1	1823.35	-17.10	13.79	200.63	114.90	11 43 24	1223.4	-13.60	6.75
100.00	18 31 17	5612.95	27.05	262.94	215.49	103.23	20 4 50	5013.0	28.60	254.49
110.00	11 57 27	1684.14	-21.73	.84	198.24	117.06	12 25 31	1084.1	-17.92	353.78
110.00	20 3 21	5324.93	32.07	242.39	216.80	102.51	21 32 6	4724.9	33.46	233.43

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TDE	-.5492	TRA	-1.8294	TC3	-.1635	BAU	.2853	SGT	1073.0	SGR	480.6	SG3	44.9	ST	400.6	SR	434.2	SS	353.7
RDE	-.8551	RRA	.4039	RC3	-.0130	FAU	.01318	RRT	-.1497	RRF	.1458	RTF	-.7304	CRT	.5741	CRS	.6448	CST	.9944
FDE	.3081	FRA	.8581	FC3	-.0877	BSP	3061	SGB	1175.7	R23	-.0100	R13	.7313	LSA	620.6	MSA	297.9	SSA	15.1
BDE	1.0163	BRA	1.8734	BC3	.1640	FSP	-103	SG1	1076.0	SG2	473.8	THA	175.24	EL1	524.7	EL2	271.4	ALF	49.00

LAUNCH DATE OCT 2 1965 FLIGHT TIME 84.00 ARRIVAL DATE DEC 25 1965

HELIOCENTRIC CONIC DISTANCE 177.384

RL	149.72	LAL	.00	LOL	8.60	VL	21.312	GAL	14.75	AZL	90.18	HCA	64.98	SMA	100.65	ECC	.53586	INC	.1821	V1	29.761
RP	107.81	LAP	-.17	LOP	73.58	VP	33.813	GAP	-32.17	AZP	90.08	TAL	166.38	TAP	231.37	RCA	46.71	APO	154.58	V2	35.149
RC	57.879	GL	-.35	GP	-5.21	ZAL	57.08	ZAP	20.92	ETS	162.94	ZAE	141.91	ETE	187.49	ZAC	21.17	ETC	110.01	CLP	20.28

PLANETOCENTRIC CONIC

C3	118.739	VHL	10.897	DLA	-17.66	RAL	314.08	RAD	6570.2	VEL	15.494	PTH	2.76	VHP	19.059	DPA	-29.62	RAP	274.04	ECC	2.9541

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 59 43	2056.39	-15.44	31.71	201.15	114.03	10 34 0	1456.4	-12.07	24.66
90.00	17 8 44	5868.65	25.75	281.42	214.33	102.21	18 46 33	5268.7	27.17	273.04
100.00	11 10 44	1827.23	-17.21	14.03	200.31	114.83	11 41 11	1227.2	-13.72	6.97
100.00	18 40 24	5573.04	27.64	260.13	214.79	101.86	20 13 17	4973.0	29.00	251.58
110.00	11 56 20	1684.37	-21.73	.86	197.98	117.06	12 24 24	1084.4	-17.93	353.79
110.00	20 11 18	5288.66	32.58	239.68	215.94	100.98	21 39 27	4688.7	33.75	230.64

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TDE	-.5567	TRA	-1.8413	TC3	-.1703	BAU	.2716	SGT	1120.7	SGR	482.5	SG3	48.6	ST	422.7	SR	432.2	SS	373.5
RDE	-.8121	RRA	.4021	RC3	-.0162	FAU	.01342	RRT	-.1615	RRF	.1581	RTF	-.7460	CRT	.5731	CRS	.6507	CST	.9937
FDE	.3277	FRA	.8897	FC3	-.0979	BSP	3252	SGB	1220.1	R23	-.0114	R13	.7469	LSA	643.2	MSA	301.6	SSA	15.2
BDE	.9845	BRA	1.8847	BC3	.1711	FSP	-113	SG1	1123.9	SG2	474.8	THA	175.16	EL1	536.2	EL2	279.2	ALF	46.10

LAUNCH DATE OCT 2 1965 FLIGHT TIME 86.00 ARRIVAL DATE DEC 27 1965

DISTANCE 183.761

HELIOCENTRIC CONIC

RL 149.72 LAL .00 LOL 8.60 VL 21.762 GAL 14.09 AZL 89.97 HCA 68.21 SMA 102.15 ECC .51311 INC .0210 V1 29.761
RP 107.78 LAP .03 LOP 76.80 VP 34.110 GAP -30.73 AZP 89.99 TAL 165.77 TAP 233.98 RCA 49.74 APO 154.56 V2 35.160
RC 56.028 GL .06 GP -5.43 ZAL 56.18 ZAP 19.60 ETS 161.30 ZAE 142.80 ETE 188.77 ZAC 22.14 ETC 114.08 CLP 18.87

PLANETOCENTRIC CONIC

C3 108.371 VHL 10.410 DLA -17.03 RAL 314.86 RAD 6570.1 VEL 15.156 PTH 2.72 VHP 18.295 DPA -29.87 RAP 276.11 ECC 2.7835

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 56 31	2061.91	-15.60	32.04	200.70	113.94	10 30 53	1461.9	-12.23	24.98
90.00	17 18 13	5825.85	26.33	278.42	213.53	100.82	18 55 19	5225.9	27.56	269.97
100.00	11 8 6	1830.91	-17.31	14.25	199.89	114.76	11 38 37	1230.9	-13.83	7.19
100.00	18 49 19	5532.08	28.18	257.20	213.92	100.41	20 21 31	4932.1	29.33	248.59
110.00	11 54 51	1684.46	-21.74	.86	197.61	117.06	12 22 56	1084.5	-17.93	353.80
110.00	20 19 3	5251.31	33.03	236.86	214.90	99.37	21 46 34	4651.3	33.97	227.75

DIFFERENTIAL CORRECTIONS

TDE -.5633 TRA-1.8526 TC3 -.1767 BAU .2577
RDE -.7696 RRA .3997 RC3 -.0201 FAU .01369
FDE .3481 FRA .9226 FC3 -.1094 BSP 3450
BDE .9537 BRA 1.8953 BC3 .1779 FSP -124

MID-COURSE EXECUTION ACCURACY

SGT 1169.9 SGR 483.8 SG3 52.6
RRT -.1744 RRF .1716 RTF -.7609
SGB 1266.0 R23 -.0130 R13 .7618
SG1 1173.6 SG2 474.9 THA 175.07

ORBIT DETERMINATION ACCURACY

ST 445.6 SR 429.1 SS 394.0
CRT .5713 CRS .6557 CST .9929
LSA 667.2 MSA 304.4 SSA 15.4
EL1 548.5 EL2 286.2 ALF 43.11

LAUNCH DATE OCT 2 1965 FLIGHT TIME 88.00 ARRIVAL DATE DEC 29 1965

DISTANCE 190.200

HELIOCENTRIC CONIC

RL 149.72 LAL .00 LOL 8.60 VL 22.184 GAL 13.45 AZL 89.77 HCA 71.43 SMA 103.63 ECC .49118 INC .2280 V1 29.761
RP 107.75 LAP .22 LOP 80.03 VP 34.391 GAP -29.34 AZP 89.93 TAL 165.18 TAP 236.62 RCA 52.73 APO 154.53 V2 35.171
RC 54.237 GL .50 GP -5.67 ZAL 55.34 ZAP 18.32 ETS 159.38 ZAE 143.80 ETE 190.24 ZAC 23.23 ETC 117.80 CLP 17.45

PLANETOCENTRIC CONIC

C3 98.946 VHL 9.947 DLA -16.37 RAL 315.58 RAD 6569.9 VEL 14.842 PTH 2.68 VHP 17.556 DPA -30.12 RAP 278.20 ECC 2.6284

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 52 57	2067.34	-15.74	32.37	200.16	113.84	10 27 25	1467.3	-12.39	25.30
90.00	17 27 29	5782.02	26.85	275.32	212.57	99.34	19 3 51	5182.0	27.87	266.80
100.00	11 5 6	1834.53	-17.41	14.47	199.37	114.69	11 35 41	1234.5	-13.94	7.40
100.00	18 58 2	5490.05	28.66	254.17	212.90	98.88	20 29 32	4890.1	29.59	245.49
110.00	11 53 0	1684.50	-21.74	.87	197.15	117.05	12 21 4	1084.5	-17.94	353.80
110.00	20 26 37	5212.85	33.41	233.92	213.71	97.67	21 53 30	4612.8	34.11	224.75

DIFFERENTIAL CORRECTIONS

TDE -.5718 TRA-1.8658 TC3 -.1835 BAU .2449
RDE -.7275 RRA .3970 RC3 -.0245 FAU .01398
FDE .3698 FRA .9571 FC3 -.1223 BSP 3592
BDE .9253 BRA 1.9076 BC3 .1652 FSP -136

MID-COURSE EXECUTION ACCURACY

SGT 1223.3 SGR 484.5 SG3 57.0
RRT -.1876 RRF .1864 RTF -.7748
SGB 1315.7 R23 -.0156 R13 .7757
SG1 1227.2 SG2 474.4 THA 175.00

ORBIT DETERMINATION ACCURACY

ST 470.6 SR 425.1 SS 415.8
CRT .5698 CRS .6601 CST .9921
LSA 693.6 MSA 306.3 SSA 15.6
EL1 563.0 EL2 292.1 ALF 39.93

LAUNCH DATE OCT 2 1965 FLIGHT TIME 90.00 ARRIVAL DATE DEC 31 1965

DISTANCE 196.694

HELIOCENTRIC CONIC

RL 149.72 LAL .00 LOL 8.60 VL 22.579 GAL 12.84 AZL 89.58 HCA 74.66 SMA 105.08 ECC .47008 INC .4219 V1 29.761
RP 107.72 LAP .41 LOP 83.26 VP 34.658 GAP -28.01 AZP 89.89 TAL 164.63 TAP 239.29 RCA 55.68 APO 154.47 V2 35.181
RC 52.511 GL .98 GP -5.93 ZAL 54.55 ZAP 17.08 ETS 157.10 ZAE 144.91 ETE 191.91 ZAC 24.43 ETC 121.17 CLP 16.05

PLANETOCENTRIC CONIC

C3 90.377 VHL 9.507 DLA -15.68 RAL 316.23 RAD 6569.8 VEL 14.551 PTH 2.64 VHP 16.841 DPA -30.37 RAP 280.31 ECC 2.4874

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 49 1	2072.78	-15.89	32.70	199.52	113.75	10 23 33	1472.8	-12.55	25.62
90.00	17 36 35	5737.11	27.31	272.11	211.45	97.80	19 12 12	5137.1	28.10	263.53
100.00	11 1 43	1838.21	-17.52	14.69	198.76	114.61	11 32 21	1238.2	-14.05	7.62
100.00	19 6 34	5446.92	29.07	251.03	211.72	97.28	20 37 21	4846.9	29.78	242.29
110.00	11 50 44	1684.62	-21.74	.87	196.59	117.05	12 18 49	1084.6	-17.94	353.81
110.00	20 34 1	5173.28	33.73	230.88	212.35	95.90	22 0 14	4573.3	34.18	221.66

DIFFERENTIAL CORRECTIONS

TDE -.5773 TRA-1.8759 TC3 -.1887 BAU .2308
RDE -.6861 RRA .3940 RC3 -.0296 FAU .01432
FDE .3923 FRA .9928 FC3 -.1371 BSP 3799
BDE .8966 BRA 1.9168 BC3 .1910 FSP -149

MID-COURSE EXECUTION ACCURACY

SGT 1276.2 SGR 484.7 SG3 61.7
RRT -.2029 RRF .2028 RTF -.7883
SGB 1365.2 R23 -.0177 R13 .7893
SG1 1280.6 SG2 473.0 THA 174.89

ORBIT DETERMINATION ACCURACY

ST 495.3 SR 420.1 SS 438.3
CRT .5663 CRS .6635 CST .9912
LSA 720.5 MSA 307.4 SSA 15.7
EL1 577.6 EL2 296.9 ALF 36.86

LAUNCH DATE OCT 2 1965 FLIGHT TIME 92.00 ARRIVAL DATE JAN 2 1966

DISTANCE 203.239

HELIOCENTRIC CONIC

RL 149.72 LAL .00 LOL 8.60 VL 22.948 GAL 12.25 AZL 89.39 HCA 77.89 SMA 106.49 ECC .44982 INC .6099 V1 29.761
RP 107.69 LAP .60 LOP 86.48 VP 34.909 GAP -26.72 AZP 89.87 TAL 164.11 TAP 242.00 RCA 58.59 APO 154.40 V2 35.191
RC 50.858 GL 1.51 GP -6.21 ZAL 53.82 ZAP 15.88 ETS 154.39 ZAE 146.11 ETE 193.84 ZAC 25.73 ETC 124.20 CLP 14.65

PLANETOCENTRIC CONIC

C3 82.590 VHL 9.088 DLA -14.96 RAL 316.80 RAD 6569.6 VEL 14.281 PTH 2.60 VHP 16.149 DPA -30.61 RAP 282.43 ECC 2.3592

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 44 39	2078.42	-16.05	33.04	198.80	113.65	10 19 18	1478.4	-12.72	25.95
90.00	17 45 30	5691.11	27.69	268.80	210.18	96.18	19 20 21	5091.1	28.26	260.18
100.00	10 57 54	1842.10	-17.63	14.93	198.06	114.54	11 28 36	1242.1	-14.17	7.84
100.00	19 14 56	5402.67	29.41	247.78	210.39	95.60	20 44 59	4802.7	29.88	239.01
110.00	11 48 4	1684.95	-21.75	.89	195.94	117.04	12 16 9	1085.0	-17.95	353.82
110.00	20 41 15	5132.58	33.97	227.72	210.84	94.04	22 6 48	4532.6	34.16	218.48

DIFFERENTIAL CORRECTIONS

TDE -.5823 TRA-1.8852 TC3 -.1929 BAU .2166
RDE -.6452 RRA .3908 RC3 -.0356 FAU .01469
FDE .4161 FRA 1.0302 FC3 -.1540 BSP 4005
BDE .8691 BRA 1.9253 BC3 .1962 FSP -164

MID-COURSE EXECUTION ACCURACY

SGT 1330.9 SGR 484.4 SG3 66.9
RRT -.2198 RRF .2210 RTF -.8012
SGB 1416.3 R23 -.0201 R13 .8022
SG1 1335.7 SG2 470.9 THA 174.77

ORBIT DETERMINATION ACCURACY

ST 520.7 SR 413.9 SS 461.8
CRT .5620 CRS .6661 CST .9902
LSA 748.9 MSA 307.6 SSA 15.8
EL1 593.5 EL2 300.4 ALF 33.80

LAUNCH DATE OCT 2 1965 FLIGHT TIME 94.00 ARRIVAL DATE JAN 4 1966

HELIOCENTRIC CONIC DISTANCE 209.830

RL	149.72	LAL	.00	LOL	8.60	VL	23.293	GAL	11.68	AZL	89.21	HCA	81.12	SMA	107.88	ECC	.43041	INC	.7934
RP	107.66	LAP	.78	LOP	89.72	VP	35.146	GAP	-25.49	AZP	89.88	TAL	163.63	TAP	244.75	RCA	61.45	APO	154.31
RC	49.288	GL	2.08	GP	-6.53	ZAL	53.16	ZAP	14.74	ETS	151.16	ZAE	147.41	ETE	196.08	ZAC	27.12	ETC	126.92

VI	29.761																		
V2	35.200																		
CLP	13.25																		

PLANETOCENTRIC CONIC

C3	75.517	VHL	8.690	DLA	-14.21	RAL	317.30	RAD	6569.5	VEL	14.031	PTH	2.56	VHP	15.480	DPA	-30.85	RAP	284.57

ECC	2.2428																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 39 52	2084.43	-16.21	33.41	197.98	113.54	10 14 36	1484.4	-12.89	26.30
90.00	17 54 16	5643.98	27.99	265.38	208.77	94.49	19 28 20	5044.0	28.32	256.73
100.00	10 53 39	1846.37	-17.75	15.19	197.27	114.45	11 24 25	1246.4	-14.30	8.09
100.00	19 23 10	5357.27	29.67	244.43	208.91	93.85	20 52 27	4757.3	29.88	235.63
110.00	11 44 58	1685.66	-21.77	.94	195.21	117.03	12 13 3	1085.7	-17.97	353.87
110.00	20 48 21	5090.75	34.13	224.47	209.18	92.12	22 13 12	4490.8	34.04	215.22

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TDE	-.5866	TRA	-1.8933	TC3	-.1959	BAU	.2024	SGT	1386.9	SGR	483.7	SG3	72.5	ST	546.7	SR	406.6	SS	486.5
RDE	-.6048	RRA	.3875	RC3	-.0425	FAU	.01510	RRT	-.2385	RRF	.2412	RTF	-.8133	CRT	.5565	CRS	.6676	CST	.9891
FDE	.4412	FRA	1.0694	FC3	-.1731	BSP	4220	SGB	1468.9	R23	-.0229	R13	.8145	LSA	778.7	MSA	307.0	SSA	16.0
BDE	.8425	BRA	1.9325	BC3	.2004	FSP	-180	SG1	1392.4	SG2	467.9	THA	174.64	ELI	610.5	EL2	302.5	ALF	30.82

LAUNCH DATE OCT 2 1965 FLIGHT TIME 96.00 ARRIVAL DATE JAN 6 1966

HELIOCENTRIC CONIC DISTANCE 216,461

RL	149.72	LAL	.00	LOL	8.60	VL	23.616	GAL	11.13	AZL	89.03	HCA	84.35	SMA	109.22	ECC	.41184	INC	.9739
RP	107.63	LAP	.97	LOP	92.95	VP	35.370	GAP	-24.31	AZP	89.90	TAL	163.19	TAP	247.54	RCA	64.24	APO	154.20
RC	47.809	GL	2.72	GP	-6.88	ZAL	52.55	ZAP	13.67	ETS	147.27	ZAE	148.80	ETE	198.70	ZAC	28.58	ETC	129.35

VI	29.761																		
V2	35.209																		
CLP	11.85																		

PLANETOCENTRIC CONIC

C3	69.097	VHL	8.312	DLA	-13.42	RAL	317.72	RAD	6569.3	VEL	13.800	PTH	2.52	VHP	14.833	DPA	-31.09	RAP	286.72

ECC	2.1372																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 34 36	2091.02	-16.39	33.81	197.09	113.42	10 9 27	1491.0	-13.08	26.69
90.00	18 2 55	5595.68	28.19	261.86	207.22	92.74	19 36 11	4995.7	28.28	253.20
100.00	10 48 55	1851.23	-17.89	15.48	196.40	114.36	11 19 47	1251.2	-14.45	8.38
100.00	19 31 17	5310.70	29.83	240.98	207.30	92.04	20 59 48	4710.7	29.79	232.18
110.00	11 41 23	1686.91	-21.81	1.01	194.40	117.00	12 9 30	1086.9	-18.02	353.94
110.00	20 55 19	5047.78	34.18	221.11	207.40	90.14	22 19 26	4447.8	33.82	211.89

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TDE	-.5905	TRA	-1.9006	TC3	-.1975	BAU	.1883	SGT	1444.8	SGR	482.6	SG3	78.6	ST	573.6	SR	398.0	SS	512.5
RDE	-.5651	RRA	.3844	RC3	-.0504	FAU	.01556	RRT	-.2593	RRF	.2637	RTF	-.8249	CRT	.5499	CRS	.6682	CST	.9879
FDE	.4680	FRA	1.1106	FC3	-.1950	BSP	4439	SGB	1523.2	R23	-.0261	R13	.8261	LSA	810.2	MSA	305.5	SSA	16.1
BDE	.8173	BRA	1.9391	BC3	.2038	FSP	-198	SG1	1450.8	SG2	464.2	THA	174.48	ELI	628.9	EL2	303.2	ALF	27.90

LAUNCH DATE OCT 2 1965 FLIGHT TIME 98.00 ARRIVAL DATE JAN 8 1966

HELIOCENTRIC CONIC DISTANCE 223.129

RL	149.72	LAL	.00	LOL	8.60	VL	23.918	GAL	10.60	AZL	88.85	HCA	87.59	SMA	110.53	ECC	.39412	INC	1.1524
RP	107.61	LAP	1.15	LOP	96.18	VP	35.580	GAP	-23.16	AZP	89.95	TAL	162.78	TAP	250.37	RCA	66.97	APO	154.09
RC	46.433	GL	3.41	GP	-7.26	ZAL	52.01	ZAP	12.69	ETS	142.60	ZAE	150.24	ETE	201.76	ZAC	30.11	ETC	131.52

VI	29.761																		
V2	35.217																		
CLP	10.44																		

PLANETOCENTRIC CONIC

C3	63.276	VHL	7.955	DLA	-12.59	RAL	318.07	RAD	6569.2	VEL	13.588	PTH	2.48	VHP	14.208	DPA	-31.34	RAP	288.87

ECC	2.0414																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 28 50	2098.41	-16.59	34.26	196.13	113.28	10 3 48	1498.4	-13.30	27.13
90.00	18 11 29	5546.19	28.30	258.25	205.54	90.93	19 43 55	4946.2	28.13	249.59
100.00	10 43 42	1856.88	-18.04	15.83	195.46	114.24	11 14 39	1256.9	-14.62	8.71
100.00	19 39 18	5262.94	29.89	237.43	205.56	90.18	21 7 1	4662.9	29.60	228.64
110.00	11 37 19	1688.93	-21.87	1.14	193.51	116.95	12 5 28	1088.9	-18.08	354.06
110.00	21 2 10	5003.66	34.14	217.67	205.48	88.10	22 25 34	4403.7	33.50	208.48

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TDE	-.5941	TRA	-1.9067	TC3	-.1974	BAU	.1744	SGT	1504.0	SGR	481.3	SG3	85.4	ST	601.2	SR	388.0	SS	539.9
RDE	-.5258	RRA	.3815	RC3	-.0594	FAU	.01607	RRT	-.2825	RRF	.2889	RTF	-.8359	CRT	.5420	CRS	.6674	CST	.9867
FDE	.4969	FRA	1.1541	FC3	-.2198	BSP	4662	SGB	1579.1	R23	-.0296	R13	.8372	LSA	843.5	MSA	303.1	SSA	16.2
BDE	.7934	BRA	1.9445	BC3	.2062	FSP	-217	SG1	1510.7	SG2	459.6	THA	174.31	ELI	648.6	EL2	302.3	ALF	25.09

LAUNCH DATE OCT 2 1965 FLIGHT TIME 100.00 ARRIVAL DATE JAN 10 1966

HELIOCENTRIC CONIC DISTANCE 229.828

RL	149.72	LAL	.00	LOL	8.60	VL	24.200	GAL	10.09	AZL	88.67	HCA	90.82	SMA	111.79	ECC	.37724	INC	1.3302
RP	107.58	LAP	1.33	LOP	99.42	VP	35.777	GAP	-22.06	AZP	90.02	TAL	162.41	TAP	253.24	RCA	69.62	APO	153.96
RC	45.168	GL	4.17	GP	-7.68	ZAL	51.53	ZAP	11.84	ETS	137.03	ZAE	151.72	ETE	205.37	ZAC	31.70	ETC	133.43

VI	29.761																		
V2	35.224																		
CLP	9.03																		

PLANETOCENTRIC CONIC

C3	58.003	VHL	7.616	DLA	-11.72	RAL	318.34	RAD	6569.1	VEL	13.393	PTH	2.45	VHP	13.603	DPA	-31.61	RAP	291.04

ECC	1.9546																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 22 31	2106.84	-16.82	34.77	195.10	113.12	9 57 38	1506.8	-13.54	27.63
90.00	18 19 58	5495.46	28.30	254.54	203.75	89.07	19 51 34	4895.5	27.87	245.90
100.00	10 37 55	1863.57	-18.23	16.24	194.45	114.11	11 8 59	1263.6	-14.82	9.11
100.00	19 47 15	5213.96	29.85	233.79	203.71	88.26	21 14 9	4614.0	29.29	225.03
110.00	11 32 44	1691.92	-21.97	1.32	192.55	116.87	12 0 56	1091.9	-18.18	354.23
110.00	21 8 56	4958.37	33.98	214.14	203.46	86.02	22 31 34	4358.4	33.05	205.02

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TDE	-.5976	TRA	-1.9117	TC3	-.1954	BAU	.1609	SGT	1564.6	SGR	480.0	SG3	92.7	ST	629.6	SR	376.7	SS	569.0
RDE	-.4870	RRA	.3792	RC3	-.0698	FAU	.01663	RRT	-.3083	RRF	.3171	RTF	-.8463	CRT	.5323	CRS	.6651	CST	.9854
FDE	.5279	FRA	1.2002	FC3	-.2481	BSP	4888	SGB	1636.6	R23	-.0338	R13	.8477	LSA	878.5	MSA	299.9	SSA	16.3
BDE	.7709	BRA	1.9489	BC3	.2074	FSP	-238	SG1	1572.2	SG2	454.4	THA	174.10	ELI	669.6	EL2	299.8	ALF	22.39

LAUNCH DATE OCT 2 1965 FLIGHT TIME 102.00 ARRIVAL DATE JAN 12 1966

HELIOCENTRIC CONIC DISTANCE 236.553

RL 149.72 LAL .00 LOL 8.60 VL 24.463 GAL 9.61 AZL 88.49 HCA 94.06 SMA 113.01 ECC .36118 INC 1.5083 V1 29.761
RP 107.56 LAP 1.50 LOP 102.66 VP 35.962 GAP -21.00 AZP 90.11 TAL 162.09 TAP 256.15 RCA 72.19 APO 153.82 V2 35.231
RC 44.025 GL 4.99 GP -8.15 ZAL 51.13 ZAP 11.13 ETS 130.47 ZAE 153.19 ETE 209.63 ZAC 33.34 ETC 135.13 CLP 7.61

PLANETOCENTRIC CONIC

C3 53.234 VHL 7.296 DLA -10.79 RAL 318.54 RAD 6568.9 VEL 13.213 PTH 2.41 VHP 13.020 DPA -31.89 RAP 293.21 ECC 1.8761

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 15 38	2116.60	-17.08	35.37	194.01	112.94	9 50 54	1516.6	-13.82	28.20
90.00	18 28 25	5443.44	28.19	250.74	201.85	87.17	19 59 9	4843.4	27.50	242.14
100.00	10 31 35	1871.57	-18.45	16.73	193.38	113.94	11 2 46	1271.6	-15.06	9.58
100.00	19 55 9	5163.71	29.68	230.06	201.75	86.31	21 21 13	4563.7	28.86	221.36
110.00	11 27 36	1696.14	-22.10	1.58	191.54	116.77	11 55 52	1096.1	-18.33	354.48
110.00	21 15 38	4911.90	33.70	210.54	201.35	83.90	22 37 30	4311.9	32.49	201.51

DIFFERENTIAL CORRECTIONS

TDE -.6010 TRA-1.9155 TC3 -.1911 BAU .1479
RDE -.4485 RRA .3774 RC3 -.0815 FAU .01724
FDE .5616 FRA 1.2490 FC3 -.2804 BSP 5117
BDE .7499 BRA 1.9523 BC3 .2078 FSP -262

MID-COURSE EXECUTION ACCURACY

SGT 1626.4 SGR 478.8 SG3 100.7
RRT -.3372 RRF .3487 RTF -.8560
SGB 1695.4 R23 -.0385 R13 .8576
SG1 1635.1 SG2 448.4 THA 173.87

ORBIT DETERMINATION ACCURACY

ST 658.7 SR 363.7 SS 599.9
CRT .5205 CRS .6609 CST .9841
LSA 915.5 MSA 295.8 SSA 16.4
EL1 691.9 EL2 295.6 ALF 19.79

LAUNCH DATE OCT 2 1965 FLIGHT TIME 104.00 ARRIVAL DATE JAN 14 1966

HELIOCENTRIC CONIC DISTANCE 243.302

RL 149.72 LAL .00 LOL 8.60 VL 24.708 GAL 9.14 AZL 88.31 HCA 97.30 SMA 114.18 ECC .34594 INC 1.6879 V1 29.761
RP 107.55 LAP 1.67 LOP 105.90 VP 36.135 GAP -19.97 AZP 90.21 TAL 161.81 TAP 259.11 RCA 74.68 APO 153.68 V2 35.237
RC 43.015 GL 5.90 GP -8.67 ZAL 50.80 ZAP 10.63 ETS 122.92 ZAE 154.59 ETE 214.65 ZAC 35.03 ETC 136.62 CLP 6.19

PLANETOCENTRIC CONIC

C3 48.927 VHL 6.995 DLA -9.81 RAL 318.66 RAD 6568.8 VEL 13.050 PTH 2.38 VHP 12.457 DPA -32.19 RAP 295.38 ECC 1.8052

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 8 6	2127.98	-17.38	36.07	192.87	112.72	9 43 34	1528.0	-14.15	28.88
90.00	18 36 53	5390.11	27.95	246.85	199.86	85.24	20 6 43	4790.1	26.99	238.32
100.00	10 24 36	1881.14	-18.72	17.32	192.26	113.74	10 55 58	1281.1	-15.35	10.15
100.00	20 3 3	5112.17	29.40	226.26	199.71	84.32	21 28 15	4512.2	28.30	217.63
110.00	11 21 52	1701.85	-22.27	1.93	190.48	116.63	11 50 14	1101.8	-18.52	354.81
110.00	21 22 17	4864.23	33.30	206.88	199.16	81.77	22 43 21	4264.2	31.80	197.97

DIFFERENTIAL CORRECTIONS

TDE -.6046 TRA-1.9181 TC3 -.1843 BAU .1356
RDE -.4104 RRA .3766 RC3 -.0949 FAU .01791
FDE .5984 FRA 1.3011 FC3 -.3170 BSP 5344
BDE .7307 BRA 1.9547 BC3 .2073 FSP -288

MID-COURSE EXECUTION ACCURACY

SGT 1689.3 SGR 478.1 SG3 109.5
RRT -.3694 RRF .3839 RTF -.8653
SGB 1755.7 R23 -.0439 R13 .8670
SG1 1699.2 SG2 441.7 THA 173.60

ORBIT DETERMINATION ACCURACY

ST 688.6 SR 349.0 SS 632.8
CRT .5059 CRS .6541 CST .9827
LSA 954.7 MSA 290.9 SSA 16.5
EL1 715.6 EL2 289.7 ALF 17.31

LAUNCH DATE OCT 2 1965 FLIGHT TIME 106.00 ARRIVAL DATE JAN 16 1966

HELIOCENTRIC CONIC DISTANCE 250.069

RL 149.72 LAL .00 LOL 8.60 VL 24.937 GAL 8.69 AZL 88.13 HCA 100.54 SMA 115.31 ECC .33149 INC 1.8702 V1 29.761
RP 107.53 LAP 1.84 LOP 109.14 VP 36.297 GAP -18.98 AZP 90.34 TAL 161.57 TAP 262.11 RCA 77.08 APO 153.53 V2 35.242
RC 42.147 GL 6.88 GP -9.24 ZAL 50.54 ZAP 10.38 ETS 114.57 ZAE 155.85 ETE 220.52 ZAC 36.77 ETC 137.93 CLP 4.74

PLANETOCENTRIC CONIC

C3 45.048 VHL 6.712 DLA -8.76 RAL 318.69 RAD 6568.7 VEL 12.900 PTH 2.35 VHP 11.914 DPA -32.53 RAP 297.56 ECC 1.7414

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 59 53	2141.29	-17.73	36.89	191.69	112.45	9 35 35	1541.3	-14.53	29.68
90.00	18 45 28	5335.38	27.57	242.89	197.80	83.28	20 14 18	4735.4	26.36	234.44
100.00	10 16 58	1892.62	-19.03	18.03	191.11	113.50	10 48 31	1292.6	-15.69	10.83
100.00	20 10 58	5059.28	28.98	222.38	197.60	82.33	21 35 18	4459.3	27.61	213.85
110.00	11 15 30	1709.34	-22.50	2.39	189.38	116.44	11 43 59	1109.3	-18.76	355.25
110.00	21 28 56	4815.33	32.76	203.16	196.90	79.63	22 49 11	4215.3	30.98	194.39

DIFFERENTIAL CORRECTIONS

TDE -.6087 TRA-1.9194 TC3 -.1746 BAU .1243
RDE -.3723 RRA .3768 RC3 -.1101 FAU .01865
FDE .6388 FRA 1.3565 FC3 -.3584 BSP 5576
BDE .7135 BRA 1.9561 BC3 .2064 FSP -316

MID-COURSE EXECUTION ACCURACY

SGT 1753.2 SGR 478.3 SG3 119.1
RRT -.4053 RRF .4232 RTF -.8740
SGB 1817.2 R23 -.0501 R13 .8758
SG1 1764.5 SG2 434.5 THA 173.28

ORBIT DETERMINATION ACCURACY

ST 719.3 SR 332.5 SS 668.0
CRT .4875 CRS .6438 CST .9813
LSA 996.3 MSA 285.2 SSA 16.5
EL1 740.6 EL2 282.0 ALF 14.91

LAUNCH DATE OCT 2 1965 FLIGHT TIME 108.00 ARRIVAL DATE JAN 18 1966

HELIOCENTRIC CONIC DISTANCE 256.851

RL 149.72 LAL .00 LOL 8.60 VL 25.150 GAL 8.26 AZL 87.94 HCA 103.78 SMA 116.38 ECC .31783 INC 2.0564 V1 29.761
RP 107.51 LAP 2.00 LOP 112.38 VP 36.448 GAP -18.03 AZP 90.49 TAL 161.37 TAP 265.15 RCA 79.39 APO 153.37 V2 35.247
RC 41.430 GL 7.96 GP -9.89 ZAL 50.37 ZAP 10.41 ETS 105.79 ZAE 156.88 ETE 227.26 ZAC 38.55 ETC 139.06 CLP 3.28

PLANETOCENTRIC CONIC

C3 41.561 VHL 6.447 DLA -7.64 RAL 318.64 RAD 6568.6 VEL 12.764 PTH 2.32 VHP 11.391 DPA -32.91 RAP 299.74 ECC 1.6840

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 50 57	2156.90	-18.13	37.86	190.48	112.13	9 26 53	1556.9	-14.97	30.61
90.00	18 53 57	5279.20	27.06	238.86	195.69	81.33	20 21 56	4679.2	25.58	230.50
100.00	10 8 37	1906.34	-19.40	18.88	189.92	113.20	10 40 23	1306.3	-16.09	11.64
100.00	20 18 58	5004.99	28.42	218.45	195.44	80.32	21 42 23	4405.0	26.79	210.02
110.00	11 8 28	1718.93	-22.79	2.99	188.25	116.20	11 37 7	1118.9	-19.08	355.81
110.00	21 35 36	4765.16	32.08	199.41	194.61	77.51	22 55 1	4165.2	30.03	190.79

DIFFERENTIAL CORRECTIONS

TDE -.6133 TRA-1.9196 TC3 -.1619 BAU .1144
RDE -.3341 RRA .3785 RC3 -.1272 FAU .01945
FDE .6835 FRA 1.4157 FC3 -.4053 BSP 5810
BDE .6984 BRA 1.9565 BC3 .2059 FSP -347

MID-COURSE EXECUTION ACCURACY

SGT 1817.5 SGR 479.9 SG3 129.7
RRT -.4450 RRF .4667 RTF -.8822
SGB 1879.8 R23 -.0572 R13 .8843
SG1 1830.8 SG2 426.7 THA 172.91

ORBIT DETERMINATION ACCURACY

ST 750.9 SR 314.0 SS 705.8
CRT .4637 CRS .6286 CST .9799
LSA 1040.4 MSA 278.9 SSA 16.6
EL1 766.9 EL2 272.4 ALF 12.59

LAUNCH DATE OCT 2 1965 FLIGHT TIME 110.00 ARRIVAL DATE JAN 20 1966

HELIOCENTRIC CONIC DISTANCE 263,644

RL	149.72	LAL	.00	LOL	8.60	VL	25.348	GAL	7.86	AZL	87.75	HCA	107.02	SMA	117.41	ECC	.30493	INC	2.2479	VI	29.761
RP	107.50	LAP	2.15	LOP	115.63	VP	36.589	GAP	-17.10	AZP	90.66	TAL	161.22	TAP	268.24	RCA	81.61	APO	153.22	V2	35.251
RC	40.873	GL	9.14	GP	-10.61	ZAL	50.28	ZAP	10.76	ETS	97.08	ZAE	157.58	ETE	234.82	ZAC	40.36	ETC	140.04	CLP	1.80

PLANETOCENTRIC CONIC

C3	38.439	VHL	6.200	DLA	-6.45	RAL	318.51	RAD	6568.5	VEL	12.641	PTH	2.29	VHP	10.888	DPA	-33.34	RAP	301.93	ECC	1.6326

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 41 12	2175.17	-18.59	39.00	189.25	111.75	9 17 27	1575.2	-15.48	31.71
90.00	19 2 39	5221.48	26.40	234.76	193.53	79.37	20 29 40	4621.5	24.67	226.52
100.00	9 59 28	1922.66	-19.83	19.90	188.71	112.83	10 31 31	1322.7	-16.57	12.62
100.00	20 27 3	4949.23	27.72	214.45	193.24	78.33	21 49 33	4349.2	25.83	206.16
110.00	11 0 42	1730.96	-23.15	3.74	187.10	115.89	11 29 33	1131.0	-19.48	356.52
110.00	21 42 19	4713.69	31.26	195.62	192.29	75.41	23 0 53	4113.7	28.94	187.18

DIFFERENTIAL CORRECTIONS								MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TDE	-.6186	TRA	-1.9186	TC3	-.1462	BAU	.1064	SGT	1882.4	SGR	483.6	SG3	141.3	ST	783.2	SR	293.3	SS	746.4
RDE	-.2957	RRA	.3820	RC3	-.1465	FAU	.02033	RRT	-.4885	RRF	.5143	RTF	-.8898	CRT	.4317	CRS	.6060	CST	.9786
FDE	.7331	FRA	1.4792	FC3	-.4579	BSP	6041	SGB	1943.5	R23	-.0653	R13	.8921	LSA	1087.4	MSA	271.9	SSA	16.6
BDE	.6856	BRA	1.9563	BC3	.2070	FSP	-382	SG1	1897.9	SG2	418.5	THA	172.48	EL1	794.6	EL2	260.8	ALF	10.31

LAUNCH DATE OCT 2 1965 FLIGHT TIME 112.00 ARRIVAL DATE JAN 22 1966

HELIOCENTRIC CONIC DISTANCE 270.444

RL	149.72	LAL	.00	LOL	8.60	VL	25.532	GAL	7.47	AZL	87.55	HCA	110.26	SMA	118.40	ECC	.29277	INC	2.4462	VI	29.761
RP	107.49	LAP	2.29	LOP	118.88	VP	36.720	GAP	-16.21	AZP	90.85	TAL	161.11	TAP	271.37	RCA	83.73	APO	153.06	V2	35.254
RC	40.482	GL	10.43	GP	-11.42	ZAL	50.28	ZAP	11.43	ETS	88.95	ZAE	157.87	ETE	242.96	ZAC	42.22	ETC	140.87	CLP	.30

PLANETOCENTRIC CONIC

C3	35.655	VHL	5.971	DLA	-5.17	RAL	318.30	RAD	6568.4	VEL	12.531	PTH	2.27	VHP	10.405	DPA	-33.83	RAP	304.13	ECC	1.5868

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 30 35	2196.52	-19.13	40.34	188.02	111.29	9 7 12	1596.5	-16.06	33.00
90.00	19 11 32	5162.13	25.59	230.61	191.35	77.44	20 37 34	4562.1	23.60	222.50
100.00	9 49 30	1941.98	-20.34	21.11	187.51	112.39	10 21 52	1342.0	-17.13	13.79
100.00	20 35 19	4891.91	26.86	210.40	191.02	76.37	21 56 51	4291.9	24.72	202.26
110.00	10 52 9	1745.80	-23.58	4.67	185.95	115.49	11 21 15	1145.8	-19.96	357.40
110.00	21 49 8	4660.85	30.29	191.81	189.97	73.34	23 6 49	4060.9	27.71	183.56

DIFFERENTIAL CORRECTIONS								MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TDE	-.6253	TRA	-1.9158	TC3	-.1256	BAU	.1001	SGT	1946.6	SGR	490.2	SG3	154.0	ST	816.4	SR	270.4	SS	790.5
RDE	-.2565	RRA	.3875	RC3	-.1682	FAU	.02129	RRT	-.5359	RRF	.5657	RTF	-.8973	CRT	.3879	CRS	.5722	CST	.9773
FDE	.7889	FRA	1.5472	FC3	-.5168	BSP	6280	SGB	2007.4	R23	-.0741	R13	.8999	LSA	1137.8	MSA	264.4	SSA	16.6
BDE	.6758	BRA	1.9546	BC3	.2099	FSP	-419	SG1	1965.1	SG2	410.0	THA	171.96	EL1	823.8	EL2	247.0	ALF	8.05

LAUNCH DATE OCT 2 1965 FLIGHT TIME 114.00 ARRIVAL DATE JAN 24 1966

HELIOCENTRIC CONIC DISTANCE 277,249

RL	149.72	LAL	.00	LOL	8.60	VL	25.703	GAL	7.10	AZL	87.35	HCA	113.50	SMA	119.33	ECC	.28134	INC	2.6530	VI	29.761
RP	107.48	LAP	2.43	LOP	122.12	VP	36.841	GAP	-15.34	AZP	91.06	TAL	161.04	TAP	274.55	RCA	85.76	APO	152.90	V2	35.256
RC	40.263	GL	11.83	GP	-12.34	ZAL	50.38	ZAP	12.40	ETS	81.75	ZAE	157.67	ETE	251.31	ZAC	44.11	ETC	141.56	CLP	-1.23

PLANETOCENTRIC CONIC

C3	33.186	VHL	5.761	DLA	-3.79	RAL	318.00	RAD	6568.3	VEL	12.432	PTH	2.25	VHP	9.942	DPA	-34.40	RAP	306.33	ECC	1.5462

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 19 2	2221.41	-19.73	41.91	186.80	110.73	8 56 4	1621.4	-16.74	34.52
90.00	19 20 40	5101.03	24.62	226.40	189.18	75.55	20 45 41	4501.0	22.39	218.43
100.00	9 38 36	1964.74	-20.92	22.55	186.31	111.85	10 11 21	1364.7	-17.77	15.17
100.00	20 43 47	4832.93	25.85	206.31	188.81	74.44	22 4 20	4232.9	23.47	198.33
110.00	10 42 47	1763.85	-24.11	5.80	184.82	115.00	11 12 11	1163.8	-20.54	358.48
110.00	21 56 6	4606.59	29.17	187.98	187.66	71.33	23 12 53	4006.6	26.34	179.94

DIFFERENTIAL CORRECTIONS								MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TDE	-.6335	TRA	-1.9126	TC3	-.1026	BAU	.0968	SGT	2011.4	SGR	500.9	SG3	167.9	ST	850.9	SR	245.5	SS	838.2
RDE	-.2162	RRA	.3956	RC3	-.1924	FAU	.02231	RRT	-.5857	RRF	.6200	RTF	-.9041	CRT	.3247	CRS	.5203	CST	.9762
FDE	.8515	FRA	1.6202	FC3	-.5819	BSP	6507	SGB	2072.8	R23	-.0845	R13	.9071	LSA	1192.0	MSA	256.5	SSA	16.5
BDE	.6694	BRA	1.9531	BC3	.2181	FSP	-461	SG1	2033.5	SG2	401.6	THA	171.36	EL1	855.0	EL2	231.1	ALF	5.78

LAUNCH DATE OCT 2 1965 FLIGHT TIME 116.00 ARRIVAL DATE JAN 26 1966

HELIOCENTRIC CONIC DISTANCE 284,055

RL	149.72	LAL	.00	LOL	8.60	VL	25.862	GAL	6.75	AZL	87.13	HCA	116.75	SMA	120.21	ECC	.27061	INC	2.8702	VI	29.761
RP	107.48	LAP	2.56	LOP	125.37	VP	36.954	GAP	-14.50	AZP	91.29	TAL	161.02	TAP	277.76	RCA	87.68	APO	152.74	V2	35.258
RC	40.219	GL	13.35	GP	-13.37	ZAL	50.59	ZAP	13.65	ETS	75.64	ZAE	156.96	ETE	259.40	ZAC	46.05	ETC	142.11	CLP	-2.79

PLANETOCENTRIC CONIC

C3	31.014	VHL	5.569	DLA	-2.32	RAL	317.60	RAD	6568.2	VEL	12.345	PTH	2.23	VHP	9.499	DPA	-35.07	RAP	308.55	ECC	1.5104

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 6 28	2250.42	-20.42	43.76	185.62	110.05	8 43 58	1650.3	-17.50	36.30
90.00	19 30 8	5038.02	23.48	222.13	187.02	73.70	20 54 6	4438.0	21.02	214.32
100.00	9 26 43	1991.42	-21.59	24.25	185.14	111.19	9 59 55	1391.4	-18.52	16.80
100.00	20 52 33	4772.17	24.68	202.18	186.62	72.57	22 12 5	4172.2	22.06	194.36
110.00	10 32 29	1785.54	-24.73	7.19	183.71	114.39	11 2 15	1185.5	-21.22	359.79
110.00	22 3 16	4550.81	27.89	184.14	185.39	69.39	23 19 7	3950.8	24.83	176.31

DIFFERENTIAL CORRECTIONS								MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TDE	-.6435	TRA	-1.9081	TC3	-.0755	BAU	.0962	SGT	2074.9	SGR	517.0	SG3	183.0	ST	886.4	SR	219.0	SS	890.0
RDE	-.1742	RRA	.4068	RC3	-.2195	FAU	.02341	RRT	-.6373	RRF	.6759	RTF	-.9105	CRT	.2298	CRS	.4379	CST	.9751
FDE	.9223	FRA	1.6981	FC3	-.6536	BSP	6745	SGB	2138.4	R23	-.0959	R13	.9139	LSA	1250.6	MSA	248.5	SSA	16.4
BDE	.6667	BRA	1.9509	BC3	.2321	FSP	-507	SG1	2101.9	SG2	393.3	THA	170.65	EL1	887.9	EL2	212.8	ALF	3.45

LAUNCH DATE OCT 2 1965 FLIGHT TIME 118.00 ARRIVAL DATE JAN 28 1966

DISTANCE 290.860

HELIOCENTRIC CONIC
RL 149.72 LAL .00 LOL 8.60 VL 26.008 GAL 6.41 AZL 86.90 HCA 119.99 SMA 121.05 ECC .26056 INC 3.1003 V1 29.761
RP 107.48 LAP 2.68 LOP 128.62 VP 37.057 GAP -13.69 AZP 91.55 TAL 161.03 TAP 281.02 RCA 89.51 APO 152.59 V2 35.259
RC 40.350 GL 15.01 GP -14.54 ZAL 50.92 ZAP 15.17 ETS 70.60 ZAE 155.75 ETE 266.83 ZAC 48.03 ETC 142.54 CLP -4.39

PLANETOCENTRIC CONIC
C3 29.122 VHL 5.396 DLA -.73 RAL 317.12 RAD 6568.2 VEL 12.268 PTH 2.21 VHP 9.078 DPA -35.85 RAP 310.78 ECC 1.4793

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 52 45	2283.84	-21.19	45.92	184.48	109.24	8 30 49	1683.8	-18.37	38.38
90.00	19 40 0	4972.95	22.17	217.81	184.90	71.92	21 2 53	4373.0	19.49	210.16
100.00	9 13 45	2022.54	-22.34	26.25	184.03	110.39	9 47 28	1422.5	-19.36	18.72
100.00	21 1 41	4709.48	23.33	198.01	184.48	70.76	22 20 10	4109.5	20.49	190.36
110.00	10 21 13	1811.35	-25.44	8.85	182.66	113.64	10 51 24	1211.4	-22.02	1.37
110.00	22 10 42	4493.44	26.46	180.30	183.16	67.52	23 25 35	3893.4	23.18	172.67

DIFFERENTIAL CORRECTIONS
TOE -.6562 TRA-1.9025 TC3 -.0454 BAU .0987
RDE -.1298 RRA .4217 RC3 -.2494 FAU .02459
FOE 1.0027 FRA 1.7814 FC3 -.7309 BSP 6970
BDE .6689 BRA 1.9487 BC3 .2535 FSP -556

MID-COURSE EXECUTION ACCURACY
SGT 2137.4 SGR 540.3 SG3 199.5
RRT -.6886 RRF .7313 RTF -.9165
SGB 2204.6 R23 -.1088 R13 .9205
SG1 2170.6 SG2 385.8 THA 169.80

ORBIT DETERMINATION ACCURACY
ST 923.4 SR 192.6 SS 946.4
CRT .0823 CRS .3026 CST .9743
LSA 1314.3 MSA 240.5 SSA 16.2
EL1 923.5 EL2 191.9 ALF 1.03

LAUNCH DATE OCT 2 1965 FLIGHT TIME 120.00 ARRIVAL DATE JAN 30 1966

DISTANCE 297.660

HELIOCENTRIC CONIC
RL 149.72 LAL .00 LOL 8.60 VL 26.144 GAL 6.10 AZL 86.65 HCA 123.23 SMA 121.83 ECC .25118 INC 3.3459 V1 29.761
RP 107.48 LAP 2.80 LOP 131.87 VP 37.153 GAP -12.91 AZP 91.84 TAL 161.08 TAP 284.31 RCA 91.23 APO 152.43 V2 35.259
RC 40.657 GL 16.82 GP -15.87 ZAL 51.36 ZAP 16.95 ETS 66.55 ZAE 154.11 ETE 273.32 ZAC 50.06 ETC 142.84 CLP -6.03

PLANETOCENTRIC CONIC
C3 27.499 VHL 5.244 DLA .98 RAL 316.55 RAD 6568.1 VEL 12.201 PTH 2.19 VHP 8.679 DPA -36.77 RAP 313.05 ECC 1.4526

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 37 47	2322.56	-22.03	48.44	183.41	108.25	8 16 29	1722.6	-19.34	40.81
90.00	19 50 23	4905.61	20.68	213.43	182.85	70.22	21 12 9	4305.6	17.80	205.95
100.00	8 59 35	2058.71	-23.18	28.61	182.98	109.42	9 33 53	1458.7	-20.32	20.98
100.00	21 11 16	4644.70	21.82	193.80	182.40	69.04	22 28 41	4044.7	18.77	186.32
110.00	10 8 52	1841.81	-26.26	10.84	181.68	112.72	10 39 34	1241.8	-22.95	3.25
110.00	22 18 28	4434.36	24.86	176.45	181.02	65.75	23 32 23	3834.4	21.37	169.04

DIFFERENTIAL CORRECTIONS
TOE -.6717 TRA-1.8958 TC3 -.0119 BAU .1039
RDE -.0820 RRA .4410 RC3 -.2823 FAU .02582
FDE 1.0943 FRA 1.8699 FC3 -.8127 BSP 7203
BDE .6767 BRA 1.9464 BC3 .2625 FSP -610

MID-COURSE EXECUTION ACCURACY
SGT 2197.9 SGR 572.7 SG3 217.4
RRT -.7380 RRF .7842 RTF -.9222
SGB 2271.2 R23 -.1225 R13 .9268
SG1 2239.4 SG2 379.3 THA 168.79

ORBIT DETERMINATION ACCURACY
ST 961.7 SR 170.3 SS 1007.8
CRT -.1469 CRS .0800 CST .9737
LSA 1383.9 MSA 232.7 SSA 15.9
EL1 962.1 EL2 168.4 ALF 178.46

LAUNCH DATE OCT 2 1965 FLIGHT TIME 122.00 ARRIVAL DATE FEB 1 1966

DISTANCE 304.453

HELIOCENTRIC CONIC
RL 149.72 LAL .00 LOL 8.60 VL 26.270 GAL 5.80 AZL 86.39 HCA 126.47 SMA 122.57 ECC .24242 INC 3.6104 V1 29.761
RP 107.48 LAP 2.90 LOP 135.12 VP 37.241 GAP -12.15 AZP 92.15 TAL 161.16 TAP 287.63 RCA 92.86 APO 152.29 V2 35.258
RC 41.135 GL 18.78 GP -17.39 ZAL 51.94 ZAP 18.98 ETS 63.34 ZAE 152.08 ETE 278.76 ZAC 52.16 ETC 143.03 CLP -7.72

PLANETOCENTRIC CONIC
C3 26.137 VHL 5.112 DLA 2.83 RAL 315.88 RAD 6568.1 VEL 12.146 PTH 2.18 VHP 8.304 DPA -37.86 RAP 315.36 ECC 1.4302

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 21 24	2367.21	-22.96	51.39	182.44	107.05	8 0 51	1767.2	-20.41	43.64
90.00	20 1 26	4835.74	19.01	208.99	180.88	68.61	21 22 1	4235.7	15.93	201.66
100.00	8 44 4	2100.59	-24.10	31.38	182.04	108.24	9 19 5	1500.6	-21.38	23.64
100.00	21 21 27	4577.60	20.12	189.53	180.40	67.42	22 37 45	3977.6	16.89	182.23
110.00	9 55 20	1877.51	-27.17	13.21	180.81	111.58	10 26 38	1277.5	-24.00	5.49
110.00	22 26 40	4373.44	23.10	172.59	178.96	64.07	23 39 34	3773.4	19.42	165.38

DIFFERENTIAL CORRECTIONS
TOE -.6911 TRA-1.8884 TC3 .0233 BAU .1115
RDE -.0295 RRA .4658 RC3 -.3182 FAU .02708
FDE 1.1993 FRA 1.9633 FC3 -.8970 BSP 7428
BDE .6917 BRA 1.9450 BC3 .3190 FSP -668

MID-COURSE EXECUTION ACCURACY
SGT 2256.2 SGR 616.5 SG3 236.6
RRT -.7833 RRF .8323 RTF -.9275
SGB 2338.9 R23 -.1370 R13 .9329
SG1 2308.7 SG2 374.5 THA 167.59

ORBIT DETERMINATION ACCURACY
ST 1002.0 SR 160.5 SS 1074.8
CRT -.4603 CRS -.2471 CST .9735
LSA 1460.7 MSA 225.6 SSA 15.5
EL1 1004.7 EL2 142.1 ALF 175.70

LAUNCH DATE OCT 2 1965 FLIGHT TIME 124.00 ARRIVAL DATE FEB 3 1966

DISTANCE 311.237

HELIOCENTRIC CONIC
RL 149.72 LAL .00 LOL 8.60 VL 26.385 GAL 5.52 AZL 86.10 HCA 129.71 SMA 123.27 ECC .23428 INC 3.8980 V1 29.761
RP 107.48 LAP 3.00 LOP 138.37 VP 37.321 GAP -11.41 AZP 92.49 TAL 161.28 TAP 290.99 RCA 94.39 APO 152.15 V2 35.257
RC 41.780 GL 20.91 GP -19.13 ZAL 52.65 ZAP 21.26 ETS 60.86 ZAE 149.75 ETE 283.14 ZAC 54.34 ETC 143.09 CLP -9.45

PLANETOCENTRIC CONIC
C3 25.034 VHL 5.003 DLA 4.82 RAL 315.11 RAD 6568.0 VEL 12.100 PTH 2.17 VHP 7.954 DPA -39.14 RAP 317.73 ECC 1.4120

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 3 26	2418.65	-23.94	54.84	181.60	105.59	7 43 45	1818.6	-21.57	46.97
90.00	20 13 17	4763.01	17.14	204.47	179.03	67.11	21 32 40	4163.0	13.89	197.30
100.00	8 27 3	2148.97	-25.09	34.64	181.23	106.80	9 2 52	1549.0	-22.55	26.76
100.00	21 32 21	4507.93	18.24	185.21	178.53	65.90	22 47 29	3907.9	14.83	178.08
110.00	9 40 29	1919.12	-28.18	16.03	180.07	110.19	10 12 28	1319.1	-25.17	8.15
110.00	22 35 24	4310.54	21.18	168.73	177.02	62.52	23 47 15	3710.5	17.33	161.71

DIFFERENTIAL CORRECTIONS
TOE -.7122 TRA-1.8776 TC3 .0633 BAU .1214
RDE .0291 RRA .4967 RC3 -.3572 FAU .02842
FDE 1.3175 FRA 2.0590 FC3 -.9827 BSP 7717
BDE .7128 BRA 1.9422 BC3 .3628 FSP -734

MID-COURSE EXECUTION ACCURACY
SGT 2307.5 SGR 674.3 SG3 256.9
RRT -.8235 RRF .8740 RTF -.9325
SGB 2404.0 R23 -.1508 R13 .9390
SG1 2375.2 SG2 371.6 THA 166.12

ORBIT DETERMINATION ACCURACY
ST 1041.2 SR 174.8 SS 1146.1
CRT -.7585 CRS -.5906 CST .9733
LSA 1542.7 MSA 219.5 SSA 14.8
EL1 1049.7 EL2 113.0 ALF 172.66

LAUNCH DATE OCT 2 1965 FLIGHT TIME 126.00 ARRIVAL DATE FEB 5 1966

HELIOCENTRIC CONIC DISTANCE 318.010

RL 149.72 LAL .00 LOL 8.60 VL 26.432 GAL 5.26 AZL 85.79 HCA 132.95 SMA 123.91 ECC .22673 INC 4.2140 VI 29.761
RP 107.49 LAP 3.08 LOP 141.62 VP 37.395 GAP -10.70 AZP 92.87 TAL 161.42 TAP 294.37 RCA 95.82 APO 152.01 V2 35.255
RC 42.583 GL 23.21 GP -21.13 ZAL 53.52 ZAP 23.81 ETS 58.97 ZAE 147.14 ETE 286.55 ZAC 56.61 ETC 143.05 CLP -11.23

PLANETOCENTRIC CONIC

C3 24.196 VHL 4.919 DLA 6.96 RAL 314.25 RAD 6568.0 VEL 12.065 PTH 2.16 VHP 7.633 DPA -40.66 RAP 320.20 ECC 1.3982

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 43 39	2477.89	-24.96	58.87	180.92	103.82	7 24 56	1877.9	-22.82	50.86
90.00	20 26 10	4687.03	15.07	199.85	177.32	65.74	21 44 17	4087.0	11.67	192.83
100.00	8 8 19	2204.81	-26.14	38.46	180.59	105.05	8 45 4	1604.8	-23.81	30.43
100.00	21 44 11	4435.35	16.17	180.82	176.80	64.51	22 58 6	3835.3	12.60	173.84
110.00	9 24 10	1967.43	-29.27	19.37	179.52	108.49	9 56 57	1367.4	-26.47	11.31
110.00	22 44 49	4245.48	19.08	164.84	175.22	61.09	23 55 35	3645.5	15.08	158.01

DIFFERENTIAL CORRECTIONS

TDE -.7415 TRA-1.8686 TC3 .0989 BAU .1327
RDE .0966 RRA .5355 RC3 -.3982 FAU .02964
FDE 1.4540 FRA 2.1580 FC3-1.0606 BSP 7940
BDE .7478 BRA 1.9438 BC3 .4103 FSP -799

MID-COURSE EXECUTION ACCURACY

SGT 2358.7 SGR 749.0 SG3 278.2
RRT -.8565 RRF .9082 RTF -.9370
SGB 2474.8 R23 -.1648 R13 .9449
SG1 2446.5 SG2 372.7 THA 164.41

ORBIT DETERMINATION ACCURACY

ST 1085.7 SR 219.9 SS 1224.4
CRT -.9268 CRS -.8187 CST .9737
LSA 1637.1 MSA 214.2 SSA 14.1
EL1 1104.8 EL2 81.1 ALF 169.31

LAUNCH DATE OCT 2 1965 FLIGHT TIME 128.00 ARRIVAL DATE FEB 7 1966

HELIOCENTRIC CONIC DISTANCE 324.770

RL 149.72 LAL .00 LOL 8.60 VL 26.589 GAL 5.01 AZL 85.43 HCA 136.19 SMA 124.52 ECC .21974 INC 4.5650 VI 29.761
RP 107.50 LAP 3.16 LOP 144.87 VP 37.461 GAP -10.00 AZP 93.30 TAL 161.59 TAP 297.77 RCA 97.16 APO 151.88 V2 35.252
RC 43.538 GL 25.70 GP -23.44 ZAL 54.55 ZAP 26.66 ETS 57.58 ZAE 144.29 ETE 289.09 ZAC 58.99 ETC 142.89 CLP -13.07

PLANETOCENTRIC CONIC

C3 23.636 VHL 4.862 DLA 9.27 RAL 313.27 RAD 6568.0 VEL 12.042 PTH 2.15 VHP 7.344 DPA -42.45 RAP 322.81 ECC 1.3890

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 21 41	2546.24	-25.99	63.62	180.45	101.65	7 4 8	1946.2	-24.12	55.45
90.00	20 40 22	4607.21	12.78	195.11	175.80	64.52	21 57 9	4007.2	9.25	188.21
100.00	7 47 34	2269.26	-27.20	42.95	180.15	102.91	8 25 23	1669.3	-25.15	34.75
100.00	21 57 10	4359.42	13.89	176.33	175.25	63.26	23 9 49	3759.4	10.19	169.50
110.00	9 6 8	2023.38	-30.42	23.32	179.19	106.41	9 39 52	1423.4	-27.87	15.05
110.00	22 55 5	4178.07	16.82	160.93	173.60	59.79	24 4 43	3578.1	12.68	154.26

DIFFERENTIAL CORRECTIONS

TDE -.7765 TRA-1.8591 TC3 .1329 BAU .1455
RDE .1758 RRA .5835 RC3 -.4407 FAU .03076
FDE 1.6082 FRA 2.2557 FC3-1.1267 BSP 8176
BDE .7962 BRA 1.9485 BC3 .4603 FSP -867

MID-COURSE EXECUTION ACCURACY

SGT 2404.6 SGR 843.9 SG3 299.9
RRT -.8830 RRF .9351 RTF -.9412
SGB 2548.4 R23 -.1766 R13 .9507
SG1 2520.2 SG2 377.9 THA 162.37

ORBIT DETERMINATION ACCURACY

ST 1131.8 SR 294.6 SS 1307.5
CRT -.9863 CRS -.9258 CST .9745
LSA 1741.5 MSA 210.3 SSA 13.1
EL1 1168.6 EL2 47.1 ALF 165.58

LAUNCH DATE OCT 2 1965 FLIGHT TIME 130.00 ARRIVAL DATE FEB 9 196

HELIOCENTRIC CONIC DISTANCE 331.515

RL 149.72 LAL .00 LOL 8.60 VL 26.679 GAL 4.78 AZL 85.04 HCA 139.42 SMA 125.08 ECC .21330 INC 4.9599 VI 29.761
RP 107.51 LAP 3.22 LOP 148.12 VP 37.522 GAP -9.33 AZP 93.77 TAL 161.78 TAP 301.20 RCA 98.40 APO 151.76 V2 35.249
RC 44.633 GL 28.38 GP -26.10 ZAL 55.75 ZAP 29.82 ETS 56.59 ZAE 141.20 ETE 290.87 ZAC 61.53 ETC 142.64 CLP -14.97

PLANETOCENTRIC CONIC

C3 23.381 VHL 4.835 DLA 11.75 RAL 312.19 RAD 6567.9 VEL 12.032 PTH 2.15 VHP 7.092 DPA -44.56 RAP 325.61 ECC 1.3848

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 57 8	2625.40	-26.96	69.21	180.21	99.01	6 40 53	2025.4	-25.44	60.87
90.00	20 56 16	4522.74	10.26	190.19	174.52	63.46	22 11 39	3922.7	6.61	183.41
100.00	7 24 26	2343.84	-28.22	48.26	179.97	100.30	8 3 30	1743.8	-26.51	39.87
100.00	22 11 39	4279.54	11.40	171.71	173.92	62.18	23 22 59	3679.5	7.59	165.00
110.00	8 46 9	2088.13	-31.57	28.01	179.14	103.85	9 20 57	1488.1	-29.34	19.52
110.00	23 6 25	4108.01	14.38	156.96	172.19	58.65	24 14 53	3508.0	10.12	150.45

DIFFERENTIAL CORRECTIONS

TDE -.8197 TRA-1.8496 TC3 .1617 BAU .1592
RDE .2709 RRA .6425 RC3 -.4830 FAU .03163
FDE 1.7816 FRA 2.3476 FC3-1.1711 BSP 8416
BDE .8633 BRA 1.9580 BC3 .5094 FSP -933

MID-COURSE EXECUTION ACCURACY

SGT 2445.2 SGR 962.2 SG3 321.1
RRT -.9034 RRF .9553 RTF -.9450
SGB 2627.7 R23 -.1850 R13 .9565
SG1 2598.9 SG2 388.2 THA 159.96

ORBIT DETERMINATION ACCURACY

ST 1180.8 SR 397.1 SS 1395.2
CRT -.9992 CRS -.9700 CST .9756
LSA 1858.9 MSA 207.6 SSA 12.1
EL1 1245.7 EL2 14.7 ALF 161.42

LAUNCH DATE OCT 2 1965 FLIGHT TIME 132.00 ARRIVAL DATE FEB 11 1966

HELIOCENTRIC CONIC DISTANCE 338.242

RL 149.72 LAL .00 LOL 8.60 VL 26.761 GAL 4.57 AZL 84.59 HCA 142.65 SMA 125.60 ECC .20738 INC 5.4105 VI 29.761
RP 107.52 LAP 3.28 LOP 151.37 VP 37.576 GAP -8.68 AZP 94.31 TAL 161.98 TAP 304.63 RCA 99.55 APO 151.64 V2 35.244
RC 45.858 GL 31.28 GP -29.17 ZAL 57.14 ZAP 33.35 ETS 55.93 ZAE 137.85 ETE 292.01 ZAC 64.25 ETC 142.31 CLP -16.91

PLANETOCENTRIC CONIC

C3 23.475 VHL 4.845 DLA 14.41 RAL 310.98 RAD 6568.0 VEL 12.035 PTH 2.15 VHP 6.886 DPA -47.03 RAP 328.72 ECC 1.3863

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 29 17	2717.73	-27.77	75.84	180.25	95.78	6 14 35	2117.7	-26.68	67.35
90.00	21 14 29	4432.37	7.47	185.02	173.53	62.61	22 28 21	3832.4	3.74	178.32
100.00	6 58 20	2430.58	-29.11	54.55	180.08	97.10	7 38 50	1830.6	-27.82	45.98
100.00	22 28 7	4194.76	8.66	166.91	172.89	61.28	23 38 2	3594.8	4.76	160.29
110.00	8 23 48	2163.14	-32.66	33.59	179.43	100.72	8 59 51	1563.1	-30.83	24.85
110.00	23 19 8	4034.96	11.75	152.93	171.04	57.67	24 26 23	3435.0	7.40	146.54

DIFFERENTIAL CORRECTIONS

TDE -.8703 TRA-1.8381 TC3 .1877 BAU .1745
RDE .3872 RRA .7138 RC3 -.5233 FAU .03219
FDE 1.9706 FRA 2.4243 FC3-1.1871 BSP 8732
BDE .9525 BRA 1.9718 BC3 .5559 FSP -999

MID-COURSE EXECUTION ACCURACY

SGT 2475.6 SGR 1107.4 SG3 340.3
RRT -.9190 RRF .9697 RTF -.9486
SGB 2712.0 R23 -.1879 R13 .9625
SG1 2681.9 SG2 403.1 THA 157.11

ORBIT DETERMINATION ACCURACY

ST 1229.8 SR 527.5 SS 1483.9
CRT -.9979 CRS -.9879 CST .9769
LSA 1987.4 MSA 206.3 SSA 10.9
EL1 1337.8 EL2 31.6 ALF 156.82

LAUNCH DATE OCT 2 1965 FLIGHT TIME 134.00 ARRIVAL DATE FEB 13 1966

HELIOCENTRIC CONIC DISTANCE 344.951

RL 149.72 LAL .00 LOL 8.60 VL 26.836 GAL 4.37 AZL 84.07 HCA 145.89 SMA 126.07 ECC .20197 INC 5.9331 VI 29.761
RP 107.54 LAP 3.32 LOP 154.62 VP 37.624 GAP -8.05 AZP 94.92 TAL 162.19 TAP 308.08 RCA 100.61 APO 151.54 V2 35.239
RC 47.202 GL 34.38 GP -32.72 ZAL 58.72 ZAP 37.26 ETS 55.51 ZAE 134.19 ETE 292.61 ZAC 67.19 ETC 141.92 CLP -18.91

PLANETOCENTRIC CONIC

C3 23.992 VHL 4.898 DLA 17.25 RAL 309.64 RAD 6568.0 VEL 12.057 PTH 2.16 VHP 6.736 DPA -49.89 RAP 332.26 ECC 1.3948

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 57 7	2826.83	-28.26	83.78	180.59	91.83	5 44 14	2226.8	-27.71	75.16
90.00	21 35 57	4333.93	4.35	179.46	172.95	61.99	22 48 11	3733.9	.57	172.82
100.00	6 28 25	2532.42	-29.74	62.05	180.51	93.20	7 10 37	1932.4	-28.98	53.33
100.00	22 47 20	4103.57	5.64	161.82	172.24	60.60	23 55 44	3503.6	1.68	155.27
110.00	7 58 34	2250.39	-33.57	40.24	180.11	96.88	8 36 4	1650.4	-32.25	31.25
110.00	23 33 41	3958.37	8.93	148.80	170.23	56.87	24 39 39	3358.4	4.51	142.50

DIFFERENTIAL CORRECTIONS
TDE -.9351 TRA-1.8304 TC3 .2007 BAU .1898
RDE .5329 RRA .8001 RC3 -.5568 FAU .03210
FDE 2.1739 FRA 2.4798 FC3-1.1582 BSP .9018
BDE 1.0763 BRA 1.9977 BC3 .5919 FSP -1052

MID-COURSE EXECUTION ACCURACY
SGT 2502.3 SGR 1283.2 SG3 356.0
RRT -.9300 RRF .9798 RTF -.9518
SGB 2812.2 R23 -.1855 R13 .9684
SG1 2779.9 SG2 424.4 THA 153.85

ORBIT DETERMINATION ACCURACY
ST 1284.1 SR 689.4 SS 1572.3
CRT -.9937 CRS -.9953 CST .9786
LSA 2134.0 MSA 206.0 SSA 9.7
EL1 1455.9 EL2 68.1 ALF 151.85

LAUNCH DATE OCT 2 1965 FLIGHT TIME 136.00 ARRIVAL DATE FEB 15 1966

HELIOCENTRIC CONIC DISTANCE 351.639

RL 149.72 LAL .00 LOL 8.60 VL 26.904 GAL 4.19 AZL 83.45 HCA 149.11 SMA 126.51 ECC .19702 INC 6.5503 VI 29.761
RP 107.55 LAP 3.36 LOP 157.87 VP 37.668 GAP -7.43 AZP 95.63 TAL 162.41 TAP 311.52 RCA 101.59 APO 151.44 V2 35.234
RC 48.656 GL 37.70 GP -36.80 ZAL 60.51 ZAP 41.59 ETS 55.28 ZAE 130.17 ETE 292.80 ZAC 70.41 ETC 141.54 CLP -20.92

PLANETOCENTRIC CONIC

C3 25.050 VHL 5.005 DLA 20.29 RAL 308.15 RAD 6568.0 VEL 12.101 PTH 2.17 VHP 6.659 DPA -53.17 RAP 336.49 ECC 1.4123

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 18 46	2958.80	-28.17	93.43	181.17	87.00	5 8 5	2358.8	-28.29	84.77
90.00	22 2 22	4223.18	.79	173.27	172.92	61.69	23 12 45	3623.2	-3.00	166.64
100.00	5 53 16	2654.09	-29.86	71.09	181.25	88.45	6 37 30	2054.1	-29.75	62.29
100.00	23 10 33	4003.12	2.26	156.28	172.10	60.19	24 17 16	3403.1	-1.72	149.76
110.00	7 29 37	2352.68	-34.12	48.17	181.22	92.22	8 8 49	1752.7	-33.44	39.00
110.00	23 50 42	3877.30	5.89	144.49	169.85	56.27	24 55 19	3277.3	1.41	138.26

DIFFERENTIAL CORRECTIONS
TDE-1.0131 TRA-1.8220 TC3 .2062 BAU .2060
RDE .7175 RRA .9018 RC3 -.5796 FAU .03125
FDE 2.3789 FRA 2.4959 FC3-1.0800 BSP .9409
BDE 1.2415 BRA 2.0330 BC3 .6152 FSP -1091

MID-COURSE EXECUTION ACCURACY
SGT 2516.5 SGR 1490.9 SG3 365.2
RRT -.9382 RRF .9866 RTF -.9548
SGB 2925.0 R23 -.1764 R13 .9743
SG1 2890.3 SG2 449.2 THA 150.14

ORBIT DETERMINATION ACCURACY
ST 1338.0 SR 885.5 SS 1652.7
CRT -.9901 CRS -.9983 CST .9804
LSA 2294.1 MSA 206.5 SSA 8.4
EL1 1601.1 EL2 103.7 ALF 146.61

LAUNCH DATE OCT 2 1965 FLIGHT TIME 138.00 ARRIVAL DATE FEB 17 1966

HELIOCENTRIC CONIC DISTANCE 358.304

RL 149.72 LAL .00 LOL 8.60 VL 26.965 GAL 4.03 AZL 82.70 HCA 152.33 SMA 126.91 ECC .19254 INC 7.2956 VI 29.761
RP 107.57 LAP 3.38 LOP 161.12 VP 37.706 GAP -6.84 AZP 96.47 TAL 162.63 TAP 314.96 RCA 102.48 APO 151.35 V2 35.227
RC 50.208 GL 41.24 GP -41.46 ZAL 62.51 ZAP 46.35 ETS 55.19 ZAE 125.71 ETE 292.70 ZAC 73.95 ETC 141.23 CLP -22.92

PLANETOCENTRIC CONIC

C3 26.847 VHL 5.181 DLA 23.50 RAL 306.47 RAD 6568.1 VEL 12.175 PTH 2.18 VHP 6.676 DPA -56.84 RAP 341.78 ECC 1.4418

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	3 30 14	3126.48	-26.98	105.54	181.82	81.05	4 22 21	2526.5	-27.94	97.01
90.00	22 37 32	4089.77	-3.51	165.83	173.73	61.88	23 45 42	3489.8	-7.25	159.14
100.00	5 10 9	2804.36	-29.06	82.18	182.15	82.67	5 56 53	2204.4	-29.77	73.45
100.00	23 40 19	3887.13	-1.67	149.91	172.71	60.15	24 45 6	3287.1	-5.63	143.37
110.00	6 55 39	2474.28	-34.04	57.66	182.70	86.61	7 36 53	1874.3	-34.13	48.42
110.00	0 15 14	3789.97	2.57	139.91	170.07	55.90	1 18 24	3190.0	-1.92	133.70

DIFFERENTIAL CORRECTIONS
TDE-1.1159 TRA-1.8222 TC3 .1942 BAU .2205
RDE .9569 RRA 1.0216 RC3 -.5827 FAU .02917
FDE 2.5750 FRA 2.4640 FC3 -.9407 BSP .9784
BDE 1.4700 BRA 2.0891 BC3 .6142 FSP -1097

MID-COURSE EXECUTION ACCURACY
SGT 2528.1 SGR 1732.5 SG3 365.4
RRT -.9438 RRF .9910 RTF -.9576
SGB 3064.8 R23 -.1617 R13 .9801
SG1 3027.2 SG2 478.2 THA 146.15

ORBIT DETERMINATION ACCURACY
ST 1339.0 SR 1120.9 SS 1721.1
CRT -.9880 CRS -.9994 CST .9825
LSA 2476.5 MSA 207.3 SSA 7.1
EL1 1787.5 EL2 135.5 ALF 141.37

LAUNCH DATE OCT 2 1965 FLIGHT TIME 140.00 ARRIVAL DATE FEB 19 1966

HELIOCENTRIC CONIC DISTANCE 364.944

RL 149.72 LAL .00 LOL 8.60 VL 27.021 GAL 3.88 AZL 81.78 HCA 155.55 SMA 127.28 ECC .18848 INC 8.2196 VI 29.761
RP 107.60 LAP 3.39 LOP 164.37 VP 37.739 GAP -6.26 AZP 97.49 TAL 162.83 TAP 318.39 RCA 103.29 APO 151.27 V2 35.220
RC 51.850 GL 44.99 GP -46.72 ZAL 64.74 ZAP 51.52 ETS 55.21 ZAE 120.77 ETE 292.50 ZAC 77.87 ETC 141.12 CLP -24.81

PLANETOCENTRIC CONIC

C3 29.719 VHL 5.452 DLA 26.88 RAL 304.58 RAD 6568.2 VEL 12.292 PTH 2.21 VHP 6.824 DPA -60.78 RAP 348.79 ECC 1.4891

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	2 17 18	3375.09	-23.18	122.73	181.76	73.26	3 13 33	2775.1	-25.25	114.68
90.00	23 35 22	3891.86	-9.74	154.62	176.20	63.28	24 40 14	3291.9	-13.25	147.70
100.00	4 11 51	3005.83	-26.45	96.57	182.77	75.54	5 1 57	2405.8	-28.18	88.19
100.00	0 27 26	3736.36	-6.74	141.59	174.59	60.81	1 29 42	3136.4	-10.58	134.91
110.00	6 14 18	2622.67	-32.85	69.07	184.37	79.96	6 58 1	2022.7	-33.88	59.99
110.00	0 41 28	3692.29	-1.17	134.81	171.14	55.83	1 43 0	3092.3	-5.64	128.59

DIFFERENTIAL CORRECTIONS
TDE-1.2484 TRA-1.8300 TC3 .1718 BAU .2329
RDE 1.2687 RRA 1.1569 RC3 -.5604 FAU .02583
FDE 2.7350 FRA 2.3643 FC3 -.7526 BSP 10279
BDE 1.7799 BRA 2.1650 BC3 .5861 FSP -1072

MID-COURSE EXECUTION ACCURACY
SGT 2531.1 SGR 2002.4 SG3 353.1
RRT -.9478 RRF .9939 RTF -.9604
SGB 3227.4 R23 -.1418 R13 .9854
SG1 3187.3 SG2 507.2 THA 142.00

ORBIT DETERMINATION ACCURACY
ST 1462.9 SR 1394.9 SS 1765.1
CRT -.9871 CRS -.9999 CST .9847
LSA 2675.4 MSA 208.2 SSA 5.9
EL1 2014.8 EL2 162.1 ALF 136.38

LAUNCH DATE OCT 2 1965 FLIGHT TIME 142.00 ARRIVAL DATE FEB 21 1966

HELIOCENTRIC CONIC DISTANCE 371.555

RL	149.72	LAL	.00	LOL	8.60	VL	27.071	GAL	3.75	AZL	80.60	HCA	158.76	SMA	127.61	ECC	.18485	INC	9.4034
RP	107.62	LAP	3.39	LOP	167.61	VP	37.767	GAP	-5.70	AZP	98.77	TAL	163.03	TAP	321.79	RCA	104.02	APO	151.20
RC	53.572	GL	48.93	GP	-52.59	ZAL	67.21	ZAP	57.05	ETS	55.40	ZAE	115.30	ETE	292.43	ZAC	82.19	ETC	141.44

VI	29.761	V2	35.212	CLP	-26.44														

PLANETOCENTRIC CONIC

C3	34.272	VHL	5.854	DLA	30.40	RAL	302.41	RAD	6568.4	VEL	12.476	PTH	2.26	VHP	7.158	DPA	-64.74	RAP	358.57

ECC	1.5640																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
78.47	23 12 57	3968.12	-17.33	164.02	180.30	64.63	24 19 5	3368.1	-20.60	156.72
101.53	2 22 25	3370.56	-17.31	120.00	180.29	64.62	3 18 36	2770.6	-20.59	112.70
78.47	23 12 57	3968.12	-17.33	164.02	180.30	64.63	24 19 5	3368.1	-20.60	156.72
101.53	2 22 25	3370.56	-17.31	120.00	180.29	64.62	3 18 36	2770.6	-20.59	112.70
110.00	5 19 59	2814.79	-29.68	83.13	185.61	72.21	6 6 54	2214.8	-31.83	74.57
110.00	1 18 30	3571.89	-5.75	128.51	173.61	56.25	2 18 1	2971.9	-10.15	122.17

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE-1.4268	TRA-1.8516	TC3	.1424	BAU	.2408	SGT	2528.2	SGR	2287.2	SG3	325.7	ST	1532.1	SR	1701.0	SS	1773.4		
RDE 1.6779	RRA 1.3023	RC3	-.5059	FAU	.02121	RRT	-.9506	RRF	.9955	RTF	-.9634	CRT	-.9872	CRS	-1.0000	CST	.9870		
FDE 2.8295	FRA 2.1861	FC3	-.5357	BSP	10956	SGB	3409.2	R23	-.1183	R13	.9900	LSA	2888.3	MSA	208.9	SSA	4.8		
BDE 2.2025	BRA 2.2637	BC3	.5256	FSP	-1010	SG1	3367.3	SG2	533.3	THA	138.01	EL1	2282.0	EL2	182.5	ALF	131.97		

LAUNCH DATE OCT 2 1965 FLIGHT TIME 144.00 ARRIVAL DATE FEB 23 1966

HELIOCENTRIC CONIC DISTANCE 378.128

RL	149.72	LAL	.00	LOL	8.60	VL	27.116	GAL	3.63	AZL	79.02	HCA	161.95	SMA	127.91	ECC	.18161	INC	10.9844
RP	107.64	LAP	3.38	LOP	170.86	VP	37.792	GAP	-5.16	AZP	100.46	TAL	163.21	TAP	325.16	RCA	104.68	APO	151.14
RC	55.368	GL	53.00	GP	-59.01	ZAL	69.93	ZAP	62.80	ETS	56.01	ZAE	109.28	ETE	292.94	ZAC	86.94	ETC	142.62

VI	29.761	V2	35.204	CLP	-27.41														

PLANETOCENTRIC CONIC

C3	41.681	VHL	6.456	DLA	33.97	RAL	299.89	RAD	6568.6	VEL	12.769	PTH	2.32	VHP	7.768	DPA	-68.13	RAP	12.63

ECC	1.6860																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
70.41	22 8 35	4187.06	-17.57	180.82	181.88	60.45	23 18 22	3587.1	-21.36	173.77
109.59	3 6 38	3250.49	-17.55	110.99	181.87	60.44	4 0 49	2650.5	-21.35	103.94
70.41	22 8 35	4187.06	-17.57	180.82	181.88	60.45	23 18 22	3587.1	-21.36	173.77
109.59	3 6 38	3250.49	-17.55	110.99	181.87	60.44	4 0 49	2650.5	-21.35	103.94
110.00	3 38 19	3153.84	-20.58	105.21	183.63	62.09	4 30 53	2553.8	-24.15	97.89
110.00	2 40 1	3331.71	-14.58	115.51	180.06	58.74	3 35 33	2731.7	-18.62	108.72

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE-1.6481	TRA-1.8601	TC3	.1531	BAU	.2583	SGT	2477.9	SGR	2532.5	SG3	279.9	ST	1579.9	SR	1998.7	SS	1716.2		
RDE 2.1927	RRA 1.4196	RC3	-.4375	FAU	.01714	RRT	-.9532	RRF	.9964	RTF	-.9669	CRT	-.9876	CRS	-.9999	CST	.9892		
FDE 2.7982	FRA 1.8965	FC3	-.3560	BSP	13082	SGB	3543.1	R23	-.0928	R13	.9936	LSA	3064.8	MSA	207.6	SSA	3.7		
BDE 2.7431	BRA 2.3399	BC3	.4635	FSP	-988	SG1	3501.4	SG2	541.9	THA	134.35	EL1	2540.2	EL2	195.1	ALF	128.24		

LAUNCH DATE OCT 2 1965 FLIGHT TIME 146.00 ARRIVAL DATE FEB 25 1966

HELIOCENTRIC CONIC DISTANCE 384.671

RL	149.72	LAL	.00	LOL	8.60	VL	27.155	GAL	3.54	AZL	76.78	HCA	165.13	SMA	128.18	ECC	.17878	INC	13.2153
RP	107.67	LAP	3.36	LOP	174.10	VP	37.812	GAP	-4.64	AZP	102.79	TAL	163.33	TAP	328.46	RCA	105.26	APO	151.09
RC	57.230	GL	57.08	GP	-65.86	ZAL	72.87	ZAP	68.58	ETS	57.98	ZAE	102.71	ETE	295.12	ZAC	92.17	ETC	145.77

VI	29.761	V2	35.195	CLP	-26.76														

PLANETOCENTRIC CONIC

C3	54.482	VHL	7.381	DLA	37.45	RAL	296.92	RAD	6569.0	VEL	13.261	PTH	2.42	VHP	8.820	DPA	-69.96	RAP	31.86

ECC	1.8966																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
64.40	21 23 14	4354.45	-16.66	193.55	183.94	55.96	22 35 49	3754.5	-21.01	186.87
115.60	3 28 22	3217.05	-16.65	107.75	183.93	55.96	4 21 59	2617.1	-21.00	101.07
64.40	21 23 14	4354.45	-16.66	193.55	183.94	55.96	22 35 49	3754.5	-21.01	186.87
115.60	3 28 22	3217.05	-16.65	107.75	183.93	55.96	4 21 59	2617.1	-21.00	101.07
64.40	21 23 14	4354.45	-16.66	193.55	183.94	55.96	22 35 49	3754.5	-21.01	186.87
115.60	3 28 22	3217.05	-16.65	107.75	183.93	55.96	4 21 59	2617.1	-21.00	101.07

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE-2.2143	TRA-2.0905	TC3	.0314	BAU	.1968	SGT	2671.0	SGR	2791.1	SG3	233.9	ST	1824.9	SR	2337.2	SS	1684.5		
RDE 2.9511	RRA 1.5798	RC3	-.2683	FAU	.00726	RRT	-.9541	RRF	.9954	RTF	-.9739	CRT	-.9898	CRS	-.9997	CST	.9928		
FDE 2.7771	FRA 1.6659	FC3	-.1154	BSP	11678	SGB	3863.3	R23	-.0641	R13	.9966	LSA	3403.8	MSA	210.6	SSA	3.0		
BDE 3.6895	BRA 2.6203	BC3	.2702	FSP	-713	SG1	3818.8	SG2	584.7	THA	133.68	EL1	2958.1	EL2	205.7	ALF	127.91		

LAUNCH DATE OCT 2 1965 FLIGHT TIME 148.00 ARRIVAL DATE FEB 27 1966

HELIOCENTRIC CONIC DISTANCE 391.147

RL	149.72	LAL	.00	LOL	8.60	VL	27.191	GAL	3.47	AZL	73.39	HCA	168.27	SMA	128.41	ECC	.17633	INC	16.6141
RP	107.70	LAP	3.33	LOP	177.34	VP	37.829	GAP	-4.14	AZP	106.29	TAL	163.41	TAP	331.68	RCA	105.77	APO	151.05
RC	59.152	GL	60.91	GP	-72.94	ZAL	76.05	ZAP	74.17	ETS	64.91	ZAE	95.51	ETE	302.61	ZAC	98.01	ETC	154.58

VI	29.761	V2	35.186	CLP	-21.56														

PLANETOCENTRIC CONIC

C3	78.859	VHL	8.880	DLA	40.54	RAL	293.37	RAD	6569.5	VEL	14.149	PTH	2.58	VHP	10.640	DPA	-69.03	RAP	53.67

ECC	2.2978																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
59.68	20 46 29	4507.62	-14.16	204.42	186.23	51.60	22 1 36	3907.6	-19.03	198.21
120.32	3 36 48	3240.81	-14.15	107.83	186.22	51.60	4 30 48	2640.8	-19.02	101.62
59.68	20 46 29	4507.62	-14.16	204.42	186.23	51.60	22 1 36	3907.6	-19.03	198.21
120.32	3 36 48	3240.81	-14.15	107.83	186.22	51.60	4 30 48	2640.8	-19.02	101.62
59.68	20 46 29	4507.62	-14.16	204.42	186.23	51.60	22 1 36	3907.6	-19.03	198.21
120.32	3 36 48	3240.81	-14.15	107.83	186.22	51.60	4 30 48	2640.8	-19.02	101.62

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE-3.3676	TRA-2.4794	TC3	-.0174	BAU	.1273	SGT	3025.4	SGR	2709.6	SG3	177.2	ST	2262.7	SR	2414.7	SS	1588.5		
RDE 3.6958	RRA 1.4950	RC3	-.1195	FAU	-.00013	RRT	-.9571	RRF	.9907	RTF	-.9856	CRT	-.9923	CRS	-.9990	CST	.9968		
FDE 2.6233	FRA 1.3640	FC3	.0014	BSP	12505	SGB	4061.4	R23	-.0339	R13	.9985	LSA	3664.9	MSA	206.5	SSA	2.3		
BDE 4.9999	BRA 2.8952	BC3	.1207	FSP	-558	SG1	4018.2	SG2	590.9	THA	138.29	EL1	3302.8	EL2	205.5	ALF	133.12		

LAUNCH DATE OCT 2 1965 FLIGHT TIME 150.00 ARRIVAL DATE MAR 1 1966

DISTANCE 397.522

HELIOCENTRIC CONIC
RL 149.72 LAL .00 LOL 8.60 VL 27.221 GAL 3.42 AZL 67.59 HCA 171.34 SMA 128.62 ECC .17429 INC22.4109 V1 29.761
RP 107.73 LAP 3.29 LOP 180.58 VP 37.841 GAP -3.68 AZP 112.18 TAL 163.40 TAP 334.74 RCA 106.20 APO 151.04 V2 35.176
RC 61.127 GL 63.80 GP -79.26 ZAL 79.41 ZAP 79.26 ETS 96.48 ZAE 87.33 ETE 335.03 ZAC 104.94 ETC 188.84 CLP .07

PLANETOCENTRIC CONIC
C3 133.311 VHL 11.546 DLA 42.54 RAL 289.15 RAD 6570.4 VEL 15.958 PTH 2.82 VHP 13.992 DPA -64.60 RAP 72.44 ECC 3.1940

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
56.82	20 17 16	4652.59	-9.78	213.23	188.33	48.39	21 34 49	4052.6	-15.03	207.47
123.18	3 32 17	3317.70	-9.77	110.73	188.32	48.38	4 27 34	2717.7	-15.02	104.97
56.82	20 17 16	4652.59	-9.78	213.23	188.33	48.39	21 34 49	4052.6	-15.03	207.47
123.18	3 32 17	3317.70	-9.77	110.73	188.32	48.38	4 27 34	2717.7	-15.02	104.97
56.82	20 17 16	4652.59	-9.78	213.23	188.33	48.39	21 34 49	4052.6	-15.03	207.47
123.18	3 32 17	3317.70	-9.77	110.73	188.32	48.38	4 27 34	2717.7	-15.02	104.97

DIFFERENTIAL CORRECTIONS
TDE-7.0961 TRA-3.3714 TC3 -.1049 BAU .1949
RDE 1.0576 RRA -.2001 RC3 -.0309 FAU-.00855
FDE 2.4937 FRA 1.1270 FC3 .0555 BSP 13031
BDE 7.1745 BRA 3.3773 BC3 .1093 FSP -403

MID-COURSE EXECUTION ACCURACY
SGT 4197.0 SGR 546.5 SG3 125.9
RRT -.6648 RRF .6755 RTF -.9993
SGB 4232.4 R23 -.0066 R13 .9994
SG1 4212.8 SG2 406.7 THA 175.01

ORBIT DETERMINATION ACCURACY
ST 3586.7 SR 526.4 SS 1521.2
CRT -.9643 CRS -.9667 CST 1.0000
LSA 3928.9 MSA 138.1 SSA 1.8
EL1 3622.4 EL2 138.0 ALF 171.93

LAUNCH DATE OCT 2 1965 FLIGHT TIME 152.00 ARRIVAL DATE MAR 3 1966

DISTANCE 403.667

HELIOCENTRIC CONIC
RL 149.72 LAL .00 LOL 8.60 VL 27.248 GAL 3.43 AZL 55.81 HCA 174.23 SMA 128.80 ECC .17278 INC34.1889 V1 29.761
RP 107.76 LAP 3.24 LOP 183.82 VP 37.851 GAP -3.27 AZP 124.05 TAL 163.19 TAP 337.42 RCA 106.55 APO 151.06 V2 35.166
RC 63.151 GL 63.67 GP -78.47 ZAL 82.84 ZAP 83.58 ETS 163.77 ZAE 76.83 ETE 42.99 ZAC 114.56 ETC 259.80 CLP 56.00

PLANETOCENTRIC CONIC
C3 290.789 VHL 17.053 DLA 41.47 RAL 284.44 RAD 6571.7 VEL 20.300 PTH 3.15 VHP 21.027 DPA -55.72 RAP 85.51 ECC 5.7856

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
58.33	20 4 54	4756.84	-4.15	217.32	189.75	48.70	21 24 11	4156.8	-9.39	211.66
121.67	3 7 5	3457.06	-4.13	117.89	189.74	48.69	4 4 42	2857.1	-9.38	112.22
58.33	20 4 54	4756.84	-4.15	217.32	189.75	48.70	21 24 11	4156.8	-9.39	211.66
121.67	3 7 5	3457.06	-4.13	117.89	189.74	48.69	4 4 42	2857.1	-9.38	112.22
58.33	20 4 54	4756.84	-4.15	217.32	189.75	48.70	21 24 11	4156.8	-9.39	211.66
121.67	3 7 5	3457.06	-4.13	117.89	189.74	48.69	4 4 42	2857.1	-9.38	112.22

DIFFERENTIAL CORRECTIONS
TDE-5.3400 TRA-1.1547 TC3 -.1193 BAU .9179
RDE-9.7666 RRA-4.2765 RC3 -.2038 FAU-.02184
FDE 2.5996 FRA 1.0648 FC3 .0650 BSP 13190
BDE11.1311 BRA 4.4296 BC3 .2361 FSP -283

MID-COURSE EXECUTION ACCURACY
SGT 1911.2 SGR 3863.8 SG3 88.1
RRT .9700 RRF -.9989 RTF -.9771
SGB 4310.7 R23 -.0135 R13 -.9993
SG1 4290.4 SG2 418.1 THA 64.10

ORBIT DETERMINATION ACCURACY
ST 1801.0 SR 3331.7 SS 1608.1
CRT .9962 CRS .9999 CST .9971
LSA 4112.2 MSA 138.6 SSA 1.8
EL1 3784.8 EL2 138.1 ALF 61.66

LAUNCH DATE OCT 2 1965 FLIGHT TIME 154.00 ARRIVAL DATE MAR 5 1966

DISTANCE 409.040

HELIOCENTRIC CONIC
RL 149.72 LAL .00 LOL 8.60 VL 27.271 GAL 3.58 AZL 25.90 HCA 176.47 SMA 128.96 ECC .17240 INC64.1032 V1 29.761
RP 107.80 LAP 3.18 LOP 187.05 VP 37.857 GAP -3.07 AZP 154.06 TAL 162.34 TAP 338.81 RCA 106.73 APO 151.19 V2 35.155
RC 65.219 GL 53.67 GP -61.79 ZAL 85.85 ZAP 86.66 ETS 180.53 ZAE 59.31 ETE 57.61 ZAC 132.33 ETC 282.73 CLP 82.91

PLANETOCENTRIC CONIC
C3 923.644 VHL 30.392 DLA 30.81 RAL 280.70 RAD 6572.9 VEL 32.325 PTH 3.49 VHP 38.178 DPA -37.45 RAP 93.61 ECC16.2008

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
77.33	21 38 3	4526.25	.07	196.03	190.84	59.19	22 53 29	3926.3	-4.02	189.56
102.67	1 4 7	3876.09	.09	148.06	190.83	59.19	2 8 43	3276.1	-4.00	141.59
77.33	21 38 3	4526.25	.07	196.03	190.84	59.19	22 53 29	3926.3	-4.02	189.56
102.67	1 4 7	3876.09	.09	148.06	190.83	59.19	2 8 43	3276.1	-4.00	141.59
110.00	3 46 44	3368.53	-13.27	117.56	198.98	58.21	4 42 52	2768.5	-17.38	110.86
110.00	23 54 36	4081.81	13.44	155.51	182.70	58.27	25 2 38	3481.8	9.15	149.04

DIFFERENTIAL CORRECTIONS
TDE-5.8777 TRA .2851 TC3 -.1043 BAU 3.6436
RD-16.0829 RRA-7.1824 RC3 -.2760 FAU-.06434
FDE 3.3175 FRA 1.5160 FC3 .0603 BSP 11982
BDE17.1233 BRA 7.1881 BC3 .2951 FSP -215

MID-COURSE EXECUTION ACCURACY
SGT 1278.3 SGR 3807.0 SG3 68.9
RRT .8888 RRF -.9997 RTF -.8873
SGB 4015.9 R23 -.0457 R13 -.9987
SG1 3976.5 SG2 560.9 THA 73.04

ORBIT DETERMINATION ACCURACY
ST 1108.4 SR 3069.1 SS 2089.5
CRT .9853 CRS 1.0000 CST .9847
LSA 3870.5 MSA 182.9 SSA 1.7
EL1 3258.3 EL2 178.3 ALF 70.35

LAUNCH DATE OCT 2 1965 FLIGHT TIME 156.00 ARRIVAL DATE MAR 7 1966

DISTANCE 419.950

HELIOCENTRIC CONIC
RL 149.72 LAL .00 LOL 8.60 VL 27.290 GAL 2.74 AZL 151.49 HCA 183.53 SMA 129.09 ECC .16664 INC61.4866 V1 29.761
RP 107.83 LAP 3.10 LOP 190.28 VP 37.861 GAP -1.48 AZP 28.56 TAL 166.07 TAP 349.61 RCA 107.58 APO 150.60 V2 35.143
RC 67.327 GL -54.89 GP 62.01 ZAL 86.47 ZAP 88.22 ETS 190.38 ZAE 72.79 ETE 306.08 ZAC 103.26 ETC 86.02 CLP 86.21

PLANETOCENTRIC CONIC
C3 857.346 VHL 29.280 DLA -76.36 RAL 308.36 RAD 6572.8 VEL 31.283 PTH 3.47 VHP 38.126 DPA 86.45 RAP 91.58 ECC15.1097

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
15.53	7 42 18	2446.29	.09	81.70	218.32	166.36	8 23 4	1846.3	7.86	80.22
164.47	18 40 31	660.49	.10	284.18	218.35	166.36	18 51 32	60.5	7.87	282.70
15.53	7 42 18	2446.29	.09	81.70	218.32	166.36	8 23 4	1846.3	7.86	80.22
164.47	18 40 31	660.49	.10	284.18	218.35	166.36	18 51 32	60.5	7.87	282.70
15.53	7 42 18	2446.29	.09	81.70	218.32	166.36	8 23 4	1846.3	7.86	80.22
164.47	18 40 31	660.49	.10	284.18	218.35	166.36	18 51 32	60.5	7.87	282.70

DIFFERENTIAL CORRECTIONS
TDE 7.4267 TRA-1.3343 TC3 -.1513 BAU 3.5051
RDE-7.8976 RRA 3.4336 RC3 .2658 FAU-.05909
FDE-2.0917 FRA .7718 FC3 .0597 BSP 11874
BDE10.8410 BRA 3.6838 BC3 .3058 FSP -212

MID-COURSE EXECUTION ACCURACY
SGT 2030.6 SGR 3596.3 SG3 72.3
RRT -.9286 RRF .9978 RTF -.9499
SGB 4130.0 R23 -.0251 R13 .9994
SG1 4076.1 SG2 664.9 THA 118.50

ORBIT DETERMINATION ACCURACY
ST 1491.0 SR 1766.8 SS 1489.9
CRT -.9609 CRS -.9978 CST .9771
LSA 2731.1 MSA 324.6 SSA 1.7
EL1 2289.8 EL2 318.6 ALF 129.97

LAUNCH DATE OCT 2 1965 FLIGHT TIME 158.00 ARRIVAL DATE MAR 9 1966

HELIOCENTRIC CONIC DISTANCE 425.288

RL 149.72 LAL .00 LOL 8.60 VL 27.306 GAL 2.92 AZL 121.62 HCA 185.77 SMA 129.20 ECC .16661 INC31.6239 V1 29.761
RP 107.87 LAP 3.02 LOP 193.51 VP 37.862 GAP -1.30 AZP 58.51 TAL 165.11 TAP 350.88 RCA 107.67 APO 150.73 V2 35.132
RC 69.470 GL -64.56 GP 80.20 ZAL 83.15 ZAP 87.07 ETS 217.23 ZAE 89.69 ETE 329.22 ZAC 85.57 ETC 109.42 CLP 72.55

PLANETOCENTRIC CONIC

C3 250.744 VHL 15.835 DLA -79.65 RAL .39 RAD 6571.5 VEL 19.289 PTH 3.10 VHP 20.944 DPA 75.04 RAP 285.40 ECC 5.1266

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
11.77	11 2 26	2342.49	7.42	82.66	269.02	169.56	11 41 28	1742.5	15.29	81.58
168.23	22 15 31	5833.37	7.43	259.37	269.04	169.56	23 52 44	5233.4	15.29	258.29
11.77	11 2 26	2342.49	7.42	82.66	269.02	169.56	11 41 28	1742.5	15.29	81.58
168.23	22 15 31	5833.37	7.43	259.37	269.04	169.56	23 52 44	5233.4	15.29	258.29
11.77	11 2 26	2342.49	7.42	82.66	269.02	169.56	11 41 28	1742.5	15.29	81.58
168.23	22 15 31	5833.37	7.43	259.37	269.04	169.56	23 52 44	5233.4	15.29	258.29

DIFFERENTIAL CORRECTIONS
TDE-1.6162 TRA-1.7437 TC3 -.1797 BAU .8038
RDE 3.3502 RRA 1.3082 RC3 .1588 FAU-.01462
FDE .8866 FRA .5201 FC3 .0505 BSP 14325
BDE 3.7197 BRA 2.1799 BC3 .2398 FSP -301

MID-COURSE EXECUTION ACCURACY
SGT 3606.0 SGR 2943.9 SG3 95.7
RRT -.9657 RRF .9909 RTF -.9914
SGB 4655.1 R23 -.0250 R13 .9995
SG1 4616.6 SG2 597.5 THA 140.97

ORBIT DETERMINATION ACCURACY
ST 1205.3 SR 1447.3 SS 812.8
CRT -.8841 CRS -.9806 CST .9585
LSA 2002.4 MSA 445.4 SSA 1.2
EL1 1830.0 EL2 445.4 ALF 129.12

LAUNCH DATE OCT 2 1965 FLIGHT TIME 160.00 ARRIVAL DATE MAR 11 1966

HELIOCENTRIC CONIC DISTANCE 431.344

RL 149.72 LAL .00 LOL 8.60 VL 27.319 GAL 2.98 AZL 109.86 HCA 188.65 SMA 129.29 ECC .16618 INC19.8630 V1 29.761
RP 107.90 LAP 2.93 LOP 196.74 VP 37.860 GAP -.94 AZP 70.35 TAL 164.74 TAP 353.39 RCA 107.80 APO 150.77 V2 35.120
RC 71.643 GL -63.98 GP 86.48 ZAL 79.28 ZAP 86.53 ETS 289.51 ZAE 98.75 ETE 39.31 ZAC 76.55 ETC 177.35 CLP -9.02

PLANETOCENTRIC CONIC

C3 106.396 VHL 10.315 DLA -75.86 RAL 5.32 RAD 6570.0 VEL 15.091 PTH 2.71 VHP 13.819 DPA 65.33 RAP 286.44 ECC 2.7510

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
16.11	11 30 43	2187.89	17.06	78.08	270.88	165.20	12 7 11	1587.9	24.78	76.25
163.89	22 26 35	5692.21	17.07	259.04	270.90	165.19	24 1 27	5092.2	24.79	257.21
16.11	11 30 43	2187.89	17.06	78.08	270.88	165.20	12 7 11	1587.9	24.78	76.25
163.89	22 26 35	5692.21	17.07	259.04	270.90	165.19	24 1 27	5092.2	24.79	257.21
16.11	11 30 43	2187.89	17.06	78.08	270.88	165.20	12 7 11	1587.9	24.78	76.25
163.89	22 26 35	5692.21	17.07	259.04	270.90	165.19	24 1 27	5092.2	24.79	257.21

DIFFERENTIAL CORRECTIONS
TDE-3.0423 TRA-1.5537 TC3 -.0663 BAU .1014
RDE-1.0595 RRA-1.1857 RC3 .0264 FAU .00120
FDE 1.1001 FRA .6508 FC3 -.0097 BSP 15001
BDE 3.2215 BRA 1.9544 BC3 .0713 FSP -443

MID-COURSE EXECUTION ACCURACY
SGT 3918.8 SGR 2760.1 SG3 138.4
RRT .9719 RRF -.9844 RTF -.9974
SGB 4793.2 R23 .0141 R13 -.9993
SG1 4763.3 SG2 534.4 THA 34.90

ORBIT DETERMINATION ACCURACY
ST 1994.8 SR 1000.3 SS 901.9
CRT .9281 CRS .9513 CST .9977
LSA 2383.2 MSA 336.9 SSA 1.9
EL1 2206.0 EL2 336.9 ALF 25.60

LAUNCH DATE OCT 2 1965 FLIGHT TIME 162.00 ARRIVAL DATE MAR 13 1966

HELIOCENTRIC CONIC DISTANCE 437.582

RL 149.72 LAL .00 LOL 8.60 VL 27.329 GAL 3.02 AZL 104.07 HCA 191.71 SMA 129.36 ECC .16580 INC14.0727 V1 29.761
RP 107.94 LAP 2.83 LOP 199.96 VP 37.855 GAP -.54 AZP 76.21 TAL 164.51 TAP 356.22 RCA 107.91 APO 150.80 V2 35.108
RC 73.845 GL -60.12 GP 81.88 ZAL 75.35 ZAP 86.80 ETS 327.25 ZAE 104.91 ETE 75.34 ZAC 70.41 ETC 210.66 CLP -66.71

PLANETOCENTRIC CONIC

C3 58.571 VHL 7.653 DLA -71.68 RAL 358.23 RAD 6569.1 VEL 13.414 PTH 2.45 VHP 10.326 DPA 58.62 RAP 287.15 ECC 1.9639

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
20.92	11 12 18	2041.22	25.44	71.59	259.16	159.63	11 46 20	1441.2	32.90	68.69
159.08	21 48 26	5565.84	25.45	257.41	259.18	159.62	23 21 12	4965.8	32.91	254.52
20.92	11 12 18	2041.22	25.44	71.59	259.16	159.63	11 46 20	1441.2	32.90	68.69
159.08	21 48 26	5565.84	25.45	257.41	259.18	159.62	23 21 12	4965.8	32.91	254.52
20.92	11 12 18	2041.22	25.44	71.59	259.16	159.63	11 46 20	1441.2	32.90	68.69
159.08	21 48 26	5565.84	25.45	257.41	259.18	159.62	23 21 12	4965.8	32.91	254.52

DIFFERENTIAL CORRECTIONS
TDE-1.1698 TRA -.4908 TC3 -.0318 BAU .2248
RDE-1.4107 RRA-1.8854 RC3 .2853 FAU .01207
FDE .8917 FRA .9140 FC3 -.1783 BSP 15191
BDE 1.8327 BRA 1.9482 BC3 .2871 FSP -636

MID-COURSE EXECUTION ACCURACY
SGT 1461.3 SGR 4632.9 SG3 198.1
RRT .9086 RRF -.9975 RTF -.9297
SGB 4857.9 R23 .0208 R13 -.9989
SG1 4822.4 SG2 586.4 THA 73.76

ORBIT DETERMINATION ACCURACY
ST 943.4 SR 1711.7 SS 833.2
CRT .8653 CRS .9914 CST .9235
LSA 2081.8 MSA 424.5 SSA 2.5
EL1 1907.8 EL2 424.3 ALF 63.06

LAUNCH DATE OCT 2 1965 FLIGHT TIME 164.00 ARRIVAL DATE MAR 15 1966

HELIOCENTRIC CONIC DISTANCE 443.875

RL 149.72 LAL .00 LOL 8.60 VL 27.336 GAL 3.05 AZL 100.68 HCA 194.83 SMA 129.41 ECC .16557 INC10.6769 V1 29.761
RP 107.98 LAP 2.72 LOP 203.18 VP 37.849 GAP -.12 AZP 79.67 TAL 164.29 TAP 359.12 RCA 107.98 APO 150.83 V2 35.095
RC 76.070 GL -55.14 GP 76.79 ZAL 71.53 ZAP 87.88 ETS 342.26 ZAE 109.69 ETE 89.12 ZAC 65.42 ETC 221.37 CLP -80.68

PLANETOCENTRIC CONIC

C3 37.987 VHL 6.163 DLA -67.09 RAL 350.89 RAD 6568.5 VEL 12.624 PTH 2.29 VHP 8.323 DPA 53.18 RAP 287.32 ECC 1.6252

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
26.25	10 54 32	1918.08	31.24	63.42	246.03	152.91	11 26 30	1318.1	38.29	59.21
153.75	21 7 38	5472.59	31.25	254.89	246.04	152.91	22 38 50	4872.6	38.29	250.68
26.25	10 54 32	1918.08	31.24	63.42	246.03	152.91	11 26 30	1318.1	38.29	59.21
153.75	21 7 38	5472.59	31.25	254.89	246.04	152.91	22 38 50	4872.6	38.29	250.68
26.25	10 54 32	1918.08	31.24	63.42	246.03	152.91	11 26 30	1318.1	38.29	59.21
153.75	21 7 38	5472.59	31.25	254.89	246.04	152.91	22 38 50	4872.6	38.29	250.68

DIFFERENTIAL CORRECTIONS
TDE -.6158 TRA -.0209 TC3 -.1503 BAU .3359
RDE -.8223 RRA-1.9759 RC3 .6442 FAU .02217
FDE .6898 FRA 1.2575 FC3 -.5053 BSP 15242
BDE 1.0273 BRA 1.9760 BC3 .6615 FSP -870

MID-COURSE EXECUTION ACCURACY
SGT 603.7 SGR 4845.3 SG3 270.7
RRT .1798 RRF -.9982 RTF -.2123
SGB 4882.8 R23 .0306 R13 -.9983
SG1 4846.6 SG2 593.7 THA 88.70

ORBIT DETERMINATION ACCURACY
ST 572.7 SR 1608.9 SS 795.3
CRT .4978 CRS .9924 CST .6007
LSA 1818.9 MSA 490.5 SSA 3.3
EL1 1636.5 EL2 488.3 ALF 78.96

LAUNCH DATE OCT 2 1965 FLIGHT TIME 166.00 ARRIVAL DATE MAR 17 1966

HELIOCENTRIC CONIC DISTANCE 450.183

RL 149.72 LAL .00 LOL 8.60 VL 27.341 GAL 3.09 AZL 98.45 HCA 197.99 SMA 129.44 ECC .16553 INC 8.4477 V1 29.761
RP 108.02 LAP 2.60 LOP 206.40 VP 37.840 GAP .29 AZP 81.96 TAL 164.06 TAP 2.05 RCA 108.01 APO 150.86 V2 35.082
RC 78.316 GL -49.83 GP 72.18 ZAL 67.92 ZAP 89.69 ETS 351.61 ZAE 113.62 ETE 97.80 ZAC 60.95 ETC 226.63 CLP -89.00

PLANETOCENTRIC CONIC

C3 27.552 VHL 5.249 DLA -62.24 RAL 345.06 RAD 6568.1 VEL 12.204 PTH 2.19 VHP 7.054 DPA 48.39 RAP 287.08 ECC 1.4534

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
31.94	10 44 28	1816.51	34.47	54.20	233.86	145.60	11 14 45	1216.5	40.93	48.65
148.06	20 31 10	5412.62	34.49	252.12	233.88	145.59	22 1 23	4812.6	40.95	246.56
31.94	10 44 28	1816.51	34.47	54.20	233.86	145.60	11 14 45	1216.5	40.93	48.65
148.06	20 31 10	5412.62	34.49	252.12	233.88	145.59	22 1 23	4812.6	40.95	246.56
31.94	10 44 28	1816.51	34.47	54.20	233.86	145.60	11 14 45	1216.5	40.93	48.65
148.06	20 31 10	5412.62	34.49	252.12	233.88	145.59	22 1 23	4812.6	40.95	246.56

DIFFERENTIAL CORRECTIONS

TDE -.4142 TRA .2895 TC3 -.3732 BAU .3980
RDE -.4705 RRA-1.9850 RC3 1.0139 FAU .03221
FDE .5606 FRA 1.6553 FC3-1.0122 BSP 15284
BDE .6268 BRA 2.0060 BC3 1.0804 FSP -1137

MID-COURSE EXECUTION ACCURACY

SGT 904.5 SGR 4799.7 SG3 351.5
RRT -.7695 RRF -.9982 RTF .7531
SGB 4884.2 R23 .0408 R13 -.9976
SG1 4850.6 SG2 571.6 THA 98.37

ORBIT DETERMINATION ACCURACY

ST 495.9 SR 1487.4 SS 801.5
CRT -.0708 CRS .9914 CST .0604
LSA 1687.2 MSA 504.0 SSA 4.1
EL1 1487.9 EL2 494.5 ALF 91.52

LAUNCH DATE OCT 2 1965 FLIGHT TIME 168.00 ARRIVAL DATE MAR 19 1966

HELIOCENTRIC CONIC DISTANCE 456.488

RL 149.72 LAL .00 LOL 8.60 VL 27.343 GAL 3.15 AZL 96.87 HCA 201.16 SMA 129.45 ECC .16569 INC 6.8679 V1 29.761
RP 108.06 LAP 2.47 LOP 209.62 VP 37.830 GAP .70 AZP 83.59 TAL 163.80 TAP 4.96 RCA 108.00 APO 150.90 V2 35.069
RC 80.581 GL -44.53 GP 67.90 ZAL 64.59 ZAP 92.15 ETS 358.75 ZAE 116.92 ETE 104.87 ZAC 56.75 ETC 229.93 CLP -95.72

PLANETOCENTRIC CONIC

C3 21.676 VHL 4.656 DLA -57.33 RAL 340.67 RAD 6567.9 VEL 11.961 PTH 2.13 VHP 6.199 DPA 43.96 RAP 286.54 ECC 1.3567

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
37.82	10 41 51	1730.03	35.62	44.67	223.31	138.39	11 10 41	1130.0	41.40	38.01
142.18	19 58 46	5381.36	35.63	249.83	223.33	138.39	21 28 27	4781.4	41.41	243.16
37.82	10 41 51	1730.03	35.62	44.67	223.31	138.39	11 10 41	1130.0	41.40	38.01
142.18	19 58 46	5381.36	35.63	249.83	223.33	138.39	21 28 27	4781.4	41.41	243.16
37.82	10 41 51	1730.03	35.62	44.67	223.31	138.39	11 10 41	1130.0	41.40	38.01
142.18	19 58 46	5381.36	35.63	249.83	223.33	138.39	21 28 27	4781.4	41.41	243.16

DIFFERENTIAL CORRECTIONS

TDE -.3110 TRA .5506 TC3 -.6822 BAU .4364
RDE -.3028 RRA-1.9608 RC3 1.3425 FAU .04196
FDE .5145 FRA 2.0862 FC3-1.6759 BSP 15269
BDE .4340 BRA 2.0366 BC3 1.5059 FSP -1417

MID-COURSE EXECUTION ACCURACY

SGT 1458.0 SGR 4656.8 SG3 435.9
RRT -.9225 RRF -.9980 RTF .9134
SGB 4879.7 R23 .0511 R13 -.9968
SG1 4849.7 SG2 540.5 THA 106.32

ORBIT DETERMINATION ACCURACY

ST 537.2 SR 1392.4 SS 836.4
CRT -.4855 CRS .9893 CST -.3527
LSA 1640.7 MSA 485.1 SSA 4.9
EL1 1419.6 EL2 460.7 ALF 101.88

LAUNCH DATE OCT 2 1965 FLIGHT TIME 170.00 ARRIVAL DATE MAR 21 1966

HELIOCENTRIC CONIC DISTANCE 462.782

RL 149.72 LAL .00 LOL 8.60 VL 27.343 GAL 3.21 AZL 95.69 HCA 204.34 SMA 129.45 ECC .16605 INC 5.6851 V1 29.761
RP 108.10 LAP 2.34 LOP 212.83 VP 37.818 GAP 1.12 AZP 84.82 TAL 163.51 TAP 7.85 RCA 107.96 APO 150.95 V2 35.056
RC 82.862 GL -39.42 GP 63.83 ZAL 61.57 ZAP 95.13 ETS 4.62 ZAE 119.67 ETE 111.31 ZAC 52.71 ETC 232.22 CLP-101.70

PLANETOCENTRIC CONIC

C3 18.137 VHL 4.259 DLA -52.52 RAL 337.39 RAD 6567.7 VEL 11.812 PTH 2.09 VHP 5.603 DPA 39.77 RAP 285.84 ECC 1.2985

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
43.72	10 45 28	1652.30	35.25	35.35	214.56	131.84	11 13 0	1052.3	40.34	27.95
136.28	19 28 57	5374.39	35.26	248.58	214.58	131.83	20 58 32	4774.4	40.35	241.17
43.72	10 45 28	1652.30	35.25	35.35	214.56	131.84	11 13 0	1052.3	40.34	27.95
136.28	19 28 57	5374.39	35.26	248.58	214.58	131.83	20 58 32	4774.4	40.35	241.17
43.72	10 45 28	1652.30	35.25	35.35	214.56	131.84	11 13 0	1052.3	40.34	27.95
136.28	19 28 57	5374.39	35.26	248.58	214.58	131.83	20 58 32	4774.4	40.35	241.17

DIFFERENTIAL CORRECTIONS

TDE -.2344 TRA .7897 TC3-1.0549 BAU .4644
RDE -.2339 RRA-1.9107 RC3 1.5986 FAU .05114
FDE .5411 FRA 2.5244 FC3-2.4411 BSP 15254
BDE .3311 BRA 2.0674 BC3 1.9152 FSP -1696

MID-COURSE EXECUTION ACCURACY

SGT 1989.0 SGR 4450.0 SG3 518.5
RRT -.9605 RRF -.9977 RTF .9539
SGB 4874.3 R23 .0613 R13 -.9960
SG1 4847.7 SG2 507.8 THA 113.51

ORBIT DETERMINATION ACCURACY

ST 612.0 SR 1306.6 SS 884.4
CRT -.7076 CRS .9861 CST -.5807
LSA 1630.0 MSA 455.1 SSA 5.7
EL1 1383.8 EL2 408.3 ALF 110.17

LAUNCH DATE OCT 2 1965 FLIGHT TIME 172.00 ARRIVAL DATE MAR 23 1966

HELIOCENTRIC CONIC DISTANCE 469.061

RL 149.72 LAL .00 LOL 8.60 VL 27.341 GAL 3.28 AZL 94.76 HCA 207.52 SMA 129.44 ECC .16660 INC 4.7619 V1 29.761
RP 108.14 LAP 2.20 LOP 216.04 VP 37.804 GAP 1.52 AZP 85.77 TAL 163.18 TAP 10.70 RCA 107.87 APO 151.00 V2 35.043
RC 85.157 GL -34.61 GP 59.90 ZAL 58.86 ZAP 98.52 ETS 9.58 ZAE 121.93 ETE 117.40 ZAC 48.80 ETC 233.82 CLP-107.19

PLANETOCENTRIC CONIC

C3 15.918 VHL 3.990 DLA -47.92 RAL 334.92 RAD 6567.6 VEL 11.718 PTH 2.06 VHP 5.181 DPA 35.74 RAP 285.06 ECC 1.2620

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
49.57	10 54 25	1577.91	33.89	26.42	207.57	126.17	11 20 43	977.9	38.34	18.60
130.43	19 0 19	5388.65	33.90	248.70	207.58	126.16	20 30 8	4788.6	38.35	240.88
49.57	10 54 25	1577.91	33.89	26.42	207.57	126.17	11 20 43	977.9	38.34	18.60
130.43	19 0 19	5388.65	33.90	248.70	207.58	126.16	20 30 8	4788.6	38.35	240.88
49.57	10 54 25	1577.91	33.89	26.42	207.57	126.17	11 20 43	977.9	38.34	18.60
130.43	19 0 19	5388.65	33.90	248.70	207.58	126.16	20 30 8	4788.6	38.35	240.88

DIFFERENTIAL CORRECTIONS

TDE -.1599 TRA 1.0159 TC3-1.4612 BAU .4872
RDE -.2134 RRA-1.8411 RC3 1.7622 FAU .05929
FDE .6254 FRA 2.9471 FC3-3.2247 BSP 15273
BDE .2666 BRA 2.1028 BC3 2.2892 FSP -1958

MID-COURSE EXECUTION ACCURACY

SGT 2480.2 SGR 4199.7 SG3 594.3
RRT -.9752 RRF -.9973 RTF .9697
SGB 4877.4 R23 .0702 R13 -.9950
SG1 4854.2 SG2 474.5 THA 120.26

ORBIT DETERMINATION ACCURACY

ST 693.2 SR 1223.4 SS 939.2
CRT -.8304 CRS .9822 CST -.7109
LSA 1637.1 MSA 423.0 SSA 6.6
EL1 1362.7 EL2 346.8 ALF 117.09

LAUNCH DATE OCT 2 1965 FLIGHT TIME 174.00 ARRIVAL DATE MAR 25 1966

HELIOCENTRIC CONIC DISTANCE 475.323

RL 149.72 LAL .00 LOL 8.60 VL 27.337 GAL 3.37 AZL 94.02 HCA 210.71 SMA 129.41 ECC .16735 INC 4.0174 V1 29.761
RP 108.18 LAP 2.05 LOP 219.24 VP 37.789 GAP 1.93 AZP 86.54 TAL 162.80 TAP 13.51 RCA 107.75 APO 151.07 V2 35.030
RC 87.465 GL -30.13 GP 56.10 ZAL 56.46 ZAP 102.21 ETS 13.77 ZAE 123.71 ETE 123.23 ZAC 45.01 ETC 234.81 CLP-112.28

PLANETOCENTRIC CONIC

C3 14.505 VHL 3.809 DLA -43.59 RAL 333.06 RAD 6567.6 VEL 11.657 PTH 2.05 VHP 4.884 DPA 31.86 RAP 284.29 ECC 1.2387

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
55.36	11 8 25	1502.03	31.94	17.78	202.13	121.40	11 33 27	902.0	35.83	9.77
124.64	18 31 31	5422.81	31.96	250.33	202.13	121.38	20 1 54	4822.8	35.85	242.32
55.36	11 8 25	1502.03	31.94	17.78	202.13	121.40	11 33 27	902.0	35.83	9.77
124.64	18 31 31	5422.81	31.96	250.33	202.13	121.38	20 1 54	4822.8	35.85	242.32
55.36	11 8 25	1502.03	31.94	17.78	202.13	121.40	11 33 27	902.0	35.83	9.77
124.64	18 31 31	5422.81	31.96	250.33	202.13	121.38	20 1 54	4822.8	35.85	242.32

DIFFERENTIAL CORRECTIONS
TDE -.0792 TRA 1.2319 TC3-1.8710 BAU .5079
RDE -.2138 RRA-1.7573 RC3 1.8331 FAU .06608
FDE .7511 FRA 3.3328 FC3-3.9441 BSP 15325
BDE .2280 BRA 2.1461 BC3 2.6193 FSP -2188

MID-COURSE EXECUTION ACCURACY
SGT 2931.1 SGR 3921.0 SG3 659.2
RRT -.9823 RRF -.9968 RTF .9773
SGB 4895.5 R23 .0770 R13 -.9939
SG1 4875.6 SG2 441.2 THA 126.64

ORBIT DETERMINATION ACCURACY
ST 777.9 SR 1142.0 SS 998.3
CRT -.9049 CRS .9775 CST -.7950
LSA 1659.0 MSA 391.8 SSA 7.6
EL1 1353.2 EL2 279.4 ALF 123.25

LAUNCH DATE OCT 2 1965 FLIGHT TIME 176.00 ARRIVAL DATE MAR 27 1966

HELIOCENTRIC CONIC DISTANCE 481.565

RL 149.72 LAL .00 LOL 8.60 VL 27.331 GAL 3.47 AZL 93.40 HCA 213.90 SMA 129.37 ECC .16829 INC 3.4010 V1 29.761
RP 108.22 LAP 1.90 LOP 222.45 VP 37.772 GAP 2.33 AZP 87.18 TAL 162.39 TAP 16.28 RCA 107.60 APO 151.14 V2 35.016
RC 89.783 GL -26.01 GP 52.42 ZAL 54.33 ZAP 106.07 ETS 17.30 ZAE 125.04 ETE 128.79 ZAC 41.39 ETC 235.21 CLP-117.00

PLANETOCENTRIC CONIC

C3 13.618 VHL 3.690 DLA -39.55 RAL 331.67 RAD 6567.5 VEL 11.619 PTH 2.04 VHP 4.680 DPA 28.13 RAP 283.58 ECC 1.2241

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
61.15	11 27 48	1419.33	29.69	9.13	197.99	117.43	11 51 27	819.3	33.10	1.07
118.85	18 0 59	5477.75	29.70	253.61	197.99	117.41	19 32 17	4877.8	33.11	245.55
61.15	11 27 48	1419.33	29.69	9.13	197.99	117.43	11 51 27	819.3	33.10	1.07
118.85	18 0 59	5477.75	29.70	253.61	197.99	117.41	19 32 17	4877.8	33.11	245.55
61.15	11 27 48	1419.33	29.69	9.13	197.99	117.43	11 51 27	819.3	33.10	1.07
118.85	18 0 59	5477.75	29.70	253.61	197.99	117.41	19 32 17	4877.8	33.11	245.55

DIFFERENTIAL CORRECTIONS
TDE .0108 TRA 1.4403 TC3-2.2551 BAU .5269
RDE -.2225 RRA-1.6665 RC3 1.8135 FAU .07096
FDE .9062 FRA 3.6697 FC3-4.5108 BSP 15377
BDE .2227 BRA 2.2026 BC3 2.8938 FSP -2365

MID-COURSE EXECUTION ACCURACY
SGT 3343.7 SGR 3629.0 SG3 710.7
RRT -.9860 RRF -.9961 RTF .9814
SGB 4934.6 R23 .0810 R13 -.9928
SG1 4917.4 SG2 411.8 THA 132.62

ORBIT DETERMINATION ACCURACY
ST 871.6 SR 1065.0 SS 1062.4
CRT -.9519 CRS .9725 CST -.8547
LSA 1700.2 MSA 363.1 SSA 8.6
EL1 1360.2 EL2 209.1 ALF 129.02

LAUNCH DATE OCT 2 1965 FLIGHT TIME 178.00 ARRIVAL DATE MAR 29 1966

HELIOCENTRIC CONIC DISTANCE 487.785

RL 149.72 LAL .00 LOL 8.60 VL 27.323 GAL 3.58 AZL 92.88 HCA 217.08 SMA 129.32 ECC .16942 INC 2.8793 V1 29.761
RP 108.26 LAP 1.74 LOP 225.65 VP 37.755 GAP 2.72 AZP 87.70 TAL 161.93 TAP 19.01 RCA 107.41 APO 151.23 V2 35.003
RC 92.112 GL -22.24 GP 48.89 ZAL 52.45 ZAP 110.02 ETS 20.26 ZAE 125.95 ETE 134.02 ZAC 37.97 ETC 235.02 CLP-121.38

PLANETOCENTRIC CONIC

C3 13.095 VHL 3.619 DLA -35.81 RAL 330.62 RAD 6567.5 VEL 11.597 PTH 2.03 VHP 4.549 DPA 24.56 RAP 282.99 ECC 1.2155

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
67.10	11 53 52	1322.66	27.31	359.92	194.91	114.12	12 15 54	722.7	30.32	351.88
112.90	17 26 36	5557.41	27.32	258.82	194.91	114.11	18 59 14	4957.4	30.33	250.78
67.10	11 53 52	1322.66	27.31	359.92	194.91	114.12	12 15 54	722.7	30.32	351.88
112.90	17 26 36	5557.41	27.32	258.82	194.91	114.11	18 59 14	4957.4	30.33	250.78
67.10	11 53 52	1322.66	27.31	359.92	194.91	114.12	12 15 54	722.7	30.32	351.88
112.90	17 26 36	5557.41	27.32	258.82	194.91	114.11	18 59 14	4957.4	30.33	250.78

DIFFERENTIAL CORRECTIONS
TDE .1082 TRA 1.6399 TC3-2.5993 BAU .5472
RDE -.2279 RRA-1.5696 RC3 1.7361 FAU .07429
FDE 1.0668 FRA 3.9393 FC3-4.9111 BSP 15544
BDE .2523 BRA 2.2700 BC3 3.1258 FSP -2502

MID-COURSE EXECUTION ACCURACY
SGT 3717.4 SGR 3331.7 SG3 746.4
RRT -.9880 RRF -.9952 RTF .9839
SGB 4992.0 R23 .0811 R13 -.9919
SG1 4977.2 SG2 383.7 THA 138.17

ORBIT DETERMINATION ACCURACY
ST 977.3 SR 988.4 SS 1124.7
CRT -.9804 CRS .9670 CST -.8981
LSA 1756.0 MSA 336.8 SSA 9.7
EL1 1383.1 EL2 137.6 ALF 134.67

LAUNCH DATE OCT 2 1965 FLIGHT TIME 180.00 ARRIVAL DATE MAR 31 1966

HELIOCENTRIC CONIC DISTANCE 493.984

RL 149.72 LAL .00 LOL 8.60 VL 27.314 GAL 3.71 AZL 92.43 HCA 220.27 SMA 129.26 ECC .17075 INC 2.4296 V1 29.761
RP 108.31 LAP 1.57 LOP 228.84 VP 37.736 GAP 3.12 AZP 88.15 TAL 161.43 TAP 21.70 RCA 107.19 APO 151.33 V2 34.990
RC 94.449 GL -18.81 GP 45.53 ZAL 50.78 ZAP 113.96 ETS 22.72 ZAE 126.49 ETE 138.87 ZAC 34.79 ETC 234.18 CLP-125.43

PLANETOCENTRIC CONIC

C3 12.837 VHL 3.583 DLA -32.37 RAL 329.86 RAD 6567.5 VEL 11.586 PTH 2.03 VHP 4.477 DPA 21.18 RAP 282.54 ECC 1.2113

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
73.62	12 30 19	1197.81	24.93	349.08	192.69	111.35	12 50 17	597.8	27.60	341.09
106.38	16 44 5	5673.70	24.94	266.77	192.69	111.34	18 18 39	5073.7	27.61	258.78
73.62	12 30 19	1197.81	24.93	349.08	192.69	111.35	12 50 17	597.8	27.60	341.09
106.38	16 44 5	5673.70	24.94	266.77	192.69	111.34	18 18 39	5073.7	27.61	258.78
110.00	15 42 53	5862.99	18.46	278.03	189.39	119.29	17 20 36	5263.0	22.22	270.91
110.00	18 30 42	5344.56	31.77	243.84	195.11	103.32	19 59 46	4744.6	33.28	234.94

DIFFERENTIAL CORRECTIONS
TDE .2117 TRA 1.8323 TC3-2.8912 BAU .5684
RDE -.2281 RRA-1.4719 RC3 1.8159 FAU .07593
FDE 1.2217 FRA 4.1397 FC3-5.1207 BSP 15794
BDE .3112 BRA 2.3503 BC3 3.3121 FSP -2591

MID-COURSE EXECUTION ACCURACY
SGT 4055.0 SGR 3039.8 SG3 766.6
RRT -.9890 RRF -.9939 RTF .9855
SGB 5067.9 R23 .0772 R13 -.9910
SG1 5055.0 SG2 360.6 THA 143.23

ORBIT DETERMINATION ACCURACY
ST 1096.2 SR 912.8 SS 1183.2
CRT -.9951 CRS .9606 CST -.9291
LSA 1826.5 MSA 314.3 SSA 10.7
EL1 1424.9 EL2 69.1 ALF 140.24

LAUNCH DATE OCT 2 1965 FLIGHT TIME 182.00 ARRIVAL DATE APR 2 1966

HELIOCENTRIC CONIC DISTANCE 500.161

RL 149.72 LAL .00 LOL 8.60 VL 27.304 GAL 3.85 AZL 92.04 HCA 223.46 SMA 129.18 ECC .17227 INC 2.0357 V1 29.761
RP 108.35 LAP 1.40 LOP 232.04 VP 37.716 GAP 3.51 AZP 88.52 TAL 160.89 TAP 24.35 RCA 106.93 APO 151.44 V2 34.977
RC 96.794 GL -15.70 GP 42.37 ZAL 49.29 ZAP 117.83 ETS 24.76 ZAE 126.70 ETE 143.28 ZAC 31.90 ETC 232.68 CLP-129.18

PLANETOCENTRIC CONIC

C3 12.784 VHL 3.575 DLA -29.21 RAL 329.33 RAD 6567.5 VEL 11.583 PTH 2.03 VHP 4.451 DPA 18.00 RAP 282.27 ECC 1.2104

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
82.50	13 33 6	991.16	22.62	332.67	191.15	109.00	13 49 37	391.2	25.00	324.74
97.50	15 37 3	5878.54	22.63	281.19	191.16	108.99	17 15 1	5278.5	25.01	273.26
100.00	15 2 57	699.88	18.82	309.78	189.57	113.66	15 14 37	99.9	21.86	302.30
100.00	16 49 53	5645.05	26.53	265.19	192.44	104.30	18 23 58	5045.0	28.24	256.80
110.00	14 46 44	750.98	12.32	310.07	186.00	122.14	14 59 15	151.0	16.48	303.42
110.00	19 22 36	5166.72	33.78	230.37	193.91	95.60	20 48 42	4566.7	34.18	221.15

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TOE .3212 TRA 2.0194 TC3-3.1240 BAU .5901 SGT 4359.2 SGR 2761.8 SG3 772.5 ST 1227.4 SR 839.4 SS 1236.7
ROE -.2233 RRA-1.3773 RC3 1.4699 FAU .07599 RRT -.9891 RRF -.9922 RTF .9865 CRT -.9998 CRS .9531 CST -.9507
FOE 1.3647 FRA 4.2751 FC3-5.1465 BSP 16109 SGB 5160.4 R23 .0698 R13 -.9903 LSA 1911.2 MSA 296.1 SSA 11.6
BOE .3912 BRA 2.4444 BC3 3.4526 FSP -2632 SG1 5148.9 SG2 344.0 THA 147.76 ELI 1487.0 EL2 12.9 ALF 145.63

LAUNCH DATE OCT 2 1965 FLIGHT TIME 184.00 ARRIVAL DATE APR 4 1966

HELIOCENTRIC CONIC DISTANCE 506.314

RL 149.72 LAL .00 LOL 8.60 VL 27.292 GAL 4.01 AZL 91.69 HCA 226.64 SMA 129.10 ECC .17398 INC 1.6857 V1 29.761
RP 108.39 LAP 1.23 LOP 235.23 VP 37.696 GAP 3.91 AZP 88.84 TAL 160.31 TAP 26.96 RCA 106.64 APO 151.56 V2 34.964
RC 99.145 GL -12.89 GP 39.41 ZAL 47.94 ZAP 121.56 ETS 26.46 ZAE 126.64 ETE 147.25 ZAC 29.35 ETC 230.47 CLP-132.65

PLANETOCENTRIC CONIC

C3 12.895 VHL 3.591 DLA -26.32 RAL 328.98 RAD 6567.5 VEL 11.588 PTH 2.03 VHP 4.466 DPA 15.03 RAP 282.18 ECC 1.2122

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	13 0 31	1098.45	14.17	336.93	187.69	114.78	13 18 49	498.4	17.39	329.74
90.00	16 6 52	5774.97	26.93	274.82	191.83	99.10	17 43 7	5175.0	27.91	266.29
100.00	13 52 52	929.38	12.03	323.43	186.61	117.57	14 8 21	329.4	15.63	316.49
100.00	17 57 12	5419.27	29.29	249.00	192.19	96.23	19 27 31	4819.3	29.85	240.24
110.00	14 10 44	873.28	7.81	316.66	184.09	123.39	14 25 18	273.3	12.14	310.25
110.00	19 55 49	5048.14	34.18	221.14	192.51	90.15	21 19 57	4448.1	33.83	211.91

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TOE .4375 TRA 2.2052 TC3-3.2899 BAU .6103 SGT 4634.7 SGR 2503.9 SG3 766.6 ST 1370.9 SR 769.9 SS 1286.1
ROE -.2150 RRA-1.2896 RC3 1.3076 FAU .07439 RRT -.9884 RRF -.9900 RTF .9871 CRT -.9972 CRS .9443 CST -.9656
FOE 1.4943 FRA 4.3574 FC3-4.9946 BSP 16385 SGB 5267.8 R23 .0607 R13 -.9897 LSA 2011.6 MSA 282.0 SSA 12.4
BOE .4875 BRA 2.5546 BC3 3.5402 FSP -2614 SG1 5257.1 SG2 335.3 THA 151.77 ELI 1571.5 EL2 50.0 ALF 150.72

LAUNCH DATE OCT 2 1965 FLIGHT TIME 186.00 ARRIVAL DATE APR 6 1966

HELIOCENTRIC CONIC DISTANCE 512.443

RL 149.72 LAL .00 LOL 8.60 VL 27.279 GAL 4.18 AZL 91.37 HCA 229.83 SMA 129.01 ECC .17590 INC 1.3709 V1 29.761
RP 108.43 LAP 1.05 LOP 238.42 VP 37.674 GAP 4.30 AZP 89.12 TAL 159.70 TAP 29.52 RCA 106.32 APO 151.71 V2 34.951
RC 101.502 GL -10.34 GP 36.67 ZAL 46.72 ZAP 125.14 ETS 27.88 ZAE 126.39 ETE 150.76 ZAC 27.16 ETC 227.54 CLP-135.86

PLANETOCENTRIC CONIC

C3 13.146 VHL 3.626 DLA -23.67 RAL 328.79 RAD 6567.5 VEL 11.599 PTH 2.03 VHP 4.513 DPA 12.29 RAP 282.28 ECC 1.2163

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 11 5	1269.53	9.07	346.91	185.99	116.94	12 32 15	669.5	12.62	340.02
90.00	16 54 45	5612.20	28.14	263.07	191.41	93.34	18 28 18	5012.2	28.30	254.41
100.00	13 13 28	1068.16	7.54	331.29	185.17	119.01	13 31 16	468.2	11.35	324.58
100.00	18 35 3	5288.80	29.87	239.35	191.48	91.19	20 3 12	4688.8	29.72	230.55
110.00	13 43 51	972.90	4.04	321.92	183.02	123.97	14 0 4	372.9	8.48	315.64
110.00	20 21 10	4956.82	33.97	214.02	191.36	85.95	21 43 47	4356.8	33.04	204.90

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TOE .5552 TRA 2.3859 TC3-3.4062 BAU .6320 SGT 4880.4 SGR 2265.6 SG3 750.2 ST 1516.8 SR 700.6 SS 1323.0
ROE -.2003 RRA-1.2065 RC3 1.1531 FAU .07204 RRT -.9870 RRF -.9871 RTF .9875 CRT -.9889 CRS .9328 CST -.9757
FOE 1.5955 FRA 4.3829 FC3-4.7446 BSP 16789 SGB 5380.6 R23 .0498 R13 -.9893 LSA 2113.8 MSA 271.5 SSA 13.0
BOE .5903 BRA 2.6736 BC3 3.5960 FSP -2580 SG1 5370.4 SG2 331.3 THA 155.28 ELI 1668.1 EL2 94.6 ALF 155.37

LAUNCH DATE OCT 2 1965 FLIGHT TIME 188.00 ARRIVAL DATE APR 8 1966

HELIOCENTRIC CONIC DISTANCE 518.547

RL 149.72 LAL .00 LOL 8.60 VL 27.265 GAL 4.37 AZL 91.08 HCA 233.01 SMA 128.92 ECC .17803 INC 1.0845 V1 29.761
RP 108.46 LAP .87 LOP 241.60 VP 37.652 GAP 4.69 AZP 89.35 TAL 159.04 TAP 32.05 RCA 105.97 APO 151.87 V2 34.939
RC 103.862 GL -8.04 GP 34.14 ZAL 45.59 ZAP 128.53 ETS 29.08 ZAE 125.98 ETE 153.84 ZAC 25.36 ETC 223.93 CLP-138.83

PLANETOCENTRIC CONIC

C3 13.521 VHL 3.677 DLA -21.24 RAL 328.73 RAD 6567.5 VEL 11.615 PTH 2.04 VHP 4.588 DPA 9.78 RAP 282.56 ECC 1.2225

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 37 52	1393.33	5.19	353.93	185.20	117.88	12 1 5	793.3	8.88	347.20
90.00	17 27 28	5500.62	28.31	254.91	190.99	89.26	18 59 9	4900.6	27.91	246.27
100.00	12 44 45	1177.47	3.89	337.35	184.49	119.66	13 4 22	577.5	7.81	330.76
100.00	19 3 16	5191.71	29.79	232.14	190.94	87.39	20 29 48	4591.7	29.11	223.40
110.00	13 22 32	1059.04	.76	326.42	182.53	124.18	13 40 11	459.0	5.23	320.20
110.00	20 41 58	4882.91	33.47	208.31	190.56	82.60	22 3 21	4282.9	32.08	199.35

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TOE .6768 TRA 2.5661 TC3-3.4692 BAU .6529 SGT 5101.5 SGR 2050.4 SG3 726.4 ST 1665.7 SR 635.1 SS 1351.9
ROE -.1827 RRA-1.1312 RC3 1.0057 FAU .06883 RRT -.9847 RRF -.9835 RTF .9876 CRT -.9756 CRS .9182 CST -.9826
FOE 1.6760 FRA 4.3697 FC3-4.4072 BSP 17195 SGB 5498.1 R23 .0393 R13 -.9889 LSA 2221.6 MSA 263.9 SSA 13.4
BOE .7011 BRA 2.8043 BC3 3.6120 FSP -2514 SG1 5488.0 SG2 332.5 THA 158.32 ELI 1777.8 EL2 130.7 ALF 159.48

LAUNCH DATE OCT 2 1965 FLIGHT TIME 190.00 ARRIVAL DATE APR 10 1966

HELIOCENTRIC CONIC DISTANCE 524.625

RL	149.72	LAL	.00	LOL	8.60	VL	27.249	GAL	4.57	AZL	90.82	HCA	236.19	SMA	128.81	ECC	.18036	INC	.8213	VI	29.761
RP	108.50	LAP	.68	LOP	244.78	VP	37.630	GAP	5.09	AZP	89.54	TAL	158.36	TAP	34.55	RCA	105.58	APO	152.04	V2	34.926
RC	106.225	GL	-5.97	GP	31.84	ZAL	44.54	ZAP	131.73	ETS	30.12	ZAE	125.48	ETE	156.52	ZAC	23.96	ETC	219.71	CLP	-141.59

PLANETOCENTRIC CONIC

C3	14.012	VHL	3.743	DLA	-19.02	RAL	328.77	RAD	6567.6	VEL	11.636	PTH	2.04	VHP	4.687	DPA	7.49	RAP	283.02	ECC	1.2306

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 12 31	1495.24	1.92	359.64	184.98	118.26	11 37 26	895.2	5.69	352.98
90.00	17 53 11	5414.33	28.07	248.61	190.77	86.11	19 23 25	4814.3	27.24	240.05
100.00	12 22 11	1270.44	.75	342.46	184.33	119.88	12 43 21	670.4	4.72	335.92
100.00	19 26 12	5114.36	29.41	226.42	190.64	84.41	20 51 27	4514.4	28.33	217.78
110.00	13 5 6	1135.92	-2.18	330.43	182.50	124.12	13 24 2	535.9	2.31	324.23
110.00	20 59 46	4821.65	32.83	203.64	190.09	79.91	22 20 7	4221.6	31.09	194.85

DIFFERENTIAL CORRECTIONS

TDE	.8005	TRA	2.7466	TC3	-3.4873	BAU	.6733
RDE	-.1624	RRA	-1.0635	RC3	.8710	FAU	.06509
FDE	1.7345	FRA	4.3260	FC3	-4.0215	BSP	17626
BDE	.8168	BRA	2.9453	BC3	3.5945	FSP	-2431

MID-COURSE EXECUTION ACCURACY

SGT	5300.2	SGR	1857.9	SG3	697.5		
RRT	-.9814	RRF	-.9790	RTF	.9877		
SGB	5616.4	R23	.0300	R13	-.9885		
SG1	5606.3	SG2	337.4	THA	160.94		

ORBIT DETERMINATION ACCURACY

ST	1813.1	SR	573.6	SS	1371.6		
CRT	-.9570	CRS	.8993	CST	-.9874		
LSA	2330.3	MSA	258.8	SSA	13.7		
EL1	1894.9	EL2	159.2	ALF	163.03		

LAUNCH DATE OCT 2 1965 FLIGHT TIME 192.00 ARRIVAL DATE APR 12 1966

HELIOCENTRIC CONIC DISTANCE 530.677

RL	149.72	LAL	.00	LOL	8.60	VL	27.233	GAL	4.79	AZL	90.58	HCA	239.37	SMA	128.70	ECC	.18292	INC	.5771	VI	29.761
RP	108.54	LAP	.50	LOP	247.96	VP	37.607	GAP	5.49	AZP	89.71	TAL	157.63	TAP	37.00	RCA	105.16	APO	152.24	V2	34.914
RC	108.588	GL	-4.10	GP	29.73	ZAL	43.55	ZAP	134.74	ETS	31.05	ZAE	124.91	ETE	158.83	ZAC	22.99	ETC	215.01	CLP	-144.15

PLANETOCENTRIC CONIC

C3	14.614	VHL	3.823	DLA	-16.98	RAL	328.91	RAD	6567.6	VEL	11.662	PTH	2.05	VHP	4.808	DPA	5.41	RAP	283.65	ECC	1.2405

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 52 8	1583.71	-.93	4.57	185.18	118.30	11 18 32	983.7	2.86	357.94
90.00	18 14 40	5344.46	27.64	243.55	190.80	83.60	19 43 44	4744.5	26.47	235.08
100.00	12 3 46	1352.59	-2.04	346.97	184.56	119.83	12 26 18	752.6	1.94	340.45
100.00	19 45 44	5050.81	28.90	221.77	190.62	82.01	21 9 54	4450.8	27.49	213.25
110.00	12 50 35	1205.90	-4.85	334.10	182.81	123.88	13 10 41	605.9	-.37	327.88
110.00	21 15 23	4770.27	32.15	199.79	189.94	77.72	22 34 54	4170.3	30.13	191.16

DIFFERENTIAL CORRECTIONS

TDE	.9274	TRA	2.9293	TC3	-3.4639	BAU	.6925
RDE	-.1408	RRA	-1.0034	RC3	.7499	FAU	.06095
FDE	1.7759	FRA	4.2609	FC3	-3.6105	BSP	18038
BDE	.9381	BRA	3.0963	BC3	3.5441	FSP	-2330

MID-COURSE EXECUTION ACCURACY

SGT	5478.9	SGR	1686.9	SG3	665.3		
RRT	-.9770	RRF	-.9734	RTF	.9875		
SGB	5732.8	R23	.0222	R13	-.9881		
SG1	5722.4	SG2	344.5	THA	163.20		

ORBIT DETERMINATION ACCURACY

ST	1958.3	SR	517.1	SS	1384.2		
CRT	-.9326	CRS	.8753	CST	-.9907		
LSA	2439.9	MSA	255.3	SSA	13.9		
EL1	2017.3	EL2	181.1	ALF	166.05		

LAUNCH DATE OCT 2 1965 FLIGHT TIME 194.00 ARRIVAL DATE APR 14 1966

HELIOCENTRIC CONIC DISTANCE 536.701

RL	149.72	LAL	.00	LOL	8.60	VL	27.216	GAL	5.03	AZL	90.35	HCA	242.55	SMA	128.58	ECC	.18571	INC	.3487	VI	29.761
RP	108.58	LAP	.31	LOP	251.14	VP	37.584	GAP	5.89	AZP	89.84	TAL	156.88	TAP	39.43	RCA	104.71	APO	152.46	V2	34.903
RC	110.951	GL	-2.42	GP	27.82	ZAL	42.62	ZAP	137.55	ETS	31.91	ZAE	124.31	ETE	160.83	ZAC	22.43	ETC	210.05	CLP	-146.55

PLANETOCENTRIC CONIC

C3	15.327	VHL	3.915	DLA	-15.12	RAL	329.13	RAD	6567.6	VEL	11.692	PTH	2.06	VHP	4.947	DPA	3.54	RAP	284.44	ECC	1.2523

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 35 16	1662.86	-3.48	8.99	185.70	118.12	11 2 59	1062.9	.30	2.36
90.00	18 33 16	5286.62	27.14	239.39	191.06	81.58	20 1 23	4686.6	25.69	231.02
100.00	11 48 24	1426.90	-4.55	351.06	185.11	119.58	12 12 11	826.9	-.58	344.52
100.00	20 2 50	4997.81	28.34	217.93	190.85	80.06	21 26 7	4397.8	26.67	209.52
110.00	12 38 20	1270.51	-7.29	337.51	183.42	123.49	12 59 30	670.5	-2.84	331.25
110.00	21 29 23	4726.97	31.48	196.59	190.07	75.94	22 48 10	4127.0	29.23	188.11

DIFFERENTIAL CORRECTIONS

TDE	1.0596	TRA	3.1178	TC3	-3.4007	BAU	.7091
RDE	-.1193	RRA	-.9512	RC3	.6410	FAU	.05643
FDE	1.8063	FRA	4.1855	FC3	-3.1873	BSP	18383
BDE	1.0663	BRA	3.2596	BC3	3.4606	FSP	-2213

MID-COURSE EXECUTION ACCURACY

SGT	5642.1	SGR	1536.8	SG3	631.8		
RRT	-.9714	RRF	-.9667	RTF	.9873		
SGB	5847.7	R23	.0164	R13	-.9877		
SG1	5837.0	SG2	352.9	THA	165.12		

ORBIT DETERMINATION ACCURACY

ST	2102.8	SR	466.7	SS	1392.8		
CRT	-.9020	CRS	.8456	CST	-.9931		
LSA	2552.5	MSA	252.9	SSA	14.0		
EL1	2144.9	EL2	197.5	ALF	168.58		

LAUNCH DATE OCT 2 1965 FLIGHT TIME 196.00 ARRIVAL DATE APR 16 1966

HELIOCENTRIC CONIC DISTANCE 542.696

RL	149.72	LAL	.00	LOL	8.60	VL	27.198	GAL	5.28	AZL	90.13	HCA	245.72	SMA	128.46	ECC	.18874	INC	.1327	VI	29.761
RP	108.61	LAP	.12	LOP	254.32	VP	37.560	GAP	6.30	AZP	89.94	TAL	156.10	TAP	41.82	RCA	104.22	APO	152.71	V2	34.892
RC	113.313	GL	-.90	GP	26.09	ZAL	41.72	ZAP	140.19	ETS	32.72	ZAE	123.71	ETE	162.54	ZAC	22.26	ETC	205.04	CLP	-148.79

PLANETOCENTRIC CONIC

C3	16.154	VHL	4.019	DLA	-13.40	RAL	329.42	RAD	6567.6	VEL	11.728	PTH	2.07	VHP	5.104	DPA	1.86	RAP	285.37	ECC	1.2658

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 21 4	1735.02	-5.79	13.05	186.49	117.77	10 49 59	1135.0	-2.02	6.39
90.00	18 49 45	5238.22	26.61	235.95	191.55	79.93	20 17 4	4638.2	24.94	227.67
100.00	11 35 24	1495.19	-6.83	354.84	185.93	119.17	12 0 19	895.2	-2.89	348.27
100.00	20 18 6	4953.29	27.77	214.74	191.30	78.48	21 40 40	4353.3	25.90	206.44
110.00	12 27 54	1330.78	-9.54	340.72	184.28	122.98	12 50 4	730.8	-5.13	334.41
110.00	21 42 6	4690.46	30.85	193.93	190.45	74.49	23 0 17	4090.5	28.41	185.58

DIFFERENTIAL CORRECTIONS

TDE	1.1913	TRA	3.3074	TC3	-3.3171	BAU	.7261
RDE	-.0960	RRA	-.9045	RC3	.5491	FAU	.05211
FDE	1.8182	FRA	4.0962	FC3	-2.7928	BSP	18790
BDE	1.1951	BRA	3.4289	BC3	3.3622	FSP	-2103

MID-COURSE EXECUTION ACCURACY

SGT	5786.7	SGR	1403.8	SG3	597.3		
RRT	-.9644	RRF	-.9586	RTF	.9870		
SGB	5954.6	R23	.0115	R13	-.9872		
SG1	5943.6	SG2	361.4	THA	166.78		

ORBIT DETERMINATION ACCURACY

ST	2237.1	SR	420.8	SS	1392.2		
CRT	-.8623	CRS	.8069	CST	-.9948		
LSA	2656.4	MSA	251.4	SSA	14.0		
EL1	2266.6	EL2	210.3	ALF	170.71		

LAUNCH DATE OCT 2 1965 FLIGHT TIME 198.00 ARRIVAL DATE APR 18 1966

HELIOCENTRIC CONIC DISTANCE 548.660

RL 149.72 LAL .00 LOL 8.60 VL 27.179 GAL 5.55 AZL 89.93 HCA 248.90 SMA 128.34 ECC .19202 INC .0703 V1 29.761
RP 108.64 LAP -.07 LOP 257.49 VP 37.537 GAP 6.71 AZP 90.03 TAL 155.29 TAP 44.19 RCA 103.69 APO 152.98 V2 34.881
RC 115.673 GL .47 GP 24.52 ZAL 40.86 ZAP 142.65 ETS 33.53 ZAE 123.11 ETE 164.02 ZAC 22.45 ETC 200.20 CLP-150.90

PLANETOCENTRIC CONIC

C3 17.098 VHL 4.135 DLA -11.82 RAL 329.76 RAD 6567.7 VEL 11.768 PTH 2.08 VHP 5.277 DPA .35 RAP 286.44 ECC 1.2814

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 8 57	1801.74	-7.89	16.82	187.52	117.28	10 38 59	1201.7	-4.17	10.12
90.00	19 4 37	5197.55	26.09	233.08	192.24	78.58	20 31 14	4597.5	24.25	224.89
100.00	11 24 18	1558.68	-8.92	358.40	186.96	118.65	11 50 16	958.7	-5.03	351.77
100.00	20 31 57	4915.84	27.24	212.09	191.96	77.18	21 53 53	4315.8	25.20	203.88
110.00	12 18 58	1387.48	-11.62	343.79	185.34	122.37	12 42 5	787.5	-7.27	337.40
110.00	21 53 47	4659.81	30.27	191.73	191.05	73.30	23 11 26	4059.8	27.69	183.49

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE 1.3259 TRA 3.5023 TC3-3.2108 BAU .7418 SGT 5916.8 SGR 1286.8 SG3 563.1 ST 2365.2 SR 380.5 SS 1386.9
RDE -.0727 RRA -.8636 RC3 .4700 FAU .04785 RRT -.9560 RRF -.9491 RTF .9866 CRT -.8128 CRS .7586 CST -.9961
FDE 1.8202 FRA 4.0021 FC3-2.4228 BSP 19183 SGB 6055.1 R23 .0075 R13 -.9868 LSA 2756.7 MSA 250.3 SSA 14.0
BDE 1.3279 BRA 3.6072 BC3 3.2450 FSP -1993 SG1 6043.8 SG2 369.7 THA 168.21 EL1 2385.5 EL2 219.8 ALF 172.49

LAUNCH DATE OCT 2 1965 FLIGHT TIME 200.00 ARRIVAL DATE APR 20 1966

HELIOCENTRIC CONIC DISTANCE 554.592

RL 149.72 LAL .00 LOL 8.60 VL 27.160 GAL 5.85 AZL 89.73 HCA 252.07 SMA 128.20 ECC .19558 INC .2671 V1 29.761
RP 108.68 LAP -.25 LOP 260.67 VP 37.513 GAP 7.13 AZP 90.08 TAL 154.46 TAP 46.53 RCA 103.13 APO 153.28 V2 34.870
RC 118.029 GL 1.70 GP 23.11 ZAL 40.03 ZAP 144.95 ETS 34.35 ZAE 122.52 ETE 165.29 ZAC 22.96 ETC 195.69 CLP-152.88

PLANETOCENTRIC CONIC

C3 18.168 VHL 4.262 DLA -10.37 RAL 330.15 RAD 6567.7 VEL 11.813 PTH 2.09 VHP 5.464 DPA -.98 RAP 287.63 ECC 1.2990

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 58 33	1864.07	-9.81	20.39	188.73	116.70	10 29 37	1264.1	-6.15	13.62
90.00	19 18 9	5163.41	25.61	230.70	193.11	77.48	20 44 13	4563.4	23.63	222.59
100.00	11 14 44	1618.27	-10.85	1.77	188.19	118.03	11 41 43	1018.3	-7.01	355.08
100.00	20 44 39	4884.45	26.74	209.88	192.81	76.12	22 6 3	4284.4	24.57	201.76
110.00	12 11 17	1441.19	-13.56	346.74	186.59	121.68	12 35 18	841.2	-9.28	340.27
110.00	22 4 35	4634.29	29.76	189.92	191.84	72.34	23 21 50	4034.3	27.05	181.78

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE 1.4636 TRA 3.7042 TC3-3.0848 BAU .7556 SGT 6034.1 SGR 1184.2 SG3 529.9 ST 2486.6 SR 346.1 SS 1378.1
RDE -.0495 RRA -.8281 RC3 .4016 FAU .04365 RRT -.9460 RRF -.9381 RTF .9862 CRT -.7521 CRS .6996 CST -.9970
FDE 1.8147 FRA 3.9079 FC3-2.0799 BSP 19544 SGB 6149.2 R23 .0046 R13 -.9863 LSA 2853.0 MSA 249.4 SSA 14.0
BDE 1.4645 BRA 3.7957 BC3 3.1109 FSP -1882 SG1 6137.6 SG2 377.4 THA 169.44 EL1 2500.3 EL2 226.8 ALF 173.97

LAUNCH DATE OCT 2 1965 FLIGHT TIME 202.00 ARRIVAL DATE APR 22 1966

HELIOCENTRIC CONIC DISTANCE 560.489

RL 149.72 LAL .00 LOL 8.60 VL 27.140 GAL 6.16 AZL 89.54 HCA 255.24 SMA 128.07 ECC .19943 INC .4563 V1 29.761
RP 108.71 LAP -.44 LOP 263.84 VP 37.489 GAP 7.56 AZP 90.12 TAL 153.60 TAP 48.84 RCA 102.53 APO 153.61 V2 34.860
RC 120.382 GL 2.80 GP 21.82 ZAL 39.21 ZAP 147.10 ETS 35.22 ZAE 121.96 ETE 166.39 ZAC 23.74 ETC 191.61 CLP-154.76

PLANETOCENTRIC CONIC

C3 19.374 VHL 4.402 DLA -9.04 RAL 330.59 RAD 6567.8 VEL 11.864 PTH 2.10 VHP 5.667 DPA -2.17 RAP 288.93 ECC 1.3188

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 49 33	1922.78	-11.59	23.79	190.12	116.02	10 21 36	1322.8	-8.00	16.95
90.00	19 30 37	5134.92	25.17	228.72	194.14	76.59	20 56 12	4534.9	23.08	220.68
100.00	11 6 29	1674.60	-12.63	5.01	189.59	117.32	11 34 24	1074.6	-8.87	358.24
100.00	20 56 22	4858.34	26.30	208.07	193.82	75.26	22 17 20	4258.3	24.02	200.01
110.00	12 4 41	1492.37	-15.37	349.60	188.01	120.91	12 29 33	892.4	-11.16	343.03
110.00	22 14 40	4613.33	29.31	188.45	192.81	71.57	23 31 33	4013.3	26.52	180.38

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE 1.6045 TRA 3.9134 TC3-2.9458 BAU .7681 SGT 6139.5 SGR 1093.8 SG3 498.0 ST 2600.6 SR 317.2 SS 1366.2
RDE -.0265 RRA -.7971 RC3 .3432 FAU .03964 RRT -.9344 RRF -.9255 RTF .9857 CRT -.6795 CRS .6291 CST -.9977
FDE 1.8031 FRA 3.8146 FC3-1.7712 BSP 19889 SGB 6236.2 R23 .0023 R13 -.9858 LSA 2944.1 MSA 248.7 SSA 13.9
BDE 1.6047 BRA 3.9937 BC3 2.9657 FSP -1774 SG1 6224.3 SG2 384.2 THA 170.51 EL1 2609.5 EL2 231.9 ALF 175.22

LAUNCH DATE OCT 2 1965 FLIGHT TIME 204.00 ARRIVAL DATE APR 24 1966

HELIOCENTRIC CONIC DISTANCE 566.350

RL 149.72 LAL .00 LOL 8.60 VL 27.119 GAL 6.50 AZL 89.36 HCA 258.41 SMA 127.93 ECC .20359 INC .6399 V1 29.761
RP 108.74 LAP -.63 LOP 267.00 VP 37.465 GAP 8.00 AZP 90.13 TAL 152.72 TAP 51.13 RCA 101.89 APO 153.98 V2 34.851
RC 122.731 GL 3.79 GP 20.66 ZAL 38.42 ZAP 149.12 ETS 36.14 ZAE 121.43 ETE 167.33 ZAC 24.76 ETC 188.02 CLP-156.53

PLANETOCENTRIC CONIC

C3 20.728 VHL 4.553 DLA -7.81 RAL 331.06 RAD 6567.8 VEL 11.921 PTH 2.12 VHP 5.883 DPA -3.21 RAP 290.33 ECC 1.3411

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 41 45	1978.48	-13.23	27.06	191.67	115.27	10 14 43	1378.5	-9.72	20.14
90.00	19 42 10	5111.40	24.79	227.11	195.32	75.86	21 7 21	4511.4	22.61	219.12
100.00	10 59 20	1728.19	-14.28	8.13	191.14	116.54	11 28 8	1128.2	-10.60	1.27
100.00	21 7 16	4836.91	25.92	206.59	194.99	74.57	22 27 53	4236.9	23.55	198.59
110.00	11 58 59	1541.39	-17.07	352.39	189.58	120.08	12 24 41	941.4	-12.94	345.71
110.00	22 24 6	4596.48	28.95	187.28	193.93	70.97	23 40 42	3996.5	26.08	179.27

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE 1.7521 TRA 4.1342 TC3-2.7892 BAU .7771 SGT 6236.2 SGR 1014.3 SG3 467.9 ST 2711.1 SR 293.8 SS 1354.3
RDE -.0044 RRA -.7706 RC3 .2918 FAU .03560 RRT -.9213 RRF -.9115 RTF .9852 CRT -.5969 CRS .5491 CST -.9982
FDE 1.7908 FRA 3.7273 FC3-1.4871 BSP 20130 SGB 6318.2 R23 .0007 R13 -.9852 LSA 3034.6 MSA 247.7 SSA 13.9
BDE 1.7521 BRA 4.2054 BC3 2.8044 FSP 1662 SG1 6306.1 SG2 390.1 THA 171.45 EL1 2716.8 EL2 235.2 ALF 176.27

LAUNCH DATE OCT 2 1965 FLIGHT TIME 206.00 ARRIVAL DATE APR 26 1966

HELIOCENTRIC CONIC DISTANCE 572.170

RL	149.72	LAL	.00	LOL	8.60	VL	27.098	GAL	6.86	AZL	89.18	HCA	261.58	SMA	127.79	ECC	.20809	INC	.8192	VI	29.761
RP	108.76	LAP	-.81	LOP	270.17	VP	37.442	GAP	8.45	AZP	90.12	TAL	151.83	TAP	53.40	RCA	101.20	APO	154.38	V2	34.842
RC	125.075	GL	4.68	GP	19.61	ZAL	37.65	ZAP	151.02	ETS	37.15	ZAE	120.92	ETE	168.16	ZAC	25.95	ETC	184.92	CLP	-158.23

PLANETOCENTRIC CONIC

C3	22.245	VHL	4.716	DLA	-6.67	RAL	331.55	RAD	6567.9	VEL	11.984	PTH	2.14	VHP	6.114	DPA	-4.11	RAP	291.82	ECC	1.3661

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 34 58	2031.60	-14.75	30.22	193.35	114.45	10 8 49	1431.6	-11.33	23.21
90.00	19 52 55	5092.31	24.47	225.80	196.63	75.28	21 17 48	4492.3	22.21	217.86
100.00	10 53 7	1779.45	-15.82	11.16	192.83	115.70	11 22 47	1179.5	-12.23	4.20
100.00	21 17 27	4819.69	25.61	205.41	196.29	74.02	22 37 47	4219.7	23.17	197.46
110.00	11 54 6	1588.57	-18.66	355.13	191.29	119.18	12 20 34	988.6	-14.62	348.33
110.00	22 32 58	4583.34	28.65	186.37	195.19	70.51	23 49 21	3983.3	25.73	178.41

DIFFERENTIAL CORRECTIONS

TOE	1.9006	TRA	4.3616	TC3	-2.6313	BAU	.7860
ROE	.0181	RRA	-.7468	RC3	.2491	FAU	.03196
FOE	1.7718	FRA	3.6409	FC3	-1.2438	BSP	20430
BOE	1.9007	BRA	4.4251	BC3	2.6430	FSP	-1564

MID-COURSE EXECUTION ACCURACY

SGT	6320.7	SGR	943.4	SG3	439.2		
RRT	-.9065	RRF	-.8958	RTF	.9847		
SGB	6390.7	R23	-.0007	R13	-.9847		
SG1	6378.5	SG2	394.8	THA	172.27		

ORBIT DETERMINATION ACCURACY

ST	2810.3	SR	275.0	SS	1338.5		
CRT	-.5023	CRS	.4577	CST	-.9986		
LSA	3115.1	MSA	246.6	SSA	13.8		
EL1	2813.7	EL2	237.5	ALF	177.17		

LAUNCH DATE OCT 2 1965 FLIGHT TIME 208.00 ARRIVAL DATE APR 28 1966

HELIOCENTRIC CONIC DISTANCE 577.947

RL	149.72	LAL	.00	LOL	8.60	VL	27.076	GAL	7.25	AZL	89.00	HCA	264.74	SMA	127.65	ECC	.21295	INC	.9956	VI	29.761
RP	108.79	LAP	-.99	LOP	273.34	VP	37.419	GAP	8.92	AZP	90.09	TAL	150.92	TAP	55.66	RCA	100.46	APO	154.83	V2	34.834
RC	127.413	GL	5.47	GP	18.66	ZAL	36.90	ZAP	152.80	ETS	38.26	ZAE	120.45	ETE	168.87	ZAC	27.30	ETC	182.26	CLP	-159.85

PLANETOCENTRIC CONIC

C3	23.943	VHL	4.893	DLA	-5.63	RAL	332.08	RAD	6568.0	VEL	12.055	PTH	2.15	VHP	6.361	DPA	-4.90	RAP	293.39	ECC	1.3940

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 29 4	2082.53	-16.16	33.29	195.15	113.57	10 3 46	1482.5	-12.84	26.19
90.00	20 2 59	5077.24	24.20	224.78	198.07	74.84	21 27 36	4477.2	21.89	216.87
100.00	10 47 45	1828.72	-17.25	14.12	194.64	114.80	11 18 13	1228.7	-13.76	7.06
100.00	21 26 59	4806.29	25.35	204.49	197.71	73.61	22 47 6	4206.3	22.86	196.58
110.00	11 49 53	1634.15	-20.15	357.83	193.12	118.22	12 17 7	1034.1	-16.22	350.91
110.00	22 41 20	4573.62	28.43	185.70	196.58	70.17	23 57 34	3973.6	25.46	177.78

DIFFERENTIAL CORRECTIONS

TOE	2.0529	TRA	4.5993	TC3	-2.4688	BAU	.7932
ROE	.0405	RRA	-.7258	RC3	.2125	FAU	.02853
FOE	1.7504	FRA	3.5590	FC3	-1.0314	BSP	20719
BOE	2.0533	BRA	4.6562	BC3	2.4779	FSP	-1472

MID-COURSE EXECUTION ACCURACY

SGT	6395.3	SGR	880.2	SG3	412.2		
RRT	-.8900	RRF	-.8785	RTF	.9842		
SGB	6455.6	R23	-.0018	R13	-.9843		
SG1	6443.3	SG2	398.4	THA	172.99		

ORBIT DETERMINATION ACCURACY

ST	2901.5	SR	260.6	SS	1321.2		
CRT	-.3998	CRS	.3588	CST	-.9989		
LSA	3189.4	MSA	245.4	SSA	13.7		
EL1	2903.4	EL2	238.7	ALF	177.93		

LAUNCH DATE OCT 2 1965 FLIGHT TIME 210.00 ARRIVAL DATE APR 30 1966

HELIOCENTRIC CONIC DISTANCE 583.676

RL	149.72	LAL	.00	LOL	8.60	VL	27.054	GAL	7.66	AZL	88.83	HCA	267.91	SMA	127.50	ECC	.21820	INC	1.1702	VI	29.761
RP	108.81	LAP	-1.17	LOP	276.50	VP	37.395	GAP	9.41	AZP	90.04	TAL	150.00	TAP	57.90	RCA	99.68	APO	155.32	V2	34.826
RC	129.747	GL	6.18	GP	17.79	ZAL	36.16	ZAP	154.48	ETS	39.49	ZAE	120.00	ETE	169.50	ZAC	28.78	ETC	180.01	CLP	-161.40

PLANETOCENTRIC CONIC

C3	25.845	VHL	5.084	DLA	-4.67	RAL	332.62	RAD	6568.0	VEL	12.133	PTH	2.17	VHP	6.622	DPA	-5.57	RAP	295.03	ECC	1.4253

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 23 56	2131.57	-17.47	36.29	197.07	112.64	9 59 27	1531.6	-14.25	29.10
90.00	20 12 25	5065.82	24.00	224.00	199.61	74.50	21 36 51	4465.8	21.64	216.13
100.00	10 43 5	1876.25	-18.58	17.02	196.57	113.84	11 14 21	1276.2	-15.20	9.85
100.00	21 35 58	4796.38	25.16	203.82	199.24	73.30	22 55 54	4196.4	22.63	195.93
110.00	11 46 18	1678.34	-21.55	.49	195.07	117.20	12 14 16	1078.3	-17.73	353.44
110.00	22 49 14	4567.05	28.28	185.25	198.08	69.94	24 5 21	3967.0	25.28	177.35

DIFFERENTIAL CORRECTIONS

TOE	2.2100	TRA	4.8485	TC3	-2.3031	BAU	.7982
ROE	.0626	RRA	-.7071	RC3	.1809	FAU	.02527
FOE	1.7284	FRA	3.4827	FC3	-.8465	BSP	20974
BOE	2.2109	BRA	4.8998	BC3	2.3102	FSP	-1383

MID-COURSE EXECUTION ACCURACY

SGT	6461.1	SGR	823.4	SG3	386.8		
RRT	-.8718	RRF	-.8597	RTF	.9838		
SGB	6513.4	R23	-.0026	R13	-.9838		
SG1	6501.1	SG2	400.9	THA	173.64		

ORBIT DETERMINATION ACCURACY

ST	2985.6	SR	250.1	SS	1303.7		
CRT	-.2934	CRS	.2563	CST	-.9992		
LSA	3258.3	MSA	243.9	SSA	13.6		
EL1	2986.6	EL2	239.0	ALF	178.58		

LAUNCH DATE OCT 2 1965 FLIGHT TIME 212.00 ARRIVAL DATE MAY 2 1966

HELIOCENTRIC CONIC DISTANCE 589.353

RL	149.72	LAL	.00	LOL	8.60	VL	27.032	GAL	8.11	AZL	88.66	HCA	271.07	SMA	127.35	ECC	.22388	INC	1.3439	VI	29.761
RP	108.84	LAP	-1.34	LOP	279.67	VP	37.373	GAP	9.91	AZP	89.97	TAL	149.06	TAP	60.14	RCA	98.84	APO	155.86	V2	34.819
RC	132.074	GL	6.82	GP	17.01	ZAL	35.44	ZAP	156.06	ETS	40.87	ZAE	119.57	ETE	170.05	ZAC	30.35	ETC	178.12	CLP	-162.89

PLANETOCENTRIC CONIC

C3	27.976	VHL	5.289	DLA	-3.78	RAL	333.17	RAD	6568.1	VEL	12.221	PTH	2.20	VHP	6.901	DPA	-6.14	RAP	296.72	ECC	1.4604

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 19 28	2178.97	-18.69	39.24	199.10	111.67	9 55 47	1579.0	-15.58	31.94
90.00	20 21 18	5057.77	23.85	223.46	201.26	74.27	21 45 35	4457.8	21.46	215.60
100.00	10 39 3	1922.28	-19.82	19.87	198.61	112.84	11 11 5	1322.3	-16.56	12.60
100.00	21 44 24	4789.69	25.03	203.37	200.88	73.10	23 4 14	4189.7	22.47	195.50
110.00	11 43 14	1721.34	-22.86	3.14	197.12	116.14	12 11 55	1121.3	-19.16	355.95
110.00	22 56 43	4563.39	28.19	185.00	199.69	69.81	24 12 46	3963.4	25.18	177.12

DIFFERENTIAL CORRECTIONS

TOE	2.3764	TRA	5.1149	TC3	-2.1308	BAU	.7990
ROE	.0841	RRA	-.6906	RC3	.1528	FAU	.02206
FOE	1.7092	FRA	3.4153	FC3	-.6827	BSP	21126
BOE	2.3779	BRA	5.1614	BC3	2.1363	FSP	-1294

MID-COURSE EXECUTION ACCURACY

SGT	6522.4	SGR	772.4	SG3	363.5		
RRT	-.8522	RRF	-.8395	RTF	.9834		
SGB	6568.0	R23	-.0032	R13	-.9834		
SG1	6555.7	SG2	402.1	THA	174.22		

ORBIT DETERMINATION ACCURACY

ST	3067.0	SR	242.7	SS	1287.9		
CRT	-.1886	CRS	.1555	CST	-.9994		
LSA	3326.5	MSA	241.9	SSA	13.4		
EL1	3067.3	EL2	238.4	ALF	179.14		

LAUNCH DATE OCT 2 1965 FLIGHT TIME 214.00 ARRIVAL DATE MAY 4 1966

HELIOCENTRIC CONIC DISTANCE 594.971

RL 149.72 LAL .00 LOL 8.60 VL 27.009 GAL 8.58 AZL 88.48 HCA 274.23 SMA 127.20 ECC .23004 INC 1.5178 VI 29.761
RP 108.86 LAP -1.51 LOP 282.83 VP 37.350 GAP 10.43 AZP 89.89 TAL 148.13 TAP 62.36 RCA 97.94 APO 156.46 V2 34.812
RC 134.395 GL 7.38 GP 16.29 ZAL 34.74 ZAP 157.55 ETS 42.43 ZAE 119.17 ETE 170.54 ZAC 32.00 ETC 176.53 CLP-164.34

PLANETOCENTRIC CONIC

C3 30.366 VHL 5.511 DLA -2.96 RAL 333.73 RAD 6568.2 VEL 12.318 PTH 2.22 VHP 7.197 DPA -6.60 RAP 298.47 ECC 1.4997

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 15 37	2224.91	-19.82	42.14	201.22	110.65	9 52 42	1624.9	-16.83	34.73
90.00	20 29 39	5052.84	23.76	223.13	203.00	74.12	21 53 51	4452.8	21.35	215.28
100.00	10 35 34	1966.98	-20.98	22.69	200.74	111.80	11 8 21	1367.0	-17.84	15.30
100.00	21 52 22	4786.00	24.95	203.12	202.61	72.99	23 12 8	4186.0	22.39	195.26
110.00	11 40 39	1763.27	-24.09	5.77	199.28	115.02	12 10 2	1163.3	-20.52	358.45
110.00	23 3 47	4562.47	28.17	184.94	201.40	69.78	24 19 50	3962.5	25.16	177.06

DIFFERENTIAL CORRECTIONS

TDE 2.5445 TRA 5.3913 TC3-1.9647 BAU .7993
RDE .1062 RRA -.6750 RC3 .1293 FAU .01919
FDE 1.6869 FRA 3.3504 FC3 -.5470 BSP 21350
BDE 2.5467 BRA 5.4334 BC3 1.9689 FSP -1216

MID-COURSE EXECUTION ACCURACY

SGT 6572.3 SGR 725.5 SG3 341.3
RRT -.8307 RRF -.8177 RTF .9831
SGB 6612.2 R23 -.0037 R13 -.9831
SG1 6600.0 SG2 402.2 THA 174.74

ORBIT DETERMINATION ACCURACY

ST 3136.8 SR 238.0 SS 1270.1
CRT -.0847 CRS .0557 CST -.9995
LSA 3384.0 MSA 239.7 SSA 13.3
EL1 3136.9 EL2 237.2 ALF 179.63

LAUNCH DATE OCT 2 1965 FLIGHT TIME 216.00 ARRIVAL DATE MAY 6 1966

HELIOCENTRIC CONIC DISTANCE 600.524

RL 149.72 LAL .00 LOL 8.60 VL 26.986 GAL 9.10 AZL 88.31 HCA 277.39 SMA 127.05 ECC .23670 INC 1.6932 VI 29.761
RP 108.87 LAP -1.68 LOP 285.99 VP 37.328 GAP 10.98 AZP 89.78 TAL 147.19 TAP 64.59 RCA 96.98 APO 157.13 V2 34.806
RC 136.709 GL 7.87 GP 15.64 ZAL 34.05 ZAP 158.95 ETS 44.18 ZAE 118.79 ETE 170.97 ZAC 33.71 ETC 175.19 CLP-165.74

PLANETOCENTRIC CONIC

C3 33.051 VHL 5.749 DLA -2.21 RAL 334.30 RAD 6568.3 VEL 12.427 PTH 2.25 VHP 7.513 DPA -6.98 RAP 300.26 ECC 1.5439

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 12 17	2269.57	-20.86	44.99	203.43	109.59	9 50 7	1669.6	-18.00	37.49
90.00	20 37 30	5050.81	23.72	222.99	204.82	74.07	22 1 41	4450.8	21.31	215.15
100.00	10 32 36	2010.50	-22.05	25.47	202.96	110.71	11 6 6	1410.5	-19.04	17.98
100.00	21 59 52	4785.11	24.94	203.06	204.43	72.96	23 19 37	4185.1	22.37	195.20
110.00	11 38 29	1804.27	-25.25	8.39	201.54	113.85	12 8 33	1204.3	-21.81	.93
110.00	23 10 29	4564.11	28.21	185.05	203.20	69.84	24 26 33	3964.1	25.20	177.16

DIFFERENTIAL CORRECTIONS

TDE 2.7194 TRA 5.6833 TC3-1.8000 BAU .7968
RDE .1283 RRA -.6603 RC3 .1088 FAU .01647
FDE 1.6655 FRA 3.2917 FC3 -.4315 BSP 21550
BDE 2.7225 BRA 5.7216 BC3 1.8033 FSP -1144

MID-COURSE EXECUTION ACCURACY

SGT 6615.1 SGR 682.4 SG3 320.7
RRT -.8076 RRF -.7942 RTF .9829
SGB 6650.2 R23 -.0041 R13 -.9829
SG1 6638.1 SG2 401.1 THA 175.22

ORBIT DETERMINATION ACCURACY

ST 3200.2 SR 235.3 SS 1252.8
CRT .0136 CRS -.0386 CST -.9996
LSA 3436.5 MSA 237.1 SSA 13.0
EL1 3200.2 EL2 235.3 ALF .06

LAUNCH DATE OCT 2 1965 FLIGHT TIME 218.00 ARRIVAL DATE MAY 8 1966

HELIOCENTRIC CONIC DISTANCE 606.004

RL 149.72 LAL .00 LOL 8.60 VL 26.963 GAL 9.65 AZL 88.13 HCA 280.55 SMA 126.90 ECC .24394 INC 1.8711 VI 29.761
RP 108.89 LAP -1.84 LOP 289.15 VP 37.307 GAP 11.56 AZP 89.66 TAL 146.26 TAP 66.81 RCA 95.95 APO 157.86 V2 34.801
RC 139.015 GL 8.31 GP 15.05 ZAL 33.38 ZAP 160.28 ETS 46.17 ZAE 118.42 ETE 171.35 ZAC 35.48 ETC 174.06 CLP-167.11

PLANETOCENTRIC CONIC

C3 36.076 VHL 6.006 DLA -1.52 RAL 334.87 RAD 6568.4 VEL 12.548 PTH 2.27 VHP 7.849 DPA -7.27 RAP 302.08 ECC 1.5937

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 9 26	2313.07	-21.83	47.82	205.72	108.50	9 47 59	1713.1	-19.10	40.21
90.00	20 44 53	5051.51	23.73	223.04	206.72	74.09	22 9 5	4451.5	21.32	215.19
100.00	10 30 4	2052.97	-23.05	28.24	205.27	109.58	11 4 17	1453.0	-20.17	20.62
100.00	22 6 56	4786.85	24.97	203.17	206.32	73.01	23 26 43	4186.9	22.41	195.31
110.00	11 36 41	1844.43	-26.33	11.02	203.88	112.64	12 7 26	1244.4	-23.03	3.41
110.00	23 16 49	4568.16	28.30	185.32	205.08	69.98	24 32 57	3968.2	25.31	177.43

DIFFERENTIAL CORRECTIONS

TDE 2.9014 TRA 5.9927 TC3-1.6381 BAU .7913
RDE .1505 RRA -.6462 RC3 .0910 FAU .01391
FDE 1.6454 FRA 3.2394 FC3 -.3338 BSP 21735
BDE 2.9054 BRA 6.0274 BC3 1.6406 FSP -1075

MID-COURSE EXECUTION ACCURACY

SGT 6650.9 SGR 642.5 SG3 301.5
RRT -.7826 RRF -.7691 RTF .9827
SGB 6681.9 R23 -.0043 R13 -.9827
SG1 6670.0 SG2 398.9 THA 175.66

ORBIT DETERMINATION ACCURACY

ST 3256.9 SR 234.2 SS 1236.4
CRT .1046 CRS -.1259 CST -.9997
LSA 3483.6 MSA 234.1 SSA 12.9
EL1 3257.0 EL2 232.9 ALF .43

LAUNCH DATE OCT 2 1965 FLIGHT TIME 220.00 ARRIVAL DATE MAY 10 1966

HELIOCENTRIC CONIC DISTANCE 611.399

RL 149.72 LAL .00 LOL 8.60 VL 26.940 GAL 10.24 AZL 87.95 HCA 283.71 SMA 126.75 ECC .25181 INC 2.0526 VI 29.761
RP 108.90 LAP -1.99 LOP 292.32 VP 37.286 GAP 12.17 AZP 89.51 TAL 145.33 TAP 69.04 RCA 94.83 APO 158.67 V2 34.797
RC 141.312 GL 8.69 GP 14.51 ZAL 32.73 ZAP 161.53 ETS 48.43 ZAE 118.06 ETE 171.70 ZAC 37.28 ETC 173.12 CLP-168.44

PLANETOCENTRIC CONIC

C3 39.492 VHL 6.284 DLA -.89 RAL 335.43 RAD 6568.5 VEL 12.683 PTH 2.30 VHP 8.209 DPA -7.48 RAP 303.93 ECC 1.6499

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 7 0	2355.52	-22.72	50.61	208.09	107.37	9 46 16	1755.5	-20.13	42.90
90.00	20 51 50	5054.79	23.80	223.26	208.70	74.18	22 16 5	4454.8	21.40	215.41
100.00	10 27 56	2094.47	-23.97	30.98	207.65	108.42	11 2 50	1494.5	-21.23	23.25
100.00	22 13 35	4791.07	25.05	203.46	208.29	73.14	23 33 26	4191.1	22.51	195.59
110.00	11 35 14	1883.83	-27.33	13.64	206.30	111.38	12 6 37	1283.8	-24.18	5.83
110.00	23 22 47	4574.48	28.45	185.76	207.03	70.20	24 39 1	3974.5	25.48	177.84

DIFFERENTIAL CORRECTIONS

TDE 3.0923 TRA 6.3216 TC3-1.4793 BAU .7820
RDE .1729 RRA -.6321 RC3 .0754 FAU .01147
FDE 1.6273 FRA 3.1937 FC3 -.2515 BSP 21892
BDE 3.0972 BRA 6.3531 BC3 1.4812 FSP -1011

MID-COURSE EXECUTION ACCURACY

SGT 6680.8 SGR 605.1 SG3 283.7
RRT -.7556 RRF -.7422 RTF .9827
SGB 6708.1 R23 -.0044 R13 -.9827
SG1 6696.4 SG2 395.4 THA 176.07

ORBIT DETERMINATION ACCURACY

ST 3307.9 SR 234.0 SS 1221.3
CRT .1878 CRS -.2056 CST -.9998
LSA 3526.4 MSA 230.7 SSA 12.6
EL1 3308.2 EL2 229.9 ALF .76

LAUNCH DATE OCT 3 1965 FLIGHT TIME 70.00 ARRIVAL DATE DEC 12 1965

HELIOCENTRIC CONIC DISTANCE 135,522

RL	149.68	LAL	.00	LOL	9.58	VL	17,330	GAL	19.52	AZL	92.00	HCA	43.12	SMA	90.10	ECC	.70721	INC	1.9982	VI	29.769
RP	108.06	LAP	-1.37	LOP	52.68	VP	31,357	GAP	-43.82	AZP	91.46	TAL	171.33	TAP	214.44	RCA	26.38	APO	153.81	V2	35.069
RC	70.962	GL	-2.20	GP	-4.14	ZAL	64.95	ZAP	30.49	ETS	169.55	ZAE	138.95	ETE	182.03	ZAC	18.54	ETC	78.90	CLP	30.23

PLANETOCENTRIC CONIC

C3	220.535	VHL	14.850	DLA	-21.24	RAL	307.56	RAD	6571.3	VEL	18.489	PTH	3.04	VHP	24.925	DPA	-27.75	RAP	261.67	ECC	4.6294

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 9 23	2016.60	-14.32	29.32	202.00	114.69	10 43 0	1416.6	-10.88	22.34
90.00	15 59 10	835.19	20.97	320.62	216.05	109.47	16 13 5	235.2	23.44	312.81
100.00	11 16 17	1800.70	-16.44	12.43	200.98	115.32	11 46 17	1200.7	-12.90	5.43
100.00	17 34 58	5814.36	23.18	276.64	216.89	109.43	19 11 52	5214.4	25.61	268.69
110.00	11 54 5	1682.21	-21.67	.73	198.26	117.11	12 22 7	1082.2	-17.86	353.67
110.00	19 13 39	5505.61	28.67	255.35	219.04	109.47	20 45 24	4905.6	31.05	246.95

DIFFERENTIAL CORRECTIONS

TDE	-.4876	TRA	-1.7326	TC3	-.1181	BAU	.3481														
RDE	-1.1004	RRA	.3992	RC3	-.0023	FAU	.01233														
FDE	.2081	FRA	.6832	FC3	-.0484	BSP	2123														
BDE	1.2036	BRA	1.7780	BC3	.1181	FSP	-59														

MID-COURSE EXECUTION ACCURACY

SGT	820.2	SGR	455.6	SG3	28.3				
RRT	-.0971	RRF	.0912	RTF	-.6242				
SGB	938.2	R23	-.0041	R13	.6249				
SG1	821.9	SG2	452.5	THA	175.57				

ORBIT DETERMINATION ACCURACY

ST	286.0	SR	427.4	SS	251.7				
CRT	.5661	CRS	.5981	CST	.9965				
LSA	510.1	MSA	259.8	SSA	13.9				
EL1	466.8	EL2	215.9	ALF	63.05				

LAUNCH DATE OCT 3 1965 FLIGHT TIME 72.00 ARRIVAL DATE DEC 14 1965

HELIOCENTRIC CONIC DISTANCE 141,342

RL	149.68	LAL	.00	LOL	9.58	VL	18,037	GAL	18.70	AZL	91.64	HCA	46.32	SMA	91.65	ECC	.67997	INC	1.6444	VI	29.769
RP	108.02	LAP	-1.19	LOP	55.89	VP	31,768	GAP	-41.82	AZP	91.14	TAL	170.57	TAP	216.89	RCA	29.33	APO	153.97	V2	35.082
RC	68.856	GL	-1.98	GP	-4.26	ZAL	63.69	ZAP	28.99	ETS	168.90	ZAE	139.20	ETE	182.64	ZAC	18.51	ETC	84.08	CLP	28.71

PLANETOCENTRIC CONIC

C3	200.626	VHL	14.164	DLA	-20.72	RAL	308.81	RAD	6571.1	VEL	17.943	PTH	3.00	VHP	23.956	DPA	-28.06	RAP	263.56	ECC	4.3018

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 8 7	2025.22	-14.57	29.83	202.24	114.55	10 41 52	1425.2	-11.14	22.84
90.00	16 10 26	798.15	21.79	318.21	216.31	108.54	16 23 44	198.2	24.13	310.32
100.00	11 15 45	1806.98	-16.62	12.81	201.25	115.21	11 45 52	1207.0	-13.09	5.80
100.00	17 45 29	5779.66	23.94	274.35	217.09	108.45	19 21 49	5179.7	26.24	266.30
110.00	11 54 51	1684.41	-21.73	.86	198.59	117.06	12 22 56	1084.4	-17.93	353.79
110.00	19 22 52	5475.00	29.34	253.22	219.10	108.38	20 54 7	4875.0	31.57	244.72

DIFFERENTIAL CORRECTIONS

TDE	-.4987	TRA	-1.7436	TC3	-.1254	BAU	.3366														
RDE	-1.0557	RRA	.4020	RC3	-.0035	FAU	.01245														
FDE	.2242	FRA	.7098	FC3	-.0537	BSP	2290														
BDE	1.1675	BRA	1.7894	BC3	.1255	FSP	-65														

MID-COURSE EXECUTION ACCURACY

SGT	857.7	SGR	461.2	SG3	30.6				
RRT	-.1048	RRF	.0988	RTF	-.6438				
SGB	973.8	R23	-.0045	R13	.6446				
SG1	859.6	SG2	457.6	THA	175.49				

ORBIT DETERMINATION ACCURACY

ST	303.3	SR	430.2	SS	267.7				
CRT	.5698	CRS	.6096	CST	.9963				
LSA	526.3	MSA	267.4	SSA	14.1				
EL1	475.6	EL2	225.4	ALF	61.03				

LAUNCH DATE OCT 3 1965 FLIGHT TIME 74.00 ARRIVAL DATE DEC 16 1965

HELIOCENTRIC CONIC DISTANCE 147,261

RL	149.68	LAL	.00	LOL	9.58	VL	18,699	GAL	17.90	AZL	91.33	HCA	49.53	SMA	93.22	ECC	.65319	INC	1.3264	VI	29.769
RP	107.98	LAP	-1.01	LOP	59.10	VP	32,162	GAP	-39.93	AZP	90.86	TAL	169.83	TAP	219.36	RCA	32.33	APO	154.11	V2	35.095
RC	66.778	GL	-1.75	GP	-4.40	ZAL	62.47	ZAP	27.53	ETS	168.16	ZAE	139.54	ETE	183.32	ZAC	18.64	ETC	89.30	CLP	27.20

PLANETOCENTRIC CONIC

C3	182.608	VHL	13,513	DLA	-20.19	RAL	309.99	RAD	6571.0	VEL	17.434	PTH	2.96	VHP	23.022	DPA	-28.35	RAP	265.47	ECC	4.0053

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 6 36	2033.22	-14.79	30.31	202.37	114.42	10 40 29	1433.2	-11.38	23.30
90.00	16 21 23	760.30	22.59	315.72	216.41	107.54	16 34 4	160.3	24.78	307.74
100.00	11 14 55	1812.75	-16.79	13.15	201.41	115.10	11 45 7	1212.8	-13.27	6.13
100.00	17 55 46	5744.04	24.69	271.96	217.13	107.41	19 31 30	5144.0	26.84	263.82
110.00	11 55 18	1686.20	-21.79	.97	198.82	117.01	12 23 24	1086.2	-17.99	353.90
110.00	19 31 52	5443.36	30.00	250.99	218.99	107.21	21 2 35	4843.4	32.06	242.38

DIFFERENTIAL CORRECTIONS

TDE	-.5114	TRA	-1.7575	TC3	-.1334	BAU	.3258														
RDE	-1.0111	RRA	.4038	RC3	-.0050	FAU	.01258														
FDE	.2410	FRA	.7373	FC3	-.0596	BSP	2406														
BDE	1.1331	BRA	1.8033	BC3	.1334	FSP	-71														

MID-COURSE EXECUTION ACCURACY

SGT	898.5	SGR	466.1	SG3	33.2				
RRT	-.1123	RRF	.1069	RTF	-.6626				
SGB	1012.2	R23	-.0057	R13	.6634				
SG1	900.5	SG2	462.1	THA	175.47				

ORBIT DETERMINATION ACCURACY

ST	322.3	SR	432.2	SS	284.4				
CRT	.5738	CRS	.6203	CST	.9960				
LSA	544.1	MSA	274.5	SSA	14.3				
EL1	485.1	EL2	235.1	ALF	58.71				

LAUNCH DATE OCT 3 1965 FLIGHT TIME 76.00 ARRIVAL DATE DEC 18 1965

HELIOCENTRIC CONIC DISTANCE 153,273

RL	149.68	LAL	.00	LOL	9.58	VL	19.318	GAL	17.13	AZL	91.04	HCA	52.74	SMA	94.78	ECC	.62695	INC	1.0372	VI	29.769
RP	107.94	LAP	-.83	LOP	62.31	VP	32.540	GAP	-38.12	AZP	90.63	TAL	169.11	TAP	221.84	RCA	35.36	APO	154.21	V2	35.108
RC	64.732	GL	-1.49	GP	-4.54	ZAL	61.32	ZAP	26.09	ETS	167.33	ZAE	139.97	ETE	184.08	ZAC	18.94	ETC	94.48	CLP	25.72

PLANETOCENTRIC CONIC

C3	166.279	VHL	12.895	DLA	-19.63	RAL	311.10	RAD	6570.8	VEL	16.959	PTH	2.92	VHP	22.121	DPA	-28.64	RAP	267.42	ECC	3.7365

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 4 48	2040.62	-15.00	30.76	202.39	114.30	10 38 49	1440.6	-11.60	23.74
90.00	16 32 4	721.61	23.36	313.15	216.35	106.47	16 44 5	121.6	25.40	305.07
100.00	11 13 47	1818.02	-16.94	13.47	201.46	115.00	11 44 5	1218.0	-13.43	6.44
100.00	18 5 46	5707.48	25.41	269.49	217.01	106.30	19 40 53	5107.5	27.40	261.25
110.00	11 55 24	1687.58	-21.83	1.05	198.94	116.98	12 23 32	1087.6	-18.04	353.98
110.00	19 40 38	5410.68	30.64	248.66	218.72	105.96	21 10 49	4810.7	32.52	239.95

DIFFERENTIAL CORRECTIONS

TDE	-.5208	TRA	-1.7691	TC3	-.1407	BAU	.3132														
RDE	-.9669	RRA	.4046	RC3	-.0068	FAU	.01273														
FDE	.2580	FRA	.7651	FC3	-.0663	BSP	2583														
BDE	1.0983	BRA	1.8148	BC3	.1409	FSP	-79														

MID-COURSE EXECUTION ACCURACY

SGT	939.0	SGR	470.4	SG3	35.9				
RRT	-.1212	RRF	.1158	RTF	-.6810				
SGB	1050.3	R23	-.0064	R13	.6818				
SG1	941.3	SG2	465.8	THA	175.40				

ORBIT DETERMINATION ACCURACY

ST	341.1	SR	433.4	SS	301.5				
CRT	.5755	CRS	.6294	CST	.9956				
LSA	562.1	MSA	280.9	SSA	14.5				
EL1	494.4	EL2	244.6	ALF	56.39				

LAUNCH DATE OCT 3 1965 FLIGHT TIME 78.00 ARRIVAL DATE DEC 20 1965

HELIOCENTRIC CONIC DISTANCE 159.372

RL	149.68	LAL	.00	LOL	9.58	VL	19.898	GAL	16.39	AZL	90.77	HCA	55.95	SMA	96.35	ECC	.60134	INC	.7715
RP	107.90	LAP	-.64	LOP	65.53	VP	32.900	GAP	-36.41	AZP	90.43	TAL	168.40	TAP	224.35	RCA	38.41	APO	154.29
RC	62.721	GL	-1.20	GP	-4.69	ZAL	60.22	ZAP	24.67	ETS	166.39	ZAE	140.50	ETE	184.93	ZAC	19.41	ETC	99.50

V1	29.769	V2	35.120	CLP	24.25														

PLANETOCENTRIC CONIC

C3	151.470	VHL	12.307	DLA	-19.07	RAL	312.15	RAD	6570.6	VEL	16.517	PTH	2.88	VHP	21.251	DPA	-28.91	RAP	269.39

ECC	3.4928																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 2 43	2047.48	-15.19	31.17	202.31	114.19	10 36 51	1447.5	-11.80	24.14
90.00	16 42 27	682.04	24.10	310.48	216.13	105.33	16 53 49	82.0	25.97	302.32
100.00	11 12 20	1822.83	-17.08	13.76	201.41	114.91	11 42 43	1222.8	-13.58	6.72
100.00	18 15 31	5669.96	26.10	266.91	216.73	105.11	19 50 1	5070.0	27.92	258.59
110.00	11 55 11	1688.59	-21.86	1.12	198.95	116.96	12 23 19	1088.6	-18.07	354.04
110.00	19 49 10	5376.96	31.24	246.22	218.28	104.64	21 18 47	4777.0	32.93	237.40

DIFFERENTIAL CORRECTIONS

TDE	-.5297	TRA	-1.7809	TC3	-.1480	BAU	.3003
RDE	-.9230	RRA	.4045	RC3	-.0089	FAU	.01291
FDE	.2756	FRA	.7938	FC3	-.0738	BSP	2764
BDE	1.0642	BRA	1.8262	BC3	.1483	FSP	-87

MID-COURSE EXECUTION ACCURACY

SGT	981.4	SGR	474.2	SG3	38.9				
RRT	-.1307	RRF	.1255	RTF	-.6987				
SGB	1089.9	R23	-.0072	R13	.6995				
SG1	983.9	SG2	468.9	THA	175.32				

ORBIT DETERMINATION ACCURACY

ST	360.8	SR	433.8	SS	319.3				
CRT	.5765	CRS	.6376	CST	.9951				
LSA	581.3	MSA	286.7	SSA	14.7				
EL1	504.0	EL2	253.8	ALF	53.91				

LAUNCH DATE OCT 3 1965 FLIGHT TIME 80.00 ARRIVAL DATE DEC 22 1965

HELIOCENTRIC CONIC DISTANCE 165,554

RL	149.68	LAL	.00	LOL	9.58	VL	20.440	GAL	15.68	AZL	90.53	HCA	59.17	SMA	97.90	ECC	.57641	INC	.5251
RP	107.87	LAP	-.45	LOP	68.75	VP	33.244	GAP	-34.77	AZP	90.27	TAL	167.72	TAP	226.89	RCA	41.47	APO	154.34
RC	60.751	GL	-.88	GP	-4.86	ZAL	59.17	ZAP	23.28	ETS	165.30	ZAE	141.13	ETE	185.88	ZAC	20.04	ETC	104.30

V1	29.769	V2	35.132	CLP	22.79														

PLANETOCENTRIC CONIC

C3	138.030	VHL	11.749	DLA	-18.48	RAL	313.12	RAD	6570.5	VEL	16.105	PTH	2.83	VHP	20.411	DPA	-29.18	RAP	271.40

ECC	3.2716																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 0 21	2053.85	-15.37	31.55	202.13	114.08	10 34 35	1453.8	-11.99	24.51
90.00	16 52 35	641.56	24.80	307.73	215.74	104.12	17 3 16	41.6	26.50	299.47
100.00	11 10 35	1827.23	-17.21	14.03	201.26	114.83	11 41 2	1227.2	-13.72	6.97
100.00	18 25 2	5631.45	26.76	264.24	216.28	103.85	19 58 54	5031.5	28.40	255.82
110.00	11 54 37	1689.26	-21.88	1.16	198.85	116.94	12 22 46	1089.3	-18.09	354.08
110.00	19 57 30	5342.18	31.81	243.67	217.67	103.23	21 26 32	4742.2	33.30	234.76

DIFFERENTIAL CORRECTIONS

TDE	-.5405	TRA	-1.7953	TC3	-.1560	BAU	.2886
RDE	-.8795	RRA	.4036	RC3	-.0114	FAU	.01310
FDE	.2941	FRA	.8236	FC3	-.0822	BSP	2888
BDE	1.0323	BRA	1.8401	BC3	.1564	FSP	-95

MID-COURSE EXECUTION ACCURACY

SGT	1027.6	SGR	477.2	SG3	42.1				
RRT	-.1401	RRF	.1358	RTF	-.7153				
SGB	1133.0	R23	-.0090	R13	.7162				
SG1	1030.3	SG2	471.3	THA	175.29				

ORBIT DETERMINATION ACCURACY

ST	382.5	SR	433.4	SS	338.0				
CRT	.5780	CRS	.6452	CST	.9946				
LSA	602.5	MSA	291.8	SSA	14.9				
EL1	514.9	EL2	262.7	ALF	51.12				

LAUNCH DATE OCT 3 1965 FLIGHT TIME 82.00 ARRIVAL DATE DEC 24 1965

HELIOCENTRIC CONIC DISTANCE 171.812

RL	149.68	LAL	.00	LOL	9.58	VL	20.948	GAL	14.99	AZL	90.29	HCA	62.39	SMA	99.45	ECC	.55222	INC	.2942
RP	107.83	LAP	-.26	LOP	71.97	VP	33.571	GAP	-33.21	AZP	90.14	TAL	167.06	TAP	229.45	RCA	44.53	APO	154.36
RC	58.824	GL	-.53	GP	-5.05	ZAL	58.17	ZAP	21.91	ETS	164.05	ZAE	141.86	ETE	186.95	ZAC	20.81	ETC	108.80

V1	29.769	V2	35.144	CLP	21.35														

PLANETOCENTRIC CONIC

C3	125.824	VHL	11.217	DLA	-17.87	RAL	314.02	RAD	6570.3	VEL	15.721	PTH	2.79	VHP	19.599	DPA	-29.44	RAP	273.42

ECC	3.0707																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 57 41	2059.80	-15.54	31.91	201.84	113.97	10 32 0	1459.8	-12.17	24.86
90.00	17 2 27	600.14	25.46	304.87	215.18	102.83	17 12 27	.1	26.97	296.53
100.00	11 8 30	1831.27	-17.32	14.27	201.00	114.75	11 39 1	1231.3	-13.84	7.21
100.00	18 34 19	5591.94	27.37	261.46	215.66	102.51	20 7 31	4991.9	28.82	252.96
110.00	11 53 42	1689.64	-21.90	1.18	198.65	116.93	12 21 52	1089.6	-18.11	354.10
110.00	20 5 36	5306.33	32.34	241.00	216.89	101.73	21 34 2	4706.3	33.62	232.00

DIFFERENTIAL CORRECTIONS

TDE	-.5480	TRA	-1.8070	TC3	-.1630	BAU	.2752
RDE	-.8364	RRA	.4020	RC3	-.0144	FAU	.01333
FDE	.3130	FRA	.8541	FC3	-.0917	BSP	3074
BDE	1.0000	BRA	1.8511	BC3	.1636	FSP	-104

MID-COURSE EXECUTION ACCURACY

SGT	1073.5	SGR	479.7	SG3	45.6				
RRT	-.1511	RRF	.1472	RTF	-.7316				
SGB	1175.8	R23	-.0102	R13	.7325				
SG1	1076.6	SG2	472.9	THA	175.21				

ORBIT DETERMINATION ACCURACY

ST	403.9	SR	432.1	SS	357.3				
CRT	.5775	CRS	.6516	CST	.9940				
LSA	624.1	MSA	296.1	SSA	15.1				
EL1	525.7	EL2	271.0	ALF	48.34				

LAUNCH DATE OCT 3 1965 FLIGHT TIME 84.00 ARRIVAL DATE DEC 26 1965

HELIOCENTRIC CONIC DISTANCE 178.140

RL	149.68	LAL	.00	LOL	9.58	VL	21.423	GAL	14.32	AZL	90.08	HCA	65.61	SMA	100.97	ECC	.52880	INC	.0753
RP	107.80	LAP	-.07	LOP	75.19	VP	33.881	GAP	-31.71	AZP	90.03	TAL	166.43	TAP	232.04	RCA	47.58	APO	154.36
RC	56.947	GL	-.15	GP	-5.25	ZAL	57.24	ZAP	20.57	ETS	162.59	ZAE	142.69	ETE	188.15	ZAC	21.73	ETC	112.98

V1	29.769	V2	35.155	CLP	19.92														

PLANETOCENTRIC CONIC

C3	114.737	VHL	10.712	DLA	-17.24	RAL	314.85	RAD	6570.2	VEL	15.365	PTH	2.75	VHP	18.814	DPA	-29.69	RAP	275.48

ECC	2.8883																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 54 41	2065.43	-15.69	32.25	201.45	113.88	10 29 6	1465.4	-12.33	25.19
90.00	17 12 5	5845.78	26.07	279.82	214.46	101.47	18 49 31	5245.8	27.39	271.40
100.00	11 6 4	1835.04	-17.43	14.50	200.63	114.68	11 36 40	1235.0	-13.96	7.43
100.00	18 43 22	5551.39	27.94	258.58	214.88	101.09	20 15 53	4951.4	29.18	250.00
110.00	11 52 26	1689.80	-21.90	1.19	198.34	116.93	12 20 36	1089.8	-18.11	354.11
110.00	20 13 30	5269.40	32.82	238.23	215.94	100.15	21 41 19	4669.4	33.87	229.15

DIFFERENTIAL CORRECTIONS

TDE	-.5547	TRA	-1.8179	TC3	-.1694	BAU	.2614
RDE	-.7938	RRA	.3997	RC3	-.0179	FAU	.01358
FDE	.3326	FRA	.8856	FC3	-.1025	BSP	3272
BDE	.9684	BRA	1.8613	BC3	.1704	FSP	-115

MID-COURSE EXECUTION ACCURACY

SGT	1120.9	SGR	481.5	SG3	49.3				
RRT	-.1630	RRF	.1597	RTF	-.7472				
SGB	1220.0	R23	.0116	R13	.7481				
SG1	1124.3	SG2	473.7	THA	175.13				

ORBIT DETERMINATION ACCURACY

ST	426.0	SR	429.9	SS	377.2				
CRT	.5761	CRS	.6571	CST	.9932				
LSA	646.9	MSA	299.6	SSA	15.2				
EL1	537.3	EL2	278.6	ALF	45.46				

LAUNCH DATE OCT 3 1965 FLIGHT TIME 86.00 ARRIVAL DATE DEC 28 1965

HELIOCENTRIC CONIC DISTANCE 184,534

RL	149.68	LAL	.00	LOL	9.58	VL	21.868	GAL	13.68	AZL	89.87	HCA	68.84	SMA	102.47	ECC	.50620	INC	.1292	V1	29.769
RP	107.76	LAP	.12	LOP	78.42	VP	34.176	GAP	-30.28	AZP	89.95	TAL	165.83	TAP	234.67	RCA	50.60	APO	154.34	V2	35.166
RC	55.125	GL	.27	GP	-5.47	ZAL	56.36	ZAP	19.27	ETS	160.89	ZAE	143.64	ETE	189.53	ZAC	22.78	ETC	116.81	CLP	18.50

PLANETOCENTRIC CONIC

C3	104.664	VHL	10.231	DLA	-16.59	RAL	315.61	RAD	6570.0	VEL	15.033	PTH	2.71	VHP	18.055	DPA	-29.93	RAP	277.55	ECC	2.7225

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 51 20	2070.85	-15.84	32.58	200.96	113.78	10 25 51	1470.9	-12.49	25.50
90.00	17 21 29	5802.37	26.62	276.76	213.58	100.03	18 58 12	5202.4	27.73	268.27
100.00	11 3 17	1838.66	-17.53	14.72	200.17	114.61	11 33 56	1238.7	-14.07	7.64
100.00	18 52 13	5509.80	28.44	255.60	213.94	99.60	20 24 3	4909.8	29.48	246.94
110.00	11 50 48	1689.84	-21.90	1.19	197.93	116.93	12 18 58	1089.8	-18.11	354.11
110.00	20 21 12	5231.38	33.24	235.34	214.83	98.49	21 48 23	4631.4	34.05	226.20

DIFFERENTIAL CORRECTIONS

TDE	-.5634	TRA	-1.8310	TC3	-.1764	BAU	.2488												
RDE	-.7517	RRA	.3970	RC3	-.0220	FAU	.01385												
FDE	.3536	FRA	.9187	FC3	-.1146	BSP	3410												
BDE	.9394	BRA	1.8736	BC3	.1778	FSP	-126												

MID-COURSE EXECUTION ACCURACY

SGT	1172.5	SGR	482.8	SG3	53.4						
RRT	-.1752	RRF	.1733	RTF	-.7618						
SGB	1268.0	R23	-.0139	R13	.7627						
SG1	1176.2	SG2	473.8	THA	175.07						

ORBIT DETERMINATION ACCURACY

ST	450.2	SR	426.7	SS	398.3						
CRT	.5752	CRS	.6621	CST	.9925						
LSA	672.2	MSA	302.2	SSA	15.4						
EL1	550.8	EL2	285.3	ALF	42.33						

LAUNCH DATE OCT 3 1965 FLIGHT TIME 88.00 ARRIVAL DATE DEC 30 1965

HELIOCENTRIC CONIC DISTANCE 190,987

RL	149.68	LAL	.00	LOL	9.58	VL	22.285	GAL	13.05	AZL	89.67	HCA	72.06	SMA	103.95	ECC	.48442	INC	.3275	V1	29.769
RP	107.73	LAP	.31	LOP	81.64	VP	34.454	GAP	-28.91	AZP	89.90	TAL	165.26	TAP	237.32	RCA	53.59	APO	154.30	V2	35.176
RC	53.365	GL	.73	GP	-5.72	ZAL	55.53	ZAP	17.99	ETS	158.88	ZAE	144.68	ETE	191.09	ZAC	23.93	ETC	120.29	CLP	17.09

PLANETOCENTRIC CONIC

C3	95.512	VHL	9.773	DLA	-15.92	RAL	316.30	RAD	6569.9	VEL	14.726	PTH	2.66	VHP	17.320	DPA	-30.16	RAP	279.64	ECC	2.5719

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 47 37	2076.19	-15.99	32.91	200.38	113.69	10 22 13	1476.2	-12.65	25.82
90.00	17 30 41	5757.92	27.11	273.60	212.54	98.52	19 6 39	5157.9	28.01	265.05
100.00	11 0 8	1842.22	-17.63	14.94	199.61	114.54	11 30 50	1242.2	-14.18	7.85
100.00	19 0 52	5467.12	28.89	252.50	212.83	98.03	20 31 59	4867.1	29.70	243.79
110.00	11 48 46	1689.85	-21.90	1.19	197.42	116.93	12 16 56	1089.8	-18.11	354.11
110.00	20 28 43	5192.26	33.59	232.34	213.55	96.75	21 55 15	4592.3	34.16	223.14

DIFFERENTIAL CORRECTIONS

TDE	-.5690	TRA	-1.8412	TC3	-.1819	BAU	.2348												
RDE	-.7102	RRA	.3939	RC3	-.0267	FAU	.01417												
FDE	.3751	FRA	.9529	FC3	-.1284	BSP	3610												
BDE	.9100	BRA	1.8829	BC3	.1839	FSP	-138												

MID-COURSE EXECUTION ACCURACY

SGT	1223.8	SGR	483.4	SG3	57.9						
RRT	-.1894	RRF	.1884	RTF	-.7759						
SGB	1315.8	R23	-.0158	R13	.7769						
SG1	1227.8	SG2	473.1	THA	174.97						

ORBIT DETERMINATION ACCURACY

ST	474.1	SR	422.5	SS	420.1						
CRT	.5723	CRS	.6661	CST	.9916						
LSA	697.9	MSA	304.1	SSA	15.5						
EL1	564.5	EL2	291.0	ALF	39.30						

LAUNCH DATE OCT 3 1965 FLIGHT TIME 90.00 ARRIVAL DATE JAN 1 1966

HELIOCENTRIC CONIC DISTANCE 197,495

RL	149.68	LAL	.00	LOL	9.58	VL	22.675	GAL	12.45	AZL	89.48	HCA	75.29	SMA	105.40	ECC	.46348	INC	.5189	V1	29.769
RP	107.70	LAP	.50	LOP	84.87	VP	34.718	GAP	-27.59	AZP	89.87	TAL	164.73	TAP	240.02	RCA	56.55	APO	154.24	V2	35.186
RC	51.675	GL	1.23	GP	-5.98	ZAL	54.77	ZAP	16.75	ETS	156.50	ZAE	145.83	ETE	192.90	ZAC	25.19	ETC	123.44	CLP	15.68

PLANETOCENTRIC CONIC

C3	87.200	VHL	9.338	DLA	-15.21	RAL	316.91	RAD	6569.7	VEL	14.441	PTH	2.62	VHP	16.610	DPA	-30.39	RAP	281.74	ECC	2.4351

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 43 31	2081.60	-16.14	33.23	199.70	113.59	10 18 12	1481.6	-12.81	26.14
90.00	17 39 42	5712.40	27.52	270.33	211.34	96.93	19 14 55	5112.4	28.20	261.73
100.00	10 56 34	1845.88	-17.74	15.16	198.95	114.46	11 27 20	1245.9	-14.29	8.07
100.00	19 9 20	5423.35	29.26	249.30	211.57	96.39	20 39 43	4823.3	29.84	240.55
110.00	11 46 20	1689.97	-21.91	1.20	196.82	116.92	12 14 30	1090.0	-18.12	354.12
110.00	20 36 3	5152.02	33.87	229.23	212.11	94.93	22 1 55	4552.0	34.18	220.00

DIFFERENTIAL CORRECTIONS

TDE	-.5740	TRA	-1.8504	TC3	-.1865	BAU	.2207												
RDE	-.6692	RRA	.3905	RC3	-.0322	FAU	.01452												
FDE	.3978	FRA	.9885	FC3	-.1441	BSP	3815												
BDE	.8816	BRA	1.8911	BC3	.1893	FSP	-152												

MID-COURSE EXECUTION ACCURACY

SGT	1276.6	SGR	483.6	SG3	62.7						
RRT	-.2050	RRF	.2051	RTF	-.7895						
SGB	1365.1	R23	-.0180	R13	.7905						
SG1	1281.1	SG2	471.7	THA	174.86						

ORBIT DETERMINATION ACCURACY

ST	438.7	SR	417.3	SS	442.8						
CRT	.5686	CRS	.6692	CST	.9906						
LSA	725.0	MSA	305.1	SSA	15.7						
EL1	579.2	EL2	295.6	ALF	36.25						

LAUNCH DATE OCT 3 1965 FLIGHT TIME 92.00 ARRIVAL DATE JAN 3 1966

HELIOCENTRIC CONIC DISTANCE 204,052

RL	149.68	LAL	.00	LOL	9.58	VL	23.039	GAL	11.87	AZL	89.30	HCA	78.52	SMA	106.81	ECC	.44340	INC	.7046	V1	29.769
RP	107.67	LAP	.69	LOP	88.10	VP	34.966	GAP	-26.32	AZP	89.86	TAL	164.23	TAP	242.75	RCA	59.45	APO	154.17	V2	35.196
RC	50.062	GL	1.78	GP	-6.28	ZAL	54.06	ZAP	15.56	ETS	153.66	ZAE	147.09	ETE	194.98	ZAC	26.54	ETC	126.26	CLP	14.27

PLANETOCENTRIC CONIC

C3	79.652	VHL	8.925	DLA	-14.48	RAL	317.46	RAD	6569.6	VEL	14.177	PTH	2.58	VHP	15.924	DPA	-30.62	RAP	283.87	ECC	2.3109

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 38 59	2087.24	-16.29	33.58	198.93	113.49	10 13 46	1487.2	-12.97	26.47
90.00	17 48 33	5665.77	27.86	266.96	210.00	95.28	19 22 59	5065.8	28.30	258.33
100.00	10 52 35	1849.80	-17.85	15.40	198.21	114.39	11 23 25	1249.8	-14.41	8.30
100.00	19 17 39	5378.45	29.56	246.00	210.17	94.67	20 47 17	4778.5	29.89	237.21
110.00	11 43 29	1690.34	-21.92	1.22	196.13	116.91	12 11 40	1090.3	-18.13	354.14
110.00	20 43 14	5110.67	34.06	226.02	210.52	93.04	22 8 24	4510.7	34.11	216.77

DIFFERENTIAL CORRECTIONS

TDE	-.5785	TRA	-1.8589	TC3	-.1901	BAU	.2065												
RDE	-.6288	RRA	.3869	RC3	-.0385	FAU	.01491												
FDE	.4219	FRA	1.0258	FC3	-.1621	BSP	4024												
BDE	.8544	BRA	1.8987	BC3	.1940	FSP	-167												

MID-COURSE EXECUTION ACCURACY

SGT	1331.2	SGR	483.2	SG3	68.0						
RRT	-.2223	RRF	.2236	RTF	-.8023						
SGB	1416.2	R23	-.0205	R13	.8034						
SG1	1336.2	SG2	469.4	THA	174.74						

ORBIT DETERMINATION ACCURACY

ST	524.2	SR	410.9	SS	466.7						
CRT	.5639	CRS	.6715	CST	.9895						
LSA	753.7	MSA	305.2	SSA	15.8						
EL1	595.2	EL2	298.8	ALF	33.23						

LAUNCH DATE OCT 3 1965 FLIGHT TIME 94.00 ARRIVAL DATE JAN 5 1966

HELIOCENTRIC CONIC DISTANCE 210.653

RL	149.68	LAL	.00	LOL	9.58	VL	23.380	GAL	11.32	AZL	89.11	HCA	81.75	SMA	108.19	ECC	.42417	INC	.8861	VI	29.769
RP	107.64	LAP	.88	LOP	91.33	VP	35.201	GAP	-25.10	AZP	89.87	TAL	163.76	TAP	245.52	RCA	62.30	APO	154.08	V2	35.204
RC	48.537	GL	2.38	GP	-6.60	ZAL	53.42	ZAP	14.43	ETS	150.26	ZAE	148.43	ETE	197.41	ZAC	27.97	ETC	128.79	CLP	12.86

PLANETOCENTRIC CONIC

C3 72.803 VHL 8.532 DLA -13.71 RAL 317.92 RAD 6569.4 VEL 13.934 PTH 2.54 VHP 15.260 DPA -30.85 RAP 286.00 ECC 2.1982

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 34 1	2093.31	-16.45	33.95	198.08	113.38	10 8 54	1493.3	-13.15	26.83
90.00	17 57 16	5618.02	28.11	263.49	208.51	93.55	19 30 54	5018.0	28.31	254.83
100.00	10 48 8	1854.15	-17.97	15.66	197.38	114.30	11 19 2	1254.2	-14.54	8.55
100.00	19 25 49	5332.41	29.77	242.59	208.62	92.89	20 54 42	4732.4	29.85	233.79
110.00	11 40 11	1691.14	-21.94	1.27	195.36	116.89	12 8 22	1091.1	-18.16	354.18
110.00	20 50 16	5068.19	34.17	222.71	208.80	91.08	22 14 44	4468.2	33.94	213.47

DIFFERENTIAL CORRECTIONS

TDE	-.5825	TRA	-1.8662	TC3	-.1923	BAU	.1924
RDE	-.5889	RRA	.3834	RC3	-.0458	FAU	.01534
FDE	.4474	FRA	1.0649	FC3	-.1825	BSP	4240
BDE	.8283	BRA	1.9052	BC3	.1977	FSP	-184

MID-COURSE EXECUTION ACCURACY

SGT	1387.3	SGR	482.4	SG3	73.8		
RRT	-.2413	RRF	.2442	RTF	-.8145		
SGB	1468.8	R23	-.0233	R13	.8157		
SG1	1392.8	SG2	466.3	THA	174.60		

ORBIT DETERMINATION ACCURACY

ST	550.3	SR	403.4	SS	491.7		
CRT	.5583	CRS	.6729	CST	.9884		
LSA	783.9	MSA	304.5	SSA	15.9		
EL1	612.5	EL2	300.7	ALF	30.26		

LAUNCH DATE OCT 3 1965 FLIGHT TIME 96.00 ARRIVAL DATE JAN 7 1966

HELIOCENTRIC CONIC DISTANCE 217.294

RL	149.68	LAL	.00	LOL	9.58	VL	23.698	GAL	10.78	AZL	88.94	HCA	84.99	SMA	109.52	ECC	.40580	INC	1.0648	VI	29.769
RP	107.62	LAP	1.06	LOP	94.57	VP	35.421	GAP	-23.92	AZP	89.91	TAL	163.34	TAP	248.32	RCA	65.08	APO	153.97	V2	35.213
RC	47.108	GL	3.04	GP	-6.95	ZAL	52.84	ZAP	13.38	ETS	146.18	ZAE	149.84	ETE	200.25	ZAC	29.47	ETC	131.05	CLP	11.46

PLANETOCENTRIC CONIC

C3 66.592 VHL 8.160 DLA -12.90 RAL 318.32 RAD 6569.3 VEL 13.709 PTH 2.51 VHP 14.618 DPA -31.08 RAP 288.14 ECC 2.0959

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 28 33	2100.03	-16.63	34.36	197.15	113.25	10 3 33	1500.0	-13.35	27.22
90.00	18 5 51	5569.10	28.27	259.92	206.89	91.77	19 38 40	4969.1	28.21	251.26
100.00	10 43 13	1859.15	-18.11	15.97	196.47	114.20	11 14 12	1259.1	-14.69	8.85
100.00	19 33 53	5285.21	29.88	239.09	206.93	91.05	21 1 58	4685.2	29.70	230.29
110.00	11 36 25	1692.55	-21.99	1.36	194.50	116.86	12 4 37	1092.5	-18.20	354.27
110.00	20 57 10	5024.58	34.17	219.30	206.94	89.06	22 20 55	4424.6	33.66	210.09

DIFFERENTIAL CORRECTIONS

TDE	-.5862	TRA	-1.8726	TC3	-.1931	BAU	.1785
RDE	-.5496	RRA	.3801	RC3	-.0542	FAU	.01582
FDE	.4747	FRA	1.1061	FC3	-.2057	BSP	4456
BDE	.8035	BRA	1.9108	BC3	.2005	FSP	-202

MID-COURSE EXECUTION ACCURACY

SGT	1445.0	SGR	481.3	SG3	80.1		
RRT	-.2625	RRF	.2673	RTF	-.8261		
SGB	1523.1	R23	-.0266	R13	.8273		
SG1	1451.2	SG2	462.5	THA	174.44		

ORBIT DETERMINATION ACCURACY

ST	577.3	SR	394.5	SS	518.1		
CRT	.5515	CRS	.6731	CST	.9872		
LSA	815.7	MSA	302.8	SSA	16.1		
EL1	631.1	EL2	301.0	ALF	27.37		

LAUNCH DATE OCT 3 1965 FLIGHT TIME 98.00 ARRIVAL DATE JAN 9 1966

HELIOCENTRIC CONIC DISTANCE 223.970

RL	149.68	LAL	.00	LOL	9.58	VL	23.996	GAL	10.26	AZL	88.76	HCA	88.22	SMA	110.82	ECC	.38828	INC	1.2418	VI	29.769
RP	107.60	LAP	1.24	LOP	97.80	VP	35.628	GAP	-22.79	AZP	89.96	TAL	162.95	TAP	251.17	RCA	67.79	APO	153.85	V2	35.220
RC	45.785	GL	3.76	GP	-7.34	ZAL	52.32	ZAP	12.42	ETS	141.27	ZAE	151.31	ETE	203.59	ZAC	31.03	ETC	133.06	CLP	10.05

PLANETOCENTRIC CONIC

C3 60.966 VHL 7.808 DLA -12.05 RAL 318.63 RAD 6569.1 VEL 13.503 PTH 2.47 VHP 13.998 DPA -31.33 RAP 290.30 ECC 2.0034

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 22 35	2107.62	-16.84	34.82	196.15	113.11	9 57 42	1507.6	-13.57	27.67
90.00	18 14 21	5518.98	28.32	256.26	205.14	89.93	19 46 20	4919.0	28.01	247.60
100.00	10 37 47	1865.01	-18.27	16.33	195.49	114.08	11 8 52	1265.0	-14.87	9.19
100.00	19 41 50	5236.81	29.88	235.49	205.13	89.15	21 9 7	4636.8	29.44	226.71
110.00	11 32 8	1694.77	-22.05	1.50	193.58	116.80	12 0 23	1094.8	-18.28	354.40
110.00	21 3 58	4979.82	34.07	215.81	204.96	87.00	22 26 58	4379.8	33.28	206.66

DIFFERENTIAL CORRECTIONS

TDE	-.5897	TRA	-1.8778	TC3	-.1920	BAU	.1649
RDE	-.5108	RRA	.3770	RC3	-.0638	FAU	.01635
FDE	.5040	FRA	1.1496	FC3	-.2322	BSP	4675
BDE	.7801	BRA	1.9153	BC3	.2023	FSP	-221

MID-COURSE EXECUTION ACCURACY

SGT	1504.2	SGR	480.0	SG3	86.9		
RRT	-.2861	RRF	.2930	RTF	-.8370		
SGB	1578.9	R23	-.0303	R13	.8383		
SG1	1511.1	SG2	457.9	THA	174.25		

ORBIT DETERMINATION ACCURACY

ST	605.0	SR	384.3	SS	546.1		
CRT	.5434	CRS	.6721	CST	.9860		
LSA	849.4	MSA	300.3	SSA	16.2		
EL1	651.0	EL2	299.8	ALF	24.59		

LAUNCH DATE OCT 3 1965 FLIGHT TIME 100.00 ARRIVAL DATE JAN 11 1966

HELIOCENTRIC CONIC DISTANCE 230.675

RL	149.68	LAL	.00	LOL	9.58	VL	24.274	GAL	9.77	AZL	88.58	HCA	91.46	SMA	112.08	ECC	.37160	INC	1.4183	VI	29.769
RP	107.57	LAP	1.42	LOP	101.04	VP	35.823	GAP	-21.70	AZP	90.04	TAL	162.61	TAP	254.07	RCA	70.43	APO	153.72	V2	35.227
RC	44.580	GL	4.54	GP	-7.77	ZAL	51.88	ZAP	11.59	ETS	135.42	ZAE	152.79	ETE	207.54	ZAC	32.64	ETC	134.83	CLP	8.63

PLANETOCENTRIC CONIC

C3 55.876 VHL 7.475 DLA -11.16 RAL 318.87 RAD 6569.0 VEL 13.313 PTH 2.43 VHP 13.399 DPA -31.58 RAP 292.46 ECC 1.9196

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 16 3	2116.33	-17.07	35.36	195.08	112.94	9 51 19	1516.3	-13.82	28.19
90.00	18 22 47	5467.63	28.26	252.50	203.29	88.05	19 53 54	4867.6	27.69	243.88
100.00	10 31 47	1871.99	-18.46	16.76	194.45	113.93	11 2 59	1272.0	-15.08	9.60
100.00	19 49 44	5187.20	29.77	231.80	203.22	87.22	21 16 11	4587.2	29.07	223.07
110.00	11 27 19	1698.05	-22.15	1.70	192.59	116.72	11 55 38	1098.1	-18.39	354.59
110.00	21 10 40	4933.91	33.85	212.24	202.89	84.90	22 32 54	4333.9	32.77	203.17

DIFFERENTIAL CORRECTIONS

TDE	-.5930	TRA	-1.8819	TC3	-.1888	BAU	.1517
RDE	-.4724	RRA	.3745	RC3	-.0747	FAU	.01694
FDE	.5357	FRA	1.1956	FC3	-.2624	BSP	4902
BDE	.7582	BRA	1.9188	BC3	.2031	FSP	-243

MID-COURSE EXECUTION ACCURACY

SGT	1564.6	SGR	478.7	SG3	94.4		
RRT	-.3125	RRF	.3218	RTF	-.8473		
SGB	1636.2	R23	-.0346	R13	.8487		
SG1	1572.4	SG2	452.5	THA	174.04		

ORBIT DETERMINATION ACCURACY

ST	633.4	SR	372.6	SS	575.7		
CRT	.5334	CRS	.6695	CST	.9846		
LSA	884.9	MSA	297.0	SSA	16.3		
EL1	672.2	EL2	297.0	ALF	21.91		

LAUNCH DATE OCT 3 1965 FLIGHT TIME 102.00 ARRIVAL DATE JAN 13 1966

HELIOCENTRIC CONIC DISTANCE 237.407

RL	149.68	LAL	.00	LOL	9.58	VL	24.533	GAL	9.29	AZL	88.40	HCA	94.70	SMA	113.29	ECC	.35575	INC	1.5953	VI	29.769
RP	107.55	LAP	1.59	LOP	104.28	VP	36.005	GAP	-20.65	AZP	90.13	TAL	162.31	TAP	257.00	RCA	72.98	APO	153.59	V2	35.234
RC	43.503	GL	5.40	GP	-8.25	ZAL	51.50	ZAP	10.94	ETS	128.55	ZAE	154.23	ETE	212.20	ZAC	34.31	ETC	136.41	CLP	7.20

PLANETOCENTRIC CONIC

C3	51.278	VHL	7.161	DLA	-10.21	RAL	319.03	RAD	6568.9	VEL	13.139	PTH	2.40	VHP	12.821	DPA	-31.86	RAP	294.62	ECC	1.8439

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 8 55	2126.47	-17.34	35.98	193.96	112.74	9 44 21	1526.5	-14.11	28.79
90.00	18 31 11	5415.00	28.07	248.66	201.34	86.13	20 1 26	4815.0	27.24	240.09
100.00	10 25 12	1880.36	-18.69	17.27	193.35	113.76	10 56 32	1280.4	-15.33	10.10
100.00	19 57 35	5136.34	29.55	228.04	201.21	85.25	21 23 11	4536.3	28.58	219.37
110.00	11 21 57	1702.64	-22.29	1.98	191.54	116.61	11 50 20	1102.6	-18.54	354.86
110.00	21 17 19	4886.83	33.50	208.61	200.72	82.78	22 38 46	4286.8	32.14	199.64

DIFFERENTIAL CORRECTIONS

TDE	-.5989	TRA	-1.8874	TC3	-.1852	BAU	.1403
RDE	-.4343	RRA	.3727	RC3	-.0871	FAU	.01755
FDE	.5708	FRA	1.2451	FC3	-.2964	BSP	5069
BDE	.7398	BRA	1.9239	BC3	.2047	FSP	-266

MID-COURSE EXECUTION ACCURACY

SGT	1629.3	SGR	477.6	SG3	102.7		
RRT	-.3411	RRF	.3539	RTF	-.8568		
SGB	1697.8	R23	-.0404	R13	.8583		
SG1	1638.0	SG2	446.6	THA	173.83		

ORBIT DETERMINATION ACCURACY

ST	664.5	SR	359.2	SS	607.7		
CRT	.5224	CRS	.6650	CST	.9835		
LSA	924.1	MSA	292.5	SSA	16.4		
EL1	696.6	EL2	292.2	ALF	19.29		

LAUNCH DATE OCT 3 1965 FLIGHT TIME 104.00 ARRIVAL DATE JAN 15 1966

HELIOCENTRIC CONIC DISTANCE 244.160

RL	149.68	LAL	.00	LOL	9.58	VL	24.774	GAL	8.83	AZL	88.23	HCA	97.94	SMA	114.45	ECC	.34071	INC	1.7741	VI	29.769
RP	107.54	LAP	1.76	LOP	107.52	VP	36.176	GAP	-19.63	AZP	90.25	TAL	162.05	TAP	259.98	RCA	75.46	APO	153.44	V2	35.239
RC	42.563	GL	6.34	GP	-8.78	ZAL	51.20	ZAP	10.49	ETS	120.71	ZAE	155.57	ETE	217.67	ZAC	36.02	ETC	137.79	CLP	5.76

PLANETOCENTRIC CONIC

C3	47.131	VHL	6.865	DLA	-9.20	RAL	319.11	RAD	6568.8	VEL	12.981	PTH	2.37	VHP	12.263	DPA	-32.16	RAP	296.79	ECC	1.7757

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 1 8	2138.31	-17.65	36.71	192.79	112.51	9 36 46	1538.3	-14.44	29.50
90.00	18 39 35	5361.05	27.76	244.75	199.30	84.19	20 8 56	4761.1	26.67	236.25
100.00	10 17 58	1890.41	-18.97	17.89	192.20	113.54	10 49 29	1290.4	-15.62	10.70
100.00	20 5 26	5084.19	29.19	224.20	199.12	83.26	21 30 10	4484.2	27.95	215.62
110.00	11 15 58	1708.80	-22.48	2.36	190.45	116.45	11 44 27	1108.8	-18.75	355.22
110.00	21 23 55	4838.56	33.03	204.92	198.49	80.64	22 44 34	4238.6	31.38	196.08

DIFFERENTIAL CORRECTIONS

TDE	-.6026	TRA	-1.8891	TC3	-.1771	BAU	.1285
RDE	-.3965	RRA	.3718	RC3	-.1012	FAU	.01825
FDE	.6086	FRA	1.2972	FC3	-.3353	BSP	5298
BDE	.7213	BRA	1.9253	BC3	.2040	FSP	-293

MID-COURSE EXECUTION ACCURACY

SGT	1692.0	SGR	477.1	SG3	111.7		
RRT	-.3740	RRF	.3900	RTF	-.8660		
SGB	1758.0	R23	-.0460	R13	.8677		
SG1	1702.1	SG2	439.9	THA	173.55		

ORBIT DETERMINATION ACCURACY

ST	694.7	SR	344.1	SS	641.4		
CRT	.5073	CRS	.6576	CST	.9821		
LSA	964.0	MSA	287.5	SSA	16.5		
EL1	720.6	EL2	285.9	ALF	16.83		

LAUNCH DATE OCT 3 1965 FLIGHT TIME 106.00 ARRIVAL DATE JAN 17 1966

HELIOCENTRIC CONIC DISTANCE 250.930

RL	149.68	LAL	.00	LOL	9.58	VL	24.999	GAL	8.40	AZL	88.04	HCA	101.18	SMA	115.57	ECC	.32647	INC	1.9557	VI	29.769
RP	107.52	LAP	1.92	LOP	110.76	VP	36.335	GAP	-18.65	AZP	90.38	TAL	161.83	TAP	263.01	RCA	77.84	APO	153.29	V2	35.244
RC	41.769	GL	7.36	GP	-9.38	ZAL	50.98	ZAP	10.31	ETS	112.14	ZAE	156.73	ETE	224.04	ZAC	37.77	ETC	139.00	CLP	4.31

PLANETOCENTRIC CONIC

C3	43.399	VHL	6.588	DLA	-8.13	RAL	319.10	RAD	6568.6	VEL	12.836	PTH	2.34	VHP	11.725	DPA	-32.49	RAP	298.96	ECC	1.7142

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 52 39	2152.20	-18.01	37.57	191.58	112.23	9 28 31	1552.2	-14.84	30.33
90.00	18 48 3	5305.72	27.32	240.76	197.20	82.24	20 16 28	4705.7	25.96	232.35
100.00	10 10 4	1902.46	-19.30	18.64	191.01	113.28	10 41 46	1302.5	-15.98	11.41
100.00	20 13 19	5030.69	28.70	220.30	196.97	81.26	21 37 10	4430.7	27.20	211.82
110.00	11 9 21	1716.84	-22.72	2.86	189.32	116.25	11 37 57	1116.8	-19.01	355.69
110.00	21 30 31	4789.08	32.42	201.19	196.20	78.51	22 50 20	4189.1	30.50	192.50

DIFFERENTIAL CORRECTIONS

TDE	-.6042	TRA	-1.8870	TC3	-.1637	BAU	.1168
RDE	-.3588	RRA	.3720	RC3	-.1173	FAU	.01905
FDE	.6497	FRA	1.3521	FC3	-.3800	BSP	5587
BDE	.7027	BRA	1.9233	BC3	.2014	FSP	-323

MID-COURSE EXECUTION ACCURACY

SGT	1752.4	SGR	477.6	SG3	121.6		
RRT	-.4117	RRF	.4304	RTF	-.8750		
SGB	1816.3	R23	-.0514	R13	.8769		
SG1	1764.1	SG2	432.3	THA	173.19		

ORBIT DETERMINATION ACCURACY

ST	723.6	SR	327.1	SS	676.9		
CRT	.4869	CRS	.6465	CST	.9805		
LSA	1004.5	MSA	282.0	SSA	16.5		
EL1	743.9	EL2	277.9	ALF	14.48		

LAUNCH DATE OCT 3 1965 FLIGHT TIME 108.00 ARRIVAL DATE JAN 19 1966

HELIOCENTRIC CONIC DISTANCE 257.714

RL	149.68	LAL	.00	LOL	9.58	VL	25.208	GAL	7.98	AZL	87.86	HCA	104.42	SMA	116.63	ECC	.31302	INC	2.1416	VI	29.769
RP	107.51	LAP	2.07	LOP	114.01	VP	36.484	GAP	-17.70	AZP	90.53	TAL	161.66	TAP	266.08	RCA	80.12	APO	153.14	V2	35.249
RC	41.131	GL	8.48	GP	-10.04	ZAL	50.85	ZAP	10.43	ETS	103.25	ZAE	157.61	ETE	231.29	ZAC	39.55	ETC	140.04	CLP	2.84

PLANETOCENTRIC CONIC

C3	40.052	VHL	6.329	DLA	-6.99	RAL	319.02	RAD	6568.5	VEL	12.705	PTH	2.31	VHP	11.207	DPA	-32.87	RAP	301.14	ECC	1.6592

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 43 25	2168.50	-18.42	38.58	190.35	111.89	9 19 33	1568.5	-15.29	31.31
90.00	18 56 35	5248.93	26.73	236.71	195.05	80.29	20 24 4	4648.9	25.12	228.41
100.00	10 1 25	1916.86	-19.68	19.53	189.80	112.96	10 33 22	1316.9	-16.40	12.27
100.00	20 21 16	4975.80	28.07	216.35	194.78	79.27	21 44 12	4375.8	26.30	207.99
110.00	11 2 2	1727.08	-23.03	3.49	188.16	115.99	11 30 49	1127.1	-19.35	356.29
110.00	21 37 9	4738.35	31.67	197.42	193.89	76.40	22 56 7	4138.3	29.47	188.90

DIFFERENTIAL CORRECTIONS

TDE	-.6092	TRA	-1.8861	TC3	-.1490	BAU	.1078
RDE	-.3209	RRA	.3738	RC3	-.1353	FAU	.01989
FDE	.6958	FRA	1.4114	FC3	-.4300	BSP	5820
BDE	.6885	BRA	1.9228	BC3	.2013	FSP	-356

MID-COURSE EXECUTION ACCURACY

SGT	1816.4	SGR	479.5	SG3	132.5		
RRT	-.4522	RRF	.4748	RTF	-.8832		
SGB	1878.6	R23	-.0586	R13	.8853		
SG1	1830.0	SG2	424.5	THA	172.80		

ORBIT DETERMINATION ACCURACY

ST	755.3	SR	308.1	SS	715.6		
CRT	.4619	CRS	.6300	CST	.9792		
LSA	1049.5	MSA	275.5	SSA	16.6		
EL1	770.5	EL2	267.8	ALF	12.16		

LAUNCH DATE OCT 3 1965 FLIGHT TIME 110.00 ARRIVAL DATE JAN 21 1966

HELIOCENTRIC CONIC DISTANCE 264,508

RL	149.68	LAL	.00	LOL	9.58	VL	25.403	GAL	7.58	AZL	87.67	HCA	107.66	SMA	117.65	ECC	.30033	INC	2.3329	V1	29.769
RP	107.50	LAP	2.22	LOP	117.25	VP	36.622	GAP	-16.78	AZP	90.71	TAL	161.53	TAP	269.19	RCA	82.32	APO	152.99	V2	35.252
RC	40.657	GL	9.69	GP	-10.78	ZAL	50.80	ZAP	10.86	ETS	94.59	ZAE	158.12	ETE	239.27	ZAC	41.38	ETC	140.94	CLP	1.35

PLANETOCENTRIC CONIC

C3	37.061	VHL	6.088	DLA	-5.76	RAL	318.85	RAD	6568.4	VEL	12.587	PTH	2.28	VHP	10.709	DPA	-33.30	RAP	303.32	ECC	1.6099

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 33 21	2187.58	-18.90	39.78	189.10	111.48	9 9 49	1587.6	-15.82	32.46
90.00	19 5 16	5190.61	26.00	232.59	192.88	78.36	20 31 47	4590.6	24.13	224.42
100.00	9 51 58	1933.98	-20.13	20.60	188.57	112.58	10 24 12	1334.0	-16.90	13.30
100.00	20 29 20	4919.45	27.29	212.34	192.56	77.30	21 51 20	4319.5	25.27	204.12
110.00	10 53 58	1739.87	-23.41	4.29	186.99	115.65	11 22 58	1139.9	-19.77	357.05
110.00	21 43 50	4686.32	30.77	193.63	191.56	74.32	23 1 56	4086.3	28.32	185.30

DIFFERENTIAL CORRECTIONS

TDE	-.6158	TRA	-1.8843	TC3	-.1303	BAU	.1006
RDE	-.2826	RRA	.3773	RC3	-.1556	FAU	.02081
FDE	.7472	FRA	1.4750	FC3	-.4861	BSP	6036
BDE	.6776	BRA	1.9217	BC3	.2030	FSP	-391

MID-COURSE EXECUTION ACCURACY

SGT	1881.0	SGR	483.8	SG3	144.4		
RRT	-.4966	RRF	.5234	RTF	-.8911		
SGB	1942.3	R23	-.0669	R13	.8935		
SG1	1897.1	SG2	416.3	THA	172.35		

ORBIT DETERMINATION ACCURACY

ST	788.6	SR	286.8	SS	757.4		
CRT	.4287	CRS	.6055	CST	.9780		
LSA	1098.0	MSA	268.3	SSA	16.6		
EL1	799.3	EL2	255.7	ALF	9.88		

LAUNCH DATE OCT 3 1965 FLIGHT TIME 112.00 ARRIVAL DATE JAN 23 1966

HELIOCENTRIC CONIC DISTANCE 271,309

RL	149.68	LAL	.00	LOL	9.58	VL	25.584	GAL	7.20	AZL	87.47	HCA	110.90	SMA	118.62	ECC	.28839	INC	2.5313	V1	29.769
RP	107.49	LAP	2.36	LOP	120.50	VP	36.750	GAP	-15.90	AZP	90.90	TAL	161.44	TAP	272.34	RCA	84.41	APO	152.83	V2	35.255
RC	40.351	GL	11.02	GP	-11.61	ZAL	50.84	ZAP	11.61	ETS	86.64	ZAE	158.17	ETE	247.66	ZAC	43.24	ETC	141.70	CLP	-.17

PLANETOCENTRIC CONIC

C3	34.399	VHL	5.865	DLA	-4.45	RAL	318.59	RAD	6568.4	VEL	12.481	PTH	2.26	VHP	10.232	DPA	-33.80	RAP	305.50	ECC	1.5661

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 22 25	2209.88	-19.45	41.18	187.86	110.99	8 59 15	1609.9	-16.43	33.82
90.00	19 14 9	5130.66	25.11	228.43	190.69	76.45	20 39 40	4530.7	22.99	220.40
100.00	9 41 40	1954.22	-20.66	21.88	187.35	112.10	10 14 14	1354.2	-17.48	14.53
100.00	20 37 35	4861.55	26.36	208.29	190.34	75.36	21 58 37	4261.5	24.09	200.23
110.00	10 45 7	1755.58	-23.87	5.28	185.83	115.23	11 14 23	1155.6	-20.27	357.99
110.00	21 50 37	4632.96	29.73	189.83	189.23	72.29	23 7 50	4033.0	27.02	181.69

DIFFERENTIAL CORRECTIONS

TDE	-.6220	TRA	-1.8807	TC3	-.1089	BAU	.0961
RDE	-.2435	RRA	.3830	RC3	-.1784	FAU	.02181
FDE	.8048	FRA	1.5431	FC3	-.5488	BSP	6299
BDE	.6679	BRA	1.9193	BC3	.2090	FSP	-430

MID-COURSE EXECUTION ACCURACY

SGT	1944.6	SGR	491.2	SG3	157.4		
RRT	-.5448	RRF	.5757	RTF	-.8982		
SGB	2005.7	R23	-.0761	R13	.9009		
SG1	1963.8	SG2	407.9	THA	171.81		

ORBIT DETERMINATION ACCURACY

ST	821.5	SR	263.3	SS	802.6		
CRT	.3807	CRS	.5684	CST	.9767		
LSA	1148.9	MSA	261.0	SSA	16.5		
EL1	828.2	EL2	241.5	ALF	7.61		

LAUNCH DATE OCT 3 1965 FLIGHT TIME 114.00 ARRIVAL DATE JAN 25 1966

HELIOCENTRIC CONIC DISTANCE 278,113

RL	149.68	LAL	.00	LOL	9.58	VL	25.752	GAL	6.84	AZL	87.26	HCA	114.14	SMA	119.54	ECC	.27716	INC	2.7385	V1	29.769
RP	107.48	LAP	2.50	LOP	123.75	VP	36.869	GAP	-15.04	AZP	91.12	TAL	161.40	TAP	275.54	RCA	86.41	APO	152.67	V2	35.257
RC	40.219	GL	12.46	GP	-12.55	ZAL	50.99	ZAP	12.66	ETS	79.69	ZAE	157.72	ETE	256.03	ZAC	45.14	ETC	142.33	CLP	-1.72

PLANETOCENTRIC CONIC

C3	32.045	VHL	5.661	DLA	-3.05	RAL	318.24	RAD	6568.3	VEL	12.386	PTH	2.24	VHP	9.774	DPA	-34.38	RAP	307.70	ECC	1.5274

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 10 30	2235.85	-20.08	42.83	186.63	110.40	8 47 46	1635.9	-17.12	35.41
90.00	19 23 18	5068.95	24.05	224.21	188.51	74.59	20 47 47	4469.0	21.71	216.33
100.00	9 30 26	1978.04	-21.26	23.39	186.15	111.52	10 3 24	1378.0	-18.15	15.98
100.00	20 46 4	4801.99	25.27	204.20	188.12	73.47	22 6 6	4202.0	22.76	196.30
110.00	10 35 25	1774.62	-24.42	6.49	184.68	114.70	11 4 59	1174.6	-20.88	359.13
110.00	21 57 34	4578.18	28.53	186.01	186.93	70.32	23 13 52	3978.2	25.59	178.08

DIFFERENTIAL CORRECTIONS

TDE	-.6308	TRA	-1.8767	TC3	-.0836	BAU	.0944
RDE	-.2032	RRA	.3914	RC3	-.2038	FAU	.02287
FDE	.8701	FRA	1.6162	FC3	-.6180	BSP	6520
BDE	.6627	BRA	1.9171	BC3	.2203	FSP	-472

MID-COURSE EXECUTION ACCURACY

SGT	2008.7	SGR	502.9	SG3	171.7		
RRT	-.5954	RRF	.6306	RTF	-.9049		
SGB	2070.7	R23	-.0867	R13	.9080		
SG1	2031.8	SG2	399.4	THA	171.18		

ORBIT DETERMINATION ACCURACY

ST	856.3	SR	237.7	SS	851.9		
CRT	.3115	CRS	.5108	CST	.9755		
LSA	1204.6	MSA	253.2	SSA	16.5		
EL1	859.8	EL2	225.0	ALF	5.31		

LAUNCH DATE OCT 3 1965 FLIGHT TIME 116.00 ARRIVAL DATE JAN 27 1966

HELIOCENTRIC CONIC DISTANCE 284,917

RL	149.68	LAL	.00	LOL	9.58	VL	25.907	GAL	6.49	AZL	87.04	HCA	117.38	SMA	120.41	ECC	.26664	INC	2.9565	V1	29.769
RP	107.48	LAP	2.62	LOP	126.99	VP	36.979	GAP	-14.21	AZP	91.36	TAL	161.40	TAP	278.78	RCA	88.31	APO	152.52	V2	35.259
RC	40.263	GL	14.03	GP	-13.61	ZAL	51.25	ZAP	14.00	ETS	73.85	ZAE	156.76	ETE	263.91	ZAC	47.08	ETC	142.83	CLP	-3.30

PLANETOCENTRIC CONIC

C3	29.981	VHL	5.475	DLA	-1.54	RAL	317.81	RAD	6568.2	VEL	12.303	PTH	2.22	VHP	9.337	DPA	-35.06	RAP	309.91	ECC	1.4934

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 57 33	2266.00	-20.78	44.76	185.44	109.68	8 35 19	1666.0	-17.91	37.27
90.00	19 32 47	5005.34	22.84	219.95	186.35	72.79	20 56 12	4405.3	20.27	212.22
100.00	9 18 10	2005.92	-21.94	25.18	184.98	110.82	9 51 36	1405.9	-18.91	17.69
100.00	20 54 51	4740.66	24.02	200.07	185.94	71.65	22 13 51	4140.7	21.28	192.34
110.00	10 24 47	1797.43	-25.06	7.95	183.58	114.05	10 54 44	1197.4	-21.59	.51
110.00	22 4 44	4521.91	27.18	182.19	184.67	68.43	23 20 6	3921.9	24.01	174.47

DIFFERENTIAL CORRECTIONS

TDE	-.6420	TRA	-1.8712	TC3	-.0547	BAU	.0956
RDE	-.1610	RRA	.4029	RC3	-.2321	FAU	.02402
FDE	.9439	FRA	1.6943	FC3	-.6937	BSP	6749
BDE	.6618	BRA	1.9141	BC3	.2385	FSP	-519

MID-COURSE EXECUTION ACCURACY

SGT	2071.6	SGR	520.4	SG3	187.3		
RRT	-.6471	RRF	.6868	RTF	-.9113		
SGB	2136.0	R23	-.0986	R13	.9148		
SG1	2099.8	SG2	391.4	THA	170.43		

ORBIT DETERMINATION ACCURACY

ST	892.5	SR	210.8	SS	905.3		
CRT	.2063	CRS	.4180	CST	.9746		
LSA	1265.0	MSA	245.2	SSA	16.3		
EL1	893.6	EL2	206.0	ALF	2.95		

LAUNCH DATE OCT 3 1965 FLIGHT TIME 118.00 ARRIVAL DATE JAN 29 1966

HELIOCENTRIC CONIC DISTANCE 291.719

RL	149.68	LAL	.00	LOL	9.58	VL	26.051	GAL	6.17	AZL	86.81	HCA	120.63	SMA	121.24	ECC	.25679	INC	3.1878	VI	29.769
RP	107.48	LAP	2.74	LOP	130.24	VP	37.081	GAP	-13.41	AZP	91.63	TAL	161.43	TAP	282.06	RCA	90.10	APO	152.37	V2	35.259
RC	40.482	GL	15.74	GP	-14.82	ZAL	51.62	ZAP	15.59	ETS	69.08	ZAE	155.33	ETE	270.95	ZAC	49.06	ETC	143.20	CLP	-4.92

PLANETOCENTRIC CONIC

C3	28.191	VHL	5.310	DLA	.08	RAL	317.28	RAD	6568.1	VEL	12.230	PTH	2.20	VHP	8.922	DPA	-35.87	RAP	312.14	ECC	1.4640

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 43 25	2300.90	-21.57	47.02	184.30	108.81	8 21 46	1700.9	-18.80	39.44
90.00	19 42 43	4939.66	21.45	215.64	184.25	71.06	21 5 2	4339.7	18.67	208.07
100.00	9 4 48	2038.39	-22.71	27.28	183.87	109.97	9 38 47	1438.4	-19.79	19.71
100.00	21 4 1	4677.40	22.60	195.91	183.81	69.89	22 21 58	4077.4	19.65	188.35
110.00	10 13 8	1824.49	-25.80	9.71	182.53	113.25	10 43 33	1224.5	-22.43	2.17
110.00	22 12 10	4464.07	25.68	178.37	182.47	66.62	23 26 34	3864.1	22.29	170.85

DIFFERENTIAL CORRECTIONS

TDE	-.6556	TRA	-1.8645	TC3	-.0218	BAU	.0996
RDE	-.1161	RRA	.4182	RC3	-.2634	FAU	.02526
FDE	1.0279	FRA	1.7775	FC3	-.7756	BSP	6977
BDE	.6658	BRA	1.9108	BC3	.2643	FSP	-571

MID-COURSE EXECUTION ACCURACY

SGT	2132.8	SGR	545.5	SG3	204.2		
RRT	-.6986	RRF	.7421	RTF	-.9173		
SGB	2201.5	R23	-.1115	R13	.9214		
SG1	2167.7	SG2	384.0	THA	169.54		

ORBIT DETERMINATION ACCURACY

ST	929.9	SR	184.6	SS	963.5		
CRT	.0404	CRS	.2638	CST	.9740		
LSA	1330.7	MSA	237.3	SSA	16.1		
EL1	930.0	EL2	184.5	ALF	.48		

LAUNCH DATE OCT 3 1965 FLIGHT TIME 120.00 ARRIVAL DATE JAN 31 1966

HELIOCENTRIC CONIC DISTANCE 298.516

RL	149.68	LAL	.00	LOL	9.58	VL	26.184	GAL	5.86	AZL	86.56	HCA	123.87	SMA	122.01	ECC	.24760	INC	3.4350	VI	29.769
RP	107.48	LAP	2.85	LOP	133.49	VP	37.174	GAP	-12.63	AZP	91.92	TAL	161.50	TAP	285.37	RCA	91.80	APO	152.22	V2	35.259
RC	40.875	GL	17.59	GP	-16.19	ZAL	52.11	ZAP	17.44	ETS	65.26	ZAE	153.51	ETE	276.95	ZAC	51.10	ETC	143.46	CLP	-6.58

PLANETOCENTRIC CONIC

C3	26.665	VHL	5.164	DLA	1.83	RAL	316.66	RAD	6568.1	VEL	12.167	PTH	2.18	VHP	8.529	DPA	-36.82	RAP	314.40	ECC	1.4388

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 28 0	2341.17	-22.43	49.66	183.25	107.76	8 7 2	1741.2	-19.79	41.98
90.00	19 53 11	4871.69	19.88	211.27	182.22	69.41	21 14 23	4271.7	16.91	203.86
100.00	8 50 12	2076.05	-23.57	29.76	182.83	108.94	9 24 48	1476.1	-20.77	22.08
100.00	21 13 41	4612.05	21.01	191.71	181.76	68.23	22 30 33	4012.0	17.87	184.32
110.00	10 0 24	1856.33	-26.64	11.80	181.56	112.26	10 31 20	1256.3	-23.38	4.15
110.00	22 19 58	4404.54	24.01	174.55	180.35	64.91	23 33 22	3804.5	20.43	167.24

DIFFERENTIAL CORRECTIONS

TDE	-.6723	TRA	-1.8568	TC3	.0129	BAU	.1062
RDE	-.0676	RRA	.4381	RC3	-.2977	FAU	.02653
FDE	1.1239	FRA	1.8659	FC3	-.8612	BSP	7201
BDE	.6756	BRA	1.9077	BC3	.2980	FSP	-626

MID-COURSE EXECUTION ACCURACY

SGT	2192.1	SGR	580.2	SG3	222.6		
RRT	-.7474	RRF	.7943	RTF	-.9229		
SGB	2267.6	R23	-.1256	R13	.9277		
SG1	2235.9	SG2	377.9	THA	168.48		

ORBIT DETERMINATION ACCURACY

ST	968.9	SR	164.3	SS	1026.9		
CRT	-.2155	CRS	.0112	CST	.9735		
LSA	1402.6	MSA	229.7	SSA	15.8		
EL1	969.6	EL2	160.3	ALF	177.85		

LAUNCH DATE OCT 3 1965 FLIGHT TIME 122.00 ARRIVAL DATE FEB 2 1966

HELIOCENTRIC CONIC DISTANCE 305.305

RL	149.68	LAL	.00	LOL	9.58	VL	26.307	GAL	5.57	AZL	86.30	HCA	127.11	SMA	122.74	ECC	.23905	INC	3.7018	VI	29.769
RP	107.48	LAP	2.95	LOP	136.75	VP	37.260	GAP	-11.87	AZP	92.24	TAL	161.61	TAP	288.72	RCA	93.40	APO	152.08	V2	35.258
RC	41.437	GL	19.60	GP	-17.75	ZAL	52.73	ZAP	19.54	ETS	62.26	ZAE	151.35	ETE	281.88	ZAC	53.20	ETC	143.60	CLP	-8.28

PLANETOCENTRIC CONIC

C3	25.397	VHL	5.040	DLA	3.71	RAL	315.95	RAD	6568.0	VEL	12.115	PTH	2.17	VHP	8.160	DPA	-37.94	RAP	316.71	ECC	1.4180

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 11 9	2387.58	-23.36	52.75	182.30	106.48	7 50 56	1787.6	-20.88	44.95
90.00	20 4 21	4801.17	18.13	206.83	180.29	67.87	21 24 22	4201.2	14.98	199.58
100.00	8 34 14	2119.61	-24.50	32.66	181.91	107.68	9 9 33	1519.6	-21.85	24.86
100.00	21 23 57	4544.37	19.24	187.46	179.81	66.67	22 39 42	3944.4	15.92	180.24
110.00	9 46 27	1893.55	-27.57	14.29	180.71	111.06	10 18 1	1293.5	-24.46	6.51
110.00	22 28 13	4343.20	22.19	170.72	178.33	63.30	23 40 36	3743.2	18.43	163.61

DIFFERENTIAL CORRECTIONS

TDE	-.6931	TRA	-1.8483	TC3	.0498	BAU	.1150
RDE	-.0139	RRA	.4634	RC3	-.3350	FAU	.02784
FDE	1.2337	FRA	1.9589	FC3	-.9492	BSP	7429
BDE	.6932	BRA	1.9056	BC3	.3387	FSP	-686

MID-COURSE EXECUTION ACCURACY

SGT	2249.0	SGR	626.9	SG3	242.3		
RRT	-.7918	RRF	.8414	RTF	-.9281		
SGB	2334.8	R23	-.1403	R13	.9339		
SG1	2304.7	SG2	373.7	THA	167.21		

ORBIT DETERMINATION ACCURACY

ST	1010.0	SR	159.5	SS	1096.1		
CRT	-.5440	CRS	-.3395	CST	.9734		
LSA	1482.2	MSA	222.8	SSA	15.3		
EL1	1013.8	EL2	133.3	ALF	175.00		

LAUNCH DATE OCT 3 1965 FLIGHT TIME 124.00 ARRIVAL DATE FEB 4 1966

HELIOCENTRIC CONIC DISTANCE 312.084

RL	149.68	LAL	.00	LOL	9.58	VL	26.420	GAL	5.30	AZL	86.01	HCA	130.35	SMA	123.42	ECC	.23110	INC	3.9924	VI	29.769
RP	107.49	LAP	3.04	LOP	140.00	VP	37.338	GAP	-11.14	AZP	92.59	TAL	161.75	TAP	292.09	RCA	94.90	APO	151.94	V2	35.256
RC	42.162	GL	21.77	GP	-19.55	ZAL	53.50	ZAP	21.89	ETS	59.94	ZAE	148.91	ETE	285.78	ZAC	55.38	ETC	143.62	CLP	-10.04

PLANETOCENTRIC CONIC

C3	24.385	VHL	4.938	DLA	5.73	RAL	315.13	RAD	6568.0	VEL	12.073	PTH	2.16	VHP	7.818	DPA	-39.27	RAP	319.09	ECC	1.4013

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 52 39	2440.98	-24.34	56.35	181.49	104.93	7 33 20	1841.0	-22.05	48.43
90.00	20 16 22	4727.75	16.19	202.32	178.49	66.45	21 35 10	4127.7	12.87	195.21
100.00	8 16 42	2169.86	-25.50	36.06	181.13	106.16	8 52 52	1569.9	-23.04	28.12
100.00	21 35 0	4474.10	17.29	183.15	177.98	65.23	22 49 34	3874.1	13.80	176.09
110.00	9 31 10	1936.83	-28.59	17.24	180.01	109.58	10 3 26	1336.8	-25.66	9.30
110.00	22 37 2	4279.89	20.20	166.88	176.44	61.82	23 48 22	3679.9	16.28	159.96

DIFFERENTIAL CORRECTIONS

TDE	-.7157	TRA	-1.8363	TC3	.0916	BAU	.1260
RDE	.0464	RRA	.4951	RC3	-.3756	FAU	.02923
FDE	1.3576	FRA	2.0535	FC3	-1.0379	BSP	7721
BDE	.7172	BRA	1.9019	BC3	.3866	FSP	-753

MID-COURSE EXECUTION ACCURACY

SGT	2298.5	SGR	688.3	SG3	263.0		
RRT	-.8309	RRF	.8817	RTF	-.9331		
SGB	2399.4	R23	-.1539	R13	.9400		
SG1	2370.4	SG2	371.4	THA	165.67		

ORBIT DETERMINATION ACCURACY

ST	1049.9	SR	181.7	SS	1169.6		
CRT	-.8176	CRS	-.6659	CST	.9734		
LSA	1567.1	MSA	217.1	SSA	14.6		
EL1	1060.4	EL2	103.6	ALF	171.87		

LAUNCH DATE OCT 3 1965 FLIGHT TIME 126.00 ARRIVAL DATE FEB 6 1966

HELIOCENTRIC CONIC DISTANCE 318.851

RL 149.68 LAL .00 LOL 9.58 VL 26.524 GAL 5.04 AZL 85.69 HCA 133.59 SMA 124.05 ECC .22373 INC 4.3124 V1 29.769
RP 107.49 LAP 3.12 LOP 143.25 VP 37.410 GAP -10.44 AZP 92.98 TAL 161.91 TAP 295.50 RCA 96.30 APO 151.81 V2 35.254
RC 43.042 GL 24.12 GP -21.62 ZAL 54.41 ZAP 24.52 ETS 58.20 ZAE 146.24 ETE 288.76 ZAC 57.65 ETC 143.54 CLP -11.85

PLANETOCENTRIC CONIC

C3 23.636 VHL 4.862 DLA 7.91 RAL 314.22 RAD 6568.0 VEL 12.042 PTH 2.15 VHP 7.504 DPA -40.84 RAP 321.57 ECC 1.3890

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 32 15	2502.45	-25.35	60.57	180.85	103.05	7 13 57	1902.5	-23.30	52.50
90.00	20 29 30	4650.99	14.05	197.70	176.84	65.16	21 47 1	4051.0	10.59	190.74
100.00	7 57 24	2227.79	-26.53	40.05	180.53	104.30	8 34 32	1627.8	-24.31	31.96
100.00	21 47 2	4400.88	15.15	178.77	176.30	63.92	23 0 23	3800.9	11.52	171.86
110.00	9 14 21	1986.98	-29.69	20.74	179.50	107.78	9 47 28	1387.0	-26.97	12.60
110.00	22 46 34	4214.46	18.05	163.03	174.70	60.47	23 56 48	3614.5	13.98	156.27

DIFFERENTIAL CORRECTIONS
TDE -.7469 TRA-1.8268 TC3 .1271 BAU .1380
RDE .1163 RRA .5349 RC3 -.4178 FAU .03048
FDE 1.5009 FRA 2.1516 FC3-1.1164 BSP 7933
BDE .7559 BRA 1.9035 BC3 .4366 FSP -820

MID-COURSE EXECUTION ACCURACY
SGT 2348.3 SGR 767.4 SG3 284.7
RRT -.8625 RRF .9145 RTF -.9375
SGB 2470.5 R23 -.1677 R13 .9459
SG1 2442.1 SG2 373.4 THA 163.87

ORBIT DETERMINATION ACCURACY
ST 1095.5 SR 235.4 SS 1250.4
CRT -.9511 CRS -.8581 CST .9740
LSA 1665.5 MSA 212.1 SSA 13.8
EL1 1118.2 EL2 71.3 ALF 168.40

LAUNCH DATE OCT 3 1965 FLIGHT TIME 128.00 ARRIVAL DATE FEB 8 1966

HELIOCENTRIC CONIC DISTANCE 325.605

RL 149.68 LAL .00 LOL 9.58 VL 26.620 GAL 4.80 AZL 85.33 HCA 136.82 SMA 124.65 ECC .21693 INC 4.6687 V1 29.769
RP 107.50 LAP 3.19 LOP 146.50 VP 37.474 GAP -9.75 AZP 93.41 TAL 162.09 TAP 298.92 RCA 97.61 APO 151.69 V2 35.250
RC 44.068 GL 26.65 GP -24.00 ZAL 55.49 ZAP 27.44 ETS 56.92 ZAE 143.34 ETE 290.91 ZAC 60.04 ETC 143.35 CLP -13.72

PLANETOCENTRIC CONIC

C3 23.166 VHL 4.813 DLA 10.25 RAL 313.20 RAD 6567.9 VEL 12.023 PTH 2.15 VHP 7.223 DPA -42.69 RAP 324.20 ECC 1.3813

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 9 36	2573.37	-26.35	65.52	180.42	100.76	6 52 29	1973.4	-24.60	57.29
90.00	20 44 2	4570.28	11.69	192.95	175.39	64.03	22 0 12	3970.3	8.10	186.10
100.00	7 36 1	2294.63	-27.57	44.75	180.14	102.04	8 14 16	1694.6	-25.63	36.48
100.00	22 0 18	4324.24	12.80	174.29	174.82	62.76	23 12 22	3724.2	9.05	167.51
110.00	8 55 48	2044.97	-30.82	24.87	179.23	105.57	9 29 53	1445.0	-28.38	16.53
110.00	22 57 0	4146.67	15.73	159.14	173.15	59.25	24 6 7	3546.7	11.54	152.54

DIFFERENTIAL CORRECTIONS
TDE -.7838 TRA-1.8159 TC3 .1608 BAU .1513
RDE .1988 RRA .5840 RC3 -.4613 FAU .03161
FDE 1.6622 FRA 2.2467 FC3-1.1814 BSP 8179
BDE .8086 BRA 1.9075 BC3 .4685 FSP -889

MID-COURSE EXECUTION ACCURACY
SGT 2391.6 SGR 867.3 SG3 306.6
RRT -.8877 RRF .9399 RTF -.9416
SGB 2544.0 R23 -.1788 R13 .9517
SG1 2515.5 SG2 379.7 THA 161.72

ORBIT DETERMINATION ACCURACY
ST 1142.3 SR 317.9 SS 1335.7
CRT -.9926 CRS -.9426 CST .9749
LSA 1773.8 MSA 208.5 SSA 12.8
EL1 1185.1 EL2 37.1 ALF 164.54

LAUNCH DATE OCT 3 1965 FLIGHT TIME 130.00 ARRIVAL DATE FEB 10 1966

HELIOCENTRIC CONIC DISTANCE 332.343

RL 149.68 LAL .00 LOL 9.58 VL 26.707 GAL 4.58 AZL 84.93 HCA 140.06 SMA 125.19 ECC .21067 INC 5.0706 V1 29.769
RP 107.51 LAP 3.25 LOP 149.75 VP 37.533 GAP -9.09 AZP 93.89 TAL 162.30 TAP 302.36 RCA 98.82 APO 151.57 V2 35.247
RC 45.230 GL 29.38 GP -26.75 ZAL 56.73 ZAP 30.69 ETS 56.01 ZAE 140.22 ETE 292.35 ZAC 62.59 ETC 143.07 CLP -15.65

PLANETOCENTRIC CONIC

C3 23.005 VHL 4.796 DLA 12.75 RAL 312.08 RAD 6567.9 VEL 12.016 PTH 2.14 VHP 6.981 DPA -44.88 RAP 327.04 ECC 1.3786

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 44 12	2655.55	-27.26	71.36	180.24	97.97	6 28 27	2055.5	-25.88	62.97
90.00	21 0 25	4484.69	9.09	188.00	174.20	63.07	22 15 10	3884.7	5.41	181.26
100.00	7 12 8	2371.97	-28.54	50.29	180.02	99.28	7 51 40	1772.0	-26.97	41.84
100.00	22 15 10	4243.50	10.24	169.66	173.59	61.76	23 25 54	3643.5	6.39	162.99
110.00	8 35 13	2111.98	-31.94	29.77	179.25	102.87	9 10 25	1512.0	-29.84	21.19
110.00	23 8 34	4076.25	13.24	155.20	171.82	58.19	24 16 31	3476.3	8.94	148.74

DIFFERENTIAL CORRECTIONS
TDE -.8295 TRA-1.8055 TC3 .1881 BAU .1655
RDE .2985 RRA .6442 RC3 -.5040 FAU .03246
FDE 1.8432 FRA 2.3351 FC3-1.2215 BSP 8414
BDE .8816 BRA 1.9170 BC3 .5380 FSP -955

MID-COURSE EXECUTION ACCURACY
SGT 2430.0 SGR 991.7 SG3 327.9
RRT -.9069 RRF .9588 RTF -.9454
SGB 2624.6 R23 -.1862 R13 .9576
SG1 2595.3 SG2 391.2 THA 159.19

ORBIT DETERMINATION ACCURACY
ST 1192.5 SR 428.3 SS 1425.6
CRT -.9996 CRS -.9769 CST .9762
LSA 1896.1 MSA 206.1 SSA 11.8
EL1 1267.0 EL2 11.9 ALF 160.25

LAUNCH DATE OCT 3 1965 FLIGHT TIME 132.00 ARRIVAL DATE FEB 12 1966

HELIOCENTRIC CONIC DISTANCE 339.063

RL 149.68 LAL .00 LOL 9.58 VL 26.787 GAL 4.38 AZL 84.47 HCA 143.29 SMA 125.70 ECC .20493 INC 5.5306 V1 29.769
RP 107.53 LAP 3.30 LOP 153.00 VP 37.585 GAP -8.44 AZP 94.44 TAL 162.52 TAP 305.81 RCA 99.94 APO 151.46 V2 35.242
RC 46.516 GL 32.30 GP -29.92 ZAL 58.16 ZAP 34.31 ETS 55.41 ZAE 136.84 ETE 293.20 ZAC 65.32 ETC 142.72 CLP -17.63

PLANETOCENTRIC CONIC

C3 23.201 VHL 4.817 DLA 15.44 RAL 310.82 RAD 6567.9 VEL 12.024 PTH 2.15 VHP 6.787 DPA -47.43 RAP 330.20 ECC 1.3818

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 15 19	2751.62	-27.98	78.30	180.33	94.57	6 1 10	2151.6	-27.05	69.76
90.00	21 19 19	4392.76	6.22	182.77	173.33	62.32	22 32 32	3792.8	2.47	176.11
100.00	6 45 7	2462.02	-29.36	56.86	180.19	95.91	7 26 9	1862.0	-28.23	48.23
100.00	22 32 12	4157.59	7.44	164.82	172.66	60.96	23 41 30	3557.6	3.51	158.24
110.00	8 12 11	2189.59	-32.97	35.59	179.61	99.57	8 48 40	1589.6	-31.30	26.77
110.00	23 21 38	4002.78	10.57	151.18	170.77	57.30	24 28 20	3402.8	6.19	144.84

DIFFERENTIAL CORRECTIONS
TDE -.8827 TRA-1.7929 TC3 .2117 BAU .1811
RDE .4210 RRA .7168 RC3 -.5441 FAU .03296
FDE 2.0391 FRA 2.4060 FC3-1.2299 BSP 8734
BDE .9779 BRA 1.9308 BC3 .5839 FSP -1021

MID-COURSE EXECUTION ACCURACY
SGT 2457.4 SGR 1143.7 SG3 346.7
RRT -.9214 RRF .9723 RTF -.9489
SGB 2710.5 R23 -.1879 R13 .9636
SG1 2679.7 SG2 407.5 THA 156.20

ORBIT DETERMINATION ACCURACY
ST 1242.1 SR 567.0 SS 1515.3
CRT -.9968 CRS -.9908 CST .9776
LSA 2029.4 MSA 205.0 SSA 10.6
EL1 1364.8 EL2 41.1 ALF 155.51

LAUNCH DATE OCT 3 1965 FLIGHT TIME 134.00 ARRIVAL DATE FEB 14 1966

HELIOCENTRIC CONIC DISTANCE 345,764

RL	149.68	LAL	.00	LOL	9.58	VL	26.860	GAL	4.19	AZL	83.93	HCA	146.52	SMA	126.17	ECC	.19967	INC	6.0657	V1	29.769
RP	107.55	LAP	3.34	LOP	156.25	VP	37.632	GAP	-7.82	AZP	95.07	TAL	162.74	TAP	309.26	RCA	100.97	APO	151.36	V2	35.236
RC	47.916	GL	35.44	GP	-33.58	ZAL	59.77	ZAP	38.32	ETS	55.04	ZAE	133.14	ETE	293.55	ZAC	68.28	ETC	142.32	CLP	-19.66

PLANETOCENTRIC CONIC

C3	23.835	VHL	4.882	DLA	18.38	RAL	309.44	RAD	6568.0	VEL	12.050	PTH	2.15	VHP	6,651	DPA	-50.38	RAP	333.84	ECC	1.3923

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 41 43	2865.65	-28.31	86.62	180.71	90.41	5 29 29	2265.6	-27.96	77.97
90.00	21 41 51	4291.90	3.00	177.11	172.89	61.83	22 53 23	3691.9	-.79	170.48
100.00	6 14 0	2568.07	-29.84	64.70	180.68	91.81	6 56 48	1968.1	-29.27	55.94
100.00	22 52 16	4064.71	4.34	159.67	172.15	60.40	24 0 0	3464.7	.37	153.14
110.00	7 46 6	2279.89	-33.78	42.51	180.38	95.55	8 24 6	1679.9	-32.65	33.46
110.00	23 36 39	3925.65	7.71	147.05	170.07	56.59	24 42 4	3325.6	3.26	140.78

DIFFERENTIAL CORRECTIONS								MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TDE	-.9506	TRA	-1.7841	TC3	.2204	BAU	.1965	SGT	2480.8	SGR	1327.1	SG3	361.5	ST	1297.0	SR	738.4	SS	1604.2
RDE	.5753	RRA	.8046	RC3	-.5760	FAU	.03271	RRT	-.9317	RRF	.9815	RTF	-.9520	CRT	-.9927	CRS	-.9964	CST	.9794
FDE	2.2485	FRA	2.4537	FC3	-1.1882	BSP	9021	SGB	2813.5	R23	-.1840	R13	.9696	LSA	2181.5	MSA	204.7	SSA	9.3
BDE	1.1111	BRA	1.9571	BC3	.6167	FSP	-1070	SG1	2780.4	SG2	430.0	THA	152.80	ELI	1490.5	EL2	77.3	ALF	150.44

LAUNCH DATE OCT 3 1965 FLIGHT TIME 136.00 ARRIVAL DATE FEB 16 1966

HELIOCENTRIC CONIC DISTANCE 352.444

RL	149.68	LAL	.00	LOL	9.58	VL	26.926	GAL	4.01	AZL	83.30	HCA	149.75	SMA	126.59	ECC	.19489	INC	6.7005	V1	29.769
RP	107.56	LAP	3.37	LOP	159.50	VP	37.674	GAP	-7.21	AZP	95.79	TAL	162.97	TAP	312.72	RCA	101.92	APO	151.27	V2	35.230
RC	49.420	GL	38.78	GP	-37.78	ZAL	61.57	ZAP	42.75	ETS	54.84	ZAE	129.08	ETE	293.53	ZAC	71.53	ETC	141.93	CLP	-21.71

PLANETOCENTRIC CONIC

C3	25.036	VHL	5.004	DLA	21.34	RAL	307.90	RAD	6568.0	VEL	12.100	PTH	2.17	VHP	6,591	DPA	-53.75	RAP	338.23	ECC	1.4120

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 1 11	3004.97	-27.96	96.79	181.30	85.33	4 51 15	2405.0	-28.31	88.14
90.00	22 10 7	4176.73	-.71	170.68	173.06	61.69	23 19 43	3576.7	-4.49	164.04
100.00	5 37 7	2695.58	-29.74	74.17	181.44	86.83	6 22 3	2095.6	-29.86	65.37
100.00	23 16 51	3961.35	.85	153.99	172.20	60.12	24 22 52	3361.3	-3.14	147.46
110.00	7 16 5	2385.96	-34.18	50.77	181.55	90.69	7 55 51	1786.0	-33.70	41.56
110.00	23 54 22	3843.74	4.61	142.72	169.85	56.09	24 58 26	3243.7	.13	136.51

DIFFERENTIAL CORRECTIONS								MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TDE	-1.0345	TRA	-1.7780	TC3	.2179	BAU	.2121	SGT	2495.8	SGR	1543.8	SG3	369.4	ST	1354.0	SR	945.7	SS	1684.4
RDE	.7721	RRA	.9084	RC3	-.5949	FAU	.03158	RRT	-.9391	RRF	.9878	RTF	-.9549	CRT	-.9896	CRS	-.9987	CST	.9813
FDE	2.4583	FRA	2.4619	FC3	-1.0921	BSP	9361	SGB	2934.7	R23	-.1737	R13	.9756	LSA	2350.0	MSA	205.2	SSA	8.1
BDE	1.2909	BRA	1.9966	BC3	.6336	FSP	-1100	SG1	2898.9	SG2	456.8	THA	148.99	ELI	1647.8	EL2	111.6	ALF	145.16

LAUNCH DATE OCT 3 1965 FLIGHT TIME 138.00 ARRIVAL DATE FEB 18 1966

HELIOCENTRIC CONIC DISTANCE 359,100

RL	149.68	LAL	.00	LOL	9.58	VL	26.986	GAL	3.86	AZL	82.53	HCA	152.97	SMA	126.98	ECC	.19056	INC	7.4706	V1	29.769
RP	107.58	LAP	3.39	LOP	162.75	VP	37.710	GAP	-6.62	AZP	96.66	TAL	163.19	TAP	316.16	RCA	102.79	APO	151.18	V2	35.224
RC	51.018	GL	42.33	GP	-42.56	ZAL	63.59	ZAP	47.60	ETS	54.75	ZAE	124.57	ETE	293.27	ZAC	75.10	ETC	141.64	CLP	-23.73

PLANETOCENTRIC CONIC

C3	27.021	VHL	5.198	DLA	24.56	RAL	306.18	RAD	6568.1	VEL	12.182	PTH	2.19	VHP	6,632	DPA	-57.49	RAP	343.77	ECC	1.4447

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	3 8 20	3186.65	-26.27	109.81	181.82	79.02	4 1 27	2586.7	-27.52	101.36
90.00	22 49 13	4032.79	-5.33	162.63	174.21	62.15	23 56 25	3432.8	-9.02	155.89
100.00	4 51 2	2855.51	-28.56	85.90	182.28	80.77	5 38 38	2255.5	-29.54	77.23
100.00	23 49 11	3839.17	-3.29	147.28	173.09	60.27	24 53 10	3239.2	-7.23	140.70
110.00	6 40 38	2512.63	-33.84	60.64	183.06	84.86	7 22 31	1912.6	-34.18	51.41
110.00	0 20 1	3754.81	1.22	138.07	170.27	55.84	1 22 36	3154.8	-3.27	131.87

DIFFERENTIAL CORRECTIONS								MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TDE	-1.1388	TRA	-1.7748	TC3	.2051	BAU	.2272	SGT	2499.4	SGR	1792.5	SG3	367.0	ST	1411.4	SR	1191.3	SS	1747.1
RDE	1.0261	RRA	1.0280	RC3	-.5945	FAU	.02934	RRT	-.9443	RRF	.9918	RTF	-.9576	CRT	-.9879	CRS	-.9996	CST	.9833
FDE	2.6493	FRA	2.4136	FC3	-.9402	BSP	9810	SGB	3075.8	R23	-.1574	R13	.9813	LSA	2534.0	MSA	206.1	SSA	6.8
BDE	1.5329	BRA	2.0510	BC3	.6289	FSP	-1105	SG1	3037.2	SG2	485.2	THA	144.86	ELI	1841.4	EL2	141.9	ALF	139.89

LAUNCH DATE OCT 3 1965 FLIGHT TIME 140.00 ARRIVAL DATE FEB 20 1966

HELIOCENTRIC CONIC DISTANCE 365,731

RL	149.68	LAL	.00	LOL	9.58	VL	27.039	GAL	3.71	AZL	81.57	HCA	156.18	SMA	127.34	ECC	.18666	INC	8.4311	V1	29.769
RP	107.61	LAP	3.39	LOP	165.99	VP	37.742	GAP	-6.05	AZP	97.72	TAL	163.41	TAP	319.59	RCA	103.57	APO	151.11	V2	35.216
RC	52.701	GL	46.08	GP	-47.96	ZAL	65.82	ZAP	52.86	ETS	54.77	ZAE	119.56	ETE	292.95	ZAC	79.04	ETC	141.58	CLP	-25.63

PLANETOCENTRIC CONIC

C3	30.161	VHL	5.492	DLA	27.93	RAL	304.23	RAD	6568.2	VEL	12.310	PTH	2.22	VHP	6.811	DPA	-61.47	RAP	351.19	ECC	1.4964

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	1 33 58	3504.00	-20.40	131.16	180.85	69.93	2 32 22	2904.0	-22.95	123.42
90.00	0 12 0	3770.35	-13.37	147.54	177.79	64.80	1 14 50	3170.4	-16.65	140.40
100.00	3 45 1	3081.53	-25.06	101.76	182.54	73.15	4 36 22	2481.5	-27.13	93.57
100.00	0 43 38	3668.05	-8.99	137.77	175.52	61.37	1 44 46	3068.1	-12.74	130.99
110.00	5 56 52	2668.86	-32.25	72.54	184.64	77.99	6 41 21	2068.9	-33.56	63.55
110.00	0 48 16	3653.49	-2.65	132.79	171.64	55.91	1 49 9	3053.5	-7.11	126.54

DIFFERENTIAL CORRECTIONS								MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TDE	-1.2764	TRA	-1.7820	TC3	.1786	BAU	.2391	SGT	2498.0	SGR	2068.9	SG3	351.5	ST	1473.7	SR	1476.0	SS	1784.2
RDE	1.3584	RRA	1.1630	RC3	-.5655	FAU	.02569	RRT	-.9479	RRF	.9943	RTF	-.9603	CRT	-.9872	CRS	-.9999	CST	.9854
FDE	2.7994	FRA	2.2983	FC3	-.7373	BSP	10336	SGB	3243.5	R23	-.1364	R13	.9865	LSA	2737.0	MSA	206.9	SSA	5.7
BDE	1.8640	BRA	2.1280	BC3	.5930	FSP	-1071	SG1	3202.5	SG2	513.9	THA	140.65	ELI	2079.1	EL2	166.7	ALF	134.96

LAUNCH DATE OCT 3 1965 FLIGHT TIME 142.00 ARRIVAL DATE FEB 22 1966

HELIOCENTRIC CONIC DISTANCE 372.332

RL 149.68 LAL .00 LOL 9.58 VL 27.088 GAL 3.59 AZL 80.33 HCA 159.39 SMA 127.66 ECC .18317 INC 9.6706 V1 29.769
RP 107.63 LAP 3.39 LOP 169.24 VP 37.769 GAP -5.49 AZP 99.06 TAL 163.60 TAP 322.99 RCA 104.28 APO 151.04 V2 35.208
RC 54.462 GL 50.01 GP -53.94 ZAL 68.28 ZAP 58.44 ETS 54.97 ZAE 114.03 ETE 292.83 ZAC 83.38 ETC 142.00 CLP -27.22

PLANETOCENTRIC CONIC

C3 35.137 VHL 5.928 DLA 31.42 RAL 302.01 RAD 6568.4 VEL 12.510 PTH 2.27 VHP 7.189 DPA -65.38 RAP 1.64 ECC 1.5783

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
75.79	22 48 11	4035.14	-17.68	169.24	180.57	63.60	23 55 26	3435.1	-21.08	161.98
104.21	2 36 6	3316.12	-17.66	116.08	180.56	63.59	3 31 22	2716.1	-21.07	108.83
75.79	22 48 11	4035.14	-17.68	169.24	180.57	63.60	23 55 26	3435.1	-21.08	161.98
104.21	2 36 6	3316.12	-17.66	116.08	180.56	63.59	3 31 22	2716.1	-21.07	108.83
110.00	4 57 8	2877.76	-28.29	87.50	185.51	69.97	5 45 6	2277.8	-30.76	79.17
110.00	1 30 15	3521.50	-7.65	125.84	174.67	56.58	2 28 57	2921.5	-11.99	119.44

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE-1.4637 TRA-1.8051 TC3 .1460 BAU .2462 SGT 2492.3 SGR 2356.4 SG3 320.7 ST 1542.0 SR 1790.5 SS 1782.7
RDE 1.7945 RRA 1.3060 RC3 -.5034 FAU .02078 RRT -.9504 RRF .9958 RTF -.9633 CRT -.9874 CRS-1.0000 CST .9877
FDE 2.8754 FRA 2.1048 FC3 -.5120 BSP 11050 SGB 3429.9 R23 -.1122 R13 .9909 LSA 2952.7 MSA 207.6 SSA 4.6
BDE 2.3157 BRA 2.2280 BC3 .5242 FSP -1001 SG1 3387.2 SG2 539.5 THA 136.69 EL1 2355.7 EL2 185.3 ALF 130.68

LAUNCH DATE OCT 3 1965 FLIGHT TIME 144.00 ARRIVAL DATE FEB 24 1966

HELIOCENTRIC CONIC DISTANCE 378.896

RL 149.68 LAL .00 LOL 9.58 VL 27.131 GAL 3.48 AZL 78.66 HCA 162.58 SMA 127.95 ECC .18007 INC11.3418 V1 29.769
RP 107.66 LAP 3.38 LOP 172.48 VP 37.792 GAP -4.96 AZP 100.83 TAL 163.78 TAP 326.36 RCA 104.91 APO 150.99 V2 35.200
RC 56.291 GL 54.04 GP -60.46 ZAL 70.97 ZAP 64.20 ETS 55.67 ZAE 107.94 ETE 293.44 ZAC 88.16 ETC 143.41 CLP -28.04

PLANETOCENTRIC CONIC

C3 43.290 VHL 6.579 DLA 34.93 RAL 299.42 RAD 6568.6 VEL 12.832 PTH 2.34 VHP 7.867 DPA -68.56 RAP 16.61 ECC 1.7124

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
68.63	21 52 17	4228.57	-17.69	184.14	182.27	59.37	23 2 46	3628.6	-21.62	177.16
111.37	3 11 23	3228.07	-17.67	109.31	182.27	59.36	4 5 11	2628.1	-21.61	102.33
68.63	21 52 17	4228.57	-17.69	184.14	182.27	59.37	23 2 46	3628.6	-21.62	177.16
111.37	3 11 23	3228.07	-17.67	109.31	182.27	59.36	4 5 11	2628.1	-21.61	102.33
68.63	21 52 17	4228.57	-17.69	184.14	182.27	59.37	23 2 46	3628.6	-21.62	177.16
111.37	3 11 23	3228.07	-17.67	109.31	182.27	59.36	4 5 11	2628.1	-21.61	102.33

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE-1.7358 TRA-1.8503 TC3 .1219 BAU .2475 SGT 2484.6 SGR 2616.8 SG3 274.4 ST 1622.5 SR 2108.0 SS 1730.8
RDE 2.3630 RRA 1.4346 RC3 -.4098 FAU .01521 RRT -.9524 RRF .9963 RTF -.9673 CRT -.9883 CRS -.9999 CST .9901
FDE 2.8463 FRA 1.8306 FC3 -.3042 BSP 12381 SGB 3608.5 R23 -.0857 R13 .9945 LSA 3166.9 MSA 207.2 SSA 3.6
BDE 2.9320 BRA 2.3413 BC3 .4276 FSP -916 SG1 3565.3 SG2 556.1 THA 133.44 EL1 2652.8 EL2 197.0 ALF 127.50

LAUNCH DATE OCT 3 1965 FLIGHT TIME 146.00 ARRIVAL DATE FEB 26 1966

HELIOCENTRIC CONIC DISTANCE 385.422

RL 149.68 LAL .00 LOL 9.58 VL 27.169 GAL 3.39 AZL 76.27 HCA 165.75 SMA 128.20 ECC .17737 INC13.7312 V1 29.769
RP 107.69 LAP 3.35 LOP 175.72 VP 37.811 GAP -4.44 AZP 103.32 TAL 163.90 TAP 329.65 RCA 105.46 APO 150.94 V2 35.191
RC 58.184 GL 58.05 GP -67.37 ZAL 73.89 ZAP 69.94 ETS 58.08 ZAE 101.29 ETE 296.07 ZAC 93.42 ETC 147.14 CLP -26.94

PLANETOCENTRIC CONIC

C3 57.568 VHL 7.587 DLA 38.32 RAL 296.38 RAD 6569.0 VEL 13.376 PTH 2.44 VHP 9.030 DPA -69.96 RAP 36.57 ECC 1.9474

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
63.03	21 10 16	4388.01	-16.47	196.17	184.43	54.90	22 23 24	3788.0	-20.95	189.59
116.97	3 29 10	3210.60	-16.46	107.08	184.42	54.89	4 22 40	2610.6	-20.93	100.50
63.03	21 10 16	4388.01	-16.47	196.17	184.43	54.90	22 23 24	3788.0	-20.95	189.59
116.97	3 29 10	3210.60	-16.46	107.08	184.42	54.89	4 22 40	2610.6	-20.93	100.50
63.03	21 10 16	4388.01	-16.47	196.17	184.43	54.90	22 23 24	3788.0	-20.95	189.59
116.97	3 29 10	3210.60	-16.46	107.08	184.42	54.89	4 22 40	2610.6	-20.93	100.50

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE-2.3310 TRA-2.0697 TC3 .0299 BAU .1921 SGT 2658.7 SGR 2835.9 SG3 223.7 ST 1858.9 SR 2418.2 SS 1673.5
RDE 3.1461 RRA 1.5607 RC3 -.2478 FAU .00629 RRT -.9538 RRF .9951 RTF -.9748 CRT -.9902 CRS -.9997 CST .9935
FDE 2.7762 FRA 1.5717 FC3 -.0946 BSP 11808 SGB 3887.3 R23 -.0570 R13 .9972 LSA 3472.7 MSA 209.5 SSA 2.8
BDE 3.9156 BRA 2.5922 BC3 .2496 FSP -688 SG1 3842.4 SG2 589.6 THA 133.06 EL1 3043.2 EL2 206.0 ALF 127.48

LAUNCH DATE OCT 3 1965 FLIGHT TIME 148.00 ARRIVAL DATE FEB 28 1966

HELIOCENTRIC CONIC DISTANCE 391.880

RL 149.68 LAL .00 LOL 9.58 VL 27.203 GAL 3.33 AZL 72.56 HCA 168.88 SMA 128.43 ECC .17505 INC17.4408 V1 29.769
RP 107.72 LAP 3.31 LOP 178.96 VP 37.826 GAP -3.95 AZP 107.13 TAL 163.97 TAP 332.85 RCA 105.95 APO 150.91 V2 35.181
RC 60.133 GL 61.71 GP -74.44 ZAL 77.02 ZAP 75.41 ETS 67.04 ZAE 93.98 ETE 305.63 ZAC 99.35 ETC 158.18 CLP -20.14

PLANETOCENTRIC CONIC

C3 85.435 VHL 9.243 DLA 41.23 RAL 292.76 RAD 6569.7 VEL 14.380 PTH 2.61 VHP 11.056 DPA -68.42 RAP 58.13 ECC 2.4061

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
58.68	20 35 40	4538.10	-13.58	206.56	186.77	50.69	21 51 18	3938.1	-18.56	200.45
121.32	3 34 48	3246.74	-13.56	107.85	186.76	50.68	4 28 55	2646.7	-18.54	101.75
58.68	20 35 40	4538.10	-13.58	206.56	186.77	50.69	21 51 18	3938.1	-18.56	200.45
121.32	3 34 48	3246.74	-13.56	107.85	186.76	50.68	4 28 55	2646.7	-18.54	101.75
58.68	20 35 40	4538.10	-13.58	206.56	186.77	50.69	21 51 18	3938.1	-18.56	200.45
121.32	3 34 48	3246.74	-13.56	107.85	186.76	50.68	4 28 55	2646.7	-18.54	101.75

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE-3.7531 TRA-2.5343 TC3 -.0257 BAU .1127 SGT 3127.0 SGR 2631.7 SG3 167.0 ST 2409.4 SR 2389.9 SS 1575.3
RDE 3.8158 RRA 1.3834 RC3 -.0953 FAU-.00139 RRT -.9571 RRF .9885 RTF -.9883 CRT -.9929 CRS -.9988 CST .9976
FDE 2.6109 FRA 1.2814 FC3 .0141 BSP 12485 SGB 4087.0 R23 -.0266 R13 .9988 LSA 3735.9 MSA 203.2 SSA 2.2
BDE 5.3522 BRA 2.8873 BC3 .0987 FSP -525 SG1 4044.3 SG2 589.6 THA 140.13 EL1 3387.6 EL2 202.7 ALF 135.23

LAUNCH DATE OCT 3 1965 FLIGHT TIME 150.00 ARRIVAL DATE MAR 2 1966

HELIOCENTRIC CONIC DISTANCE 398.223

RL 149.68 LAL .00 LOL 9.58 VL 27.232 GAL 3.29 AZL 66.05 HCA 171.93 SMA 128.63 ECC .17315 INC23.9529 V1 29.769
RP 107.75 LAP 3.27 LOP 182.20 VP 37.838 GAP -3.50 AZP 113.74 TAL 163.93 TAP 335.87 RCA 106.36 APO 150.90 V2 35.171
RC 62.133 GL 64.21 GP -80.24 ZAL 80.32 ZAP 80.34 ETS 110.03 ZAE 85.54 ETE 349.48 ZAC 106.54 ETC 204.07 CLP 8.18

PLANETOCENTRIC CONIC

C3 150.275 VHL 12.259 DLA 42.83 RAL 288.48 RAD 6570.6 VEL 16.480 PTH 2.87 VHP 14.861 DPA -63.30 RAP 75.86 ECC 3.4731

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
56.42	20 9 5	4679.17	-8.83	214.72	188.86	47.92	21 27 4	4079.2	-14.13	209.02
123.58	3 27 19	3335.54	-8.81	111.44	188.84	47.92	4 22 54	2735.5	-14.11	105.74
56.42	20 9 5	4679.17	-8.83	214.72	188.86	47.92	21 27 4	4079.2	-14.13	209.02
123.58	3 27 19	3335.54	-8.81	111.44	188.84	47.92	4 22 54	2735.5	-14.11	105.74
56.42	20 9 5	4679.17	-8.83	214.72	188.86	47.92	21 27 4	4079.2	-14.13	209.02
123.58	3 27 19	3335.54	-8.81	111.44	188.84	47.92	4 22 54	2735.5	-14.11	105.74

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE-7.6520 TRA-3.2276 TC3 -.1199 BAU .2585 SGT 4136.2 SGR 952.7 SG3 117.3 ST 3629.3 SR 658.8 SS 1519.7
RDE-1.3334 RRA-1.1164 RC3 -.0467 FAU-.01017 RRT .9455 RRF -.9489 RTF -.9994 CRT .9874 CRS .9878 CST 1.0000
FDE 2.4944 FRA 1.0680 FC3 .0586 BSP 13038 SGB 4244.5 R23 .0036 R13 -.9994 LSA 3988.1 MSA 102.8 SSA 1.7
BDE 7.7673 BRA 3.4152 BC3 .1287 FSP -376 SG1 4233.7 SG2 303.0 THA 12.35 EL1 3687.2 EL2 102.7 ALF 10.17

LAUNCH DATE OCT 3 1965 FLIGHT TIME 152.00 ARRIVAL DATE MAR 4 1966

HELIOCENTRIC CONIC DISTANCE 404.288

RL 149.68 LAL .00 LOL 9.58 VL 27.258 GAL 3.31 AZL 52.20 HCA 174.76 SMA 128.80 ECC .17182 INC37.7982 V1 29.769
RP 107.78 LAP 3.21 LOP 185.44 VP 37.846 GAP -3.12 AZP 127.68 TAL 163.65 TAP 338.41 RCA 106.67 APO 150.93 V2 35.160
RC 64.180 GL 62.94 GP -76.73 ZAL 83.64 ZAP 84.41 ETS 170.28 ZAE 74.22 ETE 50.23 ZAC 117.01 ETC 268.33 CLP 64.91

PLANETOCENTRIC CONIC

C3 350.727 VHL 18.728 DLA 40.64 RAL 283.92 RAD 6571.9 VEL 21.726 PTH 3.22 VHP 23.136 DPA -53.25 RAP 87.96 ECC 6.7721

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
59.54	20 4 13	4763.59	-3.13	217.02	190.29	49.46	21 23 36	4163.6	-8.30	211.30
120.46	2 55 48	3493.25	-3.11	120.12	190.28	49.46	3 54 1	2893.2	-8.28	114.40
59.54	20 4 13	4763.59	-3.13	217.02	190.29	49.46	21 23 36	4163.6	-8.30	211.30
120.46	2 55 48	3493.25	-3.11	120.12	190.28	49.46	3 54 1	2893.2	-8.28	114.40
59.54	20 4 13	4763.59	-3.13	217.02	190.29	49.46	21 23 36	4163.6	-8.30	211.30
120.46	2 55 48	3493.25	-3.11	120.12	190.28	49.46	3 54 1	2893.2	-8.28	114.40

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE-4.9587 TRA -.6710 TC3 -.1096 BAU 1.1875 SGT 1594.8 SGR 3981.1 SG3 82.7 ST 1519.3 SR 3462.2 SS 1661.2
RD-11.1690 RRA-4.6017 RC3 -.2283 FAU-.02586 RRT .9508 RRF -.9992 RTF -.9567 CRT .9942 CRS 1.0000 CST .9948
FDE 2.6834 FRA 1.0644 FC3 .0638 BSP 13050 SGB 4288.7 R23 -.0203 R13 -.9993 LSA 4126.9 MSA 151.1 SSA 1.9
BDE12.2202 BRA 4.6503 BC3 .2733 FSP -264 SG1 4263.8 SG2 461.1 THA 68.89 EL1 3777.9 EL2 150.1 ALF 66.39

LAUNCH DATE OCT 3 1965 FLIGHT TIME 154.00 ARRIVAL DATE MAR 6 1966

HELIOCENTRIC CONIC DISTANCE 409.343

RL 149.68 LAL .00 LOL 9.58 VL 27.279 GAL 3.53 AZL 16.17 HCA 176.73 SMA 128.95 ECC .17185 INC73.8239 V1 29.769
RP 107.81 LAP 3.14 LOP 188.67 VP 37.851 GAP -3.00 AZP 163.81 TAL 162.53 TAP 339.26 RCA 106.79 APO 151.11 V2 35.149
RC 66.268 GL 49.56 GP -56.47 ZAL 86.37 ZAP 87.11 ETS 181.34 ZAE 54.34 ETE 57.65 ZAC 137.32 ETC 287.18 CLP 84.76

PLANETOCENTRIC CONIC

C31180.658 VHL 34.361 DLA 26.69 RAL 280.96 RAD 6573.1 VEL 36.082 PTH 3.53 VHP 43.252 DPA -32.05 RAP 95.44 ECC20.4306

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	0 44 18	3936.48	-8.36	157.17	196.22	62.85	1 49 54	3336.5	-11.94	150.32
90.00	21 52 6	4487.41	9.18	188.16	187.32	63.09	23 6 54	3887.4	5.50	181.41
100.00	2 37 14	3572.42	-12.06	132.33	198.16	62.44	3 36 46	2972.4	-15.65	125.38
100.00	22 41 52	4326.70	12.88	174.43	185.40	62.79	23 53 58	3726.7	9.13	167.64
110.00	4 38 18	3193.60	-19.30	107.58	202.18	61.22	5 31 31	2593.6	-22.98	100.39
110.00	22 57 17	4278.29	20.15	166.79	181.42	61.79	24 8 35	3678.3	16.22	159.87

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE-6.2904 TRA .4966 TC3 -.1061 BAU 4.5630 SGT 1280.8 SGR 3614.5 SG3 67.1 ST 1049.5 SR 2783.3 SS 2198.9
RD-16.4841 RRA-7.7538 RC3 -.2689 FAU-.08102 RRT .8849 RRF -.9998 RTF -.8822 CRT .9833 CRS 1.0000 CST .9824
FDE 3.4822 FRA 1.6883 FC3 .0594 BSP 11073 SGB 3834.7 R23 -.0534 R13 -.9984 LSA 3694.5 MSA 185.5 SSA 1.6
BDE17.6435 BRA 7.7697 BC3 .2891 FSP -203 SG1 3792.3 SG2 568.7 THA 72.18 EL1 2969.2 EL2 179.1 ALF 69.58

LAUNCH DATE OCT 3 1965 FLIGHT TIME 156.00 ARRIVAL DATE MAR 8 1966

HELIOCENTRIC CONIC DISTANCE 420.297

RL 149.68 LAL .00 LOL 9.58 VL 27.297 GAL 2.68 AZL 142.92 HCA 183.84 SMA 129.07 ECC .16619 INC52.9143 V1 29.769
RP 107.85 LAP 3.06 LOP 191.90 VP 37.854 GAP -1.40 AZP 37.15 TAL 166.32 TAP 350.16 RCA 107.62 APO 150.52 V2 35.138
RC 68.394 GL -58.29 GP 66.90 ZAL 86.02 ZAP 88.06 ETS 193.02 ZAE 76.99 ETE 307.06 ZAC 98.43 ETC 87.19 CLP 85.05

PLANETOCENTRIC CONIC

C3 653.813 VHL 25.570 DLA -78.60 RAL 321.76 RAD 6572.6 VEL 27.841 PTH 3.41 VHP 33.416 DPA 88.64 RAP 284.50 ECC11.7601

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
12.97	8 26 46	2434.42	1.15	82.82	231.52	168.60	9 7 20	1834.4	8.99	81.64
167.03	19 35 7	640.54	1.16	282.78	231.54	168.60	19 45 48	40.5	9.00	281.60
12.97	8 26 46	2434.42	1.15	82.82	231.52	168.60	9 7 20	1834.4	8.99	81.64
167.03	19 35 7	640.54	1.16	282.78	231.54	168.60	19 45 48	40.5	9.00	281.60
12.97	8 26 46	2434.42	1.15	82.82	231.52	168.60	9 7 20	1834.4	8.99	81.64
167.03	19 35 7	640.54	1.16	282.78	231.54	168.60	19 45 48	40.5	9.00	281.60

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE 5.6516 TRA-1.4088 TC3 -.1560 BAU 2.6572 SGT 2189.2 SGR 3697.1 SG3 75.1 ST 1354.3 SR 1406.1 SS 1072.3
RDE-4.4519 RRA 2.9105 RC3 .2609 FAU-.04465 RRT -.9391 RRF .9975 RTF -.9601 CRT -.9131 CRS -.9928 CST .9553
FDE-1.3071 FRA .6709 FC3 .0591 BSP 12530 SGB 4296.6 R23 -.0202 R13 .9996 LSA 2188.6 MSA 413.6 SSA 1.3
BDE 7.1945 BRA 3.2335 BC3 .3040 FSP -224 SG1 4246.4 SG2 655.1 THA 119.86 EL1 1909.4 EL2 406.6 ALF 133.82

LAUNCH DATE OCT 3 1965 FLIGHT TIME 158.00 ARRIVAL DATE MAR 10 1966

HELIOCENTRIC CONIC DISTANCE 425.873

RL 149.68 LAL .00 LOL 9.58 VL 27.312 GAL 2.83 AZL 118.28 HCA 186.29 SMA 129.18 ECC .16601 INC28.2799 V1 29.769
RP 107.89 LAP 2.98 LOP 195.13 VP 37.853 GAP -1.16 AZP 61.86 TAL 165.55 TAP 351.84 RCA 107.73 APO 150.62 V2 35.126
RC 70.553 GL -64.98 GP 82.50 ZAL 82.57 ZAP 87.04 ETS 228.40 ZAE 91.78 ETE 339.34 ZAC 83.26 ETC 118.81 CLP 66.69

PLANETOCENTRIC CONIC

C3 203.410 VHL 14.262 DLA -78.74 RAL 4.71 RAD 6571.1 VEL 18.020 PTH 3.01 VHP 18.952 DPA 72.67 RAP 284.73 ECC 4.3476

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
12.81	11 17 47	2310.98	9.41	81.76	272.81	168.59	11 56 18	1711.0	17.25	80.52
167.19	22 26 47	5804.67	9.41	259.47	272.83	168.59	24 3 32	5204.7	17.25	258.24
12.81	11 17 47	2310.98	9.41	81.76	272.81	168.59	11 56 18	1711.0	17.25	80.52
167.19	22 26 47	5804.67	9.41	259.47	272.83	168.59	24 3 32	5204.7	17.25	258.24
12.81	11 17 47	2310.98	9.41	81.76	272.81	168.59	11 56 18	1711.0	17.25	80.52
167.19	22 26 47	5804.67	9.41	259.47	272.83	168.59	24 3 32	5204.7	17.25	258.24

DIFFERENTIAL CORRECTIONS
TDE-2.5792 TRA-1.8992 TC3 -.1707 BAU .5533
RDE 3.0135 RRA .9217 RC3 .1108 FAU-.01002
FDE 1.0220 FRA .5349 FC3 .0426 BSP 14643
BDE 3.9665 BRA 2.1111 BC3 .2035 FSP -328

MID-COURSE EXECUTION ACCURACY
SGT 4073.1 SGR 2272.5 SG3 102.1
RRT -.9533 RRF .9775 RTF -.9951
SGB 4664.2 R23 -.0247 R13 .9994
SG1 4624.8 SG2 604.6 THA 151.46

ORBIT DETERMINATION ACCURACY
ST 1564.9 SR 1337.7 SS 862.8
CRT -.9180 CRS -.9718 CST .9856
LSA 2194.0 MSA 411.5 SSA 1.3
EL1 2017.2 EL2 411.5 ALF 139.87

LAUNCH DATE OCT 3 1965 FLIGHT TIME 160.00 ARRIVAL DATE MAR 12 1966

HELIOCENTRIC CONIC DISTANCE 431.983

RL 149.68 LAL .00 LOL 9.58 VL 27.324 GAL 2.88 AZL 108.26 HCA 189.23 SMA 129.26 ECC .16560 INC18.2587 V1 29.769
RP 107.92 LAP 2.88 LOP 198.35 VP 37.851 GAP -.79 AZP 71.96 TAL 165.22 TAP 354.44 RCA 107.85 APO 150.66 V2 35.114
RC 72.741 GL -63.41 GP 86.05 ZAL 78.72 ZAP 86.70 ETS 302.81 ZAE 100.07 ETE 51.71 ZAC 75.09 ETC 188.83 CLP -33.46

PLANETOCENTRIC CONIC

C3 91.423 VHL 9.562 DLA -74.88 RAL 4.70 RAD 6569.8 VEL 14.587 PTH 2.64 VHP 12.872 DPA 63.80 RAP 286.28 ECC 2.5046

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
17.23	11 26 33	2153.24	19.12	76.72	269.32	163.98	12 2 27	1553.2	26.79	74.67
162.77	22 17 55	5661.74	19.12	258.80	269.34	163.98	23 52 17	5061.7	26.79	256.75
17.23	11 26 33	2153.24	19.12	76.72	269.32	163.98	12 2 27	1553.2	26.79	74.67
162.77	22 17 55	5661.74	19.12	258.80	269.34	163.98	23 52 17	5061.7	26.79	256.75
17.23	11 26 33	2153.24	19.12	76.72	269.32	163.98	12 2 27	1553.2	26.79	74.67
162.77	22 17 55	5661.74	19.12	258.80	269.34	163.98	23 52 17	5061.7	26.79	256.75

DIFFERENTIAL CORRECTIONS
TDE-2.3947 TRA-1.2199 TC3 -.0350 BAU .0911
RDE-1.5011 RRA-1.5239 RC3 .0658 FAU .00395
FDE 1.0413 FRA .6986 FC3 -.0374 BSP 14990
BDE 2.8263 BRA 1.9520 BC3 .0745 FSP -477

MID-COURSE EXECUTION ACCURACY
SGT 3149.6 SGR 3617.3 SG3 148.9
RRT .9740 RRF -.9929 RTF -.9928
SGB 4796.3 R23 .0156 R13 -.9992
SG1 4765.6 SG2 541.9 THA 49.06

ORBIT DETERMINATION ACCURACY
ST 1663.2 SR 1382.9 SS 876.6
CRT .9452 CRS .9790 CST .9919
LSA 2307.2 MSA 351.9 SSA 2.0
EL1 2134.2 EL2 351.9 ALF 39.45

LAUNCH DATE OCT 3 1965 FLIGHT TIME 162.00 ARRIVAL DATE MAR 14 1966

HELIOCENTRIC CONIC DISTANCE 438.235

RL 149.68 LAL .00 LOL 9.58 VL 27.333 GAL 2.92 AZL 103.13 HCA 192.31 SMA 129.32 ECC .16527 INC13.1282 V1 29.769
RP 107.96 LAP 2.77 LOP 201.57 VP 37.846 GAP -.38 AZP 77.16 TAL 164.98 TAP 357.29 RCA 107.94 APO 150.69 V2 35.101
RC 74.954 GL -59.17 GP 80.80 ZAL 74.83 ZAP 87.20 ETS 332.61 ZAE 105.90 ETE 79.94 ZAC 69.26 ETC 214.21 CLP -72.21

PLANETOCENTRIC CONIC

C3 52.130 VHL 7.220 DLA -70.63 RAL 357.06 RAD 6568.9 VEL 13.172 PTH 2.41 VHP 9.788 DPA 57.40 RAP 287.04 ECC 1.8579

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
22.14	11 6 15	2009.46	27.09	69.78	256.68	158.12	11 39 44	1409.5	34.46	66.59
157.86	21 37 15	5540.19	27.09	256.87	256.71	158.12	23 9 35	4940.2	34.47	253.68
22.14	11 6 15	2009.46	27.09	69.78	256.68	158.12	11 39 44	1409.5	34.46	66.59
157.86	21 37 15	5540.19	27.09	256.87	256.71	158.12	23 9 35	4940.2	34.47	253.68
22.14	11 6 15	2009.46	27.09	69.78	256.68	158.12	11 39 44	1409.5	34.46	66.59
157.86	21 37 15	5540.19	27.09	256.87	256.71	158.12	23 9 35	4940.2	34.47	253.68

DIFFERENTIAL CORRECTIONS
TDE -.9487 TRA -.3168 TC3 -.0502 BAU .2634
RDE-1.2398 RRA-1.9205 RC3 .3746 FAU .01460
FDE .8166 FRA .9770 FC3 -.2424 BSP 15154
BDE 1.5611 BRA 1.9465 BC3 .3780 FSP -680

MID-COURSE EXECUTION ACCURACY
SGT 1070.7 SGR 4729.6 SG3 211.7
RRT .8261 RRF -.9978 RTF -.8514
SGB 4849.2 R23 .0246 R13 -.9987
SG1 4812.9 SG2 592.9 THA 79.24

ORBIT DETERMINATION ACCURACY
ST 786.4 SR 1693.5 SS 807.5
CRT .7914 CRS .9921 CST .8620
LSA 1984.0 MSA 649.7 SSA 2.7
EL1 1812.3 EL2 449.2 ALF 68.43

LAUNCH DATE OCT 3 1965 FLIGHT TIME 164.00 ARRIVAL DATE MAR 16 1966

HELIOCENTRIC CONIC DISTANCE 444.529

RL 149.68 LAL .00 LOL 9.58 VL 27.339 GAL 2.96 AZL 100.04 HCA 195.44 SMA 129.36 ECC .16511 INC10.0422 V1 29.769
RP 108.00 LAP 2.66 LOP 204.79 VP 37.838 GAP .03 AZP 80.31 TAL 164.76 TAP .19 RCA 108.00 APO 150.72 V2 35.089
RC 77.191 GL -54.03 GP 75.76 ZAL 71.08 ZAP 88.49 ETS 345.65 ZAE 110.50 ETE 91.90 ZAC 64.38 ETC 222.99 CLP -83.87

PLANETOCENTRIC CONIC

C3 34.604 VHL 5.883 DLA -65.95 RAL 349.89 RAD 6568.4 VEL 12.489 PTH 2.26 VHP 7.980 DPA 52.09 RAP 287.20 ECC 1.5695

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
27.58	10 49 36	1890.13	32.35	61.22	243.45	151.15	11 21 6	1290.1	39.26	56.66
152.42	20 56 42	5453.41	32.36	254.16	243.47	151.15	22 27 35	4853.4	39.27	249.60
27.58	10 49 36	1890.13	32.35	61.22	243.45	151.15	11 21 6	1290.1	39.26	56.66
152.42	20 56 42	5453.41	32.36	254.16	243.47	151.15	22 27 35	4853.4	39.27	249.60
27.58	10 49 36	1890.13	32.35	61.22	243.45	151.15	11 21 6	1290.1	39.26	56.66
152.42	20 56 42	5453.41	32.36	254.16	243.47	151.15	22 27 35	4853.4	39.27	249.60

DIFFERENTIAL CORRECTIONS
TDE -.5387 TRA .0925 TC3 -.2048 BAU .3596
RDE -.6870 RRA-1.9671 RC3 .7500 FAU .02472
FDE .6233 FRA 1.3302 FC3 -.6185 BSP 15179
BDE .8730 BRA 1.9693 BC3 .7774 FSP -921

MID-COURSE EXECUTION ACCURACY
SGT 618.2 SGR 4829.6 SG3 286.6
RRT -.3015 RRF -.9982 RTF .2727
SGB 4869.0 R23 .0344 R13 -.9981
SG1 4833.2 SG2 588.9 THA 92.24

ORBIT DETERMINATION ACCURACY
ST 528.9 SR 1561.2 SS 779.5
CRT .3118 CRS .9923 CST .4266
LSA 1752.6 MSA 503.0 SSA 3.4
EL1 1570.9 EL2 499.4 ALF 83.29

LAUNCH DATE OCT 3 1965 FLIGHT TIME 166.00 ARRIVAL DATE MAR 18 1966

HELIOCENTRIC CONIC DISTANCE 450.833

RL	149.68	LAL	.00	LOL	9.58	VL	27.343	GAL	3.00	AZL	97.98	HCA	198.60	SMA	129.38	ECC	.16514	INC	7.9818	VI	29.769
RP	108.04	LAP	2.54	LOP	208.01	VP	37.829	GAP	.44	AZP	82.43	TAL	164.51	TAP	3.11	RCA	108.02	APO	150.75	V2	35.076
RC	79.446	GL	-48.63	GP	71.19	ZAL	67.55	ZAP	90.50	ETS	354.25	ZAE	114.32	ETE	100.01	ZAC	59.96	ETC	227.55	CLP	-91.56

PLANETOCENTRIC CONIC

C3	25.523	VHL	5.052	DLA	-61.03	RAL	344.31	RAD	6568.0	VEL	12.120	PTH	2.17	VHP	6.819	DPA	47.35	RAP	286.95	ECC	1.4200

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
33.38	10 41 4	1791.38	35.07	51.74	231.42	143.71	11 10 55	1191.4	41.36	45.85
146.62	20 20 43	5399.81	35.08	251.37	231.44	143.70	21 50 43	4799.8	41.37	245.48
33.38	10 41 4	1791.38	35.07	51.74	231.42	143.71	11 10 55	1191.4	41.36	45.85
146.62	20 20 43	5399.81	35.08	251.37	231.44	143.70	21 50 43	4799.8	41.37	245.48
33.38	10 41 4	1791.38	35.07	51.74	231.42	143.71	11 10 55	1191.4	41.36	45.85
146.62	20 20 43	5399.81	35.08	251.37	231.44	143.70	21 50 43	4799.8	41.37	245.48

DIFFERENTIAL CORRECTIONS

TDE	-.3819	TRA	.3805	TC3	-.4613	BAU	.4153
RDE	-.3876	RRA	-1.9574	RC3	1.1262	FAU	.03487
FDE	.5098	FRA	1.7314	FC3	-1.1827	BSP	15230
BDE	.5441	BRA	1.9940	BC3	1.2170	FSP	-1194

MID-COURSE EXECUTION ACCURACY

SGT	1094.7	SGR	4742.3	SG3	368.5		
RRT	-.8519	RRF	-.9981	RTF	.8390		
SGB	4867.0	R23	.0447	R13	-.9974		
SG1	4834.4	SG2	562.4	THA	101.28		

ORBIT DETERMINATION ACCURACY

ST	509.1	SR	1443.8	SS	793.6		
CRT	-.2415	CRS	.9910	CST	-.1095		
LSA	1648.7	MSA	505.1	SSA	4.2		
EL1	1449.7	EL2	492.0	ALF	95.50		

LAUNCH DATE OCT 3 1965 FLIGHT TIME 168.00 ARRIVAL DATE MAR 20 1966

HELIOCENTRIC CONIC DISTANCE 457.132

RL	149.68	LAL	.00	LOL	9.58	VL	27.344	GAL	3.06	AZL	96.50	HCA	201.77	SMA	129.39	ECC	.16537	INC	6.5042	VI	29.769
RP	108.08	LAP	2.41	LOP	211.22	VP	37.818	GAP	.85	AZP	83.96	TAL	164.24	TAP	6.01	RCA	108.00	APO	150.79	V2	35.063
RC	81.719	GL	-43.30	GP	66.91	ZAL	64.30	ZAP	93.12	ETS	.97	ZAE	117.52	ETE	106.85	ZAC	55.78	ETC	230.48	CLP	-97.98

PLANETOCENTRIC CONIC

C3	20.342	VHL	4.510	DLA	-56.07	RAL	340.13	RAD	6567.8	VEL	11.905	PTH	2.12	VHP	6.031	DPA	42.94	RAP	286.43	ECC	1.3348

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
39.35	10 39 57	1706.36	35.79	42.07	221.11	136.52	11 8 23	1106.4	41.38	35.15
140.65	19 48 32	5374.52	35.80	249.23	221.13	136.51	21 18 6	4774.5	41.39	242.32
39.35	10 39 57	1706.36	35.79	42.07	221.11	136.52	11 8 23	1106.4	41.38	35.15
140.65	19 48 32	5374.52	35.80	249.23	221.13	136.51	21 18 6	4774.5	41.39	242.32
39.35	10 39 57	1706.36	35.79	42.07	221.11	136.52	11 8 23	1106.4	41.38	35.15
140.65	19 48 32	5374.52	35.80	249.23	221.13	136.51	21 18 6	4774.5	41.39	242.32

DIFFERENTIAL CORRECTIONS

TDE	-.2938	TRA	.6286	TC3	-.8018	BAU	.4506
RDE	-.2524	RRA	-1.9208	RC3	1.4499	FAU	.04464
FDE	.4793	FRA	2.1598	FC3	-1.8998	BSP	15218
BDE	.3874	BRA	2.0210	BC3	1.6769	FSP	-1475

MID-COURSE EXECUTION ACCURACY

SGT	1645.9	SGR	4574.5	SG3	452.8		
RRT	-.9404	RRF	-.9979	RTF	.9325		
SGB	4861.6	R23	.0550	R13	-.9966		
SG1	4832.6	SG2	529.8	THA	108.93		

ORBIT DETERMINATION ACCURACY

ST	569.2	SR	1350.8	SS	831.8		
CRT	-.5776	CRS	.9885	CST	-.4477		
LSA	1615.5	MSA	480.2	SSA	5.0		
EL1	1395.0	EL2	449.9	ALF	105.31		

LAUNCH DATE OCT 3 1965 FLIGHT TIME 170.00 ARRIVAL DATE MAR 22 1966

HELIOCENTRIC CONIC DISTANCE 463.420

RL	149.68	LAL	.00	LOL	9.58	VL	27.343	GAL	3.12	AZL	95.39	HCA	204.95	SMA	129.39	ECC	.16579	INC	5.3879	VI	29.769
RP	108.12	LAP	2.27	LOP	214.43	VP	37.805	GAP	1.26	AZP	85.11	TAL	163.93	TAP	8.88	RCA	107.94	APO	150.84	V2	35.050
RC	84.008	GL	-38.18	GP	62.82	ZAL	61.35	ZAP	96.23	ETS	6.53	ZAE	120.19	ETE	113.15	ZAC	51.75	ETC	232.49	CLP	-103.75

PLANETOCENTRIC CONIC

C3	17.199	VHL	4.147	DLA	-51.24	RAL	337.02	RAD	6567.7	VEL	11.772	PTH	2.08	VHP	5.481	DPA	38.74	RAP	285.75	ECC	1.2831

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
45.33	10 44 59	1628.79	35.09	32.68	212.67	130.08	11 12 8	1028.8	39.99	25.11
134.67	19 18 39	5373.23	35.10	248.28	212.68	130.07	20 48 12	4773.2	40.00	240.71
45.33	10 44 59	1628.79	35.09	32.68	212.67	130.08	11 12 8	1028.8	39.99	25.11
134.67	19 18 39	5373.23	35.10	248.28	212.68	130.07	20 48 12	4773.2	40.00	240.71
45.33	10 44 59	1628.79	35.09	32.68	212.67	130.08	11 12 8	1028.8	39.99	25.11
134.67	19 18 39	5373.23	35.10	248.28	212.68	130.07	20 48 12	4773.2	40.00	240.71

DIFFERENTIAL CORRECTIONS

TDE	-.2212	TRA	.8580	TC3	-1.1998	BAU	.4766
RDE	-.2034	RRA	-1.8628	RC3	1.6904	FAU	.05368
FDE	.5212	FRA	2.5905	FC3	-2.7018	BSP	15212
BDE	.3005	BRA	2.0509	BC3	2.0729	FSP	-1751

MID-COURSE EXECUTION ACCURACY

SGT	2160.8	SGR	4352.3	SG3	534.2		
RRT	-.9669	RRF	-.9976	RTF	.9608		
SGB	4859.2	R23	.0648	R13	-.9956		
SG1	4833.7	SG2	496.6	THA	115.94		

ORBIT DETERMINATION ACCURACY

ST	645.7	SR	1265.5	SS	881.4		
CRT	-.7537	CRS	.9850	CST	-.6291		
LSA	1610.7	MSA	448.2	SSA	5.9		
EL1	1365.2	EL2	393.4	ALF	113.06		

LAUNCH DATE OCT 3 1965 FLIGHT TIME 172.00 ARRIVAL DATE MAR 24 1966

HELIOCENTRIC CONIC DISTANCE 469.691

RL	149.68	LAL	.00	LOL	9.58	VL	27.340	GAL	3.20	AZL	94.51	HCA	208.13	SMA	129.37	ECC	.16640	INC	4.5107	VI	29.769
RP	108.16	LAP	2.13	LOP	217.64	VP	37.791	GAP	1.66	AZP	86.02	TAL	163.58	TAP	11.71	RCA	107.84	APO	150.90	V2	35.036
RC	86.309	GL	-33.38	GP	58.88	ZAL	58.73	ZAP	99.72	ETS	11.22	ZAE	122.36	ETE	119.15	ZAC	47.85	ETC	233.84	CLP	-109.08

PLANETOCENTRIC CONIC

C3	15.227	VHL	3.902	DLA	-46.63	RAL	334.69	RAD	6567.6	VEL	11.688	PTH	2.06	VHP	5.092	DPA	34.71	RAP	285.01	ECC	1.2506

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
51.26	10 55 29	1553.10	33.49	23.69	205.99	124.57	11 21 22	953.1	37.76	15.77
128.74	18 49 33	5393.42	33.50	248.81	206.00	124.56	20 19 26	4793.4	37.77	240.90
51.26	10 55 29	1553.10	33.49	23.69	205.99	124.57	11 21 22	953.1	37.76	15.77
128.74	18 49 33	5393.42	33.50	248.81	206.00	124.56	20 19 26	4793.4	37.77	240.90
51.26	10 55 29	1553.10	33.49	23.69	205.99	124.57	11 21 22	953.1	37.76	15.77
128.74	18 49 33	5393.42	33.50	248.81	206.00	124.56	20 19 26	4793.4	37.77	240.90

DIFFERENTIAL CORRECTIONS

TDE	-.1462	TRA	1.0755	TC3	-1.6232	BAU	.4985
RDE	-.1941	RRA	-1.7878	RC3	1.8333	FAU	.06157
FDE	.6185	FRA	3.0000	FC3	-3.5009	BSP	15233
BDE	.2430	BRA	2.0864	BC3	2.4487	FSP	-2005

MID-COURSE EXECUTION ACCURACY

SGT	2634.4	SGR	4091.8	SG3	607.5		
RRT	-.9781	RRF	-.9972	RTF	.9728		
SGB	4866.5	R23	.0732	R13	-.9946		
SG1	4844.4	SG2	463.2	THA	122.53		

ORBIT DETERMINATION ACCURACY

ST	723.6	SR	1182.5	SS	936.9		
CRT	-.8552	CRS	.9806	CST	-.7372		
LSA	1620.8	MSA	415.5	SSA	6.8		
EL1	1346.6	EL2	329.3	ALF	119.57		

LAUNCH DATE OCT 3 1965 FLIGHT TIME 174.00 ARRIVAL DATE MAR 26 1966

HELIOCENTRIC CONIC DISTANCE 475.944

RL 149.68 LAL .00 LOL 9.58 VL 27.335 GAL 3.30 AZL 93.80 HCA 211.32 SMA 129.34 ECC .16721 INC 3.7934 V1 29.769
RP 108.20 LAP 1.97 LOP 220.84 VP 37.775 GAP 2.06 AZP 86.75 TAL 163.18 TAP 14.51 RCA 107.71 APO 150.96 V2 35.023
RC 88.623 GL -28.93 GP 55.07 ZAL 56.39 ZAP 103.47 ETS 15.17 ZAE 124.05 ETE 124.88 ZAC 44.09 ETC 234.57 CLP-114.02

PLANETOCENTRIC CONIC

C3 13.978 VHL 3.739 DLA -42.31 RAL 332.94 RAD 6567.6 VEL 11.635 PTH 2.04 VHP 4.820 DPA 30.83 RAP 284.29 ECC 1.2300

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
57.15	11 11 15	1474.25	31.38	14.92	200.85	119.97	11 35 50	874.2	35.10	6.87
122.85	18 19 49	5434.25	31.39	250.95	200.86	119.96	19 50 23	4834.3	35.11	242.90
57.15	11 11 15	1474.25	31.38	14.92	200.85	119.97	11 35 50	874.2	35.10	6.87
122.85	18 19 49	5434.25	31.39	250.95	200.86	119.96	19 50 23	4834.3	35.11	242.90
57.15	11 11 15	1474.25	31.38	14.92	200.85	119.97	11 35 50	874.2	35.10	6.87
122.85	18 19 49	5434.25	31.39	250.95	200.86	119.96	19 50 23	4834.3	35.11	242.90

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.0622 TRA 1.2848 TC3-2.0391 BAU .5176 SGT 3069.4 SGR 3810.5 SG3 669.6 ST 805.6 SR 1104.5 SS 999.5
RDE -.2032 RRA-1.7033 RC3 1.8747 FAU .06778 RRT -.9836 RRF -.9967 RTF .9788 CRT -.9192 CRS .9758 CST -.8110
FDE .7595 FRA 3.3729 FC3-4.1978 BSP 15238 SGB 4893.0 R23 .0794 R13 -.9935 LSA 1649.2 MSA 384.9 SSA 7.8
BDE .2125 BRA 2.1335 BC3 2.7699 FSP -2214 SG1 4873.8 SG2 432.8 THA 128.75 EL1 1341.9 EL2 261.1 ALF 125.38

LAUNCH DATE OCT 3 1965 FLIGHT TIME 176.00 ARRIVAL DATE MAR 28 1966

HELIOCENTRIC CONIC DISTANCE 482.177

RL 149.68 LAL .00 LOL 9.58 VL 27.329 GAL 3.40 AZL 93.21 HCA 214.51 SMA 129.29 ECC .16821 INC 3.2077 V1 29.769
RP 108.24 LAP 1.82 LOP 224.05 VP 37.758 GAP 2.46 AZP 87.36 TAL 162.75 TAP 17.26 RCA 107.54 APO 151.04 V2 35.010
RC 90.946 GL -24.84 GP 51.40 ZAL 54.33 ZAP 107.38 ETS 18.49 ZAE 125.30 ETE 130.34 ZAC 40.51 ETC 234.71 CLP-118.60

PLANETOCENTRIC CONIC

C3 13.207 VHL 3.634 DLA -38.29 RAL 331.63 RAD 6567.5 VEL 11.601 PTH 2.03 VHP 4.636 DPA 27.11 RAP 283.66 ECC 1.2173

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
63.08	11 32 56	1386.24	29.01	5.98	196.98	116.16	11 56 2	786.2	32.27	357.90
116.92	17 47 41	5497.50	29.03	254.87	196.98	116.15	19 19 19	4897.5	32.28	246.79
63.08	11 32 56	1386.24	29.01	5.98	196.98	116.16	11 56 2	786.2	32.27	357.90
116.92	17 47 41	5497.50	29.03	254.87	196.98	116.15	19 19 19	4897.5	32.28	246.79
63.08	11 32 56	1386.24	29.01	5.98	196.98	116.16	11 56 2	786.2	32.27	357.90
116.92	17 47 41	5497.50	29.03	254.87	196.98	116.15	19 19 19	4897.5	32.28	246.79

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE .0296 TRA 1.4843 TC3-2.4264 BAU .5379 SGT 3464.3 SGR 3514.2 SG3 716.5 ST 897.2 SR 1026.4 SS 1061.7
RDE -.2122 RRA-1.6090 RC3 1.8425 FAU .07250 RRT -.9867 RRF -.9959 RTF .9823 CRT -.9609 CRS .9703 CST -.8657
FDE .9158 FRA 3.6843 FC3-4.7522 BSP 15373 SGB 4934.7 R23 .0822 R13 -.9925 LSA 1690.9 MSA 355.6 SSA 8.9
BDE .2142 BRA 2.1891 BC3 3.0467 FSP -2388 SG1 4918.3 SG2 402.0 THA 134.58 EL1 1350.1 EL2 188.9 ALF 131.00

LAUNCH DATE OCT 3 1965 FLIGHT TIME 178.00 ARRIVAL DATE MAR 30 1966

HELIOCENTRIC CONIC DISTANCE 488.389

RL 149.68 LAL .00 LOL 9.58 VL 27.321 GAL 3.52 AZL 92.71 HCA 217.70 SMA 129.23 ECC .16940 INC 2.7051 V1 29.769
RP 108.29 LAP 1.65 LOP 227.24 VP 37.740 GAP 2.86 AZP 87.86 TAL 162.27 TAP 19.97 RCA 107.34 APO 151.13 V2 34.996
RC 93.279 GL -21.11 GP 47.89 ZAL 52.51 ZAP 111.33 ETS 21.26 ZAE 126.13 ETE 135.45 ZAC 37.15 ETC 234.24 CLP-122.85

PLANETOCENTRIC CONIC

C3 12.769 VHL 3.573 DLA -34.58 RAL 330.66 RAD 6567.5 VEL 11.583 PTH 2.03 VHP 4.522 DPA 23.56 RAP 283.14 ECC 1.2101

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
69.28	12 2 31	1279.84	26.57	356.17	194.13	112.99	12 23 50	679.8	29.44	348.13
110.72	17 10 24	5589.37	26.58	260.99	194.14	112.98	18 43 34	4989.4	29.45	252.94
69.28	12 2 31	1279.84	26.57	356.17	194.13	112.99	12 23 50	679.8	29.44	348.13
110.72	17 10 24	5589.37	26.58	260.99	194.14	112.98	18 43 34	4989.4	29.45	252.94
69.28	12 2 31	1279.84	26.57	356.17	194.13	112.99	12 23 50	679.8	29.44	348.13
110.72	17 10 24	5589.37	26.58	260.99	194.14	112.98	18 43 34	4989.4	29.45	252.94

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE .1293 TRA 1.6769 TC3-2.7648 BAU .5584 SGT 3822.4 SGR 3218.2 SG3 748.0 ST 1003.1 SR 951.1 SS 1123.8
RDE -.2183 RRA-1.5123 RC3 1.7483 FAU .07539 RRT -.9884 RRF -.9948 RTF .9845 CRT -.9856 CRS .9644 CST -.9062
FDE 1.0779 FRA 3.9314 FC3-5.1113 BSP 15569 SGB 4996.8 R23 .0810 R13 -.9916 LSA 1750.8 MSA 329.5 SSA 10.0
BDE .2537 BRA 2.2581 BC3 3.2711 FSP -2512 SG1 4982.7 SG2 375.2 THA 139.96 EL1 1377.4 EL2 117.0 ALF 136.55

LAUNCH DATE OCT 3 1965 FLIGHT TIME 180.00 ARRIVAL DATE APR 1 1966

HELIOCENTRIC CONIC DISTANCE 494.579

RL 149.68 LAL .00 LOL 9.58 VL 27.311 GAL 3.65 AZL 92.27 HCA 220.88 SMA 129.17 ECC .17078 INC 2.2704 V1 29.769
RP 108.33 LAP 1.49 LOP 230.44 VP 37.720 GAP 3.25 AZP 88.28 TAL 161.75 TAP 22.64 RCA 107.11 APO 151.23 V2 34.983
RC 95.621 GL -17.73 GP 44.56 ZAL 50.89 ZAP 115.25 ETS 23.55 ZAE 126.59 ETE 140.16 ZAC 34.06 ETC 233.10 CLP-126.78

PLANETOCENTRIC CONIC

C3 12.577 VHL 3.546 DLA -31.17 RAL 329.97 RAD 6567.5 VEL 11.574 PTH 2.02 VHP 4.463 DPA 20.21 RAP 282.78 ECC 1.2070

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
76.40	12 45 48	1133.93	24.15	343.91	192.11	110.33	13 4 42	533.9	26.70	335.93
103.60	16 21 34	5728.79	24.16	270.63	192.12	110.31	17 57 3	5128.8	26.71	262.64
76.40	12 45 48	1133.93	24.15	343.91	192.11	110.33	13 4 42	533.9	26.70	335.93
103.60	16 21 34	5728.79	24.16	270.63	192.12	110.31	17 57 3	5128.8	26.71	262.64
110.00	15 15 22	647.71	15.98	304.31	187.98	120.63	15 26 10	47.7	19.93	297.41
110.00	18 51 11	5263.00	32.89	237.74	194.80	99.88	20 18 54	4663.0	33.91	228.65

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE .2357 TRA 1.8634 TC3-3.0458 BAU .5797 SGT 4146.2 SGR 2931.5 SG3 764.3 ST 1124.0 SR 878.0 SS 1183.1
RDE -.2194 RRA-1.4167 RC3 1.6153 FAU .07661 RRT -.9891 RRF -.9934 RTF .9858 CRT -.9974 CRS .9577 CST -.9352
FDE 1.2344 FRA 4.1119 FC3-5.2736 BSP 15830 SGB 5077.9 R23 .0759 R13 -.9908 LSA 1827.3 MSA 307.5 SSA 11.0
BDE .3221 BRA 2.3408 BC3 3.4476 FSP -2587 SG1 5065.5 SG2 354.0 THA 144.84 EL1 1425.4 EL2 49.8 ALF 142.02

LAUNCH DATE OCT 3 1965 FLIGHT TIME 182.00 ARRIVAL DATE APR 3 1966

HELIOCENTRIC CONIC DISTANCE 500.747

RL	149.68	LAL	.00	LOL	9.58	VL	27.300	GAL	3.80	AZL	91.89	HCA	224.07	SMA	129.09	ECC	.17235	INC	1.8885	V1	29.769
RP	108.37	LAP	1.31	LOP	233.63	VP	37.700	GAP	3.64	AZP	88.64	TAL	161.20	TAP	25.26	RCA	106.84	APO	151.34	V2	34.970
RC	97.969	GL	-14.66	GP	41.43	ZAL	49.44	ZAP	119.08	ETS	25.45	ZAE	126.74	ETE	144.44	ZAC	31.28	ETC	231.29	CLP	-130.42

PLANETOCENTRIC CONIC

C3	12.575	VHL	3.546	DLA	-28.05	RAL	329.50	RAD	6567.5	VEL	11.574	PTH	2.02	VHP	4.449	DPA	17.08	RAP	282.60	ECC	1.2070

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	13 57 28	898.77	19.48	324.68	189.87	110.97	14 12 27	298.8	22.16	317.03
90.00	15 6 7	675.86	24.21	310.07	191.53	105.15	15 17 23	75.9	26.06	301.88
100.00	14 25 8	809.29	15.70	316.41	188.16	115.77	14 38 38	209.3	19.04	309.21
100.00	17 21 9	5528.61	28.22	256.95	192.54	100.28	18 53 17	4928.6	29.35	248.33
110.00	14 28 29	798.80	10.57	312.67	185.21	122.70	14 41 47	198.8	14.81	306.13
110.00	19 34 18	5111.87	34.06	226.11	193.34	93.09	20 59 29	4511.9	34.11	216.87

DIFFERENTIAL CORRECTIONS

TDE	.3476	TRA	2.0453	TC3	-3.2648	BAU	.6013
RDE	-.2146	RRA	-1.3250	RC3	1.4609	FAU	.07629
FDE	1.3753	FRA	4.2295	FC3	-5.2524	BSP	16154
BDE	.4085	BRA	2.4370	BC3	3.5767	FSP	-2616

MID-COURSE EXECUTION ACCURACY

SGT	4438.2	SGR	2660.4	SG3	766.8		
RRT	-.9889	RRF	-.9916	RTF	.9867		
SGB	5174.4	R23	.0675	R13	-.9901		
SG1	5163.3	SG2	339.3	THA	149.19		

ORBIT DETERMINATION ACCURACY

ST	1257.8	SR	806.6	SS	1236.3		
CRT	-.9997	CRS	.9497	CST	-.9553		
LSA	1917.6	MSA	289.8	SSA	11.9		
EL1	1494.2	EL2	17.2	ALF	147.33		

LAUNCH DATE OCT 3 1965 FLIGHT TIME 184.00 ARRIVAL DATE APR 5 1966

HELIOCENTRIC CONIC DISTANCE 506.891

RL	149.68	LAL	.00	LOL	9.58	VL	27.287	GAL	3.96	AZL	91.55	HCA	227.25	SMA	129.01	ECC	.17412	INC	1.5483	V1	29.769
RP	108.41	LAP	1.14	LOP	236.82	VP	37.679	GAP	4.03	AZP	88.95	TAL	160.60	TAP	27.85	RCA	106.54	APO	151.47	V2	34.957
RC	100.323	GL	-11.90	GP	38.52	ZAL	48.12	ZAP	122.77	ETS	27.03	ZAE	126.65	ETE	148.27	ZAC	28.85	ETC	228.77	CLP	-133.78

PLANETOCENTRIC CONIC

C3	12.730	VHL	3.568	DLA	-25.19	RAL	329.20	RAD	6567.5	VEL	11.581	PTH	2.03	VHP	4.472	DPA	14.16	RAP	282.59	ECC	1.2095

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 34 10	1174.68	11.95	341.43	186.88	115.86	12 53 45	574.7	15.33	334.38
90.00	16 27 5	5693.22	27.67	268.95	191.68	96.26	18 1 58	5093.2	28.25	260.33
100.00	13 32 0	987.96	10.16	326.78	185.95	118.26	13 48 28	388.0	13.86	319.94
100.00	18 11 56	5355.17	29.68	244.28	191.88	93.77	19 41 12	4755.2	29.88	235.48
110.00	13 56 3	912.48	6.33	318.74	183.63	123.66	14 11 16	312.5	10.71	312.39
110.00	20 4 2	5003.42	34.14	217.65	191.96	88.09	21 27 46	4403.4	33.49	208.46

DIFFERENTIAL CORRECTIONS

TDE	.4663	TRA	2.2267	TC3	-3.4141	BAU	.6213
RDE	-.2062	RRA	-1.2406	RC3	1.2927	FAU	.07432
FDE	1.5025	FRA	4.2973	FC3	-5.0542	BSP	16446
BDE	.5098	BRA	2.5490	BC3	3.6706	FSP	-2589

MID-COURSE EXECUTION ACCURACY

SGT	4702.2	SGR	2410.0	SG3	758.1		
RRT	-.9879	RRF	-.9892	RTF	.9872		
SGB	5283.8	R23	.0581	R13	-.9895		
SG1	5273.3	SG2	333.0	THA	153.03		

ORBIT DETERMINATION ACCURACY

ST	1404.1	SR	739.4	SS	1285.4		
CRT	-.9950	CRS	.9404	CST	-.9691		
LSA	2023.3	MSA	276.3	SSA	12.7		
EL1	1585.5	EL2	65.1	ALF	152.29		

LAUNCH DATE OCT 3 1965 FLIGHT TIME 186.00 ARRIVAL DATE APR 7 1966

HELIOCENTRIC CONIC DISTANCE 513.011

RL	149.68	LAL	.00	LOL	9.58	VL	27.274	GAL	4.14	AZL	91.24	HCA	230.44	SMA	128.91	ECC	.17609	INC	1.2418	V1	29.769
RP	108.44	LAP	.96	LOP	240.01	VP	37.658	GAP	4.42	AZP	89.21	TAL	159.96	TAP	30.40	RCA	106.21	APO	151.61	V2	34.945
RC	102.682	GL	-9.40	GP	35.83	ZAL	46.92	ZAP	126.29	ETS	28.36	ZAE	126.36	ETE	151.65	ZAC	26.80	ETC	225.55	CLP	-136.89

PLANETOCENTRIC CONIC

C3	13.019	VHL	3.608	DLA	-22.58	RAL	329.06	RAD	6567.5	VEL	11.593	PTH	2.03	VHP	4.527	DPA	11.48	RAP	282.77	ECC	1.2143

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 52 32	1322.89	7.41	349.95	185.59	117.41	12 14 35	722.9	11.03	343.14
90.00	17 7 34	5554.65	28.29	258.87	191.16	91.24	18 40 8	4954.6	28.16	250.20
100.00	12 57 13	1114.12	6.01	333.85	184.83	119.34	13 15 47	514.1	9.88	327.19
100.00	18 45 34	5238.65	29.88	235.62	191.17	89.23	20 12 53	4638.6	29.46	226.85
110.00	13 31 14	1007.48	2.72	323.73	182.79	124.09	13 48 1	407.5	7.18	317.48
110.00	20 28 2	4918.05	33.74	211.01	190.91	84.18	21 50 1	4318.0	32.57	201.98

DIFFERENTIAL CORRECTIONS

TDE	.5855	TRA	2.4033	TC3	-3.5160	BAU	.6431
RDE	-.1914	RRA	-1.1612	RC3	1.1366	FAU	.07176
FDE	1.5996	FRA	4.3114	FC3	-4.7721	BSP	16857
BDE	.6160	BRA	2.6691	BC3	3.6952	FSP	-2547

MID-COURSE EXECUTION ACCURACY

SGT	4938.1	SGR	2180.1	SG3	739.7		
RRT	-.9862	RRF	-.9860	RTF	.9875		
SGB	5398.0	R23	.0471	R13	-.9891		
SG1	5387.8	SG2	330.6	THA	156.38		

ORBIT DETERMINATION ACCURACY

ST	1551.7	SR	672.2	SS	1321.2		
CRT	-.9849	CRS	.9279	CST	-.9783		
LSA	2129.3	MSA	266.5	SSA	13.2		
EL1	1687.7	EL2	107.2	ALF	156.80		

LAUNCH DATE OCT 3 1965 FLIGHT TIME 188.00 ARRIVAL DATE APR 9 1966

HELIOCENTRIC CONIC DISTANCE 519.106

RL	149.68	LAL	.00	LOL	9.58	VL	27.259	GAL	4.33	AZL	90.96	HCA	233.62	SMA	128.81	ECC	.17826	INC	.9623	V1	29.769
RP	108.48	LAP	.77	LOP	243.19	VP	37.636	GAP	4.82	AZP	89.43	TAL	159.29	TAP	32.91	RCA	105.85	APO	151.78	V2	34.932
RC	105.043	GL	-7.16	GP	33.37	ZAL	45.81	ZAP	129.62	ETS	29.48	ZAE	125.94	ETE	154.61	ZAC	25.16	ETC	221.67	CLP	-139.78

PLANETOCENTRIC CONIC

C3	13.427	VHL	3.664	DLA	-20.19	RAL	329.04	RAD	6567.5	VEL	11.611	PTH	2.03	VHP	4.609	DPA	9.03	RAP	283.13	ECC	1.2210

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 22 40	1437.58	3.78	356.42	185.05	118.08	11 46 37	837.6	7.50	349.72
90.00	17 37 17	5453.34	28.22	251.46	190.78	87.53	19 8 10	4853.3	27.58	242.85
100.00	12 30 58	1217.15	2.55	339.54	184.37	119.79	12 51 15	617.1	6.50	332.97
100.00	19 11 40	5149.01	29.61	228.98	190.69	85.74	20 37 29	4549.0	28.71	220.29
110.00	13 11 20	1090.65	-.45	328.07	182.49	124.18	13 29 31	490.6	4.03	321.86
110.00	20 47 47	4848.28	33.13	205.66	190.21	81.07	22 8 35	4248.3	31.55	196.79

DIFFERENTIAL CORRECTIONS

TDE	.7084	TRA	2.5802	TC3	-3.5640	BAU	.6640
RDE	-.1736	RRA	-1.0896	RC3	.9888	FAU	.06837
FDE	1.6758	FRA	4.2906	FC3	-4.4085	BSP	17270
BDE	.7294	BRA	2.8008	BC3	3.6986	FSP	-2476

MID-COURSE EXECUTION ACCURACY

SGT	5150.5	SGR	1973.3	SG3	714.6		
RRT	-.9836	RRF	-.9821	RTF	.9876		
SGB	5515.6	R23	.0369	R13	-.9887		
SG1	5505.5	SG2	333.2	THA	159.27		

ORBIT DETERMINATION ACCURACY

ST	1701.8	SR	608.9	SS	1348.8		
CRT	-.9696	CRS	.9122	CST	-.9845		
LSA	2240.2	MSA	259.6	SSA	13.6		
EL1	1802.0	EL2	140.7	ALF	160.75		

LAUNCH DATE OCT 3 1965 FLIGHT TIME 190.00 ARRIVAL DATE APR 11 1966

HELIOCENTRIC CONIC DISTANCE 525.175

RL 149.68 LAL .00 LOL 9.58 VL 27.243 GAL 4.53 AZL 90.71 HCA 236.80 SMA 128.71 ECC .18065 INC .7050 V1 29.769
RP 108.52 LAP .59 LOP 246.37 VP 37.613 GAP 5.21 AZP 89.61 TAL 158.58 TAP 35.38 RCA 105.45 APO 151.96 V2 34.920
RC 107.406 GL -5.13 GP 31.12 ZAL 44.77 ZAP 132.75 ETS 30.47 ZAE 125.43 ETE 157.17 ZAC 23.94 ETC 217.26 CLP-142.46

PLANETOCENTRIC CONIC

C3 13.949 VHL 3.735 DLA -18.01 RAL 329.13 RAD 6567.5 VEL 11.633 PTH 2.04 VHP 4.714 DPA 6.80 RAP 283.67 ECC 1.2296

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 59 20	1534.33	.66	1.82	185.01	118.31	11 24 54	934.3	4.44	355.18
90.00	18 1 19	5373.25	27.84	245.63	190.64	84.63	19 30 52	4773.2	26.81	237.12
100.00	12 10 1	1306.22	-.47	344.42	184.38	119.89	12 31 47	706.2	3.51	337.90
100.00	19 33 18	5076.59	29.13	223.65	190.48	82.97	20 57 55	4476.6	27.85	215.08
110.00	12 54 58	1165.39	-3.31	331.97	182.61	124.04	13 14 23	565.4	1.18	325.77
110.00	21 4 51	4790.18	32.43	201.27	189.86	78.56	22 24 41	4190.2	30.52	192.58

DIFFERENTIAL CORRECTIONS
TOE .8341 TRA 2.7584 TC3-3.5674 BAU .6841
ROE -.1538 RRA-1.0256 RC3 .8549 FAU .06451
FOE 1.7323 FRA 4.2427 FC3-4.0036 BSP 17692
BOE .8482 BRA 2.9429 BC3 3.6684 FSP -2388

MID-COURSE EXECUTION ACCURACY
SGT 5342.0 SGR 1789.0 SG3 684.9
RRT -.9799 RRF -.9772 RTF .9876
SGB 5633.6 R23 .0280 R13 -.9883
SG1 5623.4 SG2 338.9 THA 161.76

ORBIT DETERMINATION ACCURACY
ST 1850.9 SR 549.9 SS 1368.2
CRT -.9491 CRS .8919 CST -.9888
LSA 2352.6 MSA 254.9 SSA 13.8
EL1 1923.6 EL2 166.7 ALF 164.13

LAUNCH DATE OCT 3 1965 FLIGHT TIME 192.00 ARRIVAL DATE APR 13 1966

HELIOCENTRIC CONIC DISTANCE 531.218

RL 149.68 LAL .00 LOL 9.58 VL 27.227 GAL 4.76 AZL 90.47 HCA 239.98 SMA 128.59 ECC .18326 INC .4657 V1 29.769
RP 108.56 LAP .40 LOP 249.55 VP 37.590 GAP 5.61 AZP 89.77 TAL 157.84 TAP 37.82 RCA 105.03 APO 152.16 V2 34.909
RC 109.770 GL -3.31 GP 29.07 ZAL 43.79 ZAP 135.69 ETS 31.35 ZAE 124.87 ETE 159.39 ZAC 23.13 ETC 212.47 CLP-144.96

PLANETOCENTRIC CONIC

C3 14.580 VHL 3.818 DLA -16.01 RAL 329.30 RAD 6567.6 VEL 11.660 PTH 2.05 VHP 4.839 DPA 4.78 RAP 284.37 ECC 1.2399

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 40 21	1619.40	-2.08	6.57	185.35	118.25	11 7 20	1019.4	1.71	359.94
90.00	18 21 43	5307.73	27.34	240.90	190.75	82.31	19 50 10	4707.7	25.99	232.49
100.00	11 52 47	1385.66	-3.16	348.79	184.75	119.74	12 15 53	785.7	.82	342.26
100.00	19 51 57	5016.70	28.55	219.29	190.55	80.75	21 15 34	4416.7	26.98	210.84
110.00	12 41 17	1233.75	-5.90	335.56	183.05	123.73	13 1 50	633.8	-1.43	329.33
110.00	21 19 57	4741.37	31.72	197.65	189.81	76.53	22 38 59	4141.4	29.54	189.11

DIFFERENTIAL CORRECTIONS
TOE .9625 TRA 2.9391 TC3-3.5305 BAU .7029
ROE -.1324 RRA -.9689 RC3 .7351 FAU .06028
FOE 1.7710 FRA 4.1755 FC3-3.5796 BSP 18105
BOE .9716 BRA 3.0947 BC3 3.6062 FSP -2287

MID-COURSE EXECUTION ACCURACY
SGT 5514.2 SGR 1625.5 SG3 652.4
RRT -.9751 RRF -.9712 RTF .9874
SGB 5748.8 R23 .0207 R13 -.9879
SG1 5738.3 SG2 346.5 THA 163.90

ORBIT DETERMINATION ACCURACY
ST 1996.8 SR 495.6 SS 1379.9
CRT -.9224 CRS .8660 CST -.9918
LSA 2464.4 MSA 251.9 SSA 14.0
EL1 2048.9 EL2 186.6 ALF 166.99

LAUNCH DATE OCT 3 1965 FLIGHT TIME 194.00 ARRIVAL DATE APR 15 1966

HELIOCENTRIC CONIC DISTANCE 537.233

RL 149.68 LAL .00 LOL 9.58 VL 27.209 GAL 5.00 AZL 90.24 HCA 243.15 SMA 128.47 ECC .18610 INC .2416 V1 29.769
RP 108.59 LAP .22 LOP 252.73 VP 37.567 GAP 6.01 AZP 89.89 TAL 157.07 TAP 40.22 RCA 104.56 APO 152.38 V2 34.897
RC 112.133 GL -1.67 GP 27.21 ZAL 42.86 ZAP 138.45 ETS 32.17 ZAE 124.27 ETE 161.30 ZAC 22.74 ETC 207.51 CLP-147.30

PLANETOCENTRIC CONIC

C3 15.321 VHL 3.914 DLA -14.18 RAL 329.56 RAD 6567.6 VEL 11.692 PTH 2.06 VHP 4.983 DPA 2.97 RAP 285.22 ECC 1.2521

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 24 32	1696.07	-4.55	10.86	186.00	117.98	10 52 48	1096.1	-.77	4.21
90.00	18 39 33	5253.21	26.78	237.01	191.10	80.44	20 7 6	4653.2	25.19	228.70
100.00	11 38 20	1457.94	-5.59	352.78	185.42	119.41	12 2 38	857.9	-1.63	346.23
100.00	20 8 26	4966.57	27.95	215.69	190.86	78.95	21 31 12	4366.6	26.14	207.35
110.00	12 29 42	1297.06	-8.28	338.92	183.77	123.28	12 51 19	697.1	-3.85	332.64
110.00	21 33 33	4700.22	31.02	194.64	190.04	74.87	22 51 54	4100.2	28.64	186.25

DIFFERENTIAL CORRECTIONS
TOE 1.0956 TRA 3.1258 TC3-3.4555 BAU .7194
ROE -.1109 RRA -.9199 RC3 .6280 FAU .05573
FOE 1.7986 FRA 4.0998 FC3-3.1494 BSP 18451
BOE 1.1012 BRA 3.2584 BC3 3.5121 FSP -2169

MID-COURSE EXECUTION ACCURACY
SGT 5671.1 SGR 1482.2 SG3 619.0
RRT -.9689 RRF -.9640 RTF .9871
SGB 5861.6 R23 .0154 R13 -.9874
SG1 5850.8 SG2 355.3 THA 165.74

ORBIT DETERMINATION ACCURACY
ST 2140.8 SR 447.4 SS 1387.5
CRT -.8890 CRS .8339 CST -.9940
LSA 2577.9 MSA 249.8 SSA 14.1
EL1 2177.8 EL2 201.4 ALF 169.38

LAUNCH DATE OCT 3 1965 FLIGHT TIME 196.00 ARRIVAL DATE APR 17 1966

HELIOCENTRIC CONIC DISTANCE 543.218

RL 149.68 LAL .00 LOL 9.58 VL 27.191 GAL 5.26 AZL 90.03 HCA 246.33 SMA 128.35 ECC .18918 INC .0262 V1 29.769
RP 108.63 LAP .03 LOP 255.91 VP 37.543 GAP 6.41 AZP 89.99 TAL 156.27 TAP 42.60 RCA 104.07 APO 152.63 V2 34.886
RC 114.493 GL -.20 GP 25.53 ZAL 41.96 ZAP 141.02 ETS 32.97 ZAE 123.68 ETE 162.95 ZAC 22.72 ETC 202.61 CLP-149.49

PLANETOCENTRIC CONIC

C3 16.174 VHL 4.022 DLA -12.49 RAL 329.88 RAD 6567.6 VEL 11.729 PTH 2.07 VHP 5.143 DPA 1.35 RAP 286.21 ECC 1.2662

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 11 10	1766.34	-6.78	14.82	186.90	117.56	10 40 36	1166.3	-3.03	8.14
90.00	18 55 28	5207.48	26.22	233.78	191.67	78.91	20 22 16	4607.5	24.43	225.57
100.00	11 26 5	1524.62	-7.80	356.49	186.34	118.95	11 51 30	924.6	-3.88	349.89
100.00	20 23 14	4924.43	27.36	212.69	191.41	77.47	21 45 19	4324.4	25.36	204.46
110.00	12 19 51	1356.25	-10.48	342.10	184.72	122.72	12 42 27	756.2	-6.09	335.75
110.00	21 45 58	4665.57	30.38	192.14	190.51	73.52	23 3 44	4065.6	27.83	183.88

DIFFERENTIAL CORRECTIONS
TOE 1.2288 TRA 3.3146 TC3-3.3605 BAU .7359
ROE -.0881 RRA -.8760 RC3 .5378 FAU .05140
FOE 1.8092 FRA 4.0118 FC3-2.7513 BSP 18849
BOE 1.2320 BRA 3.4284 BC3 3.4033 FSP -2060

MID-COURSE EXECUTION ACCURACY
SGT 5810.7 SGR 1355.3 SG3 584.8
RRT -.9614 RRF -.9554 RTF .9868
SGB 5966.7 R23 .0107 R13 -.9870
SG1 5955.6 SG2 363.8 THA 167.31

ORBIT DETERMINATION ACCURACY
ST 2275.3 SR 403.7 SS 1386.4
CRT -.8461 CRS .7922 CST -.9955
LSA 2683.3 MSA 248.5 SSA 14.1
EL1 2301.0 EL2 212.8 ALF 171.39

LAUNCH DATE OCT 3 1965 FLIGHT TIME 198.00 ARRIVAL DATE APR 19 1966

HELIOCENTRIC CONIC DISTANCE 549.173

RL	149.68	LAL	.00	LOL	9.58	VL	27.171	GAL	5.54	AZL	89.83	HCA	249.50	SMA	128.22	ECC	.19252	INC	.1706	VI	29.769
RP	108.66	LAP	-.16	LOP	259.08	VP	37.519	GAP	6.83	AZP	90.06	TAL	155.45	TAP	44.95	RCA	103.53	APO	152.90	V2	34.875
RC	116.852	GL	1.12	GP	24.01	ZAL	41.10	ZAP	143.43	ETS	33.76	ZAE	123.09	ETE	164.36	ZAC	23.05	ETC	197.94	CLP	-151.54

PLANETOCENTRIC CONIC

C3	17.146	VHL	4.141	DLA	-10.95	RAL	330.25	RAD	6567.7	VEL	11.770	PTH	2.08	VHP	5.319	DPA	-.10	RAP	287.33	ECC	1.2822

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 59 44	1831.54	-8.81	18.52	188.02	117.02	10 30 16	1231.5	-5.12	11.79
90.00	19 9 54	5169.05	25.69	231.09	192.44	77.66	20 36 3	4569.0	23.73	222.97
100.00	11 15 36	1586.81	-9.83	359.99	187.47	118.37	11 42 3	986.8	-5.97	353.33
100.00	20 36 43	4889.01	26.82	210.20	192.15	76.27	21 58 12	4289.0	24.66	202.06
110.00	12 11 25	1412.03	-12.52	345.13	185.88	122.07	12 34 57	812.0	-8.19	338.71
110.00	21 57 24	4636.56	29.80	190.08	191.20	72.43	23 14 41	4036.6	27.11	181.93

DIFFERENTIAL CORRECTIONS

TDE	1.3645	TRA	3.5091	TC3	-3.2444	BAU	.7512												
RDE	-.0650	RRA	-.8378	RC3	.4602	FAU	.04714												
FDE	1.8099	FRA	3.9206	FC3	-2.3803	BSP	19229												
BDE	1.3661	BRA	3.6077	BC3	3.2769	FSP	-1950												

MID-COURSE EXECUTION ACCURACY

SGT	5936.5	SGR	1243.9	SG3	551.1						
RRT	-.9524	RRF	-.9453	RTF	.9864						
SGB	6065.4	R23	.0071	R13	-.9865						
SG1	6054.0	SG2	371.9	THA	168.67						

ORBIT DETERMINATION ACCURACY

ST	2402.6	SR	365.6	SS	1380.5						
CRT	-.7926	CRS	.7403	CST	-.9966						
LSA	2784.0	MSA	247.6	SSA	14.1						
EL1	2420.2	EL2	221.3	ALF	173.06						

LAUNCH DATE OCT 3 1965 FLIGHT TIME 200.00 ARRIVAL DATE APR 21 1966

HELIOCENTRIC CONIC DISTANCE 555.095

RL	149.68	LAL	.00	LOL	9.58	VL	27.152	GAL	5.84	AZL	89.64	HCA	252.67	SMA	128.09	ECC	.19614	INC	.3644	VI	29.769
RP	108.69	LAP	-.35	LOP	262.25	VP	37.495	GAP	7.25	AZP	90.11	TAL	154.60	TAP	47.27	RCA	102.96	APO	153.21	V2	34.865
RC	119.206	GL	2.31	GP	22.63	ZAL	40.26	ZAP	145.68	ETS	34.58	ZAE	122.52	ETE	165.58	ZAC	23.68	ETC	193.66	CLP	-153.48

PLANETOCENTRIC CONIC

C3	18.245	VHL	4.271	DLA	-9.53	RAL	330.68	RAD	6567.7	VEL	11.816	PTH	2.09	VHP	5.510	DPA	-1.38	RAP	288.57	ECC	1.3003

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 49 55	1892.62	-10.68	22.04	189.32	116.38	10 21 27	1292.6	-7.05	15.24
90.00	19 23 6	5136.83	25.20	228.86	193.38	76.65	20 48 43	4536.8	23.12	220.81
100.00	11 6 34	1645.30	-11.71	3.32	188.79	117.70	11 34 0	1045.3	-7.91	356.59
100.00	20 49 7	4859.39	26.32	208.14	193.07	75.29	22 10 7	4259.4	24.04	200.08
110.00	12 4 10	1464.94	-14.41	348.06	187.22	121.34	12 28 35	864.9	-10.16	341.55
110.00	22 8 1	4612.50	29.30	188.39	192.07	71.54	23 24 53	4012.5	26.50	180.33

DIFFERENTIAL CORRECTIONS

TDE	1.5032	TRA	3.7104	TC3	-3.1110	BAU	.7649												
RDE	-.0420	RRA	-.8044	RC3	.3936	FAU	.04300												
FDE	1.8032	FRA	3.8288	FC3	-2.0405	BSP	19585												
BDE	1.5038	BRA	3.7966	BC3	3.1358	FSP	-1841												

MID-COURSE EXECUTION ACCURACY

SGT	6049.6	SGR	1146.0	SG3	518.5						
RRT	-.9417	RRF	-.9336	RTF	.9859						
SGB	6157.2	R23	.0043	R13	-.9860						
SG1	6145.5	SG2	379.4	THA	169.85						

ORBIT DETERMINATION ACCURACY

ST	2522.8	SR	333.2	SS	1371.1						
CRT	-.7274	CRS	.6771	CST	-.9974						
LSA	2879.9	MSA	246.9	SSA	14.0						
EL1	2534.5	EL2	227.6	ALF	174.47						

LAUNCH DATE OCT 3 1965 FLIGHT TIME 202.00 ARRIVAL DATE APR 23 1966

HELIOCENTRIC CONIC DISTANCE 560.982

RL	149.68	LAL	.00	LOL	9.58	VL	27.131	GAL	6.16	AZL	89.45	HCA	255.84	SMA	127.95	ECC	.20005	INC	.5510	VI	29.769
RP	108.72	LAP	-.53	LOP	265.42	VP	37.472	GAP	7.68	AZP	90.13	TAL	153.72	TAP	49.57	RCA	102.35	APO	153.54	V2	34.856
RC	121.557	GL	3.37	GP	21.39	ZAL	39.44	ZAP	147.78	ETS	35.44	ZAE	121.97	ETE	166.63	ZAC	24.57	ETC	189.83	CLP	-155.32

PLANETOCENTRIC CONIC

C3	19.481	VHL	4.414	DLA	-8.23	RAL	331.14	RAD	6567.8	VEL	11.869	PTH	2.11	VHP	5.715	DPA	-2.51	RAP	289.92	ECC	1.3206

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 41 25	1950.27	-12.40	25.40	190.79	115.66	10 13 55	1350.3	-8.85	18.52
90.00	19 35 17	5110.03	24.77	227.01	194.48	75.82	21 0 27	4510.0	22.58	219.03
100.00	10 58 47	1700.70	-13.44	6.52	190.26	116.95	11 27 7	1100.7	-9.72	359.71
100.00	21 0 37	4834.84	25.89	206.45	194.15	74.50	22 21 11	4234.8	23.51	198.45
110.00	11 57 57	1515.43	-16.18	350.91	188.71	120.53	12 23 12	915.4	-12.00	344.29
110.00	22 17 56	4592.87	28.87	187.03	193.11	70.84	23 34 29	3992.9	25.98	179.04

DIFFERENTIAL CORRECTIONS

TDE	1.6489	TRA	3.9232	TC3	-2.9567	BAU	.7750												
RDE	-.0201	RRA	-.7761	RC3	.3348	FAU	.03879												
FDE	1.7956	FRA	3.7429	FC3	-1.7241	BSP	19838												
BDE	1.6490	BRA	3.9992	BC3	2.9756	FSP	-1727												

MID-COURSE EXECUTION ACCURACY

SGT	6154.1	SGR	1060.3	SG3	487.6						
RRT	-.9295	RRF	-.9204	RTF	.9854						
SGB	6244.7	R23	.0025	R13	-.9855						
SG1	6232.8	SG2	386.1	THA	170.87						

ORBIT DETERMINATION ACCURACY

ST	2640.2	SR	306.6	SS	1361.7						
CRT	-.6521	CRS	.6042	CST	-.9980						
LSA	2976.3	MSA	246.1	SSA	14.0						
EL1	2647.9	EL2	231.8	ALF	175.64						

LAUNCH DATE OCT 3 1965 FLIGHT TIME 204.00 ARRIVAL DATE APR 25 1966

HELIOCENTRIC CONIC DISTANCE 566.832

RL	149.68	LAL	.00	LOL	9.58	VL	27.110	GAL	6.50	AZL	89.27	HCA	259.01	SMA	127.81	ECC	.20427	INC	.7324	VI	29.769
RP	108.75	LAP	-.72	LOP	268.59	VP	37.448	GAP	8.12	AZP	90.14	TAL	152.83	TAP	51.84	RCA	101.70	APO	153.92	V2	34.846
RC	123.903	GL	4.32	GP	20.26	ZAL	38.64	ZAP	149.76	ETS	36.38	ZAE	121.45	ETE	167.54	ZAC	25.66	ETC	186.49	CLP	-157.06

PLANETOCENTRIC CONIC

C3	20.866	VHL	4.568	DLA	-7.02	RAL	331.63	RAD	6567.8	VEL	11.927	PTH	2.12	VHP	5.934	DPA	-3.50	RAP	291.36	ECC	1.3434

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 34 3	2005.05	-14.00	28.63	192.41	114.87	10 7 28	1405.1	-10.53	21.67
90.00	19 46 37	5088.02	24.39	225.51	195.72	75.16	21 11 25	4488.0	22.12	217.58
100.00	10 52 2	1753.48	-15.04	9.62	191.89	116.14	11 21 15	1153.5	-11.41	2.71
100.00	21 11 19	4814.82	25.51	205.07	195.38	73.87	22 31 34	4214.8	23.06	197.14
110.00	11 52 36	1563.84	-17.83	353.69	190.35	119.66	12 18 40	963.8	-13.75	346.96
110.00	22 27 14	4577.22	28.51	185.95	194.29	70.29	23 43 31	3977.2	25.56	178.01

DIFFERENTIAL CORRECTIONS

TDE	1.7938	TRA	4.1406	TC3	-2.8015	BAU	.7856												
RDE	.0026	RRA	-.7506	RC3	.2862	FAU	.03503												
FDE	1.7787	FRA	3.6554	FC3	-1.4532	BSP	20162												
BDE	1.7939	BRA	4.2081	BC3	2.8161	FSP	-1627												

MID-COURSE EXECUTION ACCURACY

SGT	6244.7	SGR	983.9	SG3	457.9						
RRT	-.9156	RRF	-.9056	RTF	.9849						
SGB	6321.7	R23	.0008	R13	-.9849						
SG1	6309.6	SG2	391.7	THA	171.76						

ORBIT DETERMINATION ACCURACY

ST	2744.6	SR	284.7	SS	1346.8						
CRT	-.5630	CRS	.5180	CST	-.9985						
LSA	3060.6	MSA	245.3	SSA	13.9						
EL1	2749.3	EL2	234.9	ALF	176.63						

LAUNCH DATE OCT 3 1965 FLIGHT TIME 206.00 ARRIVAL DATE APR 27 1966

HELIOCENTRIC CONIC DISTANCE 572.641

RL 149.68 LAL .00 LOL 9.58 VL 27.089 GAL 6.87 AZL 89.09 HCA 262.18 SMA 127.67 ECC .20884 INC .9098 V1 29.769
RP 108.78 LAP -.90 LOP 271.76 VP 37.424 GAP 8.57 AZP 90.12 TAL 151.92 TAP 54.10 RCA 101.00 APO 154.33 V2 34.838
RC 126.245 GL 5.18 GP 19.24 ZAL 37.86 ZAP 151.62 ETS 37.40 ZAE 120.96 ETE 168.33 ZAC 26.93 ETC 183.61 CLP-158.73

PLANETOCENTRIC CONIC

C3 22.418 VHL 4.735 DLA -5.92 RAL 332.16 RAD 6567.9 VEL 11.992 PTH 2.14 VHP 6.168 DPA -4.37 RAP 292.88 ECC 1.3689

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 27 39	2057.38	-15.47	31.77	194.16	114.02	10 1 57	1457.4	-12.10	24.71
90.00	19 57 11	5070.29	24.08	224.31	197.10	74.63	21 21 41	4470.3	21.74	216.42
100.00	10 46 12	1804.02	-16.54	12.63	193.65	115.26	11 16 16	1204.0	-13.00	5.62
100.00	21 21 20	4798.88	25.21	203.99	196.74	73.38	22 41 19	4198.9	22.69	196.10
110.00	11 48 1	1610.47	-19.38	356.42	192.13	118.73	12 14 51	1010.5	-15.39	349.56
110.00	22 36 0	4565.20	28.23	185.12	195.62	69.88	23 52 5	3965.2	25.23	177.23

DIFFERENTIAL CORRECTIONS
TOE 1.9432 TRA 4.3683 TC3-2.6389 BAU .7943
ROE .0250 RRA -.7282 RC3 .2445 FAU .03144
FOE 1.7596 FRA 3.5726 FC3-1.2141 BSP 20462
BOE 1.9433 BRA 4.4285 BC3 2.6502 FSP -1531

MID-COURSE EXECUTION ACCURACY
SGT 6325.9 SGR 916.2 SG3 429.8
RRT -.8999 RRF -.8891 RTF .9844
SGB 6391.9 R23 -.0006 R13 -.9844
SG1 6379.6 SG2 396.1 THA 172.54

ORBIT DETERMINATION ACCURACY
ST 2842.0 SR 267.6 SS 1330.8
CRT -.4644 CRS .4226 CST -.9988
LSA 3140.0 MSA 244.4 SSA 13.8
EL1 2844.7 EL2 236.8 ALF 177.48

LAUNCH DATE OCT 3 1965 FLIGHT TIME 208.00 ARRIVAL DATE APR 29 1966

HELIOCENTRIC CONIC DISTANCE 578.406

RL 149.68 LAL .00 LOL 9.58 VL 27.067 GAL 7.26 AZL 88.92 HCA 265.34 SMA 127.52 ECC .21377 INC 1.0844 V1 29.769
RP 108.80 LAP -1.08 LOP 274.92 VP 37.401 GAP 9.04 AZP 90.09 TAL 151.00 TAP 56.34 RCA 100.26 APO 154.78 V2 34.830
RC 128.581 GL 5.94 GP 18.32 ZAL 37.10 ZAP 153.36 ETS 38.53 ZAE 120.50 ETE 169.02 ZAC 28.33 ETC 181.16 CLP-160.32

PLANETOCENTRIC CONIC

C3 24.154 VHL 4.915 DLA -4.90 RAL 332.70 RAD 6568.0 VEL 12.064 PTH 2.16 VHP 6.417 DPA -5.11 RAP 294.48 ECC 1.3975

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 22 6	2107.61	-16.84	34.82	196.03	113.11	9 57 14	1507.6	-13.57	27.67
90.00	20 7 5	5056.45	23.83	223.37	198.59	74.23	21 31 21	4456.5	21.43	215.52
100.00	10 41 8	1852.65	-17.93	15.57	195.53	114.33	11 12 1	1252.7	-14.49	8.46
100.00	21 30 44	4786.65	24.97	203.16	198.22	73.01	22 50 31	4186.6	22.40	195.30
110.00	11 44 6	1655.55	-20.83	359.11	194.02	117.74	12 11 41	1055.5	-16.95	352.13
110.00	22 44 16	4556.52	28.03	184.53	197.06	69.58	24 0 12	3956.5	24.99	176.67

DIFFERENTIAL CORRECTIONS
TOE 2.0968 TRA 4.6069 TC3-2.4717 BAU .8010
ROE .0472 RRA -.7085 RC3 .2086 FAU .02804
FOE 1.7389 FRA 3.4946 FC3-1.0050 BSP 20735
BOE 2.0974 BRA 4.6610 BC3 2.4805 FSP -1440

MID-COURSE EXECUTION ACCURACY
SGT 6398.1 SGR 855.7 SG3 403.5
RRT -.8826 RRF -.8711 RTF .9840
SGB 6455.0 R23 -.0016 R13 -.9840
SG1 6442.7 SG2 399.5 THA 173.24

ORBIT DETERMINATION ACCURACY
ST 2931.9 SR 254.8 SS 1313.8
CRT -.3591 CRS .3210 CST -.9991
LSA 3213.7 MSA 243.2 SSA 13.7
EL1 2933.3 EL2 237.7 ALF 178.21

LAUNCH DATE OCT 3 1965 FLIGHT TIME 210.00 ARRIVAL DATE MAY 1 1966

HELIOCENTRIC CONIC DISTANCE 584.123

RL 149.68 LAL .00 LOL 9.58 VL 27.045 GAL 7.69 AZL 88.74 HCA 268.51 SMA 127.37 ECC .21910 INC 1.2574 V1 29.769
RP 108.82 LAP -1.26 LOP 278.09 VP 37.378 GAP 9.52 AZP 90.03 TAL 150.07 TAP 58.57 RCA 99.47 APO 155.28 V2 34.822
RC 130.911 GL 6.61 GP 17.48 ZAL 36.35 ZAP 155.00 ETS 39.79 ZAE 120.07 ETE 169.63 ZAC 29.85 ETC 179.08 CLP-161.84

PLANETOCENTRIC CONIC

C3 26.098 VHL 5.109 DLA -3.96 RAL 333.26 RAD 6568.1 VEL 12.144 PTH 2.18 VHP 6.682 DPA -5.74 RAP 296.15 ECC 1.4295

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 17 17	2156.03	-18.11	37.81	198.01	112.15	9 53 13	1556.0	-14.94	30.56
90.00	20 16 23	5046.18	23.63	222.68	200.18	73.93	21 40 29	4446.2	21.20	214.85
100.00	10 36 46	1899.62	-19.22	18.46	197.52	113.35	11 8 26	1299.6	-15.90	11.24
100.00	21 39 35	4777.82	24.79	202.56	199.80	72.74	22 59 13	4177.8	22.19	194.73
110.00	11 40 46	1699.30	-22.19	1.77	196.04	116.69	12 9 5	1099.3	-18.43	354.66
110.00	22 52 5	4550.90	27.89	184.15	198.61	69.39	24 7 56	3950.9	24.83	176.31

DIFFERENTIAL CORRECTIONS
TOE 2.2556 TRA 4.8579 TC3-2.3012 BAU .8053
ROE .0692 RRA -.6908 RC3 .1775 FAU .02481
FOE 1.7175 FRA 3.4225 FC3 -.8230 BSP 20983
BOE 2.2567 BRA 4.9068 BC3 2.3080 FSP -1354

MID-COURSE EXECUTION ACCURACY
SGT 6461.9 SGR 801.3 SG3 378.8
RRT -.8636 RRF -.8515 RTF .9835
SGB 6511.4 R23 -.0024 R13 -.9835
SG1 6499.0 SG2 401.7 THA 173.86

ORBIT DETERMINATION ACCURACY
ST 3014.8 SR 245.6 SS 1296.5
CRT -.2511 CRS .2170 CST -.9993
LSA 3282.0 MSA 241.7 SSA 13.6
EL1 3015.5 EL2 237.7 ALF 178.82

LAUNCH DATE OCT 3 1965 FLIGHT TIME 212.00 ARRIVAL DATE MAY 3 1966

HELIOCENTRIC CONIC DISTANCE 589.788

RL 149.68 LAL .00 LOL 9.58 VL 27.022 GAL 8.14 AZL 88.57 HCA 271.67 SMA 127.22 ECC .22486 INC 1.4299 V1 29.769
RP 108.85 LAP -1.43 LOP 281.25 VP 37.355 GAP 10.03 AZP 89.96 TAL 149.12 TAP 60.79 RCA 98.62 APO 155.83 V2 34.816
RC 133.236 GL 7.21 GP 16.72 ZAL 35.61 ZAP 156.55 ETS 41.20 ZAE 119.65 ETE 170.16 ZAC 31.46 ETC 177.34 CLP-163.32

PLANETOCENTRIC CONIC

C3 28.275 VHL 5.317 DLA -3.10 RAL 333.84 RAD 6568.1 VEL 12.233 PTH 2.20 VHP 6.963 DPA -6.26 RAP 297.87 ECC 1.4653

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 13 7	2202.86	-19.28	40.74	200.09	111.15	9 49 50	1602.9	-16.24	33.39
90.00	20 25 8	5039.18	23.50	222.21	201.88	73.73	21 49 7	4439.2	21.05	214.40
100.00	10 33 1	1945.13	-20.42	21.31	199.61	112.32	11 5 26	1345.1	-17.22	13.98
100.00	21 47 55	4772.14	24.67	202.18	201.49	72.57	23 7 27	4172.1	22.06	194.36
110.00	11 37 56	1741.88	-23.47	4.42	198.15	115.60	12 6 58	1141.9	-19.83	357.17
110.00	22 59 29	4548.15	27.83	183.96	200.27	69.30	24 15 17	3948.2	24.76	176.14

DIFFERENTIAL CORRECTIONS
TOE 2.4229 TRA 5.1253 TC3-2.1265 BAU .8058
ROE .0907 RRA -.6752 RC3 .1501 FAU .02165
FOE 1.6986 FRA 3.3584 FC3 -.6630 BSP 21132
BOE 2.4246 BRA 5.1695 BC3 2.1318 FSP -1267

MID-COURSE EXECUTION ACCURACY
SGT 6520.6 SGR 752.3 SG3 356.0
RRT -.8431 RRF -.8304 RTF .9831
SGB 6563.8 R23 -.0030 R13 -.9831
SG1 6551.5 SG2 402.6 THA 174.42

ORBIT DETERMINATION ACCURACY
ST 3094.1 SR 239.5 SS 1280.7
CRT -.1458 CRS .1157 CST -.9995
LSA 3348.6 MSA 239.8 SSA 13.4
EL1 3094.3 EL2 236.9 ALF 179.35

LAUNCH DATE OCT 3 1965 FLIGHT TIME 214.00 ARRIVAL DATE MAY 5 1966

HELIOCENTRIC CONIC DISTANCE 595.392

RL 149.68 LAL .00 LOL 9.58 VL 26.999 GAL 8.62 AZL 88.40 HCA 274.83 SMA 127.07 ECC .23111 INC 1.6028 VI 29.769
RP 108.87 LAP -1.60 LOP 284.41 VP 37.333 GAP 10.56 AZP 89.86 TAL 148.18 TAP 63.01 RCA 97.71 APO 156.44 V2 34.809
RC 135.553 GL 7.74 GP 16.02 ZAL 34.90 ZAP 158.01 ETS 42.80 ZAE 119.26 ETE 170.63 ZAC 33.14 ETC 175.87 CLP-164.74

PLANETOCENTRIC CONIC

C3 30.717 VHL 5.542 DLA -2.31 RAL 334.42 RAD 6568.2 VEL 12.332 PTH 2.22 VHP 7.262 DPA -6.69 RAP 299.64 ECC 1.5055

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 9 31	2248.29	-20.37	43.63	202.27	110.10	9 47 0	1648.3	-17.45	36.17
90.00	20 33 22	5035.23	23.43	221.94	203.66	73.62	21 57 17	4435.2	20.96	214.14
100.00	10 29 48	1989.36	-21.54	24.12	201.80	111.24	11 2 57	1389.4	-18.46	16.67
100.00	21 55 47	4769.40	24.62	202.00	203.26	72.49	23 15 17	4169.4	21.99	194.18
110.00	11 35 34	1783.44	-24.67	7.05	200.37	114.45	12 5 18	1183.4	-21.16	359.66
110.00	23 6 30	4548.08	27.83	183.96	202.02	69.29	24 22 18	3948.1	24.75	176.13

DIFFERENTIAL CORRECTIONS
TDE 2.5924 TRA 5.4031 TC3-1.9578 BAU .8057
RDE .1127 RRA -.6603 RC3 .1270 FAU .01881
FDE 1.6769 FRA 3.2970 FC3 -.5303 BSP 21352
BDE 2.5948 BRA 5.4433 BC3 1.9619 FSP -1192

MID-COURSE EXECUTION ACCURACY
SGT 6568.3 SGR 707.2 SG3 334.5
RRT -.8207 RRF -.8077 RTF .9828
SGB 6606.2 R23 -.0035 R13 -.9828
SG1 6593.9 SG2 402.4 THA 174.93

ORBIT DETERMINATION ACCURACY
ST 3162.1 SR 235.8 SS 1263.1
CRT -.0426 CRS .0165 CST -.9996
LSA 3404.9 MSA 237.6 SSA 13.3
EL1 3162.2 EL2 235.6 ALF 179.82

LAUNCH DATE OCT 3 1965 FLIGHT TIME 216.00 ARRIVAL DATE MAY 7 1966

HELIOCENTRIC CONIC DISTANCE 600.930

RL 149.68 LAL .00 LOL 9.58 VL 26.976 GAL 9.14 AZL 88.22 HCA 277.99 SMA 126.92 ECC .23788 INC 1.7772 VI 29.769
RP 108.88 LAP -1.76 LOP 287.57 VP 37.311 GAP 11.11 AZP 89.75 TAL 147.23 TAP 65.22 RCA 96.73 APO 157.11 V2 34.804
RC 137.863 GL 8.21 GP 15.39 ZAL 34.20 ZAP 159.39 ETS 44.60 ZAE 118.89 ETE 171.05 ZAC 34.88 ETC 174.63 CLP-166.12

PLANETOCENTRIC CONIC

C3 33.462 VHL 5.785 DLA -1.58 RAL 335.01 RAD 6568.3 VEL 12.443 PTH 2.25 VHP 7.581 DPA -7.03 RAP 301.45 ECC 1.5507

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 6 26	2292.48	-21.38	46.48	204.53	109.02	9 44 39	1692.5	-18.59	38.92
90.00	20 41 8	5034.13	23.40	221.87	205.53	73.59	22 5 2	4434.1	20.93	214.07
100.00	10 27 3	2032.45	-22.58	26.90	204.07	110.13	11 0 56	1432.4	-19.63	19.34
100.00	22 3 12	4769.39	24.62	202.00	205.12	72.49	23 22 42	4169.4	21.99	194.18
110.00	11 33 37	1824.08	-25.79	9.68	202.67	113.26	12 4 1	1224.1	-22.41	2.15
110.00	23 13 8	4550.52	27.88	184.12	203.86	69.38	24 28 58	3950.5	24.82	176.29

DIFFERENTIAL CORRECTIONS
TDE 2.7688 TRA 5.6974 TC3-1.7910 BAU .8026
RDE .1348 RRA -.6462 RC3 .1068 FAU .01614
FDE 1.6563 FRA 3.2419 FC3 -.4175 BSP 21547
BDE 2.7721 BRA 5.7339 BC3 1.7942 FSP -1121

MID-COURSE EXECUTION ACCURACY
SGT 6609.4 SGR 665.6 SG3 314.4
RRT -.7966 RRF -.7833 RTF .9826
SGB 6642.8 R23 -.0038 R13 -.9826
SG1 6630.7 SG2 401.1 THA 175.40

ORBIT DETERMINATION ACCURACY
ST 3223.8 SR 234.0 SS 1246.2
CRT .0539 CRS -.0761 CST -.9997
LSA 3456.2 MSA 235.0 SSA 13.0
EL1 3223.8 EL2 233.6 ALF .23

LAUNCH DATE OCT 3 1965 FLIGHT TIME 218.00 ARRIVAL DATE MAY 9 1966

HELIOCENTRIC CONIC DISTANCE 606.392

RL 149.68 LAL .00 LOL 9.58 VL 26.953 GAL 9.70 AZL 88.05 HCA 281.15 SMA 126.77 ECC .24523 INC 1.9544 VI 29.769
RP 108.90 LAP -1.92 LOP 290.74 VP 37.230 GAP 11.69 AZP 89.62 TAL 146.28 TAP 67.43 RCA 95.68 APO 157.86 V2 34.799
RC 140.164 GL 8.62 GP 14.82 ZAL 33.52 ZAP 160.69 ETS 46.65 ZAE 118.52 ETE 171.43 ZAC 36.66 ETC 173.59 CLP-167.47

PLANETOCENTRIC CONIC

C3 36.555 VHL 6.046 DLA -.91 RAL 335.59 RAD 6568.4 VEL 12.567 PTH 2.28 VHP 7.921 DPA -7.29 RAP 303.29 ECC 1.6016

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 3 49	2335.54	-22.31	49.29	206.87	107.91	9 42 44	1735.5	-19.65	41.63
90.00	20 48 26	5035.71	23.43	221.98	207.47	73.63	22 12 21	4435.7	20.97	214.17
100.00	10 24 44	2074.51	-23.53	29.65	206.43	108.98	10 59 19	1474.5	-20.73	21.98
100.00	22 10 11	4771.97	24.67	202.17	207.06	72.56	23 29 43	4172.0	22.05	194.35
110.00	11 32 1	1863.91	-26.83	12.31	205.06	112.02	12 3 5	1263.9	-23.60	4.63
110.00	23 19 24	4555.33	28.00	184.45	205.78	69.54	24 35 19	3955.3	24.96	176.60

DIFFERENTIAL CORRECTIONS
TDE 2.9528 TRA 6.0092 TC3-1.6272 BAU .7964
RDE .1571 RRA -.6324 RC3 .0892 FAU .01360
FDE 1.6371 FRA 3.1928 FC3 -.3220 BSP 21722
BDE 2.9570 BRA 6.0424 BC3 1.6296 FSP -1054

MID-COURSE EXECUTION ACCURACY
SGT 6643.7 SGR 626.9 SG3 295.7
RRT -.7705 RRF -.7572 RTF .9825
SGB 6673.2 R23 -.0041 R13 -.9825
SG1 6661.3 SG2 398.6 THA 175.83

ORBIT DETERMINATION ACCURACY
ST 3279.2 SR 233.5 SS 1230.2
CRT .1426 CRS -.1613 CST -.9998
LSA 3502.4 MSA 232.0 SSA 12.8
EL1 3279.3 EL2 231.1 ALF .58

LAUNCH DATE OCT 3 1965 FLIGHT TIME 220.00 ARRIVAL DATE MAY 11 1966

HELIOCENTRIC CONIC DISTANCE 611.769

RL 149.68 LAL .00 LOL 9.58 VL 26.929 GAL 10.31 AZL 87.86 HCA 284.31 SMA 126.62 ECC .25322 INC 2.1354 VI 29.769
RP 108.91 LAP -2.07 LOP 293.90 VP 37.269 GAP 12.31 AZP 89.47 TAL 145.35 TAP 69.66 RCA 94.56 APO 158.68 V2 34.795
RC 142.456 GL 8.98 GP 14.29 ZAL 32.86 ZAP 161.91 ETS 48.97 ZAE 118.17 ETE 171.77 ZAC 38.48 ETC 172.72 CLP-168.80

PLANETOCENTRIC CONIC

C3 40.049 VHL 6.328 DLA -.29 RAL 336.17 RAD 6568.5 VEL 12.705 PTH 2.31 VHP 8.285 DPA -7.47 RAP 305.15 ECC 1.6591

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 1 36	2377.58	-23.16	52.08	209.28	106.76	9 41 14	1777.6	-20.65	44.31
90.00	20 55 17	5039.80	23.51	222.25	209.48	73.75	22 19 17	4439.8	21.06	214.44
100.00	10 22 48	2115.64	-24.42	32.39	208.85	107.80	10 58 4	1515.6	-21.75	24.60
100.00	22 16 46	4776.98	24.77	202.51	209.06	72.71	23 36 23	4177.0	22.17	194.67
110.00	11 30 44	1903.00	-27.80	14.93	207.53	110.74	12 2 27	1303.0	-24.72	7.11
110.00	23 25 19	4562.38	28.17	184.93	207.78	69.78	24 41 22	3962.4	25.15	177.05

DIFFERENTIAL CORRECTIONS
TDE 3.1448 TRA 6.3403 TC3-1.4673 BAU .7866
RDE .1797 RRA -.6186 RC3 .0739 FAU .01120
FDE 1.6195 FRA 3.1500 FC3 -.2420 BSP 21877
BDE 3.1500 BRA 6.3704 BC3 1.4692 FSP -991

MID-COURSE EXECUTION ACCURACY
SGT 6671.5 SGR 590.7 SG3 278.3
RRT -.7423 RRF -.7291 RTF .9825
SGB 6697.6 R23 -.0042 R13 -.9825
SG1 6685.9 SG2 394.9 THA 176.23

ORBIT DETERMINATION ACCURACY
ST 3328.0 SR 233.9 SS 1215.3
CRT .2233 CRS -.2388 CST -.9998
LSA 3543.3 MSA 228.6 SSA 12.6
EL1 3328.4 EL2 228.0 ALF .30

LAUNCH DATE OCT 4 1965 FLIGHT TIME 70.00 ARRIVAL DATE DEC 13 1965

HELIOCENTRIC CONIC DISTANCE 136.127

RL 149.63 LAL .00 LOL 10.56 VL 17.485 GAL 18.95 AZL 91.85 HCA 43.73 SMA 90.40 ECC .63973 INC 1.8488 V1 29.778
RP 108.04 LAP -1.28 LOP 54.28 VP 31.442 GAP -43.25 AZP 91.34 TAL 171.30 TAP 215.03 RCA 27.14 APO 153.65 V2 35.076
RC 69.906 GL -2.09 GP -4.16 ZAL 65.02 ZAP 30.14 ETS 169.42 ZAE 139.48 ETE 182.36 ZAC 18.43 ETC 82.72 CLP 29.88

PLANETOCENTRIC CONIC

C3 213.886 VHL 14.625 DLA -20.91 RAL 308.48 RAD 6571.2 VEL 18.309 PTH 3.03 VHP 24.642 DPA -27.91 RAP 263.08 ECC 4.5200

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 5 8	2026.64	-14.61	29.92	202.56	114.53	10 38 55	1426.6	-11.18	22.92
90.00	16 2 55	816.13	21.40	319.38	216.66	109.00	16 16 31	216.1	23.80	311.53
100.00	11 12 30	1809.24	-16.69	12.94	201.56	115.17	11 42 39	1209.2	-13.16	5.93
100.00	17 38 14	5796.80	23.57	275.48	217.46	108.94	19 14 51	5196.8	25.93	267.48
110.00	11 51 8	1688.13	-21.85	1.09	198.89	116.97	12 19 17	1088.1	-18.06	354.01
110.00	19 16 5	5490.67	29.00	254.31	219.54	108.94	20 47 36	4890.7	31.31	245.87

DIFFERENTIAL CORRECTIONS
TDE -.4895 TRA-1.7134 TC3 -.1183 BAU .3384
RDE-1.0797 RRA .4002 RC3 -.0029 FAU .01242
FOE .2125 FRA .6798 FC3 -.0503 BSP 2135
BDE 1.1855 BRA 1.7596 BC3 .1183 FSP -59

MID-COURSE EXECUTION ACCURACY
SGT 820.3 SGR 455.2 SG3 28.6
RRT -.0979 RRF .0920 RTF -.6252
SGB 938.1 R23 -.0041 R13 .6260
SG1 822.1 SG2 452.0 THA 175.54

ORBIT DETERMINATION ACCURACY
ST 288.7 SR 426.0 SS 254.3
CRT .5714 CRS .6074 CST .9963
LSA 512.2 MSA 258.8 SSA 13.9
EL1 467.0 EL2 216.1 ALF 62.46

LAUNCH DATE OCT 4 1965 FLIGHT TIME 72.00 ARRIVAL DATE DEC 15 1965

HELIOCENTRIC CONIC DISTANCE 141.973

RL 149.63 LAL .00 LOL 10.56 VL 18.185 GAL 18.16 AZL 91.51 HCA 46.94 SMA 91.96 ECC .67247 INC 1.5051 V1 29.778
RP 108.00 LAP -1.10 LOP 57.49 VP 31.851 GAP -41.27 AZP 91.03 TAL 170.55 TAP 217.49 RCA 30.12 APO 153.80 V2 35.089
RC 67.813 GL -1.87 GP -4.29 ZAL 63.77 ZAP 28.65 ETS 168.75 ZAE 139.76 ETE 183.01 ZAC 18.52 ETC 87.91 CLP 28.35

PLANETOCENTRIC CONIC

C3 194.458 VHL 13.945 DLA -20.38 RAL 309.71 RAD 6571.1 VEL 17.770 PTH 2.99 VHP 23.678 DPA -28.20 RAP 264.96 ECC 4.2003

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 3 46	2035.10	-14.85	30.43	202.76	114.39	10 37 41	1435.1	-11.43	23.41
90.00	16 14 7	778.54	22.21	316.93	216.85	108.03	16 27 5	178.5	24.47	308.98
100.00	11 11 50	1815.42	-16.87	13.31	201.79	115.05	11 42 5	1215.4	-13.35	6.29
100.00	17 48 43	5761.50	24.33	273.14	217.60	107.93	19 24 45	5161.5	26.55	265.04
110.00	11 51 46	1690.27	-21.92	1.22	199.19	116.91	12 19 56	1090.3	-18.13	354.13
110.00	19 25 17	5459.41	29.67	252.13	219.53	107.81	20 56 16	4859.4	31.82	243.57

DIFFERENTIAL CORRECTIONS
TDE -.4995 TRA-1.7235 TC3 -.1255 BAU .3264
RDE-1.0353 RRA .4024 RC3 -.0042 FAU .01255
FOE .2285 FRA .7062 FC3 -.0559 BSP 2315
BDE 1.1495 BRA 1.7699 BC3 .1256 FSP -66

MID-COURSE EXECUTION ACCURACY
SGT 857.5 SGR 460.6 SG3 31.0
RRT -.1059 RRF .0997 RTF -.6449
SGB 973.4 R23 -.0044 R13 .6457
SG1 859.4 SG2 457.0 THA 175.46

ORBIT DETERMINATION ACCURACY
ST 305.9 SR 428.6 SS 270.3
CRT .5743 CRS .6183 CST .9961
LSA 528.5 MSA 266.3 SSA 14.1
EL1 475.8 EL2 225.6 ALF 60.45

LAUNCH DATE OCT 4 1965 FLIGHT TIME 74.00 ARRIVAL DATE DEC 17 1965

HELIOCENTRIC CONIC DISTANCE 147.917

RL 149.63 LAL .00 LOL 10.56 VL 18.840 GAL 17.39 AZL 91.20 HCA 50.15 SMA 93.53 ECC .64570 INC 1.1954 V1 29.778
RP 107.96 LAP -.92 LOP 60.71 VP 32.244 GAP -39.39 AZP 90.77 TAL 169.82 TAP 219.97 RCA 33.14 APO 153.93 V2 35.101
RC 65.751 GL -1.62 GP -4.42 ZAL 62.57 ZAP 27.18 ETS 168.00 ZAE 140.14 ETE 183.73 ZAC 18.77 ETC 93.09 CLP 26.85

PLANETOCENTRIC CONIC

C3 176.887 VHL 13.300 DLA -19.83 RAL 310.87 RAD 6570.9 VEL 17.269 PTH 2.95 VHP 22.750 DPA -28.48 RAP 266.88 ECC 3.9111

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 2 7	2042.93	-15.07	30.90	202.85	114.26	10 36 10	1442.9	-11.67	23.87
90.00	16 25 0	740.13	23.00	314.39	216.88	106.99	16 37 21	140.1	25.11	306.35
100.00	11 10 52	1821.08	-17.03	13.65	201.92	114.94	11 41 13	1221.1	-13.53	6.62
100.00	17 58 57	5725.26	25.07	270.70	217.57	106.84	19 34 22	5125.3	27.13	262.51
110.00	11 52 4	1691.99	-21.97	1.32	199.37	116.87	12 20 16	1092.0	-18.19	354.23
110.00	19 34 14	5427.11	30.32	249.84	219.35	106.59	21 4 42	4827.1	32.29	241.17

DIFFERENTIAL CORRECTIONS
TDE -.5116 TRA-1.7369 TC3 -.1333 BAU .3156
RDE -.9911 RRA .4036 RC3 -.0058 FAU .01268
FOE .2453 FRA .7335 FC3 -.0621 BSP 2427
BDE 1.1153 BRA 1.7832 BC3 .1335 FSP -72

MID-COURSE EXECUTION ACCURACY
SGT 898.4 SGR 465.5 SG3 33.6
RRT -.1134 RRF .1079 RTF -.6637
SGB 1011.8 R23 -.0057 R13 .6645
SG1 900.5 SG2 461.4 THA 175.44

ORBIT DETERMINATION ACCURACY
ST 325.0 SR 430.5 SS 287.2
CRT .5779 CRS .6284 CST .9958
LSA 546.5 MSA 273.2 SSA 14.3
EL1 485.4 EL2 235.2 ALF 58.12

LAUNCH DATE OCT 4 1965 FLIGHT TIME 76.00 ARRIVAL DATE DEC 19 1965

HELIOCENTRIC CONIC DISTANCE 153.953

RL 149.63 LAL .00 LOL 10.56 VL 19.453 GAL 16.64 AZL 90.91 HCA 53.36 SMA 95.10 ECC .61950 INC .9132 V1 29.778
RP 107.92 LAP -.73 LOP 63.92 VP 32.619 GAP -37.61 AZP 90.55 TAL 169.11 TAP 222.47 RCA 36.19 APO 154.02 V2 35.114
RC 63.722 GL -1.34 GP -4.57 ZAL 61.43 ZAP 25.74 ETS 167.14 ZAE 140.61 ETE 184.53 ZAC 19.18 ETC 98.15 CLP 25.36

PLANETOCENTRIC CONIC

C3 160.974 VHL 12.688 DLA -19.26 RAL 311.96 RAD 6570.7 VEL 16.802 PTH 2.90 VHP 21.854 DPA -28.75 RAP 268.83 ECC 3.6492

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 0 12	2050.17	-15.27	31.33	202.84	114.14	10 34 23	1450.2	-11.88	24.29
90.00	16 35 37	700.87	23.76	311.76	216.75	105.88	16 47 18	100.9	25.71	303.63
100.00	11 9 36	1826.22	-17.18	13.97	201.93	114.85	11 40 2	1226.2	-13.69	6.92
100.00	18 8 54	5688.08	25.77	268.16	217.37	105.69	19 43 42	5088.1	27.68	259.88
110.00	11 52 2	1693.29	-22.01	1.40	199.45	116.84	12 20 15	1093.3	-18.23	354.31
110.00	19 42 58	5393.78	30.95	247.44	219.00	105.30	21 12 52	4793.8	32.73	238.67

DIFFERENTIAL CORRECTIONS
TDE -.5206 TRA-1.7481 TC3 -.1406 BAU .3031
RDE -.9472 RRA .4038 RC3 -.0078 FAU .01285
FOE .2624 FRA .7613 FC3 -.0691 BSP 2604
BDE 1.0808 BRA 1.7941 BC3 .1408 FSP -80

MID-COURSE EXECUTION ACCURACY
SGT 939.1 SGR 469.8 SG3 36.4
RRT -.1223 RRF .1169 RTF -.6821
SGB 1050.0 R23 -.0064 R13 .6829
SG1 941.4 SG2 465.1 THA 175.36

ORBIT DETERMINATION ACCURACY
ST 344.0 SR 431.7 SS 304.5
CRT .5794 CRS .6371 CST .9953
LSA 564.8 MSA 279.5 SSA 14.5
EL1 494.8 EL2 244.6 ALF 55.79

LAUNCH DATE OCT 4 1965 FLIGHT TIME 78.00 ARRIVAL DATE DEC 21 1965

HELIOCENTRIC CONIC DISTANCE 160.075

RL	149.63	LAL	.00	LOL	10.56	VL	20.026	GAL	15.92	AZL	90.65	HCA	56.58	SMA	96.67	ECC	.59395	INC	.6534	VI	29.778
RP	107.89	LAP	-.55	LOP	67.14	VP	32.977	GAP	-35.91	AZP	90.36	TAL	168.42	TAP	224.99	RCA	39.25	APO	154.09	V2	35.126
RC	61.731	GL	-1.04	GP	-4.72	ZAL	60.34	ZAP	24.32	ETS	166.17	ZAE	141.18	ETE	185.43	ZAC	19.75	ETC	103.00	CLP	23.89

PLANETOCENTRIC CONIC

C3 146.551 VHL 12.106 DLA -18.68 RAL 312.98 RAD 6570.6 VEL 16,367 PTH 2.86 VHP 20.990 DPA -29.02 RAP 270.81 ECC 3.4119

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 58 1	2056.85	-15.46	31.74	202.72	114.03	10 32 17	1456.9	-12.08	24.68
90.00	16 45 56	660.72	24.48	309.04	216.45	104.70	16 56 57	60.7	26.26	300.82
100.00	11 8 2	1830.90	-17.31	14.25	201.84	114.76	11 38 33	1230.9	-13.83	7.19
100.00	18 18 36	5649.94	26.45	265.53	217.01	104.46	19 52 46	5049.9	28.18	257.15
110.00	11 51 39	1694.21	-22.04	1.46	199.42	116.82	12 19 53	1094.2	-18.26	354.36
110.00	19 51 28	5359.40	31.54	244.93	218.48	103.93	21 20 47	4759.4	33.13	236.07

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TOE	-.5313	TRA	-1.7617	TC3	-.1484	BAU	.2915	SGT	983.4	SGR	473.4	SG3	39.4	ST	364.8	SR	431.9	SS	322.7
RDE	-.9037	RRA	.4032	RC3	-.0100	FAU	.01303	RRT	-.1311	RRF	.1265	RTF	-.6995	CRT	.5813	CRS	.6451	CST	.9949
FDE	.2803	FRA	.7901	FC3	-.0770	BSP	2726	SGB	1091.4	R23	-.0080	R13	.7003	LSA	585.0	MSA	285.2	SSA	14.7
BDE	1.0483	BRA	1.8073	BC3	.1488	FSP	-88	SG1	986.0	SG2	468.1	THA	175.34	EL1	505.2	EL2	253.8	ALF	53.14

LAUNCH DATE OCT 4 1965 FLIGHT TIME 80.00 ARRIVAL DATE DEC 23 1965

HELIOCENTRIC CONIC DISTANCE 166.277

RL	149.63	LAL	.00	LOL	10.56	VL	20.563	GAL	15.22	AZL	90.41	HCA	59.79	SMA	98.23	ECC	.56911	INC	.4120	VI	29.778
RP	107.85	LAP	-.36	LOP	70.36	VP	33.318	GAP	-34.29	AZP	90.21	TAL	167.75	TAP	227.54	RCA	42.33	APO	154.14	V2	35.138
RC	59.781	GL	-.71	GP	-4.90	ZAL	59.31	ZAP	22.93	ETS	165.04	ZAE	141.85	ETE	186.44	ZAC	20.48	ETC	107.59	CLP	22.43

PLANETOCENTRIC CONIC

C3 133.469 VHL 11.553 DLA -18.08 RAL 313.92 RAD 6570.4 VEL 15,962 PTH 2.82 VHP 20.155 DPA -29.27 RAP 272.82 ECC 3.1966

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 55 31	2063.05	-15.63	32.11	202.49	113.92	10 29 54	1463.1	-12.26	25.05
90.00	16 55 59	619.65	25.16	306.22	215.98	103.44	17 6 19	19.6	26.76	297.92
100.00	11 6 8	1835.17	-17.43	14.51	201.64	114.67	11 36 43	1235.2	-13.96	7.44
100.00	18 28 3	5610.80	27.09	262.79	216.49	103.15	20 1 34	5010.8	28.63	254.33
110.00	11 50 56	1694.78	-22.05	1.50	199.28	116.80	12 19 11	1094.8	-18.28	354.40
110.00	19 59 44	5323.95	32.09	242.32	217.79	102.47	21 28 28	4724.0	33.47	233.36

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TOE	-.5391	TRA	-1.7731	TC3	-.1555	BAU	.2784	SGT	1027.7	SGR	476.4	SG3	42.7	ST	385.5	SR	431.4	SS	341.4
RDE	-.8606	RRA	.4018	RC3	-.0128	FAU	.01324	RRT	-.1414	RRF	.1371	RTF	-.7165	CRT	.5812	CRS	.6521	CST	.9942
FDE	.2987	FRA	.8196	FC3	-.0859	BSP	2908	SGB	1132.8	R23	-.0090	R13	.7174	LSA	605.7	MSA	290.1	SSA	14.9
BDE	1.0155	BRA	1.8180	BC3	.1560	FSP	-97	SG1	1030.5	SG2	470.3	THA	175.26	EL1	515.6	EL2	262.5	ALF	50.49

LAUNCH DATE OCT 4 1965 FLIGHT TIME 82.00 ARRIVAL DATE DEC 25 1965

HELIOCENTRIC CONIC DISTANCE 172.553

RL	149.63	LAL	.00	LOL	10.56	VL	21.065	GAL	14.55	AZL	90.19	HCA	63.02	SMA	99.77	ECC	.54503	INC	.1856	VI	29.778
RP	107.81	LAP	-.17	LOP	73.58	VP	33.642	GAP	-32.74	AZP	90.08	TAL	167.10	TAP	230.12	RCA	45.39	APO	154.15	V2	35.149
RC	57.879	GL	-.34	GP	-5.09	ZAL	58.33	ZAP	21.57	ETS	163.74	ZAE	142.62	ETE	187.57	ZAC	21.35	ETC	111.86	CLP	20.99

PLANETOCENTRIC CONIC

C3 121.597 VHL 11.027 DLA -17.46 RAL 314.80 RAD 6570.3 VEL 15.586 PTH 2.78 VHP 19.348 DPA -29.51 RAP 274.85 ECC 3.0012

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 52 42	2068.85	-15.79	32.46	202.16	113.82	10 27 11	1468.8	-12.43	25.39
90.00	17 5 47	5865.67	25.79	281.21	215.34	102.12	18 43 33	5265.7	27.20	272.83
100.00	11 3 55	1839.09	-17.54	14.75	201.34	114.60	11 34 34	1239.1	-14.08	7.67
100.00	18 37 16	5570.66	27.68	259.96	215.79	101.77	20 10 7	4970.7	29.02	251.41
110.00	11 49 53	1695.07	-22.06	1.51	199.03	116.80	12 18 8	1095.1	-18.29	354.41
110.00	20 7 47	5287.44	32.59	239.59	216.93	100.93	21 35 55	4687.4	33.76	230.55

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TOE	-.5461	TRA	-1.7839	TC3	-.1622	BAU	.2649	SGT	1073.6	SGR	478.8	SG3	46.2	ST	406.9	SR	430.0	SS	360.8
RDE	-.8179	RRA	.3997	RC3	-.0159	FAU	.01348	RRT	-.1525	RRF	.1486	RTF	-.7328	CRT	.5804	CRS	.6581	CST	.9935
FDE	.3177	FRA	.8499	FC3	-.0959	BSP	3096	SGB	1175.5	R23	-.0103	R13	.7337	LSA	627.5	MSA	294.3	SSA	15.0
BDE	.9835	BRA	1.8282	BC3	.1630	FSP	-106	SG1	1076.7	SG2	471.9	THA	175.18	EL1	526.6	EL2	270.6	ALF	47.71

LAUNCH DATE OCT 4 1965 FLIGHT TIME 84.00 ARRIVAL DATE DEC 27 1965

HELIOCENTRIC CONIC DISTANCE 178.899

RL	149.63	LAL	.00	LOL	10.56	VL	21.535	GAL	13.90	AZL	89.97	HCA	66.24	SMA	101.30	ECC	.52175	INC	.0262	VI	29.778
RP	107.78	LAP	.03	LOP	76.80	VP	33.950	GAP	-31.26	AZP	89.99	TAL	166.49	TAP	232.73	RCA	48.45	APO	154.15	V2	35.160
RC	56.028	GL	.06	GP	-5.29	ZAL	57.41	ZAP	20.23	ETS	162.23	ZAE	143.50	ETE	188.86	ZAC	22.34	ETC	115.79	CLP	19.55

PLANETOCENTRIC CONIC

C3 110.822 VHL 10.527 DLA -16.82 RAL 315.60 RAD 6570.1 VEL 15.237 PTH 2.75 VHP 18.568 DPA -29.74 RAP 276.91 ECC 2.8238

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 49 34	2074.35	-15.94	32.79	201.73	113.72	10 24 8	1474.3	-12.60	25.71
90.00	17 15 21	5822.67	26.37	278.19	214.55	100.71	18 52 23	5222.7	27.58	269.74
100.00	11 1 20	1842.77	-17.65	14.97	200.93	114.53	11 32 3	1242.8	-14.19	7.88
100.00	18 46 16	5529.48	28.21	257.01	214.93	100.31	20 18 25	4929.5	29.35	248.39
110.00	11 48 27	1695.16	-22.07	1.52	198.68	116.79	12 16 42	1095.2	-18.29	354.42
110.00	20 15 38	5249.84	33.04	236.75	215.90	99.30	21 43 8	4649.8	33.97	227.63

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TOE	-.5547	TRA	-1.7968	TC3	-.1692	BAU	.2524	SGT	1123.3	SGR	480.6	SG3	50.1	ST	430.4	SR	427.6	SS	381.2
RDE	-.7758	RRA	.3970	RC3	-.0197	FAU	.01373	RRT	-.1638	RRF	.1612	RTF	-.7481	CRT	.5800	CRS	.6636	CST	.9928
FDE	.3377	FRA	.8817	FC3	-.1073	BSP	3234	SGB	1221.8	R23	-.0125	R13	.7490	LSA	651.6	MSA	297.6	SSA	15.2
BDE	.9537	BRA	1.8402	BC3	.1704	FSP	-117	SG1	1126.7	SG2	472.7	THA	175.13	EL1	539.2	EL2	278.0	ALF	44.68

LAUNCH DATE OCT 4 1965 FLIGHT TIME 86.00 ARRIVAL DATE DEC 29 1965

DISTANCE 185.309

HELIOCENTRIC CONIC

RL	149.63	LAL	.00	LOL	10.56	VL	21.974	GAL	13.27	AZL	89.77	HCA	69.46	SMA	102.80	ECC	.49929	INC .2309 VI 29.778
RP	107.75	LAP	.22	LOP	80.03	VP	34.241	GAP	-29.84	AZP	89.92	TAL	165.90	TAP	235.37	RCA	51.47	APO 154.13 V2 35.171
RC	54.237	GL	.49	GP	-5.52	ZAL	56.55	ZAP	18.92	ETS	160.46	ZAE	144.49	ETE	190.33	ZAC	23.46	ETC 119.38 CLP 18.13

PLANETOCENTRIC CONIC

C3 101.039 VHL 10.052 DLA -16.15 RAL 316.34 RAD 6570.0 VEL 14.912 PTH 2.69 VHP 17.814 DPA -29.97 RAP 278.98 ECC 2.6628

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 46 4	2079.66	-16.08	33.12	201.20	113.62	10 20 44	1479.7	-12.75	26.02
90.00	17 24 41	5778.65	26.89	275.08	213.58	99.23	19 0 59	5178.6	27.89	266.55
100.00	10 58 24	1846.30	-17.75	15.18	200.43	114.46	11 29 10	1246.3	-14.30	8.09
100.00	18 55 2	5487.24	28.69	253.96	213.91	98.78	20 26 30	4887.2	29.61	245.28
110.00	11 46 39	1695.14	-22.06	1.52	198.22	116.80	12 14 54	1095.1	-18.29	354.42
110.00	20 23 17	5211.16	33.43	233.79	214.70	97.60	21 50 8	4611.2	34.12	224.62

DIFFERENTIAL CORRECTIONS

TDE -.5605 TRA-1.8068 TC3 -.1750 BAU .2386
RDE -.7341 RRA .3939 RC3 -.0240 FAU .01403
FDE .3585 FRA .9144 FC3 -.1202 BSP 3430
BDE .9236 BRA 1.8493 BC3 .1766 FSP -128

MID-COURSE EXECUTION ACCURACY

SGT 1172.8 SGR 481.7 SG3 54.3
RRT -.1769 RRF .1751 RTF -.7630
SGB 1267.9 R23 -.0141 R13 .7639
SG1 1176.5 SG2 472.6 THA 175.04

ORBIT DETERMINATION ACCURACY

ST 453.5 SR 424.3 SS 402.3
CRT .5776 CRS .6681 CST .9920
LSA 676.1 MSA 300.2 SSA 15.4
ELI 552.0 EL2 284.5 ALF 41.71

LAUNCH DATE OCT 4 1965 FLIGHT TIME 88.00 ARRIVAL DATE DEC 31 1965

DISTANCE 191.777

HELIOCENTRIC CONIC

RL	149.63	LAL	.00	LOL	10.56	VL	22.386	GAL	12.66	AZL	89.57	HCA	72.69	SMA	104.27	ECC	.47767	INC .4262 VI 29.778
RP	107.72	LAP	.41	LOP	83.26	VP	34.517	GAP	-28.48	AZP	89.87	TAL	165.35	TAP	238.04	RCA	54.47	APO 154.08 V2 35.181
RC	52.511	GL	.97	GP	-5.77	ZAL	55.75	ZAP	17.65	ETS	158.36	ZAE	145.59	ETE	192.02	ZAC	24.68	ETC 122.64 CLP 16.71

PLANETOCENTRIC CONIC

C3 92.158 VHL 9.600 DLA -15.46 RAL 317.00 RAD 6569.8 VEL 14.612 PTH 2.65 VHP 17.086 DPA -30.19 RAP 281.07 ECC 2.5167

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 42 12	2084.92	-16.23	33.44	200.57	113.53	10 16 57	1484.9	-12.91	26.33
90.00	17 33 48	5733.58	27.34	271.86	212.46	97.68	19 9 22	5133.6	28.12	263.28
100.00	10 55 4	1849.81	-17.85	15.40	199.82	114.39	11 25 54	1249.8	-14.41	8.30
100.00	19 3 38	5443.92	29.10	250.81	212.72	97.16	20 34 21	4843.9	29.79	242.07
110.00	11 44 27	1695.13	-22.06	1.52	197.67	116.80	12 12 42	1095.1	-18.29	354.42
110.00	20 30 44	5171.37	33.75	230.73	213.34	95.81	21 56 55	4571.4	34.18	221.51

DIFFERENTIAL CORRECTIONS

TDE -.5657 TRA-1.8162 TC3 -.1800 BAU .2246
RDE -.6931 RRA .3904 RC3 -.0290 FAU .01436
FDE .3803 FRA .9484 FC3 -.1349 BSP 3628
BDE .8946 BRA 1.8577 BC3 .1823 FSP -141

MID-COURSE EXECUTION ACCURACY

SGT 1224.1 SGR 482.3 SG3 58.8
RRT -.1913 RRF .1904 RTF -.7772
SGB 1315.7 R23 -.0161 R13 .7782
SG1 1228.2 SG2 471.9 THA 174.94

ORBIT DETERMINATION ACCURACY

ST 477.4 SR 420.0 SS 424.3
CRT .5746 CRS .6718 CST .9910
LSA 702.1 MSA 302.0 SSA 15.5
ELI 565.9 EL2 290.0 ALF 38.69

LAUNCH DATE OCT 4 1965 FLIGHT TIME 90.00 ARRIVAL DATE JAN 2 1966

DISTANCE 198.298

HELIOCENTRIC CONIC

RL	149.63	LAL	.00	LOL	10.56	VL	22.770	GAL	12.07	AZL	89.39	HCA	75.92	SMA	105.72	ECC	.45690	INC .6149 VI 29.778
RP	107.69	LAP	.60	LOP	86.48	VP	34.777	GAP	-27.17	AZP	89.85	TAL	164.83	TAP	240.75	RCA	57.41	APO 154.02 V2 35.191
RC	50.858	GL	1.49	GP	-6.04	ZAL	55.00	ZAP	16.42	ETS	155.87	ZAE	146.78	ETE	193.96	ZAC	25.99	ETC 125.57 CLP 15.30

PLANETOCENTRIC CONIC

C3 84.098 VHL 9.171 DLA -14.74 RAL 317.58 RAD 6569.6 VEL 14.333 PTH 2.61 VHP 16.381 DPA -30.41 RAP 283.18 ECC 2.3840

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 37 56	2090.30	-16.37	33.76	199.85	113.43	10 12 46	1490.3	-13.06	26.65
90.00	17 42 45	5687.43	27.72	268.53	211.19	96.05	19 17 32	5087.4	28.26	259.91
100.00	10 51 20	1853.46	-17.95	15.62	199.12	114.31	11 22 14	1253.5	-14.52	8.51
100.00	19 12 2	5399.50	29.43	247.55	211.38	95.48	20 42 1	4799.5	29.88	238.77
110.00	11 41 51	1695.26	-22.07	1.53	197.03	116.79	12 10 6	1095.3	-18.30	354.42
110.00	20 38 1	5130.47	33.98	227.56	211.82	93.95	22 3 31	4530.5	34.16	218.32

DIFFERENTIAL CORRECTIONS

TDE -.5705 TRA-1.8248 TC3 -.1841 BAU .2107
RDE -.6525 RRA .3867 RC3 -.0349 FAU .01473
FDE .4033 FRA .9839 FC3 -.1516 BSP 3830
BDE .8667 BRA 1.8653 BC3 .1874 FSP -155

MID-COURSE EXECUTION ACCURACY

SGT 1277.0 SGR 482.4 SG3 63.8
RRT -.2071 RRF .2074 RTF -.7906
SGB 1365.1 R23 -.0183 R13 .7917
SG1 1281.6 SG2 470.3 THA 174.83

ORBIT DETERMINATION ACCURACY

ST 502.2 SR 414.5 SS 447.4
CRT .5708 CRS .6748 CST .9900
LSA 729.6 MSA 302.8 SSA 15.7
ELI 580.9 EL2 294.3 ALF 35.66

LAUNCH DATE OCT 4 1965 FLIGHT TIME 92.00 ARRIVAL DATE JAN 4 1966

DISTANCE 204.867

HELIOCENTRIC CONIC

RL	149.63	LAL	.00	LOL	10.56	VL	23.130	GAL	11.50	AZL	89.20	HCA	79.15	SMA	107.12	ECC	.43700	INC .7983 VI 29.778
RP	107.66	LAP	.78	LOP	89.72	VP	35.023	GAP	-25.91	AZP	89.85	TAL	164.35	TAP	243.50	RCA	60.31	APO 153.94 V2 35.200
RC	49.288	GL	2.07	GP	-6.34	ZAL	54.32	ZAP	15.24	ETS	152.90	ZAE	148.08	ETE	196.22	ZAC	27.38	ETC 128.20 CLP 13.89

PLANETOCENTRIC CONIC

C3 76.787 VHL 8.763 DLA -13.99 RAL 318.09 RAD 6569.5 VEL 14.076 PTH 2.57 VHP 15.699 DPA -30.62 RAP 285.30 ECC 2.2637

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 33 14	2095.96	-16.52	34.11	199.04	113.33	10 8 10	1496.0	-13.23	26.98
90.00	17 51 32	5640.19	28.01	265.11	209.76	94.36	19 25 32	5040.2	28.32	256.45
100.00	10 47 10	1857.41	-18.06	15.86	198.34	114.23	11 18 7	1257.4	-14.64	8.74
100.00	19 20 17	5353.97	29.68	244.19	209.90	93.73	20 49 31	4754.0	29.88	235.39
110.00	11 38 48	1695.68	-22.08	1.55	196.29	116.78	12 7 4	1095.7	-18.31	354.45
110.00	20 45 8	5088.46	34.13	224.29	210.16	92.02	22 9 56	4488.5	34.03	215.04

DIFFERENTIAL CORRECTIONS

TDE -.5744 TRA-1.8323 TC3 -.1869 BAU .1966
RDE -.6126 RRA .3828 RC3 -.0416 FAU .01514
FDE .4276 FRA 1.0211 FC3 -.1707 BSP 4043
BDE .8398 BRA 1.8718 BC3 .1915 FSP -170

MID-COURSE EXECUTION ACCURACY

SGT 1331.4 SGR 482.0 SG3 69.2
RRT -.2247 RRF .2263 RTF -.8035
SGB 1416.0 R23 -.0209 R13 .8046
SG1 1336.5 SG2 467.9 THA 174.70

ORBIT DETERMINATION ACCURACY

ST 527.6 SR 408.0 SS 471.6
CRT .5659 CRS .6768 CST .9889
LSA 758.4 MSA 302.8 SSA 15.8
ELI 597.0 EL2 297.2 ALF 32.66

LAUNCH DATE OCT 4 1965 FLIGHT TIME 94.00 ARRIVAL DATE JAN 6 1966

HELIOCENTRIC CONIC DISTANCE 211.478

RL	149.63	LAL	.00	LOL	10.56	VL	23.466	GAL	10.96	AZL	89.02	HCA	82.39	SMA	108.50	ECC	.41796	INC	.9779	V1	29.778
RP	107.63	LAP	.97	LOP	92.95	VP	35.255	GAP	-24.70	AZP	89.87	TAL	163.91	TAP	246.29	RCA	63.15	APO	153.84	V2	35.209
RC	47.809	GL	2.69	GP	-6.66	ZAL	53.70	ZAP	14.12	ETS	149.33	ZAE	149.46	ETE	198.85	ZAC	28.85	ETC	130.55	CLP	12.48

PLANETOCENTRIC CONIC

C3	70.158	VHL	8.376	DLA	-13.20	RAL	318.53	RAD	6569.4	VEL	13.839	PTH	2.53	VHP	15.041	DPA	-30.84	RAP	287.43	ECC	2.1546

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 28 4	2102.11	-16.69	34.48	198.15	113.21	10 3 6	1502.1	-13.41	27.35
90.00	18 0 10	5591.80	28.21	261.58	208.20	92.60	19 33 22	4991.8	28.27	252.92
100.00	10 42 32	1861.86	-18.18	16.13	197.46	114.14	11 13 34	1261.9	-14.77	9.00
100.00	19 28 23	5307.29	29.84	240.73	208.28	91.91	20 56 51	4707.3	29.78	231.92
110.00	11 35 18	1696.58	-22.11	1.61	195.47	116.76	12 3 35	1096.6	-18.34	354.50
110.00	20 52 6	5045.33	34.18	220.92	208.36	90.02	22 16 12	4445.3	33.81	211.70

DIFFERENTIAL CORRECTIONS

TDE	-.5781	TRA	-1.8388	TC3	-.1884	BAU	.1826
RDE	-.5732	RRA	.3791	RC3	-.0493	FAU	.01559
FDE	.4535	FRA	1.0602	FC3	-.1924	BSP	4259
BDE	.8141	BRA	1.8774	BC3	.1947	FSP	-187

MID-COURSE EXECUTION ACCURACY

SGT	1387.5	SGR	481.2	SG3	75.1		
RRT	-.2441	RRF	.2473	RTF	-.8156		
SGB	1468.5	R23	-.0238	R13	.8168		
SG1	1393.1	SG2	464.7	THA	174.55		

ORBIT DETERMINATION ACCURACY

ST	553.8	SR	400.2	SS	497.0
CRT	.5600	CRS	.6780	CST	.9877
LSA	788.9	MSA	302.0	SSA	15.9
EL1	614.4	EL2	298.8	ALF	29.72

LAUNCH DATE OCT 4 1965 FLIGHT TIME 96.00 ARRIVAL DATE JAN 8 1966

HELIOCENTRIC CONIC DISTANCE 218.129

RL	149.63	LAL	.00	LOL	10.56	VL	23.780	GAL	10.43	AZL	88.85	HCA	85.62	SMA	109.83	ECC	.39979	INC	1.1548	V1	29.778
RP	107.61	LAP	1.15	LOP	96.18	VP	35.472	GAP	-23.54	AZP	89.91	TAL	163.50	TAP	249.12	RCA	65.92	APO	153.74	V2	35.217
RC	46.433	GL	3.37	GP	-7.03	ZAL	53.15	ZAP	13.08	ETS	145.02	ZAE	150.90	ETE	201.94	ZAC	30.38	ETC	132.64	CLP	11.06

PLANETOCENTRIC CONIC

C3	64.154	VHL	8.010	DLA	-12.38	RAL	318.89	RAD	6569.2	VEL	13.620	PTH	2.49	VHP	14.404	DPA	-31.06	RAP	289.57	ECC	2.0558

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 22 25	2108.97	-16.87	34.90	197.18	113.08	9 57 34	1509.0	-13.60	27.75
90.00	18 8 41	5542.26	28.31	257.96	206.51	90.79	19 41 4	4942.3	28.12	249.30
100.00	10 37 24	1867.02	-18.33	16.45	196.52	114.04	11 8 31	1267.0	-14.93	9.31
100.00	19 36 23	5259.45	29.89	237.17	206.52	90.04	21 4 2	4659.4	29.58	228.38
110.00	11 31 19	1698.15	-22.16	1.70	194.58	116.72	11 59 38	1098.2	-18.39	354.59
110.00	20 58 57	5001.08	34.13	217.47	206.44	87.98	22 22 18	4401.1	33.47	208.28

DIFFERENTIAL CORRECTIONS

TDE	-.5840	TRA	-1.8467	TC3	-.1897	BAU	.1702
RDE	-.5343	RRA	.3755	RC3	-.0582	FAU	.01607
FDE	.4817	FRA	1.1017	FC3	-.2169	BSP	4418
BDE	.7915	BRA	1.8845	BC3	.1984	FSP	-205

MID-COURSE EXECUTION ACCURACY

SGT	1447.8	SGR	480.0	SG3	81.5		
RRT	-.2648	RRF	.2706	RTF	-.8268		
SGB	1525.3	R23	-.0280	R13	.8281		
SG1	1454.0	SG2	460.9	THA	174.42		

ORBIT DETERMINATION ACCURACY

ST	582.4	SR	391.0	SS	524.2
CRT	.5542	CRS	.6782	CST	.9867
LSA	822.6	MSA	300.0	SSA	16.1
EL1	634.8	EL2	298.6	ALF	26.78

LAUNCH DATE OCT 4 1965 FLIGHT TIME 98.00 ARRIVAL DATE JAN 10 1966

HELIOCENTRIC CONIC DISTANCE 224.812

RL	149.63	LAL	.00	LOL	10.56	VL	24.073	GAL	9.93	AZL	88.67	HCA	88.86	SMA	111.12	ECC	.38247	INC	1.3303	V1	29.778
RP	107.58	LAP	1.33	LOP	99.42	VP	35.677	GAP	-22.42	AZP	89.97	TAL	163.14	TAP	251.99	RCA	68.62	APO	153.62	V2	35.224
RC	45.168	GL	4.12	GP	-7.43	ZAL	52.66	ZAP	12.15	ETS	139.86	ZAE	152.37	ETE	205.60	ZAC	31.97	ETC	134.50	CLP	9.65

PLANETOCENTRIC CONIC

C3	58.720	VHL	7.663	DLA	-11.51	RAL	319.17	RAD	6569.1	VEL	13.419	PTH	2.45	VHP	13.789	DPA	-31.30	RAP	291.72	ECC	1.9664

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 16 13	2116.78	-17.08	35.38	196.14	112.93	9 51 30	1516.8	-13.83	28.22
90.00	18 17 7	5491.52	28.30	254.25	204.70	88.93	19 48 39	4891.5	27.85	245.61
100.00	10 31 45	1873.11	-18.50	16.82	195.50	113.91	11 2 58	1273.1	-15.11	9.67
100.00	19 44 17	5210.43	29.84	233.53	204.66	88.12	21 11 7	4610.4	29.26	224.77
110.00	11 26 50	1700.61	-22.23	1.85	193.62	116.66	11 55 10	1100.6	-18.47	354.74
110.00	21 5 41	4955.70	33.97	213.93	204.40	85.89	22 28 17	4355.7	33.02	204.82

DIFFERENTIAL CORRECTIONS

TDE	-.5874	TRA	-1.8512	TC3	-.1877	BAU	.1568
RDE	-.4959	RRA	.3723	RC3	-.0683	FAU	.01663
FDE	.5117	FRA	1.1453	FC3	-.2451	BSP	4637
BDE	.7688	BRA	1.8883	BC3	.1998	FSP	-225

MID-COURSE EXECUTION ACCURACY

SGT	1507.0	SGR	478.7	SG3	88.6		
RRT	-.2888	RRF	.2969	RTF	-.8378		
SGB	1581.2	R23	-.0319	R13	.8391		
SG1	1513.9	SG2	456.2	THA	174.23		

ORBIT DETERMINATION ACCURACY

ST	610.4	SR	380.5	SS	552.7
CRT	.5459	CRS	.6769	CST	.9854
LSA	856.8	MSA	297.4	SSA	16.2
EL1	655.0	EL2	297.1	ALF	24.03

LAUNCH DATE OCT 4 1965 FLIGHT TIME 100.00 ARRIVAL DATE JAN 12 1966

HELIOCENTRIC CONIC DISTANCE 231.524

RL	149.63	LAL	.00	LOL	10.56	VL	24.347	GAL	9.44	AZL	88.49	HCA	92.09	SMA	112.36	ECC	.36599	INC	1.5055	V1	29.778
RP	107.56	LAP	1.50	LOP	102.66	VP	35.869	GAP	-21.34	AZP	90.06	TAL	162.81	TAP	254.91	RCA	71.24	APO	153.49	V2	35.231
RC	44.025	GL	4.94	GP	-7.87	ZAL	52.24	ZAP	11.36	ETS	133.71	ZAE	153.84	ETE	209.91	ZAC	33.60	ETC	136.16	CLP	8.22

PLANETOCENTRIC CONIC

C3	53.809	VHL	7.335	DLA	-10.59	RAL	319.37	RAD	6568.9	VEL	13.235	PTH	2.42	VHP	13.195	DPA	-31.54	RAP	293.87	ECC	1.8856

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 9 27	2125.81	-17.32	35.94	195.04	112.76	9 44 53	1525.8	-14.09	28.75
90.00	18 25 30	5439.56	28.17	250.45	202.79	87.03	19 56 9	4839.6	27.46	241.86
100.00	10 25 31	1880.40	-18.70	17.27	194.42	113.76	10 56 52	1280.4	-15.33	10.10
100.00	19 52 7	5160.19	29.67	229.80	202.69	86.17	21 18 7	4560.2	28.82	221.10
110.00	11 21 48	1704.19	-22.34	2.07	192.59	116.57	11 50 12	1104.2	-18.59	354.95
110.00	21 12 20	4909.17	33.68	210.33	202.27	83.78	22 34 9	4309.2	32.45	201.31

DIFFERENTIAL CORRECTIONS

TDE	-.5907	TRA	-1.8545	TC3	-.1835	BAU	.1440
RDE	-.4580	RRA	.3697	RC3	-.0798	FAU	.01723
FDE	.5441	FRA	1.1913	FC3	-.2773	BSP	4859
BDE	.7474	BRA	1.8910	BC3	.2001	FSP	-248

MID-COURSE EXECUTION ACCURACY

SGT	1567.5	SGR	477.5	SG3	96.3		
RRT	-.3158	RRF	.3264	RTF	-.8480		
SGB	1638.6	R23	-.0363	R13	.8495		
SG1	1575.3	SG2	450.8	THA	174.01		

ORBIT DETERMINATION ACCURACY

ST	639.0	SR	368.4	SS	582.9
CRT	.5356	CRS	.6740	CST	.9841
LSA	892.9	MSA	293.9	SSA	16.3
EL1	676.6	EL2	293.9	ALF	21.39

LAUNCH DATE OCT 4 1965 FLIGHT TIME 102.00 ARRIVAL DATE JAN 14 1966

HELIOCENTRIC CONIC DISTANCE 238.261

RL	149.63	LAL	.00	LOL	10.56	VL	24.602	GAL	8.97	AZL	88.32	HCA	95.33	SMA	113.57	ECC	.35035	INC	1.6815	V1	29.778
RP	107.55	LAP	1.67	LOP	105.90	VP	36.048	GAP	-20.29	AZP	90.16	TAL	162.53	TAP	257.87	RCA	73.78	APO	153.35	V2	35.237
RC	43.015	GL	5.82	GP	-8.36	ZAL	51.90	ZAP	10.75	ETS	126.53	ZAE	155.24	ETE	215.01	ZAC	35.29	ETC	137.61	CLP	6.79

PLANETOCENTRIC CONIC

C3	49.378	VHL	7.027	DLA	-9.62	RAL	319.49	RAD	6568.8	VEL	13.067	PTH	2.38	VHP	12.622	DPA	-31.81	RAP	296.03	ECC	1.8126

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 2 5	2136.34	-17.60	36.59	193.88	112.55	9 37 41	1536.3	-14.39	29.38
90.00	18 33 51	5386.32	27.92	246.58	200.78	85.10	20 3 37	4786.3	26.95	238.05
100.00	10 18 41	1889.17	-18.94	17.81	193.28	113.57	10 50 11	1289.2	-15.59	10.62
100.00	19 59 55	5108.72	29.37	226.01	200.63	84.19	21 25 4	4508.7	28.26	217.38
110.00	11 16 11	1709.16	-22.49	2.38	191.51	116.45	11 44 40	1109.2	-18.76	355.24
110.00	21 18 55	4861.49	33.27	206.67	200.06	81.65	22 39 57	4261.5	31.76	197.77

DIFFERENTIAL CORRECTIONS								MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TDE	-.5942	TRA	-1.8566	TC3	-.1767	BAU	.1318	SGT	1629.1	SGR	476.5	SG3	104.8	ST	668.6	SR	354.7	SS	615.2
RDE	-.4203	RRA	.3678	RC3	-.0930	FAU	.01790	RRT	-.3459	RRF	.3594	RTF	-.8578	CRT	.5231	CRS	.6689	CST	.9827
FDE	.5796	FRA	1.2403	FC3	-.3139	BSP	5084	SGB	1697.3	R23	-.0414	R13	.8594	LSA	931.2	MSA	289.5	SSA	16.4
BDE	.7278	BRA	1.8927	BC3	.1997	FSP	-272	SG1	1638.1	SG2	444.6	THA	173.76	EL1	699.5	EL2	288.9	ALF	18.84

LAUNCH DATE OCT 4 1965 FLIGHT TIME 104.00 ARRIVAL DATE JAN 16 1966

HELIOCENTRIC CONIC DISTANCE 245.018

RL	149.63	LAL	.00	LOL	10.56	VL	24.840	GAL	8.53	AZL	88.14	HCA	98.57	SMA	114.72	ECC	.33553	INC	1.8594	V1	29.778
RP	107.53	LAP	1.84	LOP	109.14	VP	36.216	GAP	-19.29	AZP	90.28	TAL	162.30	TAP	260.87	RCA	76.23	APO	153.21	V2	35.242
RC	42.147	GL	6.79	GP	-8.90	ZAL	51.64	ZAP	10.37	ETS	118.41	ZAE	156.51	ETE	220.98	ZAC	37.01	ETC	138.89	CLP	5.34

PLANETOCENTRIC CONIC

C3	45.387	VHL	6.737	DLA	-8.59	RAL	319.53	RAD	6568.7	VEL	12.913	PTH	2.35	VHP	12.069	DPA	-32.11	RAP	298.19	ECC	1.7470

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 54 2	2148.68	-17.92	37.35	192.68	112.30	9 29 51	1548.7	-14.74	30.12
90.00	18 42 12	5331.76	27.54	242.63	198.71	83.16	20 11 4	4731.8	26.31	234.18
100.00	10 11 12	1899.72	-19.22	18.47	192.10	113.34	10 42 52	1299.7	-15.90	11.25
100.00	20 7 43	5055.96	28.95	222.14	198.50	82.20	21 31 59	4456.0	27.57	213.61
110.00	11 9 56	1715.80	-22.69	2.79	190.38	116.28	11 38 32	1115.8	-18.98	355.63
110.00	21 25 28	4812.64	32.72	202.96	197.79	79.52	22 45 41	4212.6	30.93	194.20

DIFFERENTIAL CORRECTIONS								MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TDE	-.5980	TRA	-1.8574	TC3	-.1671	BAU	.1207	SGT	1691.6	SGR	476.1	SG3	114.0	ST	698.9	SR	339.1	SS	649.6
RDE	-.3829	RRA	.3668	RC3	-.1079	FAU	.01864	RRT	-.3796	RRF	.3964	RTF	-.8670	CRT	.5075	CRS	.6610	CST	.9814
FDE	.6184	FRA	1.2924	FC3	-.3555	BSP	5310	SGB	1757.3	R23	-.0472	R13	.8687	LSA	971.7	MSA	284.4	SSA	16.5
BDE	.7101	BRA	1.8933	BC3	.1989	FSP	-300	SG1	1701.9	SG2	437.8	THA	173.47	EL1	723.7	EL2	282.2	ALF	16.39

LAUNCH DATE OCT 4 1965 FLIGHT TIME 106.00 ARRIVAL DATE JAN 18 1966

HELIOCENTRIC CONIC DISTANCE 251.792

RL	149.63	LAL	.00	LOL	10.56	VL	25.061	GAL	8.10	AZL	87.96	HCA	101.81	SMA	115.82	ECC	.32150	INC	2.0404	V1	29.778
RP	107.51	LAP	2.00	LOP	112.38	VP	36.373	GAP	-18.31	AZP	90.42	TAL	162.11	TAP	263.92	RCA	78.59	APO	153.06	V2	35.247
RC	41.430	GL	7.85	GP	-9.51	ZAL	51.45	ZAP	10.26	ETS	109.63	ZAE	157.54	ETE	227.87	ZAC	38.77	ETC	140.01	CLP	3.87

PLANETOCENTRIC CONIC

C3	41.802	VHL	6.465	DLA	-7.49	RAL	319.49	RAD	6568.6	VEL	12.774	PTH	2.32	VHP	11.537	DPA	-32.44	RAP	300.35	ECC	1.6880

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 45 16	2163.19	-18.29	38.25	191.45	112.00	9 21 19	1563.2	-15.14	30.99
90.00	18 50 37	5275.83	27.03	238.62	196.57	81.21	20 18 33	4675.8	25.53	230.27
100.00	10 3 1	1912.38	-19.56	19.25	190.89	113.06	10 34 53	1312.4	-16.27	12.01
100.00	20 15 34	5001.87	28.39	218.22	196.32	80.21	21 38 56	4401.9	26.74	209.80
110.00	11 3 3	1724.42	-22.95	3.33	189.23	116.06	11 31 47	1124.4	-19.26	356.14
110.00	21 32 1	4762.59	32.04	199.22	195.48	77.40	22 51 24	4162.6	29.98	190.61

DIFFERENTIAL CORRECTIONS								MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TDE	-.6025	TRA	-1.8571	TC3	-.1542	BAU	.1108	SGT	1755.0	SGR	476.8	SG3	124.2	ST	730.1	SR	321.6	SS	686.6
RDE	-.3454	RRA	.3671	RC3	-.1247	FAU	.01944	RRT	-.4171	RRF	.4375	RTF	-.8757	CRT	.4874	CRS	.6490	CST	.9800
FDE	.6614	FRA	1.3480	FC3	-.4025	BSP	5536	SGB	1818.6	R23	-.0537	R13	.8776	LSA	1014.9	MSA	278.5	SSA	16.5
BDE	.6945	BRA	1.8930	BC3	.1983	FSP	-329	SG1	1767.0	SG2	430.5	THA	173.12	EL1	749.4	EL2	273.6	ALF	14.02

LAUNCH DATE OCT 4 1965 FLIGHT TIME 108.00 ARRIVAL DATE JAN 20 1966

HELIOCENTRIC CONIC DISTANCE 258.578

RL	149.63	LAL	.00	LOL	10.56	VL	25.267	GAL	7.69	AZL	87.77	HCA	105.05	SMA	116.88	ECC	.30826	INC	2.2258	V1	29.778
RP	107.50	LAP	2.15	LOP	115.63	VP	36.519	GAP	-17.37	AZP	90.58	TAL	161.96	TAP	267.01	RCA	80.85	APO	152.91	V2	35.251
RC	40.873	GL	9.01	GP	-10.19	ZAL	51.35	ZAP	10.46	ETS	100.69	ZAE	158.25	ETE	235.60	ZAC	40.57	ETC	140.98	CLP	2.39

PLANETOCENTRIC CONIC

C3	38.592	VHL	6.212	DLA	-6.32	RAL	319.36	RAD	6568.5	VEL	12.648	PTH	2.30	VHP	11.024	DPA	-32.82	RAP	302.52	ECC	1.6351

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 35 44	2180.21	-18.72	39.32	190.19	111.64	9 12 4	1580.2	-15.62	32.01
90.00	18 59 8	5218.45	26.36	234.55	194.40	79.27	20 26 7	4618.5	24.62	226.32
100.00	9 54 4	1927.49	-19.96	20.20	189.65	112.72	10 26 12	1327.5	-16.71	12.91
100.00	20 23 29	4946.40	27.68	214.25	194.10	78.23	21 45 55	4346.4	25.78	205.96
110.00	10 55 27	1735.34	-23.28	4.01	188.05	115.77	11 24 22	1135.3	-19.62	356.78
110.00	21 38 36	4711.31	31.22	195.44	193.15	75.31	22 57 7	4111.3	28.89	187.02

DIFFERENTIAL CORRECTIONS								MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TDE	-.6075	TRA	-1.8553	TC3	-.1379	BAU	.1028	SGT	1818.6	SGR	479.2	SG3	135.4	ST	762.1	SR	301.9	SS	726.4
RDE	-.3078	RRA	.3689	RC3	-.1437	FAU	.02032	RRT	-.4586	RRF	.4829	RTF	-.8838	CRT	.4609	CRS	.6312	CST	.9787
FDE	.7091	FRA	1.4075	FC3	-.4558	BSP	5769	SGB	1880.6	R23	-.0612	R13	.8860	LSA	1060.8	MSA	272.0	SSA	16.6
BDE	.6810	BRA	1.8916	BC3	.1992	FSP	-362	SG1	1832.6	SG2	422.6	THA	172.72	EL1	776.3	EL2	263.0	ALF	11.71

LAUNCH DATE OCT 4 1965 FLIGHT TIME 110.00 ARRIVAL DATE JAN 22 1966

HELIOCENTRIC CONIC DISTANCE 265.372

RL 149.63 LAL .00 LOL 10.56 VL 25.458 GAL 7.30 AZL 87.58 HCA 108.30 SMA 117.89 ECC .29578 INC 2.4170 V1 29.778
RP 107.49 LAP 2.29 LOP 118.88 VP 36.654 GAP -16.47 AZP 90.76 TAL 161.85 TAP 270.15 RCA 83.02 APO 152.76 V2 35.254
RC 40.482 GL 10.26 GP -10.95 ZAL 51.35 ZAP 10.98 ETS 92.12 ZAE 158.54 ETE 243.93 ZAC 42.40 ETC 141.80 CLP .88

PLANETOCENTRIC CONIC

C3 35.728 VHL 5.977 DLA -5.07 RAL 319.15 RAD 6568.4 VEL 12.534 PTH 2.27 VHP 10.532 DPA -33.25 RAP 304.69 ECC 1.5880

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 25 22	2200.15	-19.22	40.57	188.93	111.21	9 2 2	1600.1	-16.16	33.22
90.00	19 7 48	5159.54	25.55	230.43	192.20	77.36	20 33 48	4559.5	23.56	222.33
100.00	9 44 19	1945.45	-20.43	21.33	188.41	112.31	10 16 44	1345.4	-17.23	14.00
100.00	20 31 32	4889.47	26.82	210.23	191.87	76.29	21 53 1	4289.5	24.67	202.10
110.00	10 47 5	1748.93	-23.68	4.86	186.86	115.41	11 16 14	1148.9	-20.06	357.59
110.00	21 45 15	4658.76	30.25	191.66	190.81	73.26	23 2 54	4058.8	27.66	183.42

DIFFERENTIAL CORRECTIONS

TDE -.6166 TRA-1.8559 TC3 -.1151 BAU .0961
RDE -.2697 RRA .3725 RC3 -.1650 FAU .02127
FDE .7624 FRA 1.4711 FC3 -.5155 BSP 6036
BDE .6730 BRA 1.8929 BC3 .2012 FSP -399

MID-COURSE EXECUTION ACCURACY

SGT 1886.3 SGR 484.0 SG3 147.6
RRT -.5042 RRF .5324 RTF -.8924
SGB 1947.4 R23 -.0690 R13 .8949
SG1 1902.8 SG2 414.3 THA 172.26

ORBIT DETERMINATION ACCURACY

ST 797.8 SR 280.0 SS 769.4
CRT .4261 CRS .6045 CST .9777
LSA 1112.0 MSA 264.6 SSA 16.5
EL1 807.6 EL2 250.3 ALF 9.42

LAUNCH DATE OCT 4 1965 FLIGHT TIME 112.00 ARRIVAL DATE JAN 24 1966

HELIOCENTRIC CONIC DISTANCE 272.173

RL 149.63 LAL .00 LOL 10.56 VL 25.636 GAL 6.93 AZL 87.38 HCA 111.54 SMA 118.85 ECC .28405 INC 2.6155 V1 29.778
RP 107.48 LAP 2.43 LOP 122.12 VP 36.780 GAP -15.59 AZP 90.96 TAL 161.79 TAP 273.33 RCA 85.09 APO 152.61 V2 35.256
RC 40.263 GL 11.63 GP -11.80 ZAL 51.44 ZAP 11.82 ETS 84.36 ZAE 158.34 ETE 252.47 ZAC 44.26 ETC 142.50 CLP -.65

PLANETOCENTRIC CONIC

C3 33.186 VHL 5.761 DLA -3.73 RAL 318.84 RAD 6568.3 VEL 12.432 PTH 2.25 VHP 10.059 DPA -33.76 RAP 306.87 ECC 1.5462

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 14 5	2223.43	-19.78	42.04	187.67	110.68	8 51 8	1623.4	-16.79	34.64
90.00	19 16 41	5099.00	24.58	226.26	190.00	75.49	20 41 40	4499.0	22.35	218.30
100.00	9 33 41	1966.66	-20.97	22.67	187.17	111.80	10 6 27	1366.7	-17.83	15.28
100.00	20 39 46	4831.00	25.82	206.18	189.63	74.38	22 0 17	4231.0	23.42	198.20
110.00	10 37 55	1765.54	-24.16	5.91	185.68	114.95	11 7 21	1165.5	-20.59	358.58
110.00	21 52 1	4604.88	29.13	187.86	188.48	71.27	23 8 46	4004.9	26.30	179.82

DIFFERENTIAL CORRECTIONS

TDE -.6188 TRA-1.8452 TC3 -.0909 BAU .0931
RDE -.2307 RRA .3784 RC3 -.1891 FAU .02235
FDE .8216 FRA 1.5386 FC3 -.5831 BSP 6297
BDE .6604 BRA 1.8836 BC3 .2098 FSP -440

MID-COURSE EXECUTION ACCURACY

SGT 1942.2 SGR 492.3 SG3 161.0
RRT -.5538 RRF .5857 RTF -.8990
SGB 2003.7 R23 -.0782 R13 .9018
SG1 1962.1 SG2 405.7 THA 171.65

ORBIT DETERMINATION ACCURACY

ST 826.6 SR 255.9 SS 815.2
CRT .3726 CRS .5637 CST .9760
LSA 1160.5 MSA 257.6 SSA 16.5
EL1 832.5 EL2 235.8 ALF 7.16

LAUNCH DATE OCT 4 1965 FLIGHT TIME 114.00 ARRIVAL DATE JAN 26 1966

HELIOCENTRIC CONIC DISTANCE 278.976

RL 149.63 LAL .00 LOL 10.56 VL 25.800 GAL 6.58 AZL 87.18 HCA 114.78 SMA 119.76 ECC .27303 INC 2.8231 V1 29.778
RP 107.48 LAP 2.56 LOP 125.37 VP 36.897 GAP -14.74 AZP 91.18 TAL 161.77 TAP 276.55 RCA 87.06 APO 152.45 V2 35.258
RC 40.219 GL 13.12 GP -12.77 ZAL 51.63 ZAP 12.95 ETS 77.68 ZAE 157.63 ETE 260.72 ZAC 46.17 ETC 143.06 CLP -2.21

PLANETOCENTRIC CONIC

C3 30.944 VHL 5.563 DLA -2.29 RAL 318.45 RAD 6568.2 VEL 12.342 PTH 2.23 VHP 9.608 DPA -34.36 RAP 309.06 ECC 1.5093

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 1 48	2250.52	-20.42	43.77	186.43	110.05	8 39 19	1650.5	-17.51	36.31
90.00	19 25 50	5036.70	23.45	222.04	187.82	73.66	20 49 47	4436.7	20.99	214.24
100.00	9 22 5	1991.57	-21.59	24.26	185.96	111.19	9 55 17	1391.6	-18.52	16.81
100.00	20 48 15	4770.89	24.65	202.10	187.42	72.53	22 7 46	4170.9	22.03	194.28
110.00	10 27 53	1785.61	-24.73	7.19	184.53	114.39	10 57 38	1185.6	-21.23	359.79
110.00	21 58 56	4549.61	27.86	184.06	186.19	69.35	23 14 46	3949.6	24.80	176.23

DIFFERENTIAL CORRECTIONS

TDE -.6286 TRA-1.8402 TC3 -.0632 BAU .0930
RDE -.1902 RRA .3870 RC3 -.2158 FAU .02347
FDE .8895 FRA 1.6117 FC3 -.6567 BSP 6520
BDE .6567 BRA 1.8804 BC3 .2249 FSP -484

MID-COURSE EXECUTION ACCURACY

SGT 2005.6 SGR 505.1 SG3 175.7
RRT -.6050 RRF .6413 RTF -.9058
SGB 2068.2 R23 -.0890 R13 .9090
SG1 2029.7 SG2 397.4 THA 170.99

ORBIT DETERMINATION ACCURACY

ST 862.0 SR 229.7 SS 865.9
CRT .2969 CRS .4996 CST .9750
LSA 1217.8 MSA 249.8 SSA 16.4
EL1 864.9 EL2 218.6 ALF 4.83

LAUNCH DATE OCT 4 1965 FLIGHT TIME 116.00 ARRIVAL DATE JAN 28 1966

HELIOCENTRIC CONIC DISTANCE 285.778

RL 149.63 LAL .00 LOL 10.56 VL 25.953 GAL 6.24 AZL 86.96 HCA 118.02 SMA 120.61 ECC .26272 INC 3.0418 V1 29.778
RP 107.48 LAP 2.68 LOP 128.62 VP 37.004 GAP -13.92 AZP 91.43 TAL 161.79 TAP 279.81 RCA 88.93 APO 152.30 V2 35.259
RC 40.350 GL 14.73 GP -13.86 ZAL 51.93 ZAP 14.36 ETS 72.11 ZAE 156.43 ETE 268.28 ZAC 48.11 ETC 143.51 CLP -3.81

PLANETOCENTRIC CONIC

C3 28.986 VHL 5.384 DLA -.75 RAL 317.97 RAD 6568.2 VEL 12.262 PTH 2.21 VHP 9.176 DPA -35.06 RAP 311.26 ECC 1.4770

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 48 27	2281.94	-21.14	45.79	185.24	109.29	8 26 29	1681.9	-18.32	38.26
90.00	19 35 21	4972.51	22.16	217.78	185.68	71.91	20 58 14	4372.5	19.48	210.13
100.00	9 9 27	2020.68	-22.30	26.13	184.79	110.44	9 43 7	1420.7	-19.31	18.61
100.00	20 57 3	4709.00	23.32	197.98	185.25	70.75	22 15 32	4109.0	20.48	190.33
110.00	10 16 53	1809.56	-25.39	8.74	183.42	113.69	10 47 3	1209.6	-21.97	1.26
110.00	22 6 6	4492.88	26.44	180.26	183.94	67.50	23 20 59	3892.9	23.16	172.64

DIFFERENTIAL CORRECTIONS

TDE -.6403 TRA-1.8333 TC3 -.0317 BAU .0959
RDE -.1478 RRA .3988 RC3 -.2454 FAU .02467
FDE .9664 FRA 1.6897 FC3 -.7370 BSP 6757
BDE .6571 BRA 1.8762 BC3 .2474 FSP -533

MID-COURSE EXECUTION ACCURACY

SGT 2067.1 SGR 524.1 SG3 191.7
RRT -.6572 RRF .6977 RTF -.9121
SGB 2132.5 R23 -.1011 R13 .9158
SG1 2096.6 SG2 389.5 THA 170.20

ORBIT DETERMINATION ACCURACY

ST 898.3 SR 202.5 SS 921.0
CRT .1794 CRS .3948 CST .9742
LSA 1279.6 MSA 241.9 SSA 16.2
EL1 899.1 EL2 199.0 ALF 2.44

LAUNCH DATE OCT 4 1965 FLIGHT TIME 118.00 ARRIVAL DATE JAN 30 1966

DISTANCE 292.577

HELIOCENTRIC CONIC

RL 149.63 LAL .00 LOL 10.56 VL 26.094 GAL 5.93 AZL 86.73 HCA 121.26 SMA 121.43 ECC .25308 INC 3.2742 VI 29.778
RP 107.48 LAP 2.80 LOP 131.87 VP 37.104 GAP -13.12 AZP 91.70 TAL 161.85 TAP 283.12 RCA 90.70 APO 152.16 V2 35.259
RC 40.657 GL 16.48 GP -15.10 ZAL 52.35 ZAP 16.03 ETS 67.60 ZAE 154.81 ETE 274.86 ZAC 50.09 ETC 143.83 CLP -5.45

PLANETOCENTRIC CONIC

C3 27.296 VHL 5.225 DLA .90 RAL 317.40 RAD 6568.1 VEL 12.193 PTH 2.19 VHP 8.767 DPA -35.88 RAP 313.49 ECC 1.4492

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 33 54	2318.26	-21.94	48.16	184.11	108.36	8 12 33	1718.3	-19.23	40.53
90.00	19 45 21	4906.23	20.70	213.47	183.60	70.23	21 7 7	4306.2	17.81	205.98
100.00	8 55 40	2054.53	-23.09	28.34	183.68	109.54	9 29 55	1454.5	-20.21	20.72
100.00	21 6 16	4645.20	21.83	193.83	183.15	69.05	22 23 41	4045.2	18.79	186.35
110.00	10 4 53	1837.89	-26.15	10.59	182.38	112.84	10 35 31	1237.9	-22.83	5.00
110.00	22 13 33	4434.60	24.87	176.46	181.77	65.75	23 27 27	3834.6	21.38	169.05

DIFFERENTIAL CORRECTIONS

TDE -.6550 TRA-1.8261 TC3 .0026 BAU .1015
RDE -.1024 RRA .4145 RC3 -.2781 FAU .02595
FDE 1.0542 FRA 1.7730 FC3 -.8231 BSP 6979
BDE .6629 BRA 1.8725 BC3 .2781 FSP -586

MID-COURSE EXECUTION ACCURACY

SGT 2127.7 SGR 551.1 SG3 209.1
RRT -.7084 RRF .7528 RTF -.9180
SGB 2197.9 R23 -.1144 R13 .9224
SG1 2164.4 SG2 382.4 THA 169.26

ORBIT DETERMINATION ACCURACY

ST 936.5 SR 176.9 SS 981.1
CRT -.0078 CRS .2184 CST .9736
LSA 1347.5 MSA 234.2 SSA 16.0
EL1 936.5 EL2 176.9 ALF 179.91

LAUNCH DATE OCT 4 1965 FLIGHT TIME 120.00 ARRIVAL DATE FEB 1 1966

DISTANCE 299.370

HELIOCENTRIC CONIC

RL 149.63 LAL .00 LOL 10.56 VL 26.224 GAL 5.63 AZL 86.48 HCA 124.50 SMA 122.19 ECC .24409 INC 3.5231 VI 29.778
RP 107.48 LAP 2.90 LOP 135.12 VP 37.195 GAP -12.35 AZP 92.00 TAL 161.95 TAP 286.45 RCA 92.36 APO 152.01 V2 35.258
RC 41.135 GL 18.38 GP -16.51 ZAL 52.89 ZAP 17.95 ETS 64.01 ZAE 152.83 ETE 280.36 ZAC 52.13 ETC 144.05 CLP -7.13

PLANETOCENTRIC CONIC

C3 25.866 VHL 5.086 DLA 2.69 RAL 316.74 RAD 6568.0 VEL 12.134 PTH 2.17 VHP 8.380 DPA -36.86 RAP 315.75 ECC 1.4257

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 18 2	2360.14	-22.81	50.92	183.07	107.24	7 57 22	1760.1	-20.24	43.19
90.00	19 55 55	4837.65	19.05	209.11	181.60	68.65	21 16 32	4237.7	15.99	201.78
100.00	8 40 38	2093.73	-23.95	30.93	182.67	108.44	9 15 32	1493.7	-21.21	23.20
100.00	21 16 0	4579.29	20.17	189.64	181.12	67.45	22 32 19	3979.3	16.93	182.33
110.00	9 51 45	1871.14	-27.01	12.79	181.43	111.79	10 22 56	1271.1	-23.81	5.09
110.00	22 21 22	4374.65	23.14	172.67	179.68	64.11	23 34 17	3774.6	19.46	165.45

DIFFERENTIAL CORRECTIONS

TDE -.6733 TRA-1.8176 TC3 .0393 BAU .1094
RDE -.0530 RRA .4349 RC3 -.3138 FAU .02728
FDE 1.1549 FRA 1.8612 FC3 -.9131 BSP 7198
BDE .6754 BRA 1.8689 BC3 .3163 FSP -643

MID-COURSE EXECUTION ACCURACY

SGT 2186.1 SGR 588.3 SG3 228.0
RRT -.7566 RRF .8044 RTF -.9235
SGB 2263.8 R23 -.1288 R13 .9287
SG1 2232.3 SG2 376.7 THA 168.15

ORBIT DETERMINATION ACCURACY

ST 976.5 SR 159.1 SS 1046.8
CRT -.2913 CRS -.0666 CST .9734
LSA 1422.3 MSA 226.8 SSA 15.6
EL1 977.6 EL2 152.0 ALF 177.22

LAUNCH DATE OCT 4 1965 FLIGHT TIME 122.00 ARRIVAL DATE FEB 3 1966

DISTANCE 306.155

HELIOCENTRIC CONIC

RL 149.63 LAL .00 LOL 10.56 VL 26.344 GAL 5.34 AZL 86.21 HCA 127.75 SMA 122.90 ECC .23573 INC 3.7922 VI 29.778
RP 107.48 LAP 3.00 LOP 138.37 VP 37.278 GAP -11.60 AZP 92.32 TAL 162.07 TAP 289.82 RCA 93.93 APO 151.87 V2 35.257
RC 41.780 GL 20.43 GP -18.13 ZAL 53.56 ZAP 20.11 ETS 61.20 ZAE 150.56 ETE 284.78 ZAC 54.23 ETC 144.15 CLP -8.86

PLANETOCENTRIC CONIC

C3 24.689 VHL 4.969 DLA 4.60 RAL 315.98 RAD 6568.0 VEL 12.086 PTH 2.16 VHP 8.018 DPA -38.02 RAP 318.05 ECC 1.4063

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 0 41	2408.33	-23.75	54.14	182.14	105.89	7 40 49	1808.3	-21.34	46.30
90.00	20 7 12	4766.49	17.23	204.69	179.71	67.18	21 26 39	4166.5	13.99	197.51
100.00	8 24 11	2138.99	-24.89	33.96	181.77	107.10	8 59 50	1539.0	-22.32	26.11
100.00	21 26 23	4511.06	18.33	185.40	179.21	65.96	22 41 34	3911.1	14.93	178.26
110.00	9 37 23	1909.90	-27.97	15.40	180.60	110.51	10 9 13	1309.9	-24.92	7.55
110.00	22 29 41	4312.91	21.25	168.87	177.71	62.57	23 41 34	3712.9	17.41	161.85

DIFFERENTIAL CORRECTIONS

TDE -.6953 TRA-1.8078 TC3 .0777 BAU .1192
RDE .0019 RRA .4609 RC3 -.3526 FAU .02865
FDE 1.2699 FRA 1.9536 FC3-1.0046 BSP 7427
BDE .6953 BRA 1.8656 BC3 .3611 FSP -705

MID-COURSE EXECUTION ACCURACY

SGT 2241.0 SGR 638.1 SG3 248.1
RRT -.8000 RRF .8503 RTF -.9287
SGB 2330.1 R23 -.1435 R13 .9348
SG1 2300.1 SG2 373.0 THA 166.81

ORBIT DETERMINATION ACCURACY

ST 1018.0 SR 160.3 SS 1118.1
CRT -.6260 CRS -.4330 CST .9734
LSA 1504.5 MSA 220.1 SSA 15.1
EL1 1023.0 EL2 124.4 ALF 174.28

LAUNCH DATE OCT 4 1965 FLIGHT TIME 124.00 ARRIVAL DATE FEB 5 1966

DISTANCE 312.929

HELIOCENTRIC CONIC

RL 149.63 LAL .00 LOL 10.56 VL 26.455 GAL 5.08 AZL 85.91 HCA 130.98 SMA 123.57 ECC .22797 INC 4.0859 VI 29.778
RP 107.49 LAP 3.08 LOP 141.62 VP 37.355 GAP -10.88 AZP 92.68 TAL 162.23 TAP 293.22 RCA 95.40 APO 151.74 V2 35.255
RC 42.583 GL 22.65 GP -19.98 ZAL 54.38 ZAP 22.54 ETS 59.05 ZAE 148.04 ETE 288.22 ZAC 56.41 ETC 144.13 CLP -10.65

PLANETOCENTRIC CONIC

C3 23.766 VHL 4.875 DLA 6.65 RAL 315.12 RAD 6568.0 VEL 12.048 PTH 2.15 VHP 7.682 DPA -39.40 RAP 320.44 ECC 1.3911

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 41 38	2463.75	-24.73	57.90	181.36	104.25	7 22 42	1863.7	-22.53	49.92
90.00	20 19 25	4692.39	15.22	200.18	177.95	65.83	21 37 38	4092.4	11.83	193.14
100.00	8 6 9	2191.16	-25.89	37.52	181.02	105.49	8 42 40	1591.2	-23.51	29.52
100.00	21 37 36	4440.21	16.31	181.11	177.43	64.60	22 51 36	3840.2	12.76	174.12
110.00	9 21 38	1954.88	-29.00	18.49	179.93	108.94	9 54 13	1354.9	-26.14	10.48
110.00	22 38 35	4249.24	19.21	165.06	175.87	61.16	23 49 24	3649.2	15.21	158.22

DIFFERENTIAL CORRECTIONS

TDE -.7221 TRA-1.7974 TC3 .1160 BAU .1305
RDE .0643 RRA .4937 RC3 -.3941 FAU .03000
FDE 1.4016 FRA 2.0490 FC3-1.0929 BSP 7651
BDE .7250 BRA 1.8639 BC3 .4108 FSP -770

MID-COURSE EXECUTION ACCURACY

SGT 2292.6 SGR 703.2 SG3 269.5
RRT -.8373 RRF .8892 RTF -.9335
SGB 2398.1 R23 -.1579 R13 .9408
SG1 2369.0 SG2 372.1 THA 165.22

ORBIT DETERMINATION ACCURACY

ST 1061.8 SR 191.2 SS 1195.4
CRT -.8670 CRS -.7329 CST .9738
LSA 1595.8 MSA 214.4 SSA 14.4
EL1 1074.7 EL2 94.1 ALF 171.06

LAUNCH DATE OCT 4 1965 FLIGHT TIME 126.00 ARRIVAL DATE FEB 7 1966

HELIOCENTRIC CONIC DISTANCE 319.690

RL 149.63 LAL .00 LOL 10.56 VL 26.557 GAL 4.83 AZL 85.59 HCA 134.22 SMA 124.19 ECC .22080 INC 4.4099 V1 29.778
RP 107.50 LAP 3.16 LOP 144.87 VP 37.424 GAP -10.18 AZP 93.08 TAL 162.41 TAP 296.64 RCA 96.77 APO 151.61 V2 35.252
RC 43.538 GL 25.04 GP -22.11 ZAL 55.34 ZAP 25.24 ETS 57.43 ZAE 145.32 ETE 290.78 ZAC 58.69 ETC 144.02 CLP -12.49

PLANETOCENTRIC CONIC

C3 23.105 VHL 4.807 DLA 8.86 RAL 314.16 RAD 6567.9 VEL 12.020 PTH 2.15 VHP 7.376 DPA -41.03 RAP 322.93 ECC 1.3803

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 20 36	2527.50	-25.73	62.31	180.76	102.26	7 2 44	1927.5	-23.78	54.18
90.00	20 32 48	4614.86	13.01	195.56	176.36	64.62	21 49 43	4014.9	9.48	188.65
100.00	7 46 16	2251.23	-26.92	41.69	180.45	103.52	8 23 47	1651.2	-24.79	33.53
100.00	21 49 50	4366.36	14.10	176.74	175.81	63.37	23 2 36	3766.4	10.42	169.89
110.00	9 4 21	2006.89	-30.09	22.15	179.47	107.03	9 37 47	1406.9	-27.47	13.94
110.00	22 48 15	4183.46	17.00	161.24	174.19	59.89	23 57 58	3583.5	12.87	154.56

DIFFERENTIAL CORRECTIONS
TDE -.7523 TRA-1.7839 TC3 .1564 BAU .1437
RDE .1365 RRA .5341 RC3 -.4380 FAU .03136
FDE 1.5497 FRA 2.1435 FC3-1.1751 BSP 7938
BDE .7645 BRA 1.8622 BC3 .4651 FSP -841

MID-COURSE EXECUTION ACCURACY
SGT 2336.3 SGR 786.7 SG3 291.4
RRT -.8682 RRF .9205 RTF -.9380
SGB 2465.2 R23 -.1703 R13 .9469
SG1 2436.6 SG2 374.2 THA 163.30

ORBIT DETERMINATION ACCURACY
ST 1104.9 SR 253.0 SS 1277.0
CRT -.9686 CRS -.8896 CST .9744
LSA 1694.5 MSA 210.1 SSA 13.5
EL1 1131.9 EL2 61.4 ALF 167.46

LAUNCH DATE OCT 4 1965 FLIGHT TIME 128.00 ARRIVAL DATE FEB 9 1966

HELIOCENTRIC CONIC DISTANCE 326.438

RL 149.63 LAL .00 LOL 10.56 VL 26.650 GAL 4.60 AZL 85.23 HCA 137.46 SMA 124.77 ECC .21418 INC 4.7716 V1 29.778
RP 107.51 LAP 3.22 LOP 148.12 VP 37.487 GAP -9.50 AZP 93.52 TAL 162.62 TAP 300.08 RCA 98.05 APO 151.50 V2 35.249
RC 44.633 GL 27.62 GP -24.57 ZAL 56.45 ZAP 28.25 ETS 56.26 ZAE 142.39 ETE 292.57 ZAC 61.08 ETC 143.80 CLP -14.39

PLANETOCENTRIC CONIC

C3 22.725 VHL 4.767 DLA 11.23 RAL 313.10 RAD 6567.9 VEL 12.004 PTH 2.14 VHP 7.104 DPA -42.95 RAP 325.57 ECC 1.3740

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 57 14	2601.06	-26.69	67.48	180.38	99.84	6 40 35	2001.1	-25.06	59.19
90.00	20 47 42	4533.22	10.58	190.79	174.99	63.58	22 3 16	3933.2	6.94	184.00
100.00	7 24 13	2320.51	-27.92	46.59	180.12	101.13	8 2 54	1720.5	-26.10	38.26
100.00	22 3 24	4289.01	11.70	172.26	174.41	62.29	23 14 53	3689.0	7.90	165.53
110.00	8 45 15	2066.93	-31.21	26.47	179.25	104.70	9 19 42	1466.9	-28.88	18.04
110.00	22 58 51	4115.35	14.63	157.37	172.71	58.76	24 7 27	3515.3	10.39	150.84

DIFFERENTIAL CORRECTIONS
TDE -.7920 TRA-1.7726 TC3 .1877 BAU .1572
RDE .2227 RRA .5843 RC3 -.4822 FAU .03247
FDE 1.7191 FRA 2.2366 FC3-1.2368 BSP 8163
BDE .8227 BRA 1.8665 BC3 .5174 FSP -910

MID-COURSE EXECUTION ACCURACY
SGT 2378.2 SGR 892.0 SG3 313.6
RRT -.8920 RRF .9445 RTF -.9420
SGB 2540.0 R23 -.1810 R13 .9528
SG1 2511.1 SG2 381.9 THA 161.05

ORBIT DETERMINATION ACCURACY
ST 1153.5 SR 343.4 SS 1365.1
CRT -.9965 CRS -.9558 CST .9755
LSA 1808.1 MSA 206.7 SSA 12.5
EL1 1203.3 EL2 27.6 ALF 163.47

LAUNCH DATE OCT 4 1965 FLIGHT TIME 130.00 ARRIVAL DATE FEB 11 1966

HELIOCENTRIC CONIC DISTANCE 333.169

RL 149.63 LAL .00 LOL 10.56 VL 26.735 GAL 4.38 AZL 84.82 HCA 140.69 SMA 125.31 ECC .20810 INC 5.1807 V1 29.778
RP 107.52 LAP 3.28 LOP 151.37 VP 37.543 GAP -8.84 AZP 94.01 TAL 162.84 TAP 303.53 RCA 99.23 APO 151.38 V2 35.244
RC 45.858 GL 30.38 GP -27.41 ZAL 57.74 ZAP 31.59 ETS 55.44 ZAE 139.24 ETE 293.69 ZAC 63.64 ETC 143.49 CLP -16.35

PLANETOCENTRIC CONIC

C3 22.658 VHL 4.760 DLA 13.76 RAL 311.93 RAD 6567.9 VEL 12.002 PTH 2.14 VHP 6.872 DPA -45.21 RAP 328.45 ECC 1.3729

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 30 58	2686.40	-27.53	73.58	180.25	96.89	6 15 44	2086.4	-26.29	65.13
90.00	21 4 37	4446.44	7.91	185.82	173.89	62.72	22 18 43	3846.4	4.19	179.11
100.00	6 59 33	2400.69	-28.84	52.37	180.05	98.22	7 39 34	1800.7	-27.40	43.86
100.00	22 18 43	4207.37	9.07	167.62	173.27	61.40	23 28 50	3607.4	5.18	160.99
110.00	8 24 4	2136.25	-32.30	31.58	179.34	101.86	8 59 40	1536.3	-30.33	22.92
110.00	23 10 41	4044.58	12.10	153.46	171.46	57.78	24 18 6	3444.6	7.76	147.05

DIFFERENTIAL CORRECTIONS
TDE -.8396 TRA-1.7609 TC3 .2139 BAU .1718
RDE .3273 RRA .6457 RC3 -.5254 FAU .03330
FDE 1.9075 FRA 2.3207 FC3-1.2724 BSP 8404
BDE .9012 BRA 1.8755 BC3 .5673 FSP -977

MID-COURSE EXECUTION ACCURACY
SGT 2413.4 SGR 1022.6 SG3 334.7
RRT -.9101 RRF .9621 RTF -.9457
SGB 2621.1 R23 -.1873 R13 .9588
SG1 2591.3 SG2 394.6 THA 158.38

ORBIT DETERMINATION ACCURACY
ST 1204.2 SR 461.6 SS 1456.5
CRT -.9992 CRS -.9823 CST .9769
LSA 1934.6 MSA 204.5 SSA 11.4
EL1 1289.5 EL2 16.8 ALF 159.04

LAUNCH DATE OCT 4 1965 FLIGHT TIME 132.00 ARRIVAL DATE FEB 13 1966

HELIOCENTRIC CONIC DISTANCE 339.881

RL 149.63 LAL .00 LOL 10.56 VL 26.813 GAL 4.18 AZL 84.35 HCA 143.93 SMA 125.80 ECC .20252 INC 5.6503 V1 29.778
RP 107.54 LAP 3.32 LOP 154.62 VP 37.594 GAP -8.20 AZP 94.57 TAL 163.07 TAP 307.00 RCA 100.32 APO 151.28 V2 35.239
RC 47.202 GL 33.33 GP -30.68 ZAL 59.19 ZAP 35.30 ETS 54.90 ZAE 135.83 ETE 294.26 ZAC 66.38 ETC 143.11 CLP -18.37

PLANETOCENTRIC CONIC

C3 22.956 VHL 4.791 DLA 16.46 RAL 310.63 RAD 6567.9 VEL 12.014 PTH 2.14 VHP 6.690 DPA -47.84 RAP 331.68 ECC 1.3778

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 0 57	2786.42	-28.14	80.83	180.40	93.31	5 47 23	2186.4	-27.38	72.25
90.00	21 24 18	4352.79	4.95	180.52	173.14	62.08	22 36 51	3752.8	1.18	173.87
100.00	6 31 34	2494.20	-29.56	59.23	180.28	94.68	7 13 8	1894.2	-28.60	50.55
100.00	22 36 22	4120.24	6.20	162.74	172.46	60.70	23 45 2	3520.2	2.25	156.18
110.00	8 0 19	2216.50	-33.26	37.64	179.79	98.39	8 37 16	1616.5	-31.74	28.74
110.00	23 24 6	3970.71	9.39	149.46	170.51	56.98	24 30 17	3370.7	4.97	143.15

DIFFERENTIAL CORRECTIONS
TDE -.8949 TRA-1.7473 TC3 .2352 BAU .1879
RDE .4564 RRA .7196 RC3 -.5652 FAU .03374
FDE 2.1102 FRA 2.3858 FC3-1.2724 BSP 8735
BDE 1.0046 BRA 1.8896 BC3 .6122 FSP -1042

MID-COURSE EXECUTION ACCURACY
SGT 2437.8 SGR 1181.7 SG3 353.1
RRT -.9238 RRF .9746 RTF -.9491
SGB 2709.1 R23 -.1877 R13 .9648
SG1 2677.6 SG2 412.0 THA 155.25

ORBIT DETERMINATION ACCURACY
ST 1254.0 SR 608.8 SS 1547.2
CRT -.9957 CRS -.9929 CST .9783
LSA 2072.5 MSA 203.7 SSA 10.2
EL1 1393.1 EL2 50.7 ALF 154.16

LAUNCH DATE OCT 4 1965 FLIGHT TIME 134.00 ARRIVAL DATE FEB 15 1966

HELIOCENTRIC CONIC DISTANCE 346.574

RL 149.63 LAL .00 LOL 10.56 VL 26.884 GAL 4.00 AZL 83.80 HCA 147.16 SMA 126.26 ECC .19744 INC 6.1987 V1 29.778
RP 107.55 LAP 3.36 LOP 157.87 VP 37.639 GAP -7.58 AZP 95.21 TAL 163.31 TAP 310.46 RCA 101.33 APO 151.18 V2 35.234
RC 48.656 GL 36.49 GP -34.45 ZAL 60.82 ZAP 39.40 ETS 54.56 ZAE 132.11 ETE 294.38 ZAC 69.36 ETC 142.70 CLP -20.44

PLANETOCENTRIC CONIC

C3 23.709 VHL 4.869 DLA 19.34 RAL 309.20 RAD 6568.0 VEL 12.045 PTH 2.15 VHP 6.568 DPA -50.89 RAP 335.42 ECC 1.3902

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 25 47	2905.83	-28.30	89.56	180.81	88.94	5 14 13	2305.8	-28.15	80.90
90.00	21 48 4	4249.12	1.62	174.72	172.86	61.73	22 58 53	3649.1	-2.17	168.09
100.00	5 59 9	2604.74	-29.89	67.42	180.82	90.38	6 42 34	2004.7	-29.52	58.64
100.00	22 57 23	4025.44	3.02	157.51	172.09	60.25	24 4 28	3425.4	-.97	150.98
110.00	7 33 23	2309.95	-33.96	44.84	180.63	94.18	8 11 53	1709.9	-33.00	35.73
110.00	23 39 39	3893.00	6.48	145.32	169.94	56.36	24 44 31	3293.0	2.01	139.08

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.9655 TRA-1.7374 TC3 .2406 BAU .2036 SGT 2457.7 SGR 1373.0 SG3 366.9 ST 1309.0 SR 789.7 SS 1635.6
RDE .6197 RRA .8086 RC3 -.5956 FAU .03337 RRT -.9333 RRF .9831 RTF -.9522 CRT -.9919 CRS -.9973 CST .9802
FDE 2.3246 FRA 2.4248 FC3-1.2185 BSP 9027 SGB 2815.2 R23 -.1822 R13 .9709 LSA 2229.5 MSA 203.6 SSA 9.0
BDE 1.1473 BRA 1.9164 BC3 .6423 FSP -1088 SG1 2781.3 SG2 435.6 THA 151.71 EL1 1526.3 EL2 86.1 ALF 148.99

LAUNCH DATE OCT 4 1965 FLIGHT TIME 136.00 ARRIVAL DATE FEB 17 1966

HELIOCENTRIC CONIC DISTANCE 353.246

RL 149.63 LAL .00 LOL 10.56 VL 26.948 GAL 3.83 AZL 83.15 HCA 150.38 SMA 126.67 ECC .19282 INC 6.8517 V1 29.778
RP 107.57 LAP 3.38 LOP 161.12 VP 37.679 GAP -6.98 AZP 95.96 TAL 163.54 TAP 313.92 RCA 102.25 APO 151.10 V2 35.227
RC 50.208 GL 39.85 GP -38.78 ZAL 62.65 ZAP 43.93 ETS 54.38 ZAE 128.00 ETE 294.16 ZAC 72.63 ETC 142.32 CLP -22.52

PLANETOCENTRIC CONIC

C3 25.057 VHL 5.006 DLA 22.39 RAL 307.62 RAD 6568.0 VEL 12.101 PTH 2.17 VHP 6.527 DPA -54.34 RAP 339.97 ECC 1.4124

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	3 42 41	3053.63	-27.64	100.32	181.38	83.59	4 33 35	2453.6	-28.24	91.70
90.00	22 18 32	4128.47	-2.27	167.99	173.27	61.77	23 27 20	3528.5	-6.03	161.33
100.00	5 20 20	2738.76	-29.53	77.36	181.59	85.16	6 5 59	2138.8	-29.89	68.58
100.00	23 23 34	3918.57	-.61	151.64	172.34	60.11	24 28 52	3318.6	-4.58	145.11
110.00	7 2 14	2419.98	-34.17	53.43	181.86	89.11	7 42 34	1820.0	-33.92	44.19
110.00	0 2 5	3810.11	3.34	140.96	169.88	55.96	1 5 35	3210.1	-1.15	134.76

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE-1.0528 TRA-1.7307 TC3 .2328 BAU .2190 SGT 2469.1 SGR 1597.9 SG3 373.1 ST 1365.7 SR 1007.8 SS 1713.9
RDE .8289 RRA .9136 RC3 -.6110 FAU .03200 RRT -.9400 RRF .9888 RTF -.9549 CRT -.9892 CRS -.9991 CST .9821
FDE 2.5363 FRA 2.4222 FC3-1.1056 BSP 9376 SGB 2941.1 R23 -.1704 R13 .9769 LSA 2403.5 MSA 204.1 SSA 7.8
BDE 1.3399 BRA 1.9570 BC3 .6539 FSP -1114 SG1 2904.4 SG2 463.4 THA 147.77 EL1 1693.1 EL2 119.2 ALF 143.66

LAUNCH DATE OCT 4 1965 FLIGHT TIME 138.00 ARRIVAL DATE FEB 19 1966

HELIOCENTRIC CONIC DISTANCE 359.893

RL 149.63 LAL .00 LOL 10.56 VL 27.006 GAL 3.68 AZL 82.35 HCA 153.60 SMA 127.05 ECC .18864 INC 7.6480 V1 29.778
RP 107.60 LAP 3.39 LOP 164.37 VP 37.714 GAP -6.40 AZP 96.86 TAL 163.77 TAP 317.37 RCA 103.08 APO 151.02 V2 35.220
RC 51.850 GL 43.41 GP -43.69 ZAL 64.67 ZAP 48.88 ETS 54.29 ZAE 123.43 ETE 293.75 ZAC 76.22 ETC 142.04 CLP -24.57

PLANETOCENTRIC CONIC

C3 27.237 VHL 5.219 DLA 25.60 RAL 305.85 RAD 6568.1 VEL 12.191 PTH 2.19 VHP 6.591 DPA -58.15 RAP 345.79 ECC 1.4483

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	2 44 6	3253.85	-25.31	114.49	181.70	76.86	3 38 20	2653.9	-26.87	106.17
90.00	23 3 0	3969.56	-7.33	159.06	174.82	62.57	24 9 10	3369.6	-10.95	152.25
100.00	4 30 39	2910.37	-27.90	89.84	182.33	78.80	5 19 9	2310.4	-29.16	81.27
100.00	0 3 5	3788.27	-5.01	144.47	173.55	60.49	1 6 13	3188.3	-8.90	137.85
110.00	6 25 8	2552.16	-33.56	63.69	183.38	83.07	7 7 40	1952.2	-34.15	54.50
110.00	0 25 5	3719.25	-.14	136.22	170.52	55.82	1 27 4	3119.3	-4.62	130.00

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE-1.1606 TRA-1.7263 TC3 .2163 BAU .2343 SGT 2468.0 SGR 1854.4 SG3 368.0 ST 1421.6 SR 1264.3 SS 1771.7
RDE 1.0990 RRA 1.0335 RC3 -.6060 FAU .02952 RRT -.9448 RRF .9925 RTF -.9575 CRT -.9878 CRS -.9997 CST .9840
FDE 2.7227 FRA 2.3595 FC3 -.9383 BSP 9855 SGB 3087.0 R23 -.1527 R13 .9825 LSA 2591.6 MSA 204.8 SSA 6.6
BDE 1.5984 BRA 2.0120 BC3 .6434 FSP -1112 SG1 3047.6 SG2 491.8 THA 143.52 EL1 1896.8 EL2 147.8 ALF 138.39

LAUNCH DATE OCT 4 1965 FLIGHT TIME 140.00 ARRIVAL DATE FEB 21 1966

HELIOCENTRIC CONIC DISTANCE 366.514

RL 149.63 LAL .00 LOL 10.56 VL 27.058 GAL 3.55 AZL 81.35 HCA 156.81 SMA 127.40 ECC .18489 INC 8.6472 V1 29.778
RP 107.62 LAP 3.39 LOP 167.61 VP 37.744 GAP -5.84 AZP 97.96 TAL 163.99 TAP 320.80 RCA 103.84 APO 150.95 V2 35.212
RC 53.572 GL 47.16 GP -49.21 ZAL 66.90 ZAP 54.21 ETS 54.30 ZAE 118.37 ETE 293.32 ZAC 80.19 ETC 142.03 CLP -26.47

PLANETOCENTRIC CONIC

C3 30.663 VHL 5.537 DLA 28.96 RAL 303.86 RAD 6568.2 VEL 12.330 PTH 2.22 VHP 6.804 DPA -62.16 RAP 353.66 ECC 1.5046

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
83.68	23 51 17	3810.72	-17.33	152.35	179.55	66.43	24 54 47	3210.7	-20.37	144.95
96.32	1 39 56	3471.92	-17.32	127.51	179.55	66.42	2 37 48	2871.9	-20.36	120.11
100.00	3 11 40	3177.37	-23.02	108.15	181.95	70.38	4 4 37	2577.4	-25.48	100.22
100.00	1 6 10	3580.51	-11.80	132.79	176.81	62.34	2 5 50	2980.5	-15.41	125.86
110.00	5 38 32	2717.45	-31.50	76.13	184.83	75.99	6 23 50	2117.5	-33.11	67.27
110.00	0 55 46	3613.18	-4.18	130.68	172.23	56.04	1 56 0	3013.2	-8.61	124.39

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE-1.3037 TRA-1.7337 TC3 .1848 BAU .2456 SGT 2462.7 SGR 2136.7 SG3 349.3 ST 1482.6 SR 1559.6 SS 1801.2
RDE 1.4530 RRA 1.1677 RC3 -.5700 FAU .02554 RRT -.9480 RRF .9948 RTF -.9601 CRT -.9874 CRS-1.0000 CST .9861
FDE 2.8609 FRA 2.2288 FC3 -.7210 BSP 10394 SGB 3260.4 R23 -.1308 R13 .9876 LSA 2798.7 MSA 205.6 SSA 5.4
BDE 1.9522 BRA 2.0903 BC3 .5992 FSP -1069 SG1 3218.6 SG2 520.5 THA 139.27 EL1 2145.1 EL2 170.8 ALF 133.53

LAUNCH DATE OCT 4 1965 FLIGHT TIME 142.00 ARRIVAL DATE FEB 23 1966

HELIOCENTRIC CONIC DISTANCE 373.105

RL 149.63 LAL .00 LOL 10.56 VL 27.104 GAL 3.43 AZL 80.05 HCA 160.02 SMA 127.70 ECC .18154 INC 9.9467 VI 29.778
RP 107.64 LAP 3.38 LOP 170.86 VP 37.770 GAP -5.29 AZP 99.36 TAL 164.19 TAP 324.21 RCA 104.52 APO 150.89 V2 35.204
RC 55.368 GL 51.06 GP -55.31 ZAL 69.34 ZAP 59.84 ETS 54.51 ZAE 112.76 ETE 293.18 ZAC 84.56 ETC 142.57 CLP -28.01

PLANETOCENTRIC CONIC

C3 36.098 VHL 6.008 DLA 32.41 RAL 301.58 RAD 6568.4 VEL 12.549 PTH 2.27 VHP 7.230 DPA -65.99 RAP 4.81 ECC 1.5941

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
73.54	22 27 18	4089.69	-17.98	173.54	180.85	62.57	23 35 27	3489.7	-21.51	166.33
106.46	2 45 44	3275.20	-17.97	113.14	180.85	62.56	3 40 20	2675.2	-21.50	105.92
73.54	22 27 18	4089.69	-17.98	173.54	180.85	62.57	23 35 27	3489.7	-21.51	166.33
106.46	2 45 44	3275.20	-17.97	113.14	180.85	62.56	3 40 20	2675.2	-21.50	105.92
110.00	4 31 7	2949.95	-26.51	92.36	185.13	67.59	5 20 17	2350.0	-29.31	84.30
110.00	1 45 1	3462.94	-9.83	122.71	175.98	57.10	2 42 44	2862.9	-14.10	116.21

DIFFERENTIAL CORRECTIONS
TDE-1.5006 TRA-1.7583 TC3 .1478 BAU .2510
RDE 1.9186 RRA 1.3080 RC3 -.4987 FAU .02025
FDE 2.9178 FRA 2.0215 FC3 -.4858 BSP 11146
BDE 2.4357 BRA 2.1914 BC3 .5202 FSP -989

MID-COURSE EXECUTION ACCURACY
SGT 2454.3 SGR 2426.8 SG3 315.1
RRT -.9501 RRF .9960 RTF -.9632
SGB 3451.6 R23 -.1058 R13 .9919
SG1 3408.2 SG2 545.2 THA 135.34

ORBIT DETERMINATION ACCURACY
ST 1550.1 SR 1882.6 SS 1790.0
CRT -.9877 CRS-1.0000 CST .9883
LSA 3018.0 MSA 206.3 SSA 4.3
EL1 2431.4 EL2 187.6 ALF 129.40

LAUNCH DATE OCT 4 1965 FLIGHT TIME 144.00 ARRIVAL DATE FEB 25 1966

HELIOCENTRIC CONIC DISTANCE 379.656

RL 149.63 LAL .00 LOL 10.56 VL 27.146 GAL 3.33 AZL 78.28 HCA 163.21 SMA 127.98 ECC .17858 INC11.7167 VI 29.778
RP 107.67 LAP 3.36 LOP 174.10 VP 37.791 GAP -4.76 AZP 101.23 TAL 164.36 TAP 327.56 RCA 105.13 APO 150.84 V2 35.195
RC 57.230 GL 55.05 GP -61.91 ZAL 72.01 ZAP 65.60 ETS 55.34 ZAE 106.60 ETE 293.91 ZAC 89.36 ETC 144.24 CLP -28.66

PLANETOCENTRIC CONIC

C3 45.075 VHL 6.714 DLA 35.87 RAL 298.94 RAD 6568.7 VEL 12.901 PTH 2.35 VHP 7.980 DPA -68.94 RAP 20.70 ECC 1.7418

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
67.00	21 37 16	4266.21	-17.75	187.17	182.68	58.31	22 48 22	3666.2	-21.81	180.26
113.00	3 14 40	3210.77	-17.73	107.98	182.67	58.30	4 8 10	2610.8	-21.79	101.07
67.00	21 37 16	4266.21	-17.75	187.17	182.68	58.31	22 48 22	3666.2	-21.81	180.26
113.00	3 14 40	3210.77	-17.73	107.98	182.67	58.30	4 8 10	2610.8	-21.79	101.07
67.00	21 37 16	4266.21	-17.75	187.17	182.68	58.31	22 48 22	3666.2	-21.81	180.26
113.00	3 14 40	3210.77	-17.73	107.98	182.67	58.30	4 8 10	2610.8	-21.79	101.07

DIFFERENTIAL CORRECTIONS
TDE-1.7929 TRA-1.8083 TC3 .1222 BAU .2505
RDE 2.5232 RRA 1.4275 RC3 -.3972 FAU .01449
FDE 2.8620 FRA 1.7365 FC3 -.2784 BSP 12570
BDE 3.0954 BRA 2.3039 BC3 .4156 FSP -899

MID-COURSE EXECUTION ACCURACY
SGT 2448.4 SGR 2679.8 SG3 265.6
RRT -.9518 RRF .9964 RTF -.9674
SGB 3629.8 R23 -.0789 R13 .9952
SG1 3586.2 SG2 561.0 THA 132.29

ORBIT DETERMINATION ACCURACY
ST 1633.3 SR 2200.1 SS 1726.0
CRT -.9886 CRS -.9999 CST .9907
LSA 3231.9 MSA 205.7 SSA 3.4
EL1 2733.0 EL2 197.7 ALF 126.50

LAUNCH DATE OCT 4 1965 FLIGHT TIME 146.00 ARRIVAL DATE FEB 27 1966

HELIOCENTRIC CONIC DISTANCE 386.171

RL 149.63 LAL .00 LOL 10.56 VL 27.183 GAL 3.25 AZL 75.72 HCA 166.37 SMA 128.23 ECC .17602 INC14.2830 VI 29.778
RP 107.70 LAP 3.33 LOP 177.34 VP 37.809 GAP -4.25 AZP 103.90 TAL 164.47 TAP 330.84 RCA 105.66 APO 150.80 V2 35.186
RC 59.152 GL 58.97 GP -68.88 ZAL 74.88 ZAP 71.28 ETS 58.30 ZAE 99.88 ETE 297.13 ZAC 94.66 ETC 148.69 CLP -27.00

PLANETOCENTRIC CONIC

C3 61.051 VHL 7.814 DLA 39.15 RAL 295.83 RAD 6569.1 VEL 13.506 PTH 2.47 VHP 9.265 DPA -69.87 RAP 41.26 ECC 2.0047

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
61.76	20 58 0	4419.96	-16.21	198.63	184.93	53.86	22 11 39	3820.0	-20.80	192.14
118.24	3 29 9	3207.31	-16.19	106.61	184.92	53.86	4 22 37	2607.3	-20.79	100.12
61.76	20 58 0	4419.96	-16.21	198.63	184.93	53.86	22 11 39	3820.0	-20.80	192.14
118.24	3 29 9	3207.31	-16.19	106.61	184.92	53.86	4 22 37	2607.3	-20.79	100.12
61.76	20 58 0	4419.96	-16.21	198.63	184.93	53.86	22 11 39	3820.0	-20.80	192.14
118.24	3 29 9	3207.31	-16.19	106.61	184.92	53.86	4 22 37	2607.3	-20.79	100.12

DIFFERENTIAL CORRECTIONS
TDE-2.4774 TRA-2.0682 TC3 .0179 BAU .1809
RDE 3.3570 RRA 1.5430 RC3 -.2209 FAU .00488
FDE 2.7786 FRA 1.4880 FC3 -.0692 BSP 11540
BDE 4.1722 BRA 2.5804 BC3 .2216 FSP -642

MID-COURSE EXECUTION ACCURACY
SGT 2669.4 SGR 2882.2 SG3 214.1
RRT -.9533 RRF .9947 RTF -.9758
SGB 3928.5 R23 -.0497 R13 .9976
SG1 3882.6 SG2 598.3 THA 132.70

ORBIT DETERMINATION ACCURACY
ST 1909.1 SR 2500.3 SS 1665.7
CRT -.9907 CRS -.9996 CST .9942
LSA 3553.4 MSA 209.3 SSA 2.7
EL1 3139.0 EL2 206.9 ALF 127.29

LAUNCH DATE OCT 4 1965 FLIGHT TIME 148.00 ARRIVAL DATE MAR 1 1966

HELIOCENTRIC CONIC DISTANCE 392.607

RL 149.63 LAL .00 LOL 10.56 VL 27.215 GAL 3.19 AZL 71.65 HCA 169.49 SMA 128.45 ECC .17382 INC18.3490 VI 29.778
RP 107.73 LAP 3.29 LOP 180.58 VP 37.823 GAP -3.77 AZP 108.06 TAL 164.53 TAP 334.02 RCA 106.12 APO 150.77 V2 35.176
RC 61.127 GL 62.45 GP -75.91 ZAL 77.97 ZAP 76.63 ETS 70.10 ZAE 92.44 ETE 309.59 ZAC 100.69 ETC 162.76 CLP -18.12

PLANETOCENTRIC CONIC

C3 93.082 VHL 9.648 DLA 41.85 RAL 292.13 RAD 6569.8 VEL 14.643 PTH 2.65 VHP 11.525 DPA -67.71 RAP 62.38 ECC 2.5319

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
57.79	20 25 25	4567.68	-12.92	208.56	187.31	49.84	21 41 33	3967.7	-17.99	202.55
122.21	3 32 13	3255.19	-12.90	108.02	187.30	49.83	4 26 28	2655.2	-17.98	102.02
57.79	20 25 25	4567.68	-12.92	208.56	187.31	49.84	21 41 33	3967.7	-17.99	202.55
122.21	3 32 13	3255.19	-12.90	108.02	187.30	49.83	4 26 28	2655.2	-17.98	102.02
57.79	20 25 25	4567.68	-12.92	208.56	187.31	49.84	21 41 33	3967.7	-17.99	202.55
122.21	3 32 13	3255.19	-12.90	108.02	187.30	49.83	4 26 28	2655.2	-17.98	102.02

DIFFERENTIAL CORRECTIONS
TDE-4.2537 TRA-2.6071 TC3 -.0335 BAU .0993
RDE 3.8408 RRA 1.2210 RC3 -.0725 FAU-.00261
FDE 2.5951 FRA 1.2018 FC3 .0243 BSP 12545
BDE 5.7311 BRA 2.8789 BC3 .0798 FSP -495

MID-COURSE EXECUTION ACCURACY
SGT 3272.0 SGR 2483.9 SG3 156.8
RRT -.9568 RRF .9850 RTF -.9913
SGB 4108.0 R23 -.0194 R13 .9990
SG1 4066.7 SG2 581.0 THA 143.13

ORBIT DETERMINATION ACCURACY
ST 2602.0 SR 2299.6 SS 1561.1
CRT -.9934 CRS -.9984 CST .9983
LSA 3802.1 MSA 197.8 SSA 2.1
EL1 3466.9 EL2 197.5 ALF 138.55

LAUNCH DATE OCT 4 1965 FLIGHT TIME 150.00 ARRIVAL DATE MAR 3 1966

DISTANCE 398.914

HELIOCENTRIC CONIC

RL 149.63 LAL .00 LOL 10.56 VL 27.243 GAL 3.16 AZL 64.28 HCA 172.52 SMA 128.64 ECC .17206 INC25.7177 V1 29.778
RP 107.76 LAP 3.24 LOP 183.82 VP 37.834 GAP -3.32 AZP 115.53 TAL 164.46 TAP 336.98 RCA 106.50 APO 150.77 V2 35.166
RC 63.151 GL 64.48 GP -80.89 ZAL 81.20 ZAP 81.36 ETS 126.17 ZAE 83.67 ETE 6.51 ZAC 108.19 ETC 221.95 CLP 18.53

PLANETOCENTRIC CONIC

C3 171.072 VHL 13.079 DLA 42.97 RAL 287.84 RAD 6570.9 VEL 17.100 PTH 2.93 VHP 15.869 DPA -61.86 RAP 79.06 ECC 3.8154

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
56.22	20 1 45	4704.04	-7.81	215.99	189.39	47.61	21 20 9	4104.0	-13.15	210.35
123.78	3 21 40	3355.89	-7.80	112.32	189.37	47.61	4 17 36	2755.9	-13.14	106.68
56.22	20 1 45	4704.04	-7.81	215.99	189.39	47.61	21 20 9	4104.0	-13.15	210.35
123.78	3 21 40	3355.89	-7.80	112.32	189.37	47.61	4 17 36	2755.9	-13.14	106.68
56.22	20 1 45	4704.04	-7.81	215.99	189.39	47.61	21 20 9	4104.0	-13.15	210.35
123.78	3 21 40	3355.89	-7.80	112.32	189.37	47.61	4 17 36	2755.9	-13.14	106.68

DIFFERENTIAL CORRECTIONS

TDE-7.3300 TRA-2.7537 TC3 -.1269 BAU .3413
RDE-4.1467 RRA-2.0994 RC3 -.0785 FAU-.01191
FDE 2.5005 FRA 1.0152 FC3 .0603 BSP 13140
BDE 8.4216 BRA 3.4627 BC3 .1492 FSP -353

MID-COURSE EXECUTION ACCURACY

SGT 3624.7 SGR 2218.4 SG3 109.1
RRT .9915 RRF -.9947 RTF -.9989
SGB 4249.7 R23 .0030 R13 -.9994
SG1 4242.5 SG2 246.5 THA 31.37

ORBIT DETERMINATION ACCURACY

ST 3248.8 SR 1855.2 SS 1522.6
CRT .9987 CRS .9992 CST .9999
LSA 4038.3 MSA 83.5 SSA 1.7
EL1 3740.3 EL2 83.5 ALF 29.71

LAUNCH DATE OCT 4 1965 FLIGHT TIME 152.00 ARRIVAL DATE MAR 5 1966

DISTANCE 404.879

HELIOCENTRIC CONIC

RL 149.63 LAL .00 LOL 10.56 VL 27.267 GAL 3.21 AZL 47.83 HCA 175.27 SMA 128.80 ECC .17091 INC42.1676 V1 29.778
RP 107.80 LAP 3.18 LOP 187.05 VP 37.841 GAP -2.97 AZP 132.07 TAL 164.09 TAP 339.36 RCA 106.79 APO 150.81 V2 35.155
RC 65.219 GL 61.78 GP -74.36 ZAL 84.40 ZAP 85.18 ETS 174.74 ZAE 71.29 ETE 55.31 ZAC 119.76 ETC 274.96 CLP 71.82

PLANETOCENTRIC CONIC

C3 430.180 VHL 20.741 DLA 39.39 RAL 283.53 RAD 6572.2 VEL 23.484 PTH 3.29 VHP 25.680 DPA -50.42 RAP 90.29 ECC 8.0797

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
61.39	20 7 11	4759.94	-2.17	215.91	190.90	50.66	21 26 31	4159.9	-7.22	210.10
118.61	2 41 47	3537.51	-2.15	123.07	190.88	50.66	3 40 45	2937.5	-7.20	117.26
61.39	20 7 11	4759.94	-2.17	215.91	190.90	50.66	21 26 31	4159.9	-7.22	210.10
118.61	2 41 47	3537.51	-2.15	123.07	190.88	50.66	3 40 45	2937.5	-7.20	117.26
61.39	20 7 11	4759.94	-2.17	215.91	190.90	50.66	21 26 31	4159.9	-7.22	210.10
118.61	2 41 47	3537.51	-2.15	123.07	190.88	50.66	3 40 45	2937.5	-7.20	117.26

DIFFERENTIAL CORRECTIONS

TDE-4.8112 TRA -.2876 TC3 -.1032 BAU 1.5398
RD-12.5201 RRA-4.9258 RC3 -.2470 FAU-.03102
FDE 2.7941 FRA 1.0838 FC3 .0624 BSP 12921
BDE13.4127 BRA 4.9342 BC3 .2677 FSP -249

MID-COURSE EXECUTION ACCURACY

SGT 1400.1 SGR 4014.0 SG3 77.9
RRT .9282 RRF -.9994 RTF -.9320
SGB 4251.2 R23 -.0268 R13 -.9991
SG1 4222.3 SG2 495.3 THA 71.80

ORBIT DETERMINATION ACCURACY

ST 1329.5 SR 3498.9 SS 1731.9
CRT .9918 CRS 1.0000 CST .9920
LSA 4121.1 MSA 160.7 SSA 1.8
EL1 3739.6 EL2 159.2 ALF 69.31

LAUNCH DATE OCT 4 1965 FLIGHT TIME 154.00 ARRIVAL DATE MAR 7 1966

DISTANCE 409.521

HELIOCENTRIC CONIC

RL 149.63 LAL .00 LOL 10.56 VL 27.287 GAL 3.50 AZL 5.16 HCA 176.88 SMA 128.94 ECC .17145 INC84.8343 V1 29.778
RP 107.83 LAP 3.10 LOP 190.28 VP 37.845 GAP -2.96 AZP 174.83 TAL 162.62 TAP 339.50 RCA 106.83 APO 151.05 V2 35.143
RC 67.327 GL 44.70 GP -50.54 ZAL 86.78 ZAP 87.46 ETS 181.80 ZAE 48.96 ETE 56.64 ZAC 142.63 ETC 292.38 CLP 85.99

PLANETOCENTRIC CONIC

C31486.969 VHL 38.561 DLA 21.86 RAL 281.51 RAD 6573.2 VEL 40.103 PTH 3.56 VHP 48.633 DPA -26.09 RAP 97.24 ECC25.4717

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	2 5 26	3657.82	-16.52	140.78	199.98	66.67	3 6 24	3057.8	-19.54	133.40
90.00	20 27 25	4782.39	17.65	205.67	185.82	67.49	21 47 8	4182.4	14.45	198.45
100.00	3 42 11	3345.85	-18.77	118.85	201.01	66.30	4 37 57	2745.8	-21.81	111.38
100.00	21 33 21	4569.59	19.91	189.03	184.83	67.23	22 49 31	3969.6	16.65	181.75
110.00	5 22 33	3031.84	-24.28	97.67	203.68	65.16	6 13 5	2431.8	-27.42	89.91
110.00	22 9 29	4456.36	25.47	177.87	182.25	66.39	23 23 45	3856.4	22.06	170.38

DIFFERENTIAL CORRECTIONS

TDE-6.6127 TRA .6772 TC3 -.1084 BAU 5.4812
RD-16.0272 RRA-8.1673 RC3 -.2535 FAU-.10055
FDE 3.5715 FRA 1.8857 FC3 .0585 BSP 10914
BDE17.3378 BRA 8.1953 BC3 .2757 FSP -209

MID-COURSE EXECUTION ACCURACY

SGT 1294.6 SGR 3347.2 SG3 65.6
RRT .8845 RRF -.9998 RTF -.8810
SGB 3588.8 R23 -.0636 R13 -.9978
SG1 3543.1 SG2 570.7 THA 70.59

ORBIT DETERMINATION ACCURACY

ST 983.4 SR 2414.2 SS 2262.8
CRT .9808 CRS 1.0000 CST .9797
LSA 3446.8 MSA 186.9 SSA 1.5
EL1 2600.7 EL2 178.0 ALF 68.11

LAUNCH DATE OCT 4 1965 FLIGHT TIME 156.00 ARRIVAL DATE MAR 9 1966

DISTANCE 420.722

HELIOCENTRIC CONIC

RL 149.63 LAL .00 LOL 10.56 VL 27.304 GAL 2.62 AZL 135.74 HCA 184.22 SMA 129.06 ECC .16569 INC45.7408 V1 29.778
RP 107.87 LAP 3.02 LOP 193.51 VP 37.846 GAP -1.30 AZP 44.34 TAL 166.63 TAP 350.85 RCA 107.67 APO 150.44 V2 35.132
RC 69.470 GL -60.89 GP 71.13 ZAL 85.53 ZAP 87.92 ETS 196.48 ZAE 80.68 ETE 309.11 ZAC 94.27 ETC 89.07 CLP 83.54

PLANETOCENTRIC CONIC

C3 499.951 VHL 22.360 DLA -79.63 RAL 336.27 RAD 6572.4 VEL 24.925 PTH 3.34 VHP 29.343 DPA 84.41 RAP 278.96 ECC 9.2279

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
11.79	9 18 22	2416.30	2.48	83.25	245.80	169.62	9 58 39	1816.3	10.35	82.21
168.21	20 31 22	619.20	2.48	282.07	245.82	169.62	20 41 42	19.2	10.35	281.03
11.79	9 18 22	2416.30	2.48	83.25	245.80	169.62	9 58 39	1816.3	10.35	82.21
168.21	20 31 22	619.20	2.48	282.07	245.82	169.62	20 41 42	19.2	10.35	281.03
11.79	9 18 22	2416.30	2.48	83.25	245.80	169.62	9 58 39	1816.3	10.35	82.21
168.21	20 31 22	619.20	2.48	282.07	245.82	169.62	20 41 42	19.2	10.35	281.03

DIFFERENTIAL CORRECTIONS

TDE 3.4194 TRA-1.4715 TC3 -.1596 BAU 1.9580
RDE -.9639 RRA 2.4696 RC3 .2456 FAU-.03327
FDE -.4784 FRA .6034 FC3 .0576 BSP 13464
BDE 3.5526 BRA 2.8748 BC3 .2929 FSP -245

MID-COURSE EXECUTION ACCURACY

SGT 2380.8 SGR 3692.5 SG3 78.2
RRT -.9520 RRF .9976 RTF -.9705
SGB 4393.5 R23 -.0217 R13 .9996
SG1 4349.8 SG2 618.4 THA 122.27

ORBIT DETERMINATION ACCURACY

ST 1078.6 SR 1084.0 SS 723.9
CRT -.7529 CRS -.9772 CST .8754
LSA 1601.7 MSA 545.1 SSA 1.1
EL1 1431.7 EL2 537.5 ALF 134.81

LAUNCH DATE OCT 4 1965 FLIGHT TIME 158.00 ARRIVAL DATE MAR 11 1966

HELIOCENTRIC CONIC DISTANCE 426.474

RL	149.63	LAL	.00	LOL	10.56	VL	27.318	GAL	2.73	AZL	115.44	HCA	186.83	SMA	129.15	ECC	.16543	INC	25.4443
RP	107.90	LAP	2.93	LOP	196.74	VP	37.845	GAP	-1.02	AZP	64.71	TAL	166.00	TAP	352.83	RCA	107.78	APO	150.51
RC	71.643	GL	-65.11	GP	84.48	ZAL	82.00	ZAP	87.05	ETS	243.26	ZAE	93.66	ETE	353.21	ZAC	81.20	ETC	131.87
V1	29.778	V2	35.120	CLP	57.72														

PLANETOCENTRIC CONIC

C3	167.029	VHL	12.924	DLA	-77.80	RAL	7.08	RAD	6570.8	VEL	16.981	PTH	2.92	VHP	17.259	DPA	70.52	RAP	284.44
ECC	3.7489																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
13.89	11 25 25	2277.47	11.50	80.73	274.55	167.55	12 3 22	1677.5	19.30	79.33
166.11	22 30 11	5774.34	11.50	259.50	274.57	167.55	24 6 25	5174.3	19.31	258.09
13.89	11 25 25	2277.47	11.50	80.73	274.55	167.55	12 3 22	1677.5	19.30	79.33
166.11	22 30 11	5774.34	11.50	259.50	274.57	167.55	24 6 25	5174.3	19.31	258.09
13.89	11 25 25	2277.47	11.50	80.73	274.55	167.55	12 3 22	1677.5	19.30	79.33
166.11	22 30 11	5774.34	11.50	259.50	274.57	167.55	24 6 25	5174.3	19.31	258.09

DIFFERENTIAL CORRECTIONS

TDE	-3.2497	TRA	-2.0294	TC3	-.1500	BAU	.3622												
RDE	2.0858	RRA	.3997	RC3	.0617	FAU	-.00615												
FDE	1.0696	FRA	.5596	FC3	.0319	BSP	14717												
BDE	3.8615	BRA	2.0683	BC3	.1622	FSP	-352												

MID-COURSE EXECUTION ACCURACY

SGT	4512.1	SGR	1258.6	SG3	109.6				
RRT	-.8744	RRF	.8994	RTF	-.9981				
SGB	4684.3	R23	-.0232	R13	.9994				
SG1	4646.6	SG2	593.0	THA	166.06				

ORBIT DETERMINATION ACCURACY

ST	1925.5	SR	958.3	SS	880.9				
CRT	-.8962	CRS	-.9311	CST	.9963				
LSA	2291.8	MSA	387.0	SSA	1.5				
EL1	2115.7	EL2	387.0	ALF	155.07				

LAUNCH DATE OCT 4 1965 FLIGHT TIME 160.00 ARRIVAL DATE MAR 13 1966

HELIOCENTRIC CONIC DISTANCE 432.625

RL	149.63	LAL	.00	LOL	10.56	VL	27.329	GAL	2.78	AZL	106.83	HCA	189.81	SMA	129.22	ECC	.16504	INC	16.8339
RP	107.94	LAP	2.83	LOP	199.96	VP	37.841	GAP	-.64	AZP	73.40	TAL	165.69	TAP	355.50	RCA	107.90	APO	150.55
RC	73.845	GL	-62.71	GP	85.18	ZAL	78.17	ZAP	86.94	ETS	313.64	ZAE	101.31	ETE	61.70	ZAC	73.70	ETC	197.83
V1	29.778	V2	35.108	CLP	-50.60														

PLANETOCENTRIC CONIC

C3	79.116	VHL	8.895	DLA	-73.90	RAL	3.77	RAD	6569.5	VEL	14.159	PTH	2.58	VHP	12.035	DPA	62.33	RAP	286.19
ECC	2.3021																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
18.36	11 21 13	2118.44	21.14	75.25	267.35	162.71	11 56 31	1518.4	28.75	72.97
161.64	22 7 59	5631.48	21.14	258.47	267.38	162.71	23 41 50	5031.5	28.76	256.18
18.36	11 21 13	2118.44	21.14	75.25	267.35	162.71	11 56 31	1518.4	28.75	72.97
161.64	22 7 59	5631.48	21.14	258.47	267.38	162.71	23 41 50	5031.5	28.76	256.18
18.36	11 21 13	2118.44	21.14	75.25	267.35	162.71	11 56 31	1518.4	28.75	72.97
161.64	22 7 59	5631.48	21.14	258.47	267.38	162.71	23 41 50	5031.5	28.76	256.18

DIFFERENTIAL CORRECTIONS

TDE	-1.8376	TRA	-.9002	TC3	-.0187	BAU	.1346												
RDE	-1.6148	RRA	-1.7278	RC3	.1259	FAU	.00659												
FDE	.9731	FRA	.7496	FC3	-.0721	BSP	14953												
BDE	2.4463	BRA	1.9482	BC3	.1273	FSP	-512												

MID-COURSE EXECUTION ACCURACY

SGT	2403.2	SGR	4152.5	SG3	160.3				
RRT	.9638	RRF	-.9957	RTF	-.9822				
SGB	4797.8	R23	.0186	R13	-.9991				
SG1	4765.1	SG2	558.7	THA	60.40				

ORBIT DETERMINATION ACCURACY

ST	1339.7	SR	1591.2	SS	848.5				
CRT	.9320	CRS	.9867	CST	.9785				
LSA	2214.5	MSA	377.9	SSA	2.1				
EL1	2045.5	EL2	377.8	ALF	50.26				

LAUNCH DATE OCT 4 1965 FLIGHT TIME 162.00 ARRIVAL DATE MAR 15 1966

HELIOCENTRIC CONIC DISTANCE 438.887

RL	149.63	LAL	.00	LOL	10.56	VL	27.336	GAL	2.82	AZL	102.26	HCA	192.90	SMA	129.28	ECC	.16478	INC	12.2630
RP	107.98	LAP	2.72	LOP	203.18	VP	37.835	GAP	-.23	AZP	78.04	TAL	165.46	TAP	358.36	RCA	107.97	APO	150.58
RC	76.070	GL	-58.17	GP	79.71	ZAL	74.34	ZAP	87.66	ETS	337.32	ZAE	106.86	ETE	83.94	ZAC	68.12	ETC	217.12
V1	29.778	V2	35.095	CLP	-76.81														

PLANETOCENTRIC CONIC

C3	46.595	VHL	6.826	DLA	-69.56	RAL	355.84	RAD	6568.7	VEL	12.960	PTH	2.36	VHP	9.300	DPA	56.20	RAP	286.95
ECC	1.7668																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
23.38	11 0 6	1978.13	28.64	67.86	254.08	156.55	11 33 4	1378.1	35.92	64.35
156.62	21 25 48	5515.50	28.65	256.25	254.10	156.55	22 57 43	4915.5	35.93	252.74
23.38	11 0 6	1978.13	28.64	67.86	254.08	156.55	11 33 4	1378.1	35.92	64.35
156.62	21 25 48	5515.50	28.65	256.25	254.10	156.55	22 57 43	4915.5	35.93	252.74
23.38	11 0 6	1978.13	28.64	67.86	254.08	156.55	11 33 4	1378.1	35.92	64.35
156.62	21 25 48	5515.50	28.65	256.25	254.10	156.55	22 57 43	4915.5	35.93	252.74

DIFFERENTIAL CORRECTIONS

TDE	-.7830	TRA	-.1630	TC3	-.0794	BAU	.2995												
RDE	-1.0585	RRA	-1.9319	RC3	.4742	FAU	.01723												
FDE	.7387	FRA	1.0403	FC3	-.3200	BSP	15180												
BDE	1.3166	BRA	1.9388	BC3	.4808	FSP	-729												

MID-COURSE EXECUTION ACCURACY

SGT	772.8	SGR	4770.8	SG3	225.7				
RRT	.6327	RRF	-.9981	RTF	-.6635				
SGB	4833.0	R23	.0285	R13	-.9985				
SG1	4796.2	SG2	595.3	THA	84.06				

ORBIT DETERMINATION ACCURACY

ST	667.7	SR	1652.1	SS	782.0				
CRT	.6777	CRS	.9924	CST	.7628				
LSA	1887.6	MSA	473.0	SSA	2.8				
EL1	1718.3	EL2	472.1	ALF	73.39				

LAUNCH DATE OCT 4 1965 FLIGHT TIME 164.00 ARRIVAL DATE MAR 17 1966

HELIOCENTRIC CONIC DISTANCE 445.181

RL	149.63	LAL	.00	LOL	10.56	VL	27.342	GAL	2.86	AZL	99.45	HCA	196.04	SMA	129.31	ECC	.16469	INC	9.4487
RP	108.02	LAP	2.60	LOP	206.40	VP	37.827	GAP	.18	AZP	80.91	TAL	165.22	TAP	1.27	RCA	108.02	APO	150.61
RC	78.316	GL	-52.87	GP	74.72	ZAL	70.66	ZAP	89.17	ETS	348.81	ZAE	111.31	ETE	94.52	ZAC	63.35	ETC	224.39
V1	29.778	V2	35.082	CLP	-86.83														

PLANETOCENTRIC CONIC

C3	31.612	VHL	5.622	DLA	-64.78	RAL	348.89	RAD	6568.3	VEL	12.369	PTH	2.23	VHP	7.663	DPA	51.00	RAP	287.10
ECC	1.5203																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
28.95	10 44 49	1862.51	33.35	58.91	240.82	149.33	11 15 51	1262.5	40.12	54.00
151.05	20 45 37	5435.45	33.36	253.38	240.83	149.32	22 16 13	4835.5	40.13	248.47
28.95	10 44 49	1862.51	33.35	58.91	240.82	149.33	11 15 51	1262.5	40.12	54.00
151.05	20 45 37	5435.45	33.36	253.38	240.83	149.32	22 16 13	4835.5	40.13	248.47
28.95	10 44 49	1862.51	33.35	58.91	240.82	149.33	11 15 51	1262.5	40.12	54.00
151.05	20 45 37	5435.45	33.36	253.38	240.83	149.32	22 16 13	4835.5	40.13	248.47

DIFFERENTIAL CORRECTIONS

TDE	-.4807	TRA	.1974	TC3	-.2700	BAU	.3832												
RDE	-.5620	RRA	-1.9478	RC3	.8656	FAU	.02745												
FDE	.5573	FRA	1.4019	FC3	-.7518	BSP	15188												
BDE	.7395	BRA	1.9578	BC3	.9067	FSP	-979												

MID-COURSE EXECUTION ACCURACY

SGT	745.0	SGR	4793.2	SG3	302.7				
RRT	-.6201	RRF	-.9983	RTF	.5981				
SGB	4850.7	R23	.0384	R13	-.9979				
SG1	4815.7	SG2	581.7	THA	35.59				

ORBIT DETERMINATION ACCURACY

ST	510.0	SR	1510.5	SS	764.9				
CRT	.1069	CRS	.9922	CST	.2299				
LSA	1692.5	MSA	512.2	SSA	3.6				
EL1	1511.6	EL2	506.7	ALF	87.67				

LAUNCH DATE OCT 4 1965 FLIGHT TIME 166.00 ARRIVAL DATE MAR 19 1966

HELIOCENTRIC CONIC DISTANCE 451.481

RL 149.63 LAL .00 LOL 10.56 VL 27.344 GAL 2.91 AZL 97.54 HCA 199.21 SMA 129.33 ECC .16478 INC 7.5398 V1 29.778
RP 108.06 LAP 2.47 LOP 209.62 VP 37.817 GAP .59 AZP 82.88 TAL 164.96 TAP 4.17 RCA 108.02 APO 150.64 V2 35.069
RC 80.581 GL -47.41 GP 70.17 ZAL 67.20 ZAP 91.36 ETS 356.77 ZAE 115.01 ETE 102.16 ZAC 58.97 ETC 228.36 CLP -94.01

PLANETOCENTRIC CONIC

C3 23.694 VHL 4.868 DLA -59.79 RAL 343.57 RAD 6568.0 VEL 12.045 PTH 2.15 VHP 6.600 DPA 46.29 RAP 286.84 ECC 1.3899

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
34.86	10 37 52	1766.37	35.56	49.18	228.95	141.78	11 7 18	1166.4	41.67	42.98
145.14	20 10 7	5388.27	35.58	250.62	228.96	141.78	21 39 55	4788.3	41.69	244.41
34.86	10 37 52	1766.37	35.56	49.18	228.95	141.78	11 7 18	1166.4	41.67	42.98
145.14	20 10 7	5388.27	35.58	250.62	228.96	141.78	21 39 55	4788.3	41.69	244.41
34.86	10 37 52	1766.37	35.56	49.18	228.95	141.78	11 7 18	1166.4	41.67	42.98
145.14	20 10 7	5388.27	35.58	250.62	228.96	141.78	21 39 55	4788.3	41.69	244.41

DIFFERENTIAL CORRECTIONS

TDE -.3571 TRA .4661 TC3 -.5615 BAU .4318
RDE -.3133 RRA-1.9246 RC3 1.2420 FAU .03759
FDE .4611 FRA 1.8068 FC3-1.3734 BSP 15176
BDE .4751 BRA 1.9802 BC3 1.3630 FSP -1252

MID-COURSE EXECUTION ACCURACY

SGT 1290.0 SGR 4675.8 SG3 385.8
RRT -.8975 RRF -.9981 RTF .8871
SGB 4850.5 R23 .0486 R13 -.9871
SG1 4819.0 SG2 551.9 THA 104.10

ORBIT DETERMINATION ACCURACY

ST 532.8 SR 1400.4 SS 786.7
CRT -.3850 CRS .9905 CST -.2547
LSA 1615.8 MSA 503.4 SSA 4.3
EL1 1417.4 EL2 485.9 ALF 99.45

LAUNCH DATE OCT 4 1965 FLIGHT TIME 168.00 ARRIVAL DATE MAR 21 1966

HELIOCENTRIC CONIC DISTANCE 457.773

RL 149.63 LAL .00 LOL 10.56 VL 27.345 GAL 2.97 AZL 96.16 HCA 202.38 SMA 129.34 ECC .16508 INC 6.1555 V1 29.778
RP 108.10 LAP 2.34 LOP 212.83 VP 37.806 GAP 1.00 AZP 84.30 TAL 164.67 TAP 7.05 RCA 107.99 APO 150.69 V2 35.056
RC 82.862 GL -42.04 GP 65.89 ZAL 64.03 ZAP 94.13 ETS 3.09 ZAE 118.11 ETE 108.80 ZAC 54.80 ETC 230.94 CLP-100.16

PLANETOCENTRIC CONIC

C3 19.123 VHL 4.373 DLA -54.79 RAL 339.60 RAD 6567.8 VEL 11.853 PTH 2.10 VHP 5.874 DPA 41.89 RAP 286.32 ECC 1.3147

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
40.92	10 38 16	1682.54	35.86	39.40	218.91	134.64	11 6 19	1082.5	41.25	32.25
139.08	19 38 6	5369.00	35.87	248.69	218.93	134.63	21 7 35	4769.0	41.26	241.53
40.92	10 38 16	1682.54	35.86	39.40	218.91	134.64	11 6 19	1082.5	41.25	32.25
139.08	19 38 6	5369.00	35.87	248.69	218.93	134.63	21 7 35	4769.0	41.26	241.53
40.92	10 38 16	1682.54	35.86	39.40	218.91	134.64	11 6 19	1082.5	41.25	32.25
139.08	19 38 6	5369.00	35.87	248.69	218.93	134.63	21 7 35	4769.0	41.26	241.53

DIFFERENTIAL CORRECTIONS

TDE -.2799 TRA .7018 TC3 -.9338 BAU .4643
RDE -.2084 RRA-1.8773 RC3 1.5578 FAU .04734
FDE .4471 FRA 2.2312 FC3-2.1434 BSP 15176
BDE .3489 BRA 2.0042 BC3 1.8162 FSP -1534

MID-COURSE EXECUTION ACCURACY

SGT 1828.8 SGR 4486.1 SG3 469.7
RRT -.9525 RRF -.9979 RTF .9455
SGB 4844.6 R23 .0588 R13 -.9963
SG1 4816.7 SG2 518.6 THA 111.48

ORBIT DETERMINATION ACCURACY

ST 603.3 SR 1309.1 SS 827.7
CRT -.6497 CRS .9876 CST -.5226
LSA 1593.1 MSA 474.1 SSA 5.2
EL1 1373.5 EL2 437.1 ALF 108.62

LAUNCH DATE OCT 4 1965 FLIGHT TIME 170.00 ARRIVAL DATE MAR 23 1966

HELIOCENTRIC CONIC DISTANCE 464.053

RL 149.63 LAL .00 LOL 10.56 VL 27.343 GAL 3.04 AZL 95.10 HCA 205.56 SMA 129.32 ECC .16556 INC 5.1009 V1 29.778
RP 108.14 LAP 2.20 LOP 216.04 VP 37.792 GAP 1.40 AZP 85.40 TAL 164.35 TAP 9.91 RCA 107.91 APO 150.73 V2 35.043
RC 85.157 GL -36.92 GP 61.79 ZAL 61.17 ZAP 97.37 ETS 8.35 ZAE 120.69 ETE 114.98 ZAC 50.77 ETC 232.68 CLP-105.75

PLANETOCENTRIC CONIC

C3 16.336 VHL 4.042 DLA -49.93 RAL 336.66 RAD 6567.7 VEL 11.735 PTH 2.07 VHP 5.366 DPA 37.69 RAP 285.67 ECC 1.2688

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
46.98	10 44 51	1604.68	34.85	29.96	210.79	128.34	11 11 36	1004.7	39.55	22.24
133.02	19 8 0	5373.67	34.86	248.09	210.81	128.33	20 37 34	4773.7	39.56	240.37
46.98	10 44 51	1604.68	34.85	29.96	210.79	128.34	11 11 36	1004.7	39.55	22.24
133.02	19 8 0	5373.67	34.86	248.09	210.81	128.33	20 37 34	4773.7	39.56	240.37
46.98	10 44 51	1604.68	34.85	29.96	210.79	128.34	11 11 36	1004.7	39.55	22.24
133.02	19 8 0	5373.67	34.86	248.09	210.81	128.33	20 37 34	4773.7	39.56	240.37

DIFFERENTIAL CORRECTIONS

TDE -.2092 TRA .9217 TC3-1.3560 BAU .4888
RDE -.1768 RRA-1.8121 RC3 1.7805 FAU .05622
FDE .5045 FRA 2.6526 FC3-2.9795 BSP 15172
BDE .2739 BRA 2.0331 BC3 2.2380 FSP -1805

MID-COURSE EXECUTION ACCURACY

SGT 2326.0 SGR 4250.0 SG3 549.4
RRT -.9716 RRF -.9976 RTF .9659
SGB 4844.8 R23 .0682 R13 -.9953
SG1 4820.5 SG2 485.0 THA 118.32

ORBIT DETERMINATION ACCURACY

ST 678.2 SR 1224.0 SS 878.3
CRT -.7906 CRS .9837 CST -.6676
LSA 1592.3 MSA 440.7 SSA 6.0
EL1 1347.5 EL2 377.2 ALF 115.83

LAUNCH DATE OCT 4 1965 FLIGHT TIME 172.00 ARRIVAL DATE MAR 25 1966

HELIOCENTRIC CONIC DISTANCE 470.317

RL 149.63 LAL .00 LOL 10.56 VL 27.340 GAL 3.13 AZL 94.27 HCA 208.75 SMA 129.30 ECC .16624 INC 4.2666 V1 29.778
RP 108.18 LAP 2.05 LOP 219.24 VP 37.777 GAP 1.80 AZP 86.26 TAL 163.98 TAP 12.72 RCA 107.80 APO 150.79 V2 35.030
RC 87.465 GL -32.12 GP 57.84 ZAL 58.62 ZAP 100.95 ETS 12.78 ZAE 122.78 ETE 120.88 ZAC 46.89 ETC 233.76 CLP-110.91

PLANETOCENTRIC CONIC

C3 14.587 VHL 3.819 DLA -45.32 RAL 334.45 RAD 6567.6 VEL 11.661 PTH 2.05 VHP 5.009 DPA 33.66 RAP 284.98 ECC 1.2401

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
53.00	10 56 59	1527.21	33.03	20.89	204.44	123.01	11 22 27	927.2	37.10	12.89
127.00	18 38 19	5400.13	33.04	249.07	204.45	123.00	20 8 19	4800.1	37.12	241.07
53.00	10 56 59	1527.21	33.03	20.89	204.44	123.01	11 22 27	927.2	37.10	12.89
127.00	18 38 19	5400.13	33.04	249.07	204.45	123.00	20 8 19	4800.1	37.12	241.07
53.00	10 56 59	1527.21	33.03	20.89	204.44	123.01	11 22 27	927.2	37.10	12.89
127.00	18 38 19	5400.13	33.04	249.07	204.45	123.00	20 8 19	4800.1	37.12	241.07

DIFFERENTIAL CORRECTIONS

TDE -.1328 TRA 1.1306 TC3-1.7950 BAU .5100
RDE -.1772 RRA-1.7324 RC3 1.9016 FAU .06385
FDE .6144 FRA 3.0469 FC3-3.7895 BSP 15207
BDE .2214 BRA 2.0687 BC3 2.6150 FSP -2051

MID-COURSE EXECUTION ACCURACY

SGT 2781.8 SGR 3980.4 SG3 620.0
RRT -.9803 RRF -.9971 RTF .9752
SGB 4856.2 R23 .0760 R13 -.9943
SG1 4835.1 SG2 451.8 THA 124.76

ORBIT DETERMINATION ACCURACY

ST 751.7 SR 1141.2 SS 934.3
CRT -.8759 CRS .9788 CST -.7588
LSA 1604.3 MSA 407.8 SSA 7.0
EL1 1330.6 EL2 311.1 ALF 121.93

LAUNCH DATE OCT 4 1965 FLIGHT TIME 174.00 ARRIVAL DATE MAR 27 1966

HELIOCENTRIC CONIC DISTANCE 476.561

RL 149.63 LAL .00 LOL 10.56 VL 27.334 GAL 3.22 AZL 93.59 HCA 211.93 SMA 129.26 ECC .16710 INC 3.5865 V1 29.778
RP 108.22 LAP 1.90 LOP 222.45 VP 37.761 GAP 2.20 AZP 86.95 TAL 163.56 TAP 15.49 RCA 107.66 APO 150.86 V2 35.016
RC 89.783 GL -27.70 GP 54.02 ZAL 56.36 ZAP 104.76 ETS 16.50 ZAE 124.38 ETE 126.51 ZAC 43.16 ETC 234.24 CLP-115.71

PLANETOCENTRIC CONIC

C3 13.489 VHL 3.673 DLA -41.01 RAL 332.81 RAD 6567.5 VEL 11.614 PTH 2.03 VHP 4.761 DPA 29.78 RAP 284.33 ECC 1.2220

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
59.00	11 14 46	1444.58	30.76	11.94	199.60	118.58	11 38 50	844.6	34.31	3.85
121.00	18 7 25	5448.32	30.77	251.77	199.61	118.57	19 38 14	4848.3	34.32	243.68
59.00	11 14 46	1444.58	30.76	11.94	199.60	118.58	11 38 50	844.6	34.31	3.85
121.00	18 7 25	5448.32	30.77	251.77	199.61	118.57	19 38 14	4848.3	34.32	243.68
59.00	11 14 46	1444.58	30.76	11.94	199.60	118.58	11 38 50	844.6	34.31	3.85
121.00	18 7 25	5448.32	30.77	251.77	199.61	118.57	19 38 14	4848.3	34.32	243.68

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.0459 TRA 1.3320 TC3-2.2164 BAU .5287 SGT 3199.8 SGR 3694.9 SG3 678.4 ST 830.7 SR 1064.3 SS 997.9
RDE -.1914 RRA-1.6458 RC3 1.9191 FAU .06965 RRT -.9848 RRF -.9965 RTF .9801 CRT -.9320 CRS .9737 CST -.8249
FDE .7650 FRA 3.4015 FC3-4.4700 BSP 15228 SGB 4887.9 R23 .0814 R13 -.9932 LSA 1635.9 MSA 377.2 SSA 8.1
BDE .1968 BRA 2.1173 BC3 2.9318 FSP -2248 SG1 4869.6 SG2 422.2 THA 130.83 EL1 1328.4 EL2 241.3 ALF 127.48

LAUNCH DATE OCT 4 1965 FLIGHT TIME 176.00 ARRIVAL DATE MAR 29 1966

HELIOCENTRIC CONIC DISTANCE 482.786

RL 149.63 LAL .00 LOL 10.56 VL 27.327 GAL 3.33 AZL 93.02 HCA 215.12 SMA 129.21 ECC .16816 INC 3.0183 V1 29.778
RP 108.26 LAP 1.74 LOP 225.65 VP 37.743 GAP 2.60 AZP 87.53 TAL 163.11 TAP 18.23 RCA 107.48 APO 150.94 V2 35.003
RC 92.112 GL -23.65 GP 50.36 ZAL 54.36 ZAP 108.69 ETS 19.61 ZAE 125.54 ETE 131.86 ZAC 39.63 ETC 234.11 CLP-120.15

PLANETOCENTRIC CONIC

C3 12.824 VHL 3.581 DLA -37.01 RAL 331.59 RAD 6567.5 VEL 11.585 PTH 2.03 VHP 4.597 DPA 26.08 RAP 283.76 ECC 1.2111

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
65.10	11 39 8	1349.92	28.30	2.62	196.00	114.92	12 1 38	749.9	31.40	354.54
114.90	17 33 19	5521.14	28.31	256.41	196.01	114.91	19 5 20	4921.1	31.41	248.32
65.10	11 39 8	1349.92	28.30	2.62	196.00	114.92	12 1 38	749.9	31.40	354.54
114.90	17 33 19	5521.14	28.31	256.41	196.01	114.91	19 5 20	4921.1	31.41	248.32
65.10	11 39 8	1349.92	28.30	2.62	196.00	114.92	12 1 38	749.9	31.40	354.54
114.90	17 33 19	5521.14	28.31	256.41	196.01	114.91	19 5 20	4921.1	31.41	248.32

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE .0491 TRA 1.5247 TC3-2.6012 BAU .5488 SGT 3579.2 SGR 3399.3 SG3 721.5 ST 921.6 SR 988.3 SS 1061.3
RDE -.2030 RRA-1.5515 RC3 1.8659 FAU .07391 RRT -.9873 RRF -.9956 RTF .9831 CRT -.9689 CRS .9679 CST -.8759
FDE .9274 FRA 3.6930 FC3-4.9898 BSP 15371 SGB 4936.2 R23 .0830 R13 -.9922 LSA 1682.7 MSA 347.9 SSA 9.2
BDE .2088 BRA 2.1753 BC3 3.2013 FSP -2407 SG1 4920.6 SG2 392.5 THA 136.50 EL1 1340.8 EL2 168.1 ALF 132.93

LAUNCH DATE OCT 4 1965 FLIGHT TIME 178.00 ARRIVAL DATE MAR 31 1966

HELIOCENTRIC CONIC DISTANCE 488.989

RL 149.63 LAL .00 LOL 10.56 VL 27.318 GAL 3.46 AZL 92.53 HCA 218.31 SMA 129.15 ECC .16940 INC 2.5340 V1 29.778
RP 108.31 LAP 1.57 LOP 228.84 VP 37.725 GAP 2.99 AZP 88.01 TAL 162.61 TAP 20.92 RCA 107.27 APO 151.03 V2 34.990
RC 94.449 GL -19.97 GP 46.87 ZAL 52.60 ZAP 112.64 ETS 22.20 ZAE 126.30 ETE 136.84 ZAC 36.35 ETC 233.34 CLP-124.27

PLANETOCENTRIC CONIC

C3 12.466 VHL 3.531 DLA -33.33 RAL 330.70 RAD 6567.5 VEL 11.569 PTH 2.02 VHP 4.498 DPA 22.56 RAP 283.33 ECC 1.2052

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
71.64	12 13 2	1231.01	25.79	352.01	193.39	111.88	12 33 33	631.0	28.53	343.98
108.36	16 52 19	5627.92	25.81	263.63	193.40	111.87	18 26 7	5027.9	28.54	255.60
71.64	12 13 2	1231.01	25.79	352.01	193.39	111.88	12 33 33	631.0	28.53	343.98
108.36	16 52 19	5627.92	25.81	263.63	193.40	111.87	18 26 7	5027.9	28.54	255.60
110.00	16 4 36	5774.31	21.33	272.74	191.16	117.37	17 40 50	5174.3	24.82	265.34
110.00	17 59 55	5420.66	30.45	249.37	195.22	106.35	19 30 16	4820.7	32.38	240.69

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE .1514 TRA 1.7103 TC3-2.9329 BAU .5698 SGT 3922.4 SGR 3106.3 SG3 748.7 ST 1028.3 SR 914.8 SS 1123.8
RDE -.2099 RRA-1.4557 RC3 1.7568 FAU .07642 RRT -.9886 RRF -.9945 RTF .9849 CRT -.9900 CRS .9617 CST -.9138
FDE 1.0916 FRA 3.9182 FC3-5.3071 BSP 15595 SGB 5003.4 R23 .0806 R13 -.9912 LSA 1747.4 MSA 322.2 SSA 10.3
BDE .2588 BRA 2.2459 BC3 3.4188 FSP -2519 SG1 4989.9 SG2 367.3 THA 141.70 EL1 1373.0 EL2 96.5 ALF 138.38

LAUNCH DATE OCT 4 1965 FLIGHT TIME 180.00 ARRIVAL DATE APR 2 1966

HELIOCENTRIC CONIC DISTANCE 495.171

RL 149.63 LAL .00 LOL 10.56 VL 27.308 GAL 3.59 AZL 92.11 HCA 221.49 SMA 129.08 ECC .17083 INC 2.1137 V1 29.778
RP 108.35 LAP 1.40 LOP 232.04 VP 37.705 GAP 3.38 AZP 88.42 TAL 162.07 TAP 23.56 RCA 107.03 APO 151.13 V2 34.977
RC 96.794 GL -16.63 GP 43.58 ZAL 51.02 ZAP 116.54 ETS 24.33 ZAE 126.69 ETE 141.42 ZAC 33.35 ETC 231.91 CLP-128.09

PLANETOCENTRIC CONIC

C3 12.335 VHL 3.512 DLA -29.96 RAL 330.07 RAD 6567.5 VEL 11.564 PTH 2.02 VHP 4.451 DPA 19.24 RAP 283.06 ECC 1.2030

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
79.78	13 7 6	1051.13	23.34	337.39	191.57	109.33	13 24 37	451.1	25.76	329.42
100.22	15 53 15	5803.33	23.36	275.89	191.58	109.32	17 29 58	5203.3	25.78	267.92
79.78	13 7 6	1051.13	23.34	337.39	191.57	109.33	13 24 37	451.1	25.76	329.42
100.22	15 53 15	5803.33	23.36	275.89	191.58	109.32	17 29 58	5203.3	25.78	267.92
110.00	14 52 23	707.81	13.87	307.68	186.83	121.56	15 4 11	107.8	17.94	300.94
110.00	19 7 8	5194.65	33.57	232.53	194.28	96.86	20 33 43	4594.6	34.15	223.33

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE .2606 TRA 1.8913 TC3-3.2009 BAU .5910 SGT 4233.1 SGR 2825.2 SG3 761.2 ST 1151.9 SR 843.9 SS 1183.2
RDE -.2111 RRA-1.3625 RC3 1.6113 FAU .07719 RRT -.9890 RRF -.9929 RTF .9861 CRT -.9990 CRS .9546 CST -.9411
FDE 1.2475 FRA 4.0795 FC3-5.4176 BSP 15872 SGB 5089.2 R23 .0744 R13 -.9905 LSA 1829.9 MSA 300.5 SSA 11.3
BDE .3354 BRA 2.3310 BC3 3.5836 FSP -2580 SG1 5077.3 SG2 348.1 THA 146.39 EL1 1427.5 EL2 31.1 ALF 143.78

LAUNCH DATE OCT 4 1965 FLIGHT TIME 182.00 ARRIVAL DATE APR 4 1966

DISTANCE 501.329

HELIOCENTRIC CONIC

RL 149.63 LAL .00 LOL 10.56 VL 27.296 GAL 3.74 AZL 91.74 HCA 224.68 SMA 129.00 ECC .17246 INC 1.7434 VI 29.778
RP 108.39 LAP 1.23 LOP 235.23 VP 37.685 GAP 3.77 AZP 88.76 TAL 161.49 TAP 26.17 RCA 106.75 APO 151.25 V2 34.964
RC 99.145 GL -13.62 GP 40.50 ZAL 49.61 ZAP 120.33 ETS 26.10 ZAE 126.79 ETE 145.57 ZAC 30.69 ETC 229.78 CLP-131.61

PLANETOCENTRIC CONIC

C3 12.384 VHL 3.519 DLA -26.88 RAL 329.66 RAD 6567.5 VEL 11.566 PTH 2.02 VHP 4.448 DPA 16.15 RAP 282.95 ECC 1.2038

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	13 9 19	1043.05	15.72	333.60	188.31	113.86	13 26 43	443.0	18.82	326.29
90.00	15 47 42	5813.08	26.49	277.52	191.86	100.39	17 24 35	5213.1	27.66	269.05
100.00	13 57 32	887.35	13.34	321.00	187.14	117.00	14 12 19	287.3	16.85	313.97
100.00	17 42 11	5444.01	29.10	250.82	192.31	97.17	19 12 55	4844.0	29.78	242.08
110.00	14 11 37	843.12	8.93	315.05	184.54	123.13	14 25 40	243.1	13.23	308.60
110.00	19 44 36	5061.00	34.18	222.14	192.73	90.75	21 8 57	4461.0	33.90	212.91

DIFFERENTIAL CORRECTIONS

TDE .3748 TRA 2.0682 TC3-3.4047 BAU .6126
RDE -.2060 RRA-1.2737 RC3 1.4491 FAU .07650
FDE 1.3860 FRA 4.1797 FC3-5.3479 BSP 16208
BDE .4277 BRA 2.4289 BC3 3.7002 FSP -2597

MID-COURSE EXECUTION ACCURACY

SGT 4512.8 SGR 2560.9 SG3 760.4
RRT -.9886 RRF -.9909 RTF .9869
SGB 5188.8 R23 .0651 R13 -.9899
SG1 5178.0 SG2 335.5 THA 150.57

ORBIT DETERMINATION ACCURACY

ST 1288.5 SR 774.6 SS 1236.0
CRT -.9988 CRS .9461 CST -.9598
LSA 1925.4 MSA 283.5 SSA 12.2
EL1 1503.0 EL2 32.3 ALF 149.00

LAUNCH DATE OCT 4 1965 FLIGHT TIME 184.00 ARRIVAL DATE APR 6 1966

DISTANCE 507.465

HELIOCENTRIC CONIC

RL 149.63 LAL .00 LOL 10.56 VL 27.283 GAL 3.91 AZL 91.41 HCA 227.86 SMA 128.91 ECC .17428 INC 1.4128 VI 29.778
RP 108.43 LAP 1.05 LOP 238.42 VP 37.663 GAP 4.16 AZP 89.05 TAL 160.88 TAP 28.74 RCA 106.44 APO 151.38 V2 34.951
RC 101.502 GL -10.91 GP 37.64 ZAL 48.33 ZAP 123.97 ETS 27.57 ZAE 126.65 ETE 149.26 ZAC 28.40 ETC 226.95 CLP-134.88

PLANETOCENTRIC CONIC

C3 12.580 VHL 3.547 DLA -24.06 RAL 329.42 RAD 6567.5 VEL 11.574 PTH 2.02 VHP 4.480 DPA 13.30 RAP 283.03 ECC 1.2070

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 11 46	1238.94	10.01	345.15	186.25	116.63	12 32 25	638.9	13.51	338.22
90.00	16 43 21	5623.89	28.09	263.92	191.42	93.77	18 17 5	5023.9	28.31	255.26
100.00	13 13 10	1040.73	8.44	329.75	185.42	118.78	13 30 31	440.7	12.22	323.00
100.00	18 24 38	5297.34	29.86	239.99	191.51	91.52	19 52 55	4697.3	29.75	231.18
110.00	13 42 5	950.03	4.91	320.72	183.25	123.87	13 57 55	350.0	9.33	314.41
110.00	20 12 12	4960.80	33.99	214.33	191.41	86.13	21 34 53	4360.8	33.08	205.21

DIFFERENTIAL CORRECTIONS

TDE .4951 TRA 2.2451 TC3-3.5385 BAU .6327
RDE -.1973 RRA-1.1928 RC3 1.2769 FAU .07423
FDE 1.5092 FRA 4.2337 FC3-5.1083 BSP 16521
BDE .5329 BRA 2.5423 BC3 3.7618 FSP -2563

MID-COURSE EXECUTION ACCURACY

SGT 4766.1 SGR 2318.4 SG3 749.1
RRT -.9873 RRF -.9882 RTF .9872
SGB 5300.1 R23 .0554 R13 -.9893
SG1 5289.7 SG2 331.3 THA 154.24

ORBIT DETERMINATION ACCURACY

ST 1437.0 SR 709.3 SS 1284.1
CRT -.9922 CRS .9361 CST -.9724
LSA 2035.6 MSA 270.8 SSA 12.9
EL1 1600.6 EL2 79.6 ALF 153.84

LAUNCH DATE OCT 4 1965 FLIGHT TIME 186.00 ARRIVAL DATE APR 8 1966

DISTANCE 513.576

HELIOCENTRIC CONIC

RL 149.63 LAL .00 LOL 10.56 VL 27.269 GAL 4.09 AZL 91.11 HCA 231.04 SMA 128.81 ECC .17630 INC 1.1141 VI 29.778
RP 108.46 LAP .87 LOP 241.60 VP 37.641 GAP 4.55 AZP 89.30 TAL 160.22 TAP 31.26 RCA 106.10 APO 151.52 V2 34.939
RC 103.862 GL -8.47 GP 35.01 ZAL 47.15 ZAP 127.43 ETS 28.80 ZAE 126.34 ETE 152.51 ZAC 26.51 ETC 223.45 CLP-137.90

PLANETOCENTRIC CONIC

C3 12.905 VHL 3.592 DLA -21.49 RAL 329.32 RAD 6567.5 VEL 11.588 PTH 2.03 VHP 4.543 DPA 10.68 RAP 283.30 ECC 1.2124

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 35 25	1372.18	5.86	352.74	185.28	117.75	11 58 17	772.2	9.53	345.99
90.00	17 18 56	5501.57	28.31	254.98	190.89	89.29	18 50 38	4901.6	27.91	246.34
100.00	12 41 56	1157.50	4.56	336.25	184.57	119.57	13 1 14	557.5	8.47	329.64
100.00	18 55 6	5191.48	29.79	232.12	190.84	87.38	20 21 37	4591.5	29.11	223.38
110.00	13 19 4	1041.09	1.44	325.48	182.63	124.16	13 36 26	441.1	5.91	319.25
110.00	20 34 27	4880.66	33.45	208.13	190.46	82.50	21 55 48	4280.7	32.05	199.18

DIFFERENTIAL CORRECTIONS

TDE .6170 TRA 2.4187 TC3-3.6225 BAU .6541
RDE -.1828 RRA-1.1173 RC3 1.1182 FAU .07139
FDE 1.6042 FRA 4.2390 FC3-4.7893 BSP 16923
BDE .6435 BRA 2.6643 BC3 3.7912 FSP -2511

MID-COURSE EXECUTION ACCURACY

SGT 4993.1 SGR 2097.3 SG3 729.0
RRT -.9853 RRF -.9849 RTF .9875
SGB 5415.7 R23 .0445 R13 -.9889
SG1 5405.6 SG2 330.5 THA 157.43

ORBIT DETERMINATION ACCURACY

ST 1587.9 SR 644.8 SS 1319.9
CRT -.9801 CRS .9228 CST -.9807
LSA 2147.3 MSA 261.6 SSA 13.4
EL1 1709.7 EL2 118.9 ALF 158.19

LAUNCH DATE OCT 4 1965 FLIGHT TIME 188.00 ARRIVAL DATE APR 10 1966

DISTANCE 519.662

HELIOCENTRIC CONIC

RL 149.63 LAL .00 LOL 10.56 VL 27.253 GAL 4.29 AZL 90.84 HCA 234.22 SMA 129.71 ECC .17852 INC .8413 VI 29.778
RP 108.50 LAP .68 LOP 244.78 VP 37.619 GAP 4.94 AZP 89.51 TAL 159.53 TAP 33.75 RCA 105.73 APO 151.69 V2 34.926
RC 106.225 GL -6.27 GP 32.60 ZAL 46.05 ZAP 130.69 ETS 29.86 ZAE 125.90 ETE 155.35 ZAC 25.03 ETC 219.35 CLP-140.71

PLANETOCENTRIC CONIC

C3 13.546 VHL 3.653 DLA -19.14 RAL 329.35 RAD 6567.5 VEL 11.607 PTH 2.03 VHP 4.631 DPA 8.29 RAP 283.73 ECC 1.2196

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 8 15	1479.72	2.42	358.77	184.95	118.22	11 32 55	879.7	6.18	352.11
90.00	17 46 19	5408.55	28.04	248.19	190.58	85.90	19 16 27	4808.6	27.18	239.63
100.00	12 17 47	1255.34	1.26	341.63	184.31	119.87	12 38 42	655.3	5.22	335.09
100.00	19 19 28	5108.16	29.37	225.96	190.44	84.17	20 44 36	4508.2	28.25	217.34
110.00	13 0 28	1121.60	-1.64	329.68	182.50	124.15	13 19 9	521.6	2.85	323.48
110.00	20 53 16	4814.66	32.75	203.11	189.88	79.61	22 13 31	4214.7	30.97	194.34

DIFFERENTIAL CORRECTIONS

TDE .7412 TRA 2.5928 TC3-3.6551 BAU .6747
RDE -.1650 RRA-1.0495 RC3 .9707 FAU .06784
FDE 1.6765 FRA 4.2115 FC3-4.4011 BSP 17342
BDE .7594 BRA 2.7972 BC3 3.7818 FSP -2437

MID-COURSE EXECUTION ACCURACY

SGT 5197.4 SGR 1898.8 SG3 702.7
RRT -.9823 RRF -.9806 RTF .9875
SGB 5533.4 R23 .0346 R13 -.9885
SG1 5523.3 SG2 334.3 THA 160.18

ORBIT DETERMINATION ACCURACY

ST 1739.4 SR 583.6 SS 1346.4
CRT -.9629 CRS .9058 CST -.9864
LSA 2261.3 MSA 255.3 SSA 13.8
EL1 1828.6 EL2 149.8 ALF 161.97

LAUNCH DATE OCT 4 1965 FLIGHT TIME 190.00 ARRIVAL DATE APR 12 1966

HELIOCENTRIC CONIC DISTANCE 525.722

RL 149.63 LAL .00 LOL 10.56 VL 27.237 GAL 4.50 AZL 90.59 HCA 237.40 SMA 128.60 ECC .18096 INC .5896 V1 29.778
RP 108.54 LAP .50 LOP 247.96 VP 37.596 GAP 5.33 AZP 89.68 TAL 158.81 TAP 36.21 RCA 105.33 APO 151.87 V2 34.914
RC 108.588 GL -4.30 GP 30.41 ZAL 45.02 ZAP 133.76 ETS 30.79 ZAE 125.39 ETE 157.81 ZAC 23.98 ETC 214.79 CLP-143.32

PLANETOCENTRIC CONIC

C3 13.897 VHL 3.728 DLA -17.00 RAL 329.48 RAD 6567.5 VEL 11.631 PTH 2.04 VHP 4.742 DPA 6.12 RAP 284.34 ECC 1.2287

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 46 39	1572.11	-.56	3.93	185.08	118.31	11 12 51	972.1	3.23	357.30
90.00	18 8 56	5333.82	27.56	242.78	190.52	83.23	19 37 50	4733.8	26.34	234.33
100.00	11 58 16	1341.02	-1.65	346.33	184.47	119.85	12 20 37	741.0	2.34	339.81
100.00	19 40 0	5040.14	28.80	220.99	190.33	81.61	21 4 0	4440.1	27.34	212.49
110.00	12 45 4	1194.40	-4.41	333.49	182.75	123.93	13 4 59	594.4	.07	327.28
110.00	21 9 42	4759.52	32.00	198.99	189.64	77.27	22 29 1	4159.5	29.91	190.39

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TOE .8681 TRA 2.7685 TC3-3.6438 BAU .6946 SGT 5381.3 SGR 1722.3 SG3 672.3 ST 1889.1 SR 526.7 SS 1364.4
ROE -.1451 RRA -.9890 RC3 .8378 FAU .06386 RRT -.9783 RRF -.9753 RTF .9875 CRT -.9402 CRS .8838 CST -.9902
FDE 1.7290 FRA 4.1595 FC3-3.9785 BSP 17765 SGB 5650.2 R23 .0262 R13 -.9881 LSA 2375.8 MSA 251.2 SSA 14.0
BDE .8801 BRA 2.9398 BC3 3.7389 FSP -2346 SG1 5639.9 SG2 340.7 THA 162.55 EL1 1953.4 EL2 173.5 ALF 165.19

LAUNCH DATE OCT 4 1965 FLIGHT TIME 192.00 ARRIVAL DATE APR 14 1966

HELIOCENTRIC CONIC DISTANCE 531.755

RL 149.63 LAL .00 LOL 10.56 VL 27.220 GAL 4.73 AZL 90.36 HCA 240.58 SMA 128.48 ECC .18362 INC .3553 V1 29.778
RP 108.58 LAP .31 LOP 251.14 VP 37.573 GAP 5.72 AZP 89.83 TAL 158.05 TAP 38.63 RCA 104.89 APO 152.07 V2 34.903
RC 110.951 GL -2.53 GP 28.41 ZAL 44.05 ZAP 136.64 ETS 31.63 ZAE 124.82 ETE 159.94 ZAC 23.34 ETC 209.94 CLP-145.75

PLANETOCENTRIC CONIC

C3 14.555 VHL 3.815 DLA -15.04 RAL 329.69 RAD 6567.6 VEL 11.659 PTH 2.05 VHP 4.872 DPA 4.17 RAP 285.11 ECC 1.2395

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 28 56	1654.17	-3.20	8.51	185.56	118.15	10 56 30	1054.2	.59	1.88
90.00	18 28 23	5272.21	26.99	238.36	190.72	81.09	19 56 16	4672.2	25.48	230.02
100.00	11 42 7	1418.02	-4.25	350.57	184.98	119.62	12 5 45	818.0	-.28	344.04
100.00	19 57 53	4983.59	28.17	216.91	190.50	79.55	21 20 57	4383.6	26.44	208.53
110.00	12 32 10	1261.24	-6.94	337.01	183.32	123.56	12 53 11	661.2	-2.48	330.77
110.00	21 24 19	4713.14	31.25	195.58	189.71	75.38	22 42 53	4113.1	28.93	187.14

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TOE .9977 TRA 2.9472 TC3-3.5943 BAU .7133 SGT 5547.1 SGR 1566.1 SG3 639.6 ST 2035.2 SR 474.7 SS 1375.1
ROE -.1238 RRA -.9355 RC3 .7200 FAU .05960 RRT -.9730 RRF -.9688 RTF .9873 CRT -.9110 CRS .8558 CST -.9929
FDE 1.7648 FRA 4.0903 FC3-3.5450 BSP 18175 SGB 5763.9 R23 .0193 R13 -.9877 LSA 2489.2 MSA 248.5 SSA 14.1
BDE 1.0054 BRA 3.0921 BC3 3.6657 FSP -2243 SG1 5753.3 SG2 348.8 THA 164.58 EL1 2081.0 EL2 191.5 ALF 167.90

LAUNCH DATE OCT 4 1965 FLIGHT TIME 194.00 ARRIVAL DATE APR 16 1966

HELIOCENTRIC CONIC DISTANCE 537.761

RL 149.63 LAL .00 LOL 10.56 VL 27.202 GAL 4.98 AZL 90.14 HCA 243.75 SMA 128.36 ECC .18651 INC .1353 V1 29.778
RP 108.61 LAP .12 LOP 254.32 VP 37.549 GAP 6.12 AZP 89.94 TAL 157.26 TAP 41.01 RCA 104.42 APO 152.30 V2 34.892
RC 113.313 GL -.94 GP 26.61 ZAL 43.11 ZAP 139.33 ETS 32.42 ZAE 124.24 ETE 161.76 ZAC 23.11 ETC 205.03 CLP-148.03

PLANETOCENTRIC CONIC

C3 15.323 VHL 3.915 DLA -13.24 RAL 329.99 RAD 6567.6 VEL 11.692 PTH 2.06 VHP 5.020 DPA 2.42 RAP 286.02 ECC 1.2522

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 14 5	1728.61	-5.58	12.69	186.33	117.81	10 42 53	1128.6	-1.82	6.03
90.00	18 45 34	5220.76	26.39	234.71	191.16	79.35	20 12 34	4620.8	24.65	226.47
100.00	11 28 31	1488.43	-6.61	354.47	185.77	119.22	11 53 20	888.4	-2.66	347.90
100.00	20 13 48	4936.16	27.53	213.52	190.91	77.88	21 36 4	4336.2	25.59	205.26
110.00	12 21 15	1323.31	-9.26	340.32	184.15	123.05	12 43 18	723.3	-4.85	334.02
110.00	21 37 34	4674.05	30.54	192.75	190.04	73.85	22 55 28	4074.0	28.03	184.46

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TOE 1.1323 TRA 3.1330 TC3-3.5063 BAU .7293 SGT 5698.7 SGR 1429.4 SG3 606.3 ST 2179.7 SR 428.8 SS 1382.2
ROE -.1027 RRA -.8896 RC3 .6145 FAU .05500 RRT -.9663 RRF -.9611 RTF .9869 CRT -.8748 CRS .8211 CST -.9948
FDE 1.7908 FRA 4.0154 FC3-3.1071 BSP 18507 SGB 5875.3 R23 .0145 R13 -.9872 LSA 2604.6 MSA 246.7 SSA 14.2
BDE 1.1370 BRA 3.2569 BC3 3.5598 FSP -2125 SG1 5864.4 SG2 357.6 THA 166.32 EL1 2212.0 EL2 204.7 ALF 170.15

LAUNCH DATE OCT 4 1965 FLIGHT TIME 196.00 ARRIVAL DATE APR 18 1966

HELIOCENTRIC CONIC DISTANCE 543.737

RL 149.63 LAL .00 LOL 10.56 VL 27.183 GAL 5.24 AZL 89.93 HCA 246.93 SMA 128.23 ECC .18964 INC .0713 V1 29.778
RP 108.64 LAP -.07 LOP 257.49 VP 37.526 GAP 6.53 AZP 90.03 TAL 156.44 TAP 43.37 RCA 103.91 APO 152.55 V2 34.881
RC 115.673 GL .49 GP 24.98 ZAL 42.22 ZAP 141.84 ETS 33.20 ZAE 123.65 ETE 163.34 ZAC 23.24 ETC 200.26 CLP-150.16

PLANETOCENTRIC CONIC

C3 16.204 VHL 4.025 DLA -11.59 RAL 330.34 RAD 6567.6 VEL 11.730 PTH 2.07 VHP 5.184 DPA .85 RAP 287.07 ECC 1.2667

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 1 29	1797.13	-7.74	16.56	187.33	117.32	10 31 26	1197.1	-4.02	9.86
90.00	19 0 59	5177.54	25.81	231.68	191.82	77.94	20 27 16	4577.5	23.89	223.54
100.00	11 16 58	1553.62	-8.76	358.11	186.79	118.70	11 42 51	953.6	-4.86	351.49
100.00	20 28 11	4896.27	26.93	210.71	191.53	76.52	21 49 48	4296.3	24.81	202.55
110.00	12 11 56	1381.46	-11.40	343.46	185.20	122.44	12 34 58	781.5	-7.04	337.08
110.00	21 49 42	4641.20	29.90	190.41	190.60	72.60	23 7 3	4041.2	27.23	182.24

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TOE 1.2665 TRA 3.3208 TC3-3.4015 BAU .7456 SGT 5833.5 SGR 1308.6 SG3 572.5 ST 2313.4 SR 387.2 SS 1380.3
ROE -.0801 RRA -.8485 RC3 .5264 FAU .05068 RRT -.9582 RRF -.9519 RTF .9865 CRT -.8282 CRS .7761 CST -.9961
FDE 1.7997 FRA 3.9291 FC3-2.7076 BSP 18903 SGB 5978.5 R23 .0101 R13 -.9868 LSA 2710.4 MSA 245.7 SSA 14.2
BDE 1.2690 BRA 3.4274 BC3 3.4420 FSP -2016 SG1 5967.3 SG2 366.1 THA 167.82 EL1 2335.7 EL2 214.9 ALF 172.04

LAUNCH DATE OCT 4 1965 FLIGHT TIME 198.00 ARRIVAL DATE APR 20 1966

DISTANCE 549.682

HELIOCENTRIC CONIC

RL 149.63 LAL .00 LOL 10.56 VL 27.164 GAL 5.53 AZL 89.73 HCA 250.10 SMA 128.10 ECC .19304 INC .2702 V1 29.778
RP 108.68 LAP -.25 LOP 260.67 VP 37.502 GAP 6.94 AZP 90.09 TAL 155.60 TAP 45.70 RCA 103.37 APO 152.83 V2 34.870
RC 118.029 GL 1.76 GP 23.50 ZAL 41.35 ZAP 144.19 ETS 33.98 ZAE 123.08 ETE 164.69 ZAC 23.70 ETC 195.80 CLP-152.17

PLANETOCENTRIC CONIC

C3 17.203 VHL 4.148 DLA -10.08 RAL 330.75 RAD 6567.7 VEL 11.772 PTH 2.08 VHP 5.363 DPA -.54 RAP 288.25 ECC 1.2831

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 50 43	1860.90	-9.72	20.21	188.54	116.73	10 21 44	1260.9	-6.05	13.45
90.00	19 15 1	5141.23	25.27	229.16	192.66	76.78	20 40 42	4541.2	23.20	221.10
100.00	11 7 4	1614.58	-10.73	1.56	188.01	118.07	11 33 58	1014.6	-6.89	354.88
100.00	20 41 20	4862.79	26.38	208.38	192.36	75.40	22 2 23	4262.8	24.12	200.31
110.00	12 3 59	1436.36	-13.39	346.48	186.44	121.75	12 27 55	836.4	-9.10	340.01
110.00	22 0 55	4613.77	29.32	188.48	191.37	71.59	23 17 49	4013.8	26.53	180.41

DIFFERENTIAL CORRECTIONS

TDE 1.4033 TRA 3.5145 TC3-3.2764 BAU .7606
RDE -.0573 RRA -.8126 RC3 .4506 FAU .04645
FDE 1.7993 FRA 3.8401 FC3-2.3377 BSP 19277
BDE 1.4044 BRA 3.6072 BC3 3.3072 FSP -1908

MID-COURSE EXECUTION ACCURACY

SGT 5954.8 SGR 1202.5 SG3 539.3
RRT -.9485 RRF -.9412 RTF .9861
SGB 6075.0 R23 .0068 R13 -.9863
SG1 6063.4 SG2 374.2 THA 169.12

ORBIT DETERMINATION ACCURACY

ST 2439.8 SR 351.3 SS 1374.0
CRT -.7706 CRS .7203 CST -.9971
LSA 2811.3 MSA 245.0 SSA 14.2
EL1 2454.9 EL2 222.5 ALF 173.62

LAUNCH DATE OCT 4 1965 FLIGHT TIME 200.00 ARRIVAL DATE APR 22 1966

DISTANCE 555.594

HELIOCENTRIC CONIC

RL 149.63 LAL .00 LOL 10.56 VL 27.143 GAL 5.83 AZL 89.54 HCA 253.27 SMA 127.97 ECC .19671 INC .4609 V1 29.778
RP 108.71 LAP -.44 LOP 263.84 VP 37.478 GAP 7.36 AZP 90.13 TAL 154.73 TAP 48.01 RCA 102.79 APO 153.14 V2 34.860
RC 120.382 GL 2.91 GP 22.17 ZAL 40.50 ZAP 146.39 ETS 34.79 ZAE 122.52 ETE 165.86 ZAC 24.44 ETC 191.75 CLP-154.07

PLANETOCENTRIC CONIC

C3 18.330 VHL 4.281 DLA -8.70 RAL 331.20 RAD 6567.7 VEL 11.820 PTH 2.09 VHP 5.556 DPA -1.77 RAP 289.53 ECC 1.3017

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 41 26	1920.79	-11.53	23.67	189.93	116.04	10 13 27	1320.8	-7.93	16.84
90.00	19 27 54	5110.85	24.78	227.07	193.68	75.84	20 53 5	4510.8	22.59	219.08
100.00	10 58 33	1672.01	-12.55	4.86	189.41	117.36	11 26 25	1072.0	-8.78	358.09
100.00	20 53 28	4834.86	25.89	206.45	193.35	74.50	22 14 3	4234.9	23.51	198.46
110.00	11 57 9	1488.50	-15.24	349.39	187.86	120.97	12 21 58	888.5	-11.02	342.82
110.00	22 11 21	4591.14	28.83	186.91	192.32	70.78	23 27 52	3991.1	25.93	178.92

DIFFERENTIAL CORRECTIONS

TDE 1.5429 TRA 3.7155 TC3-3.1349 BAU .7740
RDE -.0346 RRA -.7814 RC3 .3856 FAU .04234
FDE 1.7917 FRA 3.7513 FC3-1.9998 BSP 19632
BDE 1.5433 BRA 3.7967 BC3 3.1585 FSP -1802

MID-COURSE EXECUTION ACCURACY

SGT 6063.8 SGR 1109.1 SG3 507.3
RRT -.9371 RRF -.9288 RTF .9857
SGB 6164.4 R23 .0042 R13 -.9858
SG1 6152.6 SG2 381.5 THA 170.24

ORBIT DETERMINATION ACCURACY

ST 2558.7 SR 320.9 SS 1364.0
CRT -.7007 CRS .6527 CST -.9978
LSA 2907.0 MSA 244.5 SSA 14.1
EL1 2568.6 EL2 228.0 ALF 174.94

LAUNCH DATE OCT 4 1965 FLIGHT TIME 202.00 ARRIVAL DATE APR 24 1966

DISTANCE 561.471

HELIOCENTRIC CONIC

RL 149.63 LAL .00 LOL 10.56 VL 27.123 GAL 6.16 AZL 89.35 HCA 256.44 SMA 127.83 ECC .20068 INC .6449 V1 29.778
RP 108.74 LAP -.63 LOP 267.00 VP 37.454 GAP 7.79 AZP 90.15 TAL 153.85 TAP 50.29 RCA 102.17 APO 153.48 V2 34.851
RC 122.731 GL 3.93 GP 20.96 ZAL 39.67 ZAP 148.46 ETS 35.66 ZAE 121.99 ETE 166.87 ZAC 25.42 ETC 188.17 CLP-155.87

PLANETOCENTRIC CONIC

C3 19.596 VHL 4.427 DLA -7.42 RAL 331.69 RAD 6567.8 VEL 11.873 PTH 2.11 VHP 5.764 DPA -2.85 RAP 290.92 ECC 1.3225

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 33 25	1977.44	-13.20	27.00	191.48	115.28	10 6 22	1377.4	-9.69	20.08
90.00	19 39 51	5085.67	24.35	225.35	194.84	75.09	21 4 36	4485.7	22.07	217.42
100.00	10 51 12	1726.52	-14.23	8.03	190.97	116.57	11 19 58	1126.5	-10.55	1.17
100.00	21 4 45	4811.82	25.46	204.87	194.50	73.78	22 24 57	4211.8	22.99	196.94
110.00	11 51 18	1538.31	-16.96	352.22	189.44	120.13	12 16 57	938.3	-12.83	345.54
110.00	22 21 8	4572.79	28.41	185.64	193.43	70.14	23 37 20	3972.8	25.44	177.73

DIFFERENTIAL CORRECTIONS

TDE 1.6897 TRA 3.9285 TC3-2.9735 BAU .7837
RDE -.0129 RRA -.7550 RC3 .3280 FAU .03817
FDE 1.7838 FRA 3.6691 FC3-1.6864 BSP 19871
BDE 1.6897 BRA 4.0004 BC3 2.9915 FSP -1689

MID-COURSE EXECUTION ACCURACY

SGT 6164.9 SGR 1027.5 SG3 477.1
RRT -.9242 RRF -.9150 RTF .9851
SGB 6249.9 R23 .0025 R13 -.9852
SG1 6237.9 SG2 387.9 THA 171.21

ORBIT DETERMINATION ACCURACY

ST 2675.0 SR 296.2 SS 1354.4
CRT -.6207 CRS .5754 CST -.9983
LSA 3003.0 MSA 243.7 SSA 14.0
EL1 2681.3 EL2 231.7 ALF 176.04

LAUNCH DATE OCT 4 1965 FLIGHT TIME 204.00 ARRIVAL DATE APR 26 1966

DISTANCE 567.310

HELIOCENTRIC CONIC

RL 149.63 LAL .00 LOL 10.56 VL 27.101 GAL 6.51 AZL 89.18 HCA 259.61 SMA 127.68 ECC .20497 INC .8240 V1 29.778
RP 108.76 LAP -.81 LOP 270.17 VP 37.430 GAP 8.23 AZP 90.15 TAL 152.94 TAP 52.55 RCA 101.51 APO 153.86 V2 34.842
RC 125.075 GL 4.85 GP 19.87 ZAL 38.86 ZAP 150.39 ETS 36.60 ZAE 121.48 ETE 167.75 ZAC 26.59 ETC 185.06 CLP-157.58

PLANETOCENTRIC CONIC

C3 21.014 VHL 4.584 DLA -6.25 RAL 332.22 RAD 6567.9 VEL 11.933 PTH 2.12 VHP 5.986 DPA -3.79 RAP 292.40 ECC 1.3458

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 26 28	2031.34	-14.74	30.20	193.17	114.45	10 0 20	1431.3	-11.32	23.20
90.00	19 50 57	5065.10	23.98	223.95	196.15	74.48	21 15 23	4465.1	21.62	216.08
100.00	10 44 51	1778.51	-15.79	11.10	192.66	115.72	11 14 29	1178.5	-12.20	4.15
100.00	21 15 16	4793.17	25.10	203.60	195.80	73.20	22 35 9	4193.2	22.56	195.72
110.00	11 46 18	1586.12	-18.57	354.99	191.15	119.23	12 12 44	986.1	-14.54	348.20
110.00	22 30 18	4558.33	28.07	184.65	194.68	69.64	23 46 17	3958.3	25.04	176.79

DIFFERENTIAL CORRECTIONS

TDE 1.8357 TRA 4.1460 TC3-2.8123 BAU .7940
RDE .0096 RRA -.7310 RC3 .2807 FAU .03446
FDE 1.7666 FRA 3.5848 FC3-1.4197 BSP 20196
BDE 1.8357 BRA 4.2099 BC3 2.8262 FSP -1592

MID-COURSE EXECUTION ACCURACY

SGT 6252.0 SGR 954.5 SG3 448.0
RRT -.9094 RRF -.8993 RTF .9846
SGB 6324.4 R23 .0008 R13 -.9847
SG1 6312.2 SG2 393.2 THA 172.06

ORBIT DETERMINATION ACCURACY

ST 2777.8 SR 276.1 SS 1339.3
CRT -.5269 CRS .4847 CST -.9987
LSA 3086.5 MSA 243.1 SSA 13.9
EL1 2781.6 EL2 234.3 ALF 176.98

LAUNCH DATE OCT 4 1965 FLIGHT TIME 206.00 ARRIVAL DATE APR 28 1966

HELIOCENTRIC CONIC DISTANCE 573.108

RL	149.63	LAL	.00	LOL	10.56	VL	27.079	GAL	6.88	AZL	89.00	HCA	262.77	SMA	127.54	ECC	.20960	INC	.9934	V1	29.778
RP	108.79	LAP	-.99	LOP	273.34	VP	37.407	GAP	8.69	AZP	90.13	TAL	152.02	TAP	54.79	RCA	100.81	APO	154.27	V2	34.834
RC	127.413	GL	5.66	GP	18.88	ZAL	38.07	ZAP	152.20	ETS	37.64	ZAE	121.01	ETE	168.51	ZAC	27.92	ETC	182.40	CLP	-159.21

PLANETOCENTRIC CONIC

C3	22.600	VHL	4.754	DLA	-5.17	RAL	332.76	RAD	6567.9	VEL	11.999	PTH	2.14	VHP	6.222	DPA	-4.61	RAP	293.96	ECC	1.3719

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 20 27	2082.91	-16.17	33.31	194.99	113.57	9 55 10	1482.9	-12.85	26.21
90.00	20 1 21	5048.69	23.68	222.85	197.58	74.00	21 25 30	4448.7	21.26	215.01
100.00	10 39 22	1828.37	-17.24	14.10	194.49	114.80	11 9 50	1228.4	-13.75	7.04
100.00	21 25 8	4778.46	24.80	202.61	197.21	72.76	22 44 47	4178.5	22.21	194.77
110.00	11 42 1	1632.20	-20.08	357.71	192.99	118.26	12 9 13	1032.2	-16.15	350.79
110.00	22 38 58	4547.40	27.81	183.91	196.06	69.27	23 54 45	3947.4	24.74	176.09

DIFFERENTIAL CORRECTIONS

TDE	1.9862	TRA	4.3745	TC3	-2.6443	BAU	.8022												
RDE	.0318	RRA	-.7101	RC3	.2399	FAU	.03090												
FDE	1.7478	FRA	3.5059	FC3	-1.1838	BSP	20485												
BDE	1.9864	BRA	4.4318	BC3	2.6551	FSP	-1499												

MID-COURSE EXECUTION ACCURACY

SGT	6330.5	SGR	889.9	SG3	420.7						
RRT	-.8930	RRF	-.8821	RTF	.9841						
SGB	6392.8	R23	-.0005	R13	-.9841						
SG1	6380.4	SG2	397.4	THA	172.82						

ORBIT DETERMINATION ACCURACY

ST	2873.7	SR	260.7	SS	1323.3						
CRT	-.4246	CRS	.3858	CST	-.9990						
LSA	3165.2	MSA	242.2	SSA	13.8						
EL1	2875.8	EL2	235.9	ALF	177.78						

LAUNCH DATE OCT 4 1965 FLIGHT TIME 208.00 ARRIVAL DATE APR 30 1966

HELIOCENTRIC CONIC DISTANCE 578.862

RL	149.63	LAL	.00	LOL	10.56	VL	27.057	GAL	7.28	AZL	88.83	HCA	265.94	SMA	127.39	ECC	.21461	INC	1.1724	V1	29.778
RP	108.81	LAP	-1.17	LOP	276.50	VP	37.384	GAP	9.16	AZP	90.08	TAL	151.08	TAP	57.02	RCA	100.05	APO	154.73	V2	34.826
RC	129.747	GL	6.39	GP	17.98	ZAL	37.29	ZAP	153.91	ETS	38.80	ZAE	120.56	ETE	169.17	ZAC	29.38	ETC	180.13	CLP	-160.78

PLANETOCENTRIC CONIC

C3	24.374	VHL	4.937	DLA	-4.18	RAL	333.33	RAD	6568.0	VEL	12.073	PTH	2.16	VHP	6.474	DPA	-5.31	RAP	295.59	ECC	1.4011

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 15 14	2132.46	-17.49	36.35	196.93	112.63	9 50 47	1532.5	-14.28	29.15
90.00	20 11 6	5036.06	23.44	222.00	199.12	73.64	21 35 2	4436.1	20.98	214.19
100.00	10 34 37	1876.38	-18.59	17.03	196.43	113.84	11 5 54	1276.4	-15.21	9.86
100.00	21 34 24	4767.37	24.58	201.86	198.74	72.43	22 53 52	4167.4	21.94	194.05
110.00	11 38 23	1676.80	-21.50	.40	194.95	117.24	12 6 19	1076.8	-17.68	353.35
110.00	22 47 9	4539.72	27.62	183.39	197.56	69.01	24 2 48	3939.7	24.52	175.60

DIFFERENTIAL CORRECTIONS

TDE	2.1407	TRA	4.6140	TC3	-2.4731	BAU	.8086												
RDE	.0539	RRA	-.6915	RC3	.2047	FAU	.02755												
FDE	1.7272	FRA	3.4319	FC3	-.9786	BSP	20754												
BDE	2.1414	BRA	4.6655	BC3	2.4615	FSP	-1410												

MID-COURSE EXECUTION ACCURACY

SGT	6400.0	SGR	832.0	SG3	395.0						
RRT	-.8748	RRF	-.8632	RTF	.9837						
SGB	6453.9	R23	-.0014	R13	-.9837						
SG1	6441.5	SG2	400.5	THA	173.49						

ORBIT DETERMINATION ACCURACY

ST	2961.7	SR	249.4	SS	1306.3						
CRT	-.3167	CRS	.2816	CST	-.9993						
LSA	3237.6	MSA	241.0	SSA	13.7						
EL1	2962.8	EL2	236.5	ALF	178.46						

LAUNCH DATE OCT 4 1965 FLIGHT TIME 210.00 ARRIVAL DATE MAY 2 1966

HELIOCENTRIC CONIC DISTANCE 584.567

RL	149.63	LAL	.00	LOL	10.56	VL	27.035	GAL	7.71	AZL	88.66	HCA	269.10	SMA	127.24	ECC	.22001	INC	1.3438	V1	29.778
RP	108.84	LAP	-1.34	LOP	279.67	VP	37.361	GAP	9.64	AZP	90.02	TAL	150.13	TAP	59.23	RCA	99.25	APO	155.24	V2	34.819
RC	132.074	GL	7.03	GP	17.17	ZAL	36.53	ZAP	155.52	ETS	40.09	ZAE	120.13	ETE	169.76	ZAC	30.94	ETC	178.22	CLP	-162.28

PLANETOCENTRIC CONIC

C3	26.360	VHL	5.134	DLA	-3.27	RAL	333.92	RAD	6568.1	VEL	12.155	PTH	2.18	VHP	6.741	DPA	-5.89	RAP	297.28	ECC	1.4338

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 10 44	2180.27	-18.72	39.32	198.97	111.64	9 47 4	1580.3	-15.62	32.02
90.00	20 20 17	5026.89	23.26	221.39	200.77	73.39	21 44 4	4426.9	20.77	213.60
100.00	10 30 36	1922.79	-19.84	19.89	198.48	112.83	11 2 39	1322.8	-16.57	12.62
100.00	21 43 9	4759.60	24.42	201.34	200.38	72.20	23 2 28	4159.6	21.75	193.55
110.00	11 35 18	1720.10	-22.82	3.06	197.02	116.17	12 3 58	1120.1	-19.12	355.88
110.00	22 54 53	4535.05	27.51	183.08	199.16	68.86	24 10 28	3935.1	24.39	175.30

DIFFERENTIAL CORRECTIONS

TDE	2.3007	TRA	4.8661	TC3	-2.2996	BAU	.8127												
RDE	.0758	RRA	-.6749	RC3	.1743	FAU	.02438												
FDE	1.7063	FRA	3.3632	FC3	-.8008	BSP	20996												
BDE	2.3020	BRA	4.9127	BC3	2.3062	FSP	-1326												

MID-COURSE EXECUTION ACCURACY

SGT	6461.7	SGR	779.9	SG3	371.0						
RRT	-.8550	RRF	-.8428	RTF	.9832						
SGB	6508.6	R23	-.0022	R13	-.9832						
SG1	6496.1	SG2	402.4	THA	174.09						

ORBIT DETERMINATION ACCURACY

ST	3043.0	SR	241.7	SS	1289.1						
CRT	-.2074	CRS	.1764	CST	-.9994						
LSA	3304.9	MSA	239.6	SSA	13.5						
EL1	3043.4	EL2	236.4	ALF	179.05						

LAUNCH DATE OCT 4 1965 FLIGHT TIME 212.00 ARRIVAL DATE MAY 4 1966

HELIOCENTRIC CONIC DISTANCE 590.218

RL	149.63	LAL	.00	LOL	10.56	VL	27.012	GAL	8.17	AZL	88.48	HCA	272.26	SMA	127.09	ECC	.22587	INC	1.5149	V1	29.778
RP	108.86	LAP	-1.51	LOP	282.83	VP	37.338	GAP	10.15	AZP	89.94	TAL	149.18	TAP	61.44	RCA	98.39	APO	155.80	V2	34.812
RC	134.395	GL	7.60	GP	16.43	ZAL	35.79	ZAP	157.04	ETS	41.53	ZAE	119.73	ETE	170.27	ZAC	32.58	ETC	176.61	CLP	-163.73

PLANETOCENTRIC CONIC

C3	28.584	VHL	5.346	DLA	-2.43	RAL	334.51	RAD	6568.1	VEL	12.246	PTH	2.20	VHP	7.025	DPA	-6.38	RAP	299.03	ECC	1.4704

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 6 51	2226.55	-19.86	42.24	201.11	110.61	9 43 57	1626.6	-16.88	34.83
90.00	20 28 55	5020.92	23.15	220.99	202.51	73.22	21 52 36	4420.9	20.63	213.22
100.00	10 27 4	1967.80	-21.00	22.74	200.63	111.78	10 59 51	1367.8	-17.86	15.35
100.00	21 51 23	4754.90	24.32	201.02	202.11	72.06	23 10 38	4154.9	21.64	193.25
110.00	11 32 43	1762.28	-24.06	5.71	199.20	115.04	12 2 5	1162.3	-20.49	358.39
110.00	23 2 13	4533.19	27.46	182.95	200.87	68.80	24 17 47	3933.2	24.33	175.18

DIFFERENTIAL CORRECTIONS

TDE	2.4696	TRA	5.1351	TC3	-2.1212	BAU	.8126												
RDE	.0972	RRA	-.6601	RC3	.1473	FAU	.02125												
FDE	1.6881	FRA	3.3028	FC3	-.6436	BSP	21133												
BDE	2.4715	BRA	5.1773	BC3	2.1263	FSP	-1241												

MID-COURSE EXECUTION ACCURACY

SGT	6518.2	SGR	732.8	SG3	348.8						
RRT	-.8335	RRF	-.8208	RTF	.9828						
SGB	6559.3	R23	-.0028	R13	-.9828						
SG1	6546.9	SG2	403.1	THA	174.63						

ORBIT DETERMINATION ACCURACY

ST	3120.8	SR	236.6	SS	1273.6						
CRT	-.1023	CRS	.0752	CST	-.9996						
LSA	3370.6	MSA	237.7	SSA	13.4						
EL1	3120.9	EL2	235.4	ALF	179.55						

LAUNCH DATE OCT 4 1965 FLIGHT TIME 214.00 ARRIVAL DATE MAY 6 1966

HELIOCENTRIC CONIC DISTANCE 595.808

RL 149.63 LAL .00 LOL 10.56 VL 26.989 GAL 8.66 AZL 88.31 HCA 275.43 SMA 126.94 ECC .23220 INC 1.6867 V1 29.778
RP 108.87 LAP -1.68 LOP 285.99 VP 37.316 GAP 10.68 AZP 89.84 TAL 148.22 TAP 63.64 RCA 97.47 APO 156.42 V2 34.806
RC 136.709 GL 8.10 GP 15.76 ZAL 35.06 ZAP 158.47 ETS 43.17 ZAE 119.35 ETE 170.73 ZAC 34.29 ETC 175.25 CLP-165.14

PLANETOCENTRIC CONIC

C3 31.079 VHL 5.575 DLA -1.65 RAL 335.11 RAO 6568.2 VEL 12.347 PTH 2.23 VHP 7.327 DPA -6.77 RAP 300.82 ECC 1.5115

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 3 31	2271.48	-20.91	45.12	203.34	109.54	9 41 22	1671.5	-18.05	37.61
90.00	20 37 3	5017.93	23.09	220.79	204.34	73.14	22 0 41	4417.9	20.56	213.03
100.00	10 24 5	2011.57	-22.08	25.54	202.87	110.68	10 57 37	1411.6	-19.07	18.04
100.00	21 59 10	4753.08	24.28	200.90	203.93	72.01	23 18 23	4153.1	21.59	193.14
110.00	11 30 34	1803.46	-25.22	8.34	201.47	113.87	12 0 37	1203.5	-21.78	.88
110.00	23 9 10	4533.95	27.48	183.00	202.67	68.82	24 24 44	3933.9	24.35	175.23

DIFFERENTIAL CORRECTIONS
TDE 2.6400 TRA 5.4146 TC3-1.9503 BAU .8120
RDE .1193 RRA -.6458 RC3 .1246 FAU .01846
FDE 1.6668 FRA 3.2448 FC3 -.5142 BSP 21354
BDE 2.6427 BRA 5.4530 BC3 1.9543 FSP -1168

MID-COURSE EXECUTION ACCURACY
SGT 6563.8 SGR 689.3 SG3 327.8
RRT -.8102 RRF -.7971 RTF .9825
SGB 6599.9 R23 -.0033 R13 -.9825
SG1 6587.6 SG2 402.6 THA 175.12

ORBIT DETERMINATION ACCURACY
ST 3186.7 SR 233.9 SS 1256.1
CRT -.0004 CRS -.0229 CST -.9997
LSA 3425.2 MSA 235.5 SSA 14.1
EL1 3186.7 EL2 233.9 ALF 180.00

LAUNCH DATE OCT 4 1965 FLIGHT TIME 216.00 ARRIVAL DATE MAY 8 1966

HELIOCENTRIC CONIC DISTANCE 601.331

RL 149.63 LAL .00 LOL 10.56 VL 26.965 GAL 9.19 AZL 88.14 HCA 278.59 SMA 126.79 ECC .23907 INC 1.8603 V1 29.778
RP 108.89 LAP -1.84 LOP 289.15 VP 37.294 GAP 11.24 AZP 89.72 TAL 147.26 TAP 65.85 RCA 96.48 APO 157.10 V2 34.801
RC 139.015 GL 8.54 GP 15.14 ZAL 34.35 ZAP 159.82 ETS 45.02 ZAE 118.99 ETE 171.14 ZAC 36.05 ETC 174.11 CLP-166.50

PLANETOCENTRIC CONIC

C3 33.885 VHL 5.821 DLA -.94 RAL 335.72 RAO 6568.3 VEL 12.460 PTH 2.25 VHP 7.649 DPA -7.08 RAP 302.64 ECC 1.5577

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 0 40	2315.21	-21.88	47.96	205.65	108.44	9 39 15	1715.2	-19.16	40.34
90.00	20 44 43	5017.74	23.09	220.77	206.25	73.13	22 8 21	4417.7	20.56	213.01
100.00	10 21 34	2054.24	-23.08	28.32	205.20	109.54	10 55 49	1454.2	-20.20	20.70
100.00	22 6 30	4753.94	24.30	200.96	205.83	72.03	23 25 44	4153.9	21.61	193.19
110.00	11 28 49	1843.76	-26.31	10.97	203.83	112.66	11 59 32	1243.8	-23.01	3.37
110.00	23 15 45	4537.18	27.56	183.22	204.55	68.93	24 31 22	3937.2	24.45	175.44

DIFFERENTIAL CORRECTIONS
TDE 2.8178 TRA 5.7108 TC3-1.7815 BAU .8085
RDE .1415 RRA -.6321 RC3 .1048 FAU .01581
FDE 1.6469 FRA 3.1929 FC3 -.4039 BSP 21543
BDE 2.8213 BRA 5.7457 BC3 1.7846 FSP -1099

MID-COURSE EXECUTION ACCURACY
SGT 6602.9 SGR 649.2 SG3 308.2
RRT -.7850 RRF -.7718 RTF .9824
SGB 6634.8 R23 -.0036 R13 -.9823
SG1 6622.6 SG2 401.0 THA 175.57

ORBIT DETERMINATION ACCURACY
ST 3246.6 SR 232.9 SS 1239.5
CRT .0940 CRS -.1136 CST -.9997
LSA 3475.1 MSA 233.0 SSA 13.0
EL1 3246.7 EL2 231.9 ALF .39

LAUNCH DATE OCT 4 1965 FLIGHT TIME 218.00 ARRIVAL DATE MAY 10 1966

HELIOCENTRIC CONIC DISTANCE 606.776

RL 149.63 LAL .00 LOL 10.56 VL 26.942 GAL 9.76 AZL 87.96 HCA 281.74 SMA 126.64 ECC .24654 INC 2.0367 V1 29.778
RP 108.90 LAP -1.99 LOP 292.32 VP 37.273 GAP 11.83 AZP 89.59 TAL 146.31 TAP 68.05 RCA 95.42 APO 157.86 V2 34.797
RC 141.312 GL 8.92 GP 14.58 ZAL 33.66 ZAP 161.09 ETS 47.13 ZAE 118.63 ETE 171.50 ZAC 37.85 ETC 173.15 CLP-167.84

PLANETOCENTRIC CONIC

C3 37.047 VHL 6.087 DLA -.30 RAL 336.32 RAO 6568.4 VEL 12.586 PTH 2.28 VHP 7.993 DPA -7.30 RAP 304.50 ECC 1.6097

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 58 16	2357.85	-22.77	50.77	208.03	107.31	9 37 34	1757.8	-20.19	43.05
90.00	20 51 56	5020.16	23.13	220.94	208.23	73.20	22 15 36	4420.2	20.61	213.17
100.00	10 19 28	2095.90	-24.00	31.07	207.60	108.38	10 54 24	1495.9	-21.27	23.34
100.00	22 13 24	4757.34	24.37	201.19	207.81	72.13	23 32 42	4157.3	21.70	193.41
110.00	11 27 24	1883.27	-27.32	13.60	206.27	111.40	11 58 47	1283.3	-24.16	5.85
110.00	23 21 58	4542.73	27.70	183.59	206.50	69.12	24 37 41	3942.7	24.60	175.79

DIFFERENTIAL CORRECTIONS
TDE 3.0036 TRA 6.0255 TC3-1.6157 BAU .8014
RDE .1638 RRA -.6187 RC3 .0874 FAU .01329
FDE 1.6287 FRA 3.1474 FC3 -.3106 BSP 21701
BDE 3.0081 BRA 6.0572 BC3 1.6180 FSP -1033

MID-COURSE EXECUTION ACCURACY
SGT 6636.0 SGR 611.9 SG3 290.1
RRT -.7578 RRF -.7446 RTF .9823
SGB 6664.1 R23 -.0039 R13 -.9823
SG1 6652.2 SG2 398.2 THA 175.99

ORBIT DETERMINATION ACCURACY
ST 3300.5 SR 233.1 SS 1223.9
CRT .1801 CRS -.1963 CST -.9998
LSA 3520.3 MSA 230.0 SSA 12.8
EL1 3300.8 EL2 229.3 ALF .73

LAUNCH DATE OCT 4 1965 FLIGHT TIME 220.00 ARRIVAL DATE MAY 12 1966

HELIOCENTRIC CONIC DISTANCE 612.134

RL 149.63 LAL .00 LOL 10.56 VL 26.918 GAL 10.38 AZL 87.78 HCA 284.90 SMA 126.48 ECC .25465 INC 2.2172 V1 29.778
RP 108.92 LAP -2.14 LOP 295.48 VP 37.252 GAP 12.45 AZP 89.43 TAL 145.37 TAP 70.27 RCA 94.27 APO 158.69 V2 34.793
RC 143.598 GL 9.25 GP 14.07 ZAL 32.99 ZAP 162.29 ETS 49.53 ZAE 118.29 ETE 171.84 ZAC 39.69 ETC 172.35 CLP-169.15

PLANETOCENTRIC CONIC

C3 40.621 VHL 6.373 DLA .30 RAL 336.92 RAO 6568.6 VEL 12.727 PTH 2.31 VHP 8.362 DPA -7.44 RAP 306.37 ECC 1.6685

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 56 15	2399.48	-23.58	53.55	210.48	106.14	9 36 15	1799.5	-21.14	45.72
90.00	20 58 42	5025.06	23.23	221.26	210.27	73.33	22 22 27	4425.1	20.73	213.49
100.00	10 17 44	2136.65	-24.85	33.80	210.07	107.18	10 53 21	1536.7	-22.26	25.96
100.00	22 19 54	4763.12	24.49	201.58	209.85	72.30	23 39 17	4163.1	21.84	193.78
110.00	11 26 18	1922.05	-28.25	16.23	208.78	110.09	11 58 20	1322.0	-25.25	8.34
110.00	23 27 50	4550.50	27.88	184.12	208.53	69.38	24 43 40	3950.5	24.82	176.29

DIFFERENTIAL CORRECTIONS
TDE 3.1977 TRA 6.3596 TC3-1.4544 BAU .7908
RDE .1866 RRA -.6051 RC3 .0723 FAU .01091
FDE 1.6119 FRA 3.1077 FC3 -.2325 BSP 21851
BDE 3.2032 BRA 6.3883 BC3 1.4562 FSP -972

MID-COURSE EXECUTION ACCURACY
SGT 6662.3 SGR 576.7 SG3 273.1
RRT -.7284 RRF -.7153 RTF .9823
SGB 6687.2 R23 -.0040 R13 -.9823
SG1 6675.6 SG2 394.3 THA 176.38

ORBIT DETERMINATION ACCURACY
ST 3347.9 SR 234.1 SS 1209.4
CRT .2580 CRS -.2713 CST -.9998
LSA 3560.1 MSA 226.6 SSA 12.6
EL1 3348.5 EL2 226.1 ALF 1.04

LAUNCH DATE OCT 5 1965 FLIGHT TIME 70.00 ARRIVAL DATE DEC 14 1965

HELIOCENTRIC CONIC DISTANCE 136.738

RL	149.59	LAL	.00	LOL	11.55	VL	17.640	GAL	18.39	AZL	91.70	HCA	44.35	SMA	90.70	ECC	.69220	INC	1.7014	V1	29.787
RP	108.02	LAP	-1.19	LOP	55.89	VP	31.528	GAP	-42.67	AZP	91.22	TAL	171.27	TAP	215.62	RCA	27.92	APO	153.48	V2	35.082
RC	68.856	GL	-1.98	GP	-4.18	ZAL	65.09	ZAP	29.79	ETS	169.29	ZAE	140.02	ETE	182.71	ZAC	18.41	ETC	86.56	CLP	29.52

PLANETOCENTRIC CONIC

C3 207.353 VHL 14.400 DLA -20.57 RAL 309.39 RAD 6571.2 VEL 18.129 PTH 3.02 VHP 24.358 DPA -28.06 RAP 264.48 ECC 4.4125

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 0 50	2036.60	-14.89	30.52	203.11	114.37	10 34 46	1436.6	-11.48	23.50
90.00	16 6 36	796.86	21.82	318.13	217.23	108.51	16 19 53	196.9	24.15	310.23
100.00	11 8 39	1817.73	-16.93	13.45	202.13	115.01	11 38 57	1217.7	-13.42	6.42
100.00	17 41 28	5779.00	23.96	274.30	218.00	108.43	19 17 47	5179.0	26.25	266.26
110.00	11 48 7	1694.05	-22.03	1.45	199.51	116.82	12 16 21	1094.0	-18.26	354.35
110.00	19 18 29	5475.45	29.33	253.25	220.01	108.39	20 49 45	4875.4	31.56	244.75

DIFFERENTIAL CORRECTIONS

TDE	-.4902	TRA	-1.6933	TC3	-.1184	BAU	.3282	SGT	819.8	SGR	454.7	SG3	29.0
RDE	-1.0592	RRA	.4007	RC3	-.0035	FAU	.01251	RRT	-.0990	RRF	.0929	RTF	-.6264
FDE	.2165	FRA	.6763	FC3	-.0522	BSP	2165	SGB	937.5	R23	-.0039	R13	.6271
BDE	1.1671	BRA	1.7401	BC3	.1184	FSP	-60	SG1	821.6	SG2	451.5	THA	175.49

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

ST	291.1	SR	424.5	SS	256.7						
CRT	.5758	CRS	.6161	CST	.9961						
LSA	514.0	MSA	257.8	SSA	13.9						
EL1	467.1	EL2	216.3	ALF	61.93						

LAUNCH DATE OCT 5 1965 FLIGHT TIME 72.00 ARRIVAL DATE DEC 16 1965

HELIOCENTRIC CONIC DISTANCE 142.611

RL	149.59	LAL	.00	LOL	11.55	VL	18.333	GAL	17.62	AZL	91.37	HCA	47.56	SMA	92.27	ECC	.66492	INC	1.3675	V1	29.787
RP	107.98	LAP	-1.01	LOP	59.10	VP	31.935	GAP	-40.71	AZP	90.92	TAL	170.54	TAP	218.10	RCA	30.92	APO	153.63	V2	35.095
RC	66.778	GL	-1.74	GP	-4.31	ZAL	63.86	ZAP	28.30	ETS	168.61	ZAE	140.33	ETE	183.40	ZAC	18.61	ETC	91.72	CLP	27.99

PLANETOCENTRIC CONIC

C3 188.405 VHL 13.726 DLA -20.03 RAL 310.59 RAD 6571.0 VEL 17.599 PTH 2.97 VHP 23.401 DPA -28.33 RAP 266.37 ECC 4.1007

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 59 20	2044.89	-15.12	31.01	203.27	114.23	10 33 25	1444.9	-11.72	23.99
90.00	16 17 44	758.72	22.63	315.62	217.35	107.50	16 30 23	158.7	24.81	307.63
100.00	11 7 51	1823.81	-17.11	13.82	202.32	114.89	11 38 15	1223.8	-13.61	6.77
100.00	17 51 54	5743.08	24.71	271.90	218.07	107.38	19 27 38	5143.1	26.85	263.76
110.00	11 48 36	1696.12	-22.09	1.58	199.76	116.77	12 16 52	1096.1	-18.32	354.47
110.00	19 27 39	5443.53	30.00	251.00	219.92	107.22	20 58 23	4843.5	32.06	242.40

DIFFERENTIAL CORRECTIONS

TDE	-.5024	TRA	-1.7059	TC3	-.1261	BAU	.3178	SGT	859.2	SGR	460.1	SG3	31.4
RDE	-1.0150	RRA	.4024	RC3	-.0050	FAU	.01264	RRT	-.1061	RRF	.1005	RTF	-.6459
FDE	.2329	FRA	.7029	FC3	-.0581	BSP	2275	SGB	974.6	R23	-.0050	R13	.6466
BDE	1.1326	BRA	1.7527	BC3	.1262	FSP	-66	SG1	861.1	SG2	456.5	THA	175.48

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

ST	309.5	SR	427.1	SS	273.2						
CRT	.5800	CRS	.6268	CST	.9959						
LSA	531.3	MSA	265.1	SSA	14.1						
EL1	476.6	EL2	225.9	ALF	59.73						

LAUNCH DATE OCT 5 1965 FLIGHT TIME 74.00 ARRIVAL DATE DEC 18 1965

HELIOCENTRIC CONIC DISTANCE 148.579

RL	149.59	LAL	.00	LOL	11.55	VL	18.982	GAL	16.88	AZL	91.07	HCA	50.77	SMA	93.85	ECC	.63816	INC	1.0658	V1	29.787
RP	107.94	LAP	-.83	LOP	62.31	VP	32.325	GAP	-38.86	AZP	90.67	TAL	169.82	TAP	220.59	RCA	33.96	APO	153.74	V2	35.108
RC	64.732	GL	-1.48	GP	-4.44	ZAL	62.67	ZAP	26.83	ETS	167.83	ZAE	140.75	ETE	184.16	ZAC	18.97	ETC	96.80	CLP	26.49

PLANETOCENTRIC CONIC

C3 171.274 VHL 13.087 DLA -19.47 RAL 311.73 RAD 6570.9 VEL 17.106 PTH 2.93 VHP 22.478 DPA -28.60 RAP 268.30 ECC 3.8187

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 57 35	2052.55	-15.34	31.48	203.32	114.10	10 31 48	1452.5	-11.95	24.43
90.00	16 28 34	719.74	23.40	313.02	217.31	106.42	16 40 33	119.7	25.43	304.94
100.00	11 6 45	1829.33	-17.27	14.15	202.41	114.79	11 37 15	1229.3	-13.78	7.10
100.00	18 2 4	5706.23	25.43	269.40	217.97	106.26	19 37 11	5106.2	27.42	261.16
110.00	11 48 45	1697.75	-22.14	1.68	199.91	116.73	12 17 2	1097.7	-18.38	354.57
110.00	19 36 34	5410.57	30.64	248.65	219.67	105.96	21 6 45	4810.6	32.52	239.94

DIFFERENTIAL CORRECTIONS

TDE	-.5116	TRA	-1.7164	TC3	-.1333	BAU	.3056	SGT	898.4	SGR	464.9	SG3	34.1
RDE	-.9712	RRA	.4030	RC3	-.0067	FAU	.01279	RRT	-.1144	RRF	.1088	RTF	-.6649
FDE	.2496	FRA	.7298	FC3	-.0647	BSP	2445	SGB	1011.6	R23	-.0056	R13	.6657
BDE	1.0977	BRA	1.7631	BC3	.1335	FSP	-74	SG1	900.6	SG2	460.7	THA	175.41

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

ST	327.8	SR	428.9	SS	290.0						
CRT	.5820	CRS	.6362	CST	.9955						
LSA	548.9	MSA	271.9	SSA	14.3						
EL1	485.8	EL2	235.3	ALF	57.53						

LAUNCH DATE OCT 5 1965 FLIGHT TIME 76.00 ARRIVAL DATE DEC 20 1965

HELIOCENTRIC CONIC DISTANCE 154.638

RL	149.59	LAL	.00	LOL	11.55	VL	19.588	GAL	16.15	AZL	90.79	HCA	53.98	SMA	95.43	ECC	.61201	INC	.7905	V1	29.787
RP	107.90	LAP	-.64	LOP	65.53	VP	32.698	GAP	-37.09	AZP	90.47	TAL	169.12	TAP	223.10	RCA	37.03	APO	153.83	V2	35.120
RC	62.721	GL	-1.19	GP	-4.59	ZAL	61.54	ZAP	25.39	ETS	166.95	ZAE	141.26	ETE	185.01	ZAC	19.49	ETC	101.70	CLP	25.00

PLANETOCENTRIC CONIC

C3 155.773 VHL 12.481 DLA -18.89 RAL 312.80 RAD 6570.7 VEL 16.646 PTH 2.89 VHP 21.588 DPA -28.86 RAP 270.25 ECC 3.5636

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 55 33	2059.60	-15.53	31.90	203.27	113.98	10 29 53	1459.6	-12.16	24.84
90.00	16 39 6	679.90	24.14	310.34	217.10	105.27	16 50 26	79.9	26.00	302.17
100.00	11 5 21	1834.34	-17.41	14.46	202.38	114.69	11 35 56	1234.3	-13.93	7.39
100.00	18 11 58	5668.43	26.13	266.81	217.70	105.06	19 46 27	5068.4	27.94	258.48
110.00	11 48 34	1698.96	-22.18	1.75	199.94	116.70	12 16 53	1099.0	-18.42	354.64
110.00	19 45 15	5376.58	31.25	246.19	219.24	104.62	21 14 52	4776.6	32.94	237.37

DIFFERENTIAL CORRECTIONS

TDE	-.5224	TRA	-1.7295	TC3	-.1411	BAU	.2943	SGT	941.1	SGR	469.1	SG3	36.9
RDE	-.9277	RRA	.4027	RC3	-.0088	FAU	.01296	RRT	-.1226	RRF	.1178	RTF	-.6830
FDE	.2670	FRA	.7577	FC3	-.0720	BSP	2564	SGB	1051.5	R23	-.0071	R13	.6839
BDE	1.0646	BRA	1.7757	BC3	.1413	FSP	-81	SG1	943.4	SG2	464.4	THA	175.38

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

ST	347.8	SR	429.9	SS	307.7						
CRT	.5843	CRS	.6447	CST	.9951						
LSA	568.2	MSA	278.1	SSA	14.5						
EL1	495.9	EL2	244.7	ALF	55.03						

LAUNCH DATE OCT 5 1965 FLIGHT TIME 78.00 ARRIVAL DATE DEC 22 1965

HELIOCENTRIC CONIC — DISTANCE 160.782

RL	149.59	LAL	.00	LOL	11.55	VL	20.155	GAL	15.45	AZL	90.54	HCA	57.20	SMA	97.00	ECC	.58654	INC	.5365	V1	29.787
RP	107.87	LAP	-.45	LOP	68.75	VP	33.054	GAP	-35.41	AZP	90.29	TAL	168.44	TAP	225.64	RCA	40.11	APO	153.90	V2	35.132
RC	60.751	GL	-.88	GP	-4.75	ZAL	60.47	ZAP	23.97	ETS	165.94	ZAE	141.87	ETE	185.96	ZAC	20.16	ETC	106.36	CLP	23.53

PLANETOCENTRIC CONIC

C3	141.730	VHL	11.905	DLA	-18.29	RAL	313.79	RAD	6570.5	VEL	16.219	PTH	2.85	VHP	20.729	DPA	-29.10	RAP	272.24	ECC	3.3325

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 53 14	2066.10	-15.71	32.29	203.10	113.86	10 27 40	1466.1	-12.35	25.23
90.00	16 49 21	639.17	24.84	307.56	216.72	104.05	17 0 0	39.2	26.53	299.30
100.00	11 3 39	1838.88	-17.54	14.73	202.25	114.60	11 34 18	1238.9	-14.07	7.66
100.00	18 21 37	5629.66	26.79	264.12	217.26	103.79	19 55 26	5029.7	28.42	255.69
110.00	11 48 3	1699.77	-22.21	1.80	199.86	116.68	12 16 22	1099.8	-18.45	354.69
110.00	19 53 42	5341.54	31.82	243.62	218.64	103.20	21 22 44	4741.5	33.31	234.71

DIFFERENTIAL CORRECTIONS

TDE	-.5301	TRA	-1.7402	TC3	-.1481	BAU	.2814												
RDE	-.8846	RRA	.4016	RC3	-.0113	FAU	.01316												
FDE	.2847	FRA	.7861	FC3	-.0804	BSP	2743												
BDE	1.0313	BRA	1.7859	BC3	.1485	FSP	-89												

MID-COURSE EXECUTION ACCURACY

SGT	983.6	SGR	472.6	SG3	40.0						
RRT	-.1323	RRF	.1276	RTF	-.7008						
SGB	1091.3	R23	-.0080	R13	.7016						
SG1	986.1	SG2	467.3	THA	175.31						

ORBIT DETERMINATION ACCURACY

ST	367.7	SR	430.1	SS	325.8						
CRT	.5846	CRS	.6521	CST	.9945						
LSA	587.9	MSA	283.7	SSA	14.7						
EL1	505.8	EL2	253.7	ALF	52.53						

LAUNCH DATE OCT 5 1965 FLIGHT TIME 80.00 ARRIVAL DATE DEC 24 1965

HELIOCENTRIC CONIC — DISTANCE 167.004

RL	149.59	LAL	.00	LOL	11.55	VL	20.685	GAL	14.77	AZL	90.30	HCA	60.42	SMA	98.56	ECC	.56180	INC	.2999	V1	29.787
RP	107.83	LAP	-.26	LOP	71.97	VP	33.392	GAP	-33.80	AZP	90.15	TAL	167.78	TAP	228.20	RCA	43.19	APO	153.93	V2	35.144
RC	58.824	GL	-.53	GP	-4.93	ZAL	59.46	ZAP	22.58	ETS	164.78	ZAE	142.58	ETE	187.03	ZAC	20.98	ETC	110.72	CLP	22.07

PLANETOCENTRIC CONIC

C3	129.002	VHL	11.358	DLA	-17.68	RAL	314.71	RAD	6570.4	VEL	15.822	PTH	2.80	VHP	19.899	DPA	-29.34	RAP	274.25	ECC	3.1231

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 50 36	2072.13	-15.88	32.66	202.84	113.76	10 25 9	1472.1	-12.53	25.58
90.00	16 59 19	5885.55	25.50	282.59	216.18	102.75	18 37 25	5285.5	27.00	274.25
100.00	11 1 37	1843.01	-17.65	14.98	202.00	114.52	11 32 20	1243.0	-14.20	7.90
100.00	18 31 0	5589.90	27.40	261.32	216.65	102.44	20 4 10	4989.9	28.84	252.81
110.00	11 47 11	1700.24	-22.22	1.83	199.68	116.67	12 15 31	1100.2	-18.46	354.72
110.00	20 1 55	5305.43	32.35	240.94	217.87	101.69	21 30 21	4705.4	33.62	231.93

DIFFERENTIAL CORRECTIONS

TDE	-.5373	TRA	-1.7508	TC3	-.1549	BAU	.2682												
RDE	-.8419	RRA	.3996	RC3	-.0142	FAU	.01338												
FDE	.3031	FRA	.8154	FC3	-.0898	BSP	2927												
BDE	.9987	BRA	1.7958	BC3	.1555	FSP	-98												

MID-COURSE EXECUTION ACCURACY

SGT	1027.9	SGR	475.6	SG3	43.3						
RRT	-.1426	RRF	.1383	RTF	-.7177						
SGB	1132.6	R23	-.0091	R13	.7186						
SG1	1030.7	SG2	469.4	THA	175.23						

ORBIT DETERMINATION ACCURACY

ST	388.5	SR	429.4	SS	344.7						
CRT	.5843	CRS	.6587	CST	.9938						
LSA	608.8	MSA	288.5	SSA	14.9						
EL1	516.3	EL2	262.2	ALF	49.87						

LAUNCH DATE OCT 5 1965 FLIGHT TIME 82.00 ARRIVAL DATE DEC 26 1965

HELIOCENTRIC CONIC — DISTANCE 173.299

RL	149.59	LAL	.00	LOL	11.55	VL	21.181	GAL	14.11	AZL	90.08	HCA	63.64	SMA	100.11	ECC	.53784	INC	.0776	V1	29.787
RP	107.80	LAP	-.07	LOP	75.19	VP	33.713	GAP	-32.27	AZP	90.04	TAL	167.15	TAP	230.79	RCA	46.27	APO	153.95	V2	35.155
RC	56.947	GL	-.15	GP	-5.12	ZAL	58.50	ZAP	21.22	ETS	163.43	ZAE	143.40	ETE	188.24	ZAC	21.93	ETC	114.75	CLP	20.62

PLANETOCENTRIC CONIC

C3	117.461	VHL	10.838	DLA	-17.04	RAL	315.56	RAD	6570.2	VEL	15.453	PTH	2.76	VHP	19.098	DPA	-29.57	RAP	276.28	ECC	2.9331

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 47 40	2077.76	-16.03	33.00	202.46	113.66	10 22 18	1477.8	-12.70	25.91
90.00	17 9 3	5842.93	26.11	279.62	215.46	101.38	18 46 26	5242.9	27.41	271.20
100.00	10 59 14	1846.81	-17.76	15.22	201.66	114.45	11 30 1	1246.8	-14.31	8.12
100.00	18 40 9	5549.12	27.97	258.42	215.87	101.01	20 12 38	4949.1	29.20	249.83
110.00	11 45 58	1700.44	-22.23	1.84	199.39	116.66	12 14 18	1100.4	-18.47	354.73
110.00	20 9 55	5268.25	32.83	238.14	216.92	100.10	21 37 44	4668.2	33.88	229.06

DIFFERENTIAL CORRECTIONS

TDE	-.5436	TRA	-1.7609	TC3	-.1612	BAU	.2547												
RDE	-.7997	RRA	.3971	RC3	-.0176	FAU	.01363												
FDE	.3222	FRA	.8456	FC3	-.1005	BSP	3117												
BDE	.9670	BRA	1.8051	BC3	.1622	FSP	-108												

MID-COURSE EXECUTION ACCURACY

SGT	1073.6	SGR	477.9	SG3	46.9						
RRT	-.1539	RRF	.1500	RTF	-.7341						
SGB	1175.2	R23	-.0103	R13	.7350						
SG1	1076.8	SG2	470.8	THA	175.15						

ORBIT DETERMINATION ACCURACY

ST	409.9	SR	427.9	SS	364.2						
CRT	.5831	CRS	.6644	CST	.9930						
LSA	630.8	MSA	292.6	SSA	15.0						
EL1	527.3	EL2	270.2	ALF	47.10						

LAUNCH DATE OCT 5 1965 FLIGHT TIME 84.00 ARRIVAL DATE DEC 28 1965

HELIOCENTRIC CONIC — DISTANCE 179.662

RL	149.59	LAL	.00	LOL	11.55	VL	21.646	GAL	13.48	AZL	89.87	HCA	66.87	SMA	101.63	ECC	.51469	INC	.1310	V1	29.787
RP	107.76	LAP	.12	LOP	78.42	VP	34.018	GAP	-30.80	AZP	89.95	TAL	166.55	TAP	233.42	RCA	49.32	APO	153.94	V2	35.166
RC	55.125	GL	.27	GP	-5.33	ZAL	57.60	ZAP	19.89	ETS	161.86	ZAE	144.33	ETE	189.62	ZAC	23.00	ETC	118.45	CLP	19.18

PLANETOCENTRIC CONIC

C3	106.993	VHL	10.344	DLA	-16.39	RAL	316.34	RAD	6570.1	VEL	15.111	PTH	2.72	VHP	18.323	DPA	-29.79	RAP	278.33	ECC	2.7608

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 44 23	2083.13	-16.18	33.33	201.99	113.56	10 19 6	1483.1	-12.85	26.23
90.00	17 18 32	5799.31	26.65	276.54	214.58	99.93	18 55 11	5199.3	27.76	268.05
100.00	10 56 31	1850.38	-17.86	15.43	201.21	114.37	11 27 21	1250.4	-14.42	8.33
100.00	18 49 5	5507.29	28.47	255.42	214.93	99.51	20 20 52	4907.3	29.49	246.76
110.00	11 44 22	1700.45	-22.23	1.84	198.99	116.66	12 12 43	1100.5	-18.47	354.73
110.00	20 17 43	5229.98	33.25	235.23	215.81	98.43	21 44 53	4630.0	34.06	226.09

DIFFERENTIAL CORRECTIONS

TDE	-.5520	TRA	-1.7732	TC3	-.1681	BAU	.2424												
RDE	-.7579	RRA	.3940	RC3	-.0215	FAU	.01390												
FDE	.3424	FRA	.8773	FC3	-.1125	BSP	3250												
BDE	.9377	BRA	1.8165	BC3	.1694	FSP	-119												

MID-COURSE EXECUTION ACCURACY

SGT	1123.6	SGR	479.6	SG3	50.9						
RRT	-.1652	RRF	.1627	RTF	-.7493						
SGB	1221.7	R23	-.0126	R13	.7502						
SG1	1127.0	SG2	471.6	THA	175.11						

ORBIT DETERMINATION ACCURACY

ST	433.5	SR	425.4	SS	384.9						
CRT	.5826	CRS	.6696	CST	.9923						
LSA	655.2	MSA	295.8	SSA	15.2						
EL1	540.3	EL2	277.4	ALF	44.06						

LAUNCH DATE OCT 5 1965 FLIGHT TIME 86.00 ARRIVAL DATE DEC 30 1965

HELIOCENTRIC CONIC DISTANCE 186.087

RL	149.59	LAL	.00	LOL	11.55	VL	22.080	GAL	12.86	AZL	89.67	HCA	70.09	SMA	103.13	ECC	.49238	INC	.3315	V1	29.787
RP	107.73	LAP	.31	LOP	81.64	VP	34.307	GAP	-29.40	AZP	89.89	TAL	165.98	TAP	236.08	RCA	52.35	APO	153.91	V2	35.176
RC	53.365	GL	.72	GP	-5.56	ZAL	56.76	ZAP	18.58	ETS	160.01	ZAE	145.37	ETE	191.20	ZAC	24.18	ETC	121.80	CLP	17.76

PLANETOCENTRIC CONIC

C3	97.496	VHL	9.874	DLA	-15.71	RAL	317.04	RAD	6569.9	VEL	14.793	PTH	2.67	VHP	17.575	DPA	-30.00	RAP	280.41	ECC	2.6045

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 40 44	2088.33	-16.32	33.64	201.41	113.47	10 15 33	1488.3	-13.01	26.53
90.00	17 27 47	5754.68	27.14	273.37	213.54	98.41	19 3 42	5154.7	28.02	264.81
100.00	10 53 25	1853.83	-17.96	15.64	200.65	114.30	11 24 19	1253.8	-14.53	8.53
100.00	18 57 47	5464.41	28.92	252.31	213.83	97.93	20 28 52	4864.4	29.71	243.59
110.00	11 42 24	1700.38	-22.23	1.84	198.49	116.67	12 10 45	1100.4	-18.47	354.72
110.00	20 25 18	5190.63	33.60	232.22	214.53	96.68	21 51 48	4590.6	34.16	223.02

DIFFERENTIAL CORRECTIONS

TDE	-.5575	TRA	-1.7826	TC3	-.1735	BAU	.2286
RDE	-.7168	RRA	.3905	RC3	-.0261	FAU	.01421
FDE	.3634	FRA	.9099	FC3	-.1262	BSP	3441
BDE	.9080	BRA	1.8249	BC3	.1754	FSP	-130

MID-COURSE EXECUTION ACCURACY

SGT	1173.3	SGR	480.7	SG3	55.1		
RRT	-.1785	RRF	.1769	RTF	-.7641		
SGB	1267.9	R23	-.0144	R13	.7651		
SG1	1177.0	SG2	471.5	THA	175.01		

ORBIT DETERMINATION ACCURACY

ST	456.8	SR	421.9	SS	406.3
CRT	.5801	CRS	.6739	CST	.9914
LSA	680.1	MSA	298.2	SSA	15.4
EL1	553.3	EL2	283.7	ALF	41.09

LAUNCH DATE OCT 5 1965 FLIGHT TIME 88.00 ARRIVAL DATE JAN 1 1966

HELIOCENTRIC CONIC DISTANCE 192.569

RL	149.59	LAL	.00	LOL	11.55	VL	22.486	GAL	12.27	AZL	89.48	HCA	73.32	SMA	104.60	ECC	.47093	INC	.5239	V1	29.787
RP	107.70	LAP	.50	LOP	84.87	VP	34.580	GAP	-28.05	AZP	89.85	TAL	165.45	TAP	238.77	RCA	55.34	APO	153.86	V2	35.186
RC	51.675	GL	1.22	GP	-5.82	ZAL	55.97	ZAP	17.31	ETS	157.82	ZAE	146.51	ETE	193.01	ZAC	25.46	ETC	124.84	CLP	16.33

PLANETOCENTRIC CONIC

C3	88.883	VHL	9.428	DLA	-15.00	RAL	317.67	RAD	6569.7	VEL	14.499	PTH	2.63	VHP	16.851	DPA	-30.21	RAP	282.50	ECC	2.4628

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 36 43	2093.53	-16.46	33.96	200.74	113.37	10 11 36	1493.5	-13.16	26.84
90.00	17 36 50	5708.99	27.55	270.09	212.34	96.81	19 11 59	5109.0	28.21	261.48
100.00	10 49 55	1857.30	-18.06	15.86	200.00	114.23	11 20 53	1257.3	-14.63	8.74
100.00	19 6 18	5420.45	29.29	249.09	212.56	96.28	20 36 39	4820.5	29.85	240.33
110.00	11 40 2	1700.34	-22.22	1.84	197.89	116.67	12 8 22	1100.3	-18.47	354.72
110.00	20 32 41	5150.17	33.88	229.09	213.09	94.85	21 58 31	4550.2	34.18	219.86

DIFFERENTIAL CORRECTIONS

TDE	-.5620	TRA	-1.7911	TC3	-.1779	BAU	.2146
RDE	-.6762	RRA	.3866	RC3	-.0315	FAU	.01456
FDE	.3853	FRA	.9438	FC3	-.1418	BSP	3646
BDE	.8792	BRA	1.8323	BC3	.1806	FSP	-144

MID-COURSE EXECUTION ACCURACY

SGT	1224.3	SGR	481.2	SG3	59.8		
RRT	-.1932	RRF	.1925	RTF	-.7783		
SGB	1315.5	R23	-.0163	R13	.7793		
SG1	1228.5	SG2	470.6	THA	174.91		

ORBIT DETERMINATION ACCURACY

ST	480.7	SR	417.4	SS	428.6
CRT	.5767	CRS	.6774	CST	.9904
LSA	706.2	MSA	299.8	SSA	15.5
EL1	567.2	EL2	288.9	ALF	38.10

LAUNCH DATE OCT 5 1965 FLIGHT TIME 90.00 ARRIVAL DATE JAN 3 1966

HELIOCENTRIC CONIC DISTANCE 199.103

RL	149.59	LAL	.00	LOL	11.55	VL	22.866	GAL	11.69	AZL	89.29	HCA	76.55	SMA	106.04	ECC	.45034	INC	.7100	V1	29.787
RP	107.67	LAP	.69	LOP	88.10	VP	34.837	GAP	-26.75	AZP	89.84	TAL	164.95	TAP	241.50	RCA	58.29	APO	153.79	V2	35.196
RC	50.062	GL	1.77	GP	-6.09	ZAL	55.25	ZAP	16.09	ETS	155.22	ZAE	147.75	ETE	195.11	ZAC	26.82	ETC	127.56	CLP	14.92

PLANETOCENTRIC CONIC

C3	81.072	VHL	9.004	DLA	-14.26	RAL	318.23	RAD	6569.6	VEL	14.227	PTH	2.59	VHP	16.152	DPA	-30.41	RAP	284.60	ECC	2.3342

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 32 16	2098.88	-16.60	34.29	199.98	113.27	10 7 15	1498.9	-13.31	27.15
90.00	17 45 42	5662.22	27.88	266.71	210.98	95.15	19 20 5	5062.2	28.30	258.07
100.00	10 46 1	1860.94	-18.16	16.08	199.26	114.16	11 17 2	1260.9	-14.74	8.95
100.00	19 14 39	5375.39	29.58	245.77	211.15	94.55	20 44 14	4775.4	29.89	236.98
110.00	11 37 15	1700.48	-22.23	1.85	197.20	116.66	12 5 35	1100.5	-18.47	354.73
110.00	20 39 54	5108.62	34.07	225.86	211.49	92.94	22 5 3	4508.6	34.10	216.61

DIFFERENTIAL CORRECTIONS

TDE	-.5664	TRA	-1.7988	TC3	-.1813	BAU	.2007
RDE	-.6361	RRA	.3826	RC3	-.0377	FAU	.01494
FDE	.4086	FRA	.9793	FC3	-.1596	BSP	3849
BDE	.8517	BRA	1.8391	BC3	.1852	FSP	-158

MID-COURSE EXECUTION ACCURACY

SGT	1277.3	SGR	481.2	SG3	64.9		
RRT	-.2092	RRF	.2098	RTF	-.7918		
SGB	1364.9	R23	-.0187	R13	.7929		
SG1	1281.9	SG2	468.9	THA	174.79		

ORBIT DETERMINATION ACCURACY

ST	505.5	SR	411.8	SS	451.9
CRT	.5727	CRS	.6801	CST	.9894
LSA	734.0	MSA	300.6	SSA	15.6
EL1	582.5	EL2	292.9	ALF	35.08

LAUNCH DATE OCT 5 1965 FLIGHT TIME 92.00 ARRIVAL DATE JAN 5 1966

HELIOCENTRIC CONIC DISTANCE 205.684

RL	149.59	LAL	.00	LOL	11.55	VL	23.220	GAL	11.14	AZL	89.11	HCA	79.78	SMA	107.44	ECC	.43062	INC	.8911	V1	29.787
RP	107.64	LAP	.88	LOP	91.33	VP	35.080	GAP	-25.51	AZP	89.84	TAL	164.49	TAP	244.27	RCA	61.18	APO	153.71	V2	35.204
RC	48.537	GL	2.36	GP	-6.40	ZAL	54.60	ZAP	14.91	ETS	152.09	ZAE	149.09	ETE	197.56	ZAC	28.25	ETC	130.01	CLP	13.50

PLANETOCENTRIC CONIC

C3	73.993	VHL	8.602	DLA	-13.50	RAL	318.71	RAD	6569.4	VEL	13.977	PTH	2.55	VHP	15.476	DPA	-30.61	RAP	286.72	ECC	2.2177

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 27 23	2104.57	-16.76	34.63	199.13	113.17	10 2 28	1504.6	-13.48	27.49
90.00	17 54 25	5614.35	28.13	263.22	209.48	93.42	19 27 59	5014.3	28.30	254.56
100.00	10 41 39	1864.94	-18.27	16.32	198.43	114.08	11 12 44	1264.9	-14.86	9.19
100.00	19 22 50	5329.21	29.78	242.35	209.59	92.76	20 51 39	4729.2	29.84	233.55
110.00	11 34 1	1700.96	-22.24	1.88	196.42	116.65	12 2 22	1101.0	-18.49	354.76
110.00	20 46 57	5065.96	34.17	222.53	209.75	90.98	22 11 23	4466.0	33.93	213.30

DIFFERENTIAL CORRECTIONS

TDE	-.5699	TRA	-1.8055	TC3	-.1833	BAU	.1867
RDE	-.5967	RRA	.3785	RC3	-.0448	FAU	.01538
FDE	.4332	FRA	1.0163	FC3	-.1799	BSP	4062
BDE	.8251	BRA	1.8447	BC3	.1887	FSP	-174

MID-COURSE EXECUTION ACCURACY

SGT	1331.6	SGR	480.7	SG3	70.4		
RRT	-.2271	RRF	.2290	RTF	-.8047		
SGB	1415.7	R23	-.0212	R13	.8058		
SG1	1336.7	SG2	466.4	THA	174.66		

ORBIT DETERMINATION ACCURACY

ST	530.9	SR	405.0	SS	476.4
CRT	.5676	CRS	.6820	CST	.9882
LSA	763.1	MSA	300.5	SSA	15.8
EL1	598.7	EL2	295.7	ALF	32.11

LAUNCH DATE OCT 5 1965 FLIGHT TIME 94.00 ARRIVAL DATE JAN 7 1966

HELIOCENTRIC CONIC DISTANCE 212.306

RL	149.59	LAL	.00	LOL	11.55	VL	23.552	GAL	10.60	AZL	88.93	HCA	83.02	SMA	108.81	ECC	.41178	INC	1.0687	V1	29.787
RP	107.62	LAP	1.06	LOP	94.57	VP	35.309	GAP	-24.31	AZP	89.87	TAL	164.06	TAP	247.08	RCA	64.00	APO	153.62	V2	35.213
RC	47.108	GL	3.01	GP	-6.73	ZAL	54.00	ZAP	13.81	ETS	148.33	ZAE	150.50	ETE	200.42	ZAC	29.75	ETC	132.19	CLP	12.08

PLANETOCENTRIC CONIC

C3	67.582	VHL	8.221	DLA	-12.69	RAL	319.11	RAD	6569.3	VEL	13.745	PTH	2.51	VHP	14.822	DPA	-30.82	RAP	288.85	ECC	2.1122

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 22 2	2110.82	-16.92	35.02	198.19	113.05	9 57 13	1510.8	-13.66	27.86
90.00	18 2 59	5565.34	28.27	259.65	207.85	91.63	19 35 44	4965.3	28.20	250.98
100.00	10 36 50	1869.50	-18.40	16.60	197.52	113.99	11 7 59	1269.5	-15.00	9.46
100.00	19 30 52	5281.90	29.88	238.84	207.89	90.92	20 58 54	4681.9	29.69	230.04
110.00	11 30 19	1701.97	-22.27	1.94	195.56	116.63	11 58 41	1102.0	-18.52	354.82
110.00	20 53 52	5022.19	34.17	219.11	207.88	88.95	22 17 34	4422.2	33.65	209.91

DIFFERENTIAL CORRECTIONS

TDE	-.5760	TRA	-1.8137	TC3	-.1854	BAU	.1742												
RDE	-.5577	RRA	.3745	RC3	-.0530	FAU	.01583												
FDE	.4600	FRA	1.0557	FC3	-.2028	BSP	4214												
BDE	.8018	BRA	1.8520	BC3	.1928	FSP	-190												

MID-COURSE EXECUTION ACCURACY

SGT	1390.3	SGR	479.8	SG3	76.4						
RRT	-.2459	RRF	.2502	RTF	-.8164						
SGB	1470.8	R23	-.0252	R13	.8176						
SG1	1396.0	SG2	463.2	THA	174.55						

ORBIT DETERMINATION ACCURACY

ST	558.9	SR	396.9	SS	502.7						
CRT	.5629	CRS	.6831	CST	.9872						
LSA	795.5	MSA	299.3	SSA	15.9						
EL1	618.0	EL2	296.7	ALF	29.10						

LAUNCH DATE OCT 5 1965 FLIGHT TIME 96.00 ARRIVAL DATE JAN 9 1966

HELIOCENTRIC CONIC DISTANCE 218.965

RL	149.59	LAL	.00	LOL	11.55	VL	23.861	GAL	10.09	AZL	88.76	HCA	86.25	SMA	110.13	ECC	.39381	INC	1.2439	V1	29.787
RP	107.60	LAP	1.24	LOP	97.80	VP	35.523	GAP	-23.16	AZP	89.92	TAL	163.68	TAP	249.93	RCA	66.76	APO	153.51	V2	35.220
RC	45.785	GL	3.72	GP	-7.10	ZAL	53.48	ZAP	12.79	ETS	143.81	ZAE	151.96	ETE	203.80	ZAC	31.31	ETC	134.14	CLP	10.66

PLANETOCENTRIC CONIC

C3	61.780	VHL	7.860	DLA	-11.85	RAL	319.43	RAD	6569.2	VEL	13.533	PTH	2.47	VHP	14.191	DPA	-31.03	RAP	290.98	ECC	2.0167

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 16 10	2117.84	-17.11	35.45	197.18	112.91	9 51 28	1517.8	-13.86	28.28
90.00	18 11 26	5515.18	28.32	255.98	206.09	89.79	19 43 21	4915.2	27.99	247.33
100.00	10 31 29	1874.83	-18.54	16.93	196.53	113.87	11 2 44	1274.8	-15.16	9.77
100.00	19 38 48	5233.43	29.88	235.24	206.07	89.02	21 6 1	4633.4	29.42	226.46
110.00	11 26 7	1703.72	-22.33	2.05	194.63	116.58	11 54 31	1103.7	-18.58	354.92
110.00	21 0 39	4977.30	34.06	215.61	205.90	86.88	22 23 36	4377.3	33.25	206.46

DIFFERENTIAL CORRECTIONS

TDE	-.5795	TRA	-1.8185	TC3	-.1845	BAU	.1608												
RDE	-.5193	RRA	.3707	RC3	-.0624	FAU	.01635												
FDE	.4884	FRA	1.0969	FC3	-.2291	BSP	4428												
BDE	.7781	BRA	1.8559	BC3	.1947	FSP	-209												

MID-COURSE EXECUTION ACCURACY

SGT	1448.1	SGR	478.7	SG3	83.0						
RRT	-.2679	RRF	.2742	RTF	-.8280						
SGB	1525.2	R23	-.0287	R13	.8293						
SG1	1454.4	SG2	459.2	THA	174.38						

ORBIT DETERMINATION ACCURACY

ST	586.2	SR	387.5	SS	530.1						
CRT	.5559	CRS	.6830	CST	.9859						
LSA	828.3	MSA	297.3	SSA	16.1						
EL1	637.1	EL2	296.4	ALF	26.27						

LAUNCH DATE OCT 5 1965 FLIGHT TIME 98.00 ARRIVAL DATE JAN 11 1966

HELIOCENTRIC CONIC DISTANCE 225.656

RL	149.59	LAL	.00	LOL	11.55	VL	24.150	GAL	9.59	AZL	88.58	HCA	89.49	SMA	111.42	ECC	.37669	INC	1.4179	V1	29.787
RP	107.57	LAP	1.42	LOP	101.04	VP	35.725	GAP	-22.04	AZP	89.99	TAL	163.33	TAP	252.82	RCA	69.45	APO	153.39	V2	35.227
RC	44.580	GL	4.50	GP	-7.51	ZAL	53.02	ZAP	11.88	ETS	138.37	ZAE	153.44	ETE	207.80	ZAC	32.92	ETC	135.87	CLP	9.24

PLANETOCENTRIC CONIC

C3	56.535	VHL	7.519	DLA	-10.96	RAL	319.68	RAD	6569.0	VEL	13.338	PTH	2.44	VHP	13.581	DPA	-31.25	RAP	293.13	ECC	1.9304

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 9 45	2125.90	-17.32	35.94	196.10	112.76	9 45 11	1525.9	-14.09	28.76
90.00	18 19 48	5463.83	28.25	252.22	204.22	87.91	19 50 52	4863.8	27.66	243.61
100.00	10 25 36	1881.18	-18.72	17.32	195.47	113.74	10 56 57	1281.2	-15.35	10.15
100.00	19 46 38	5183.78	29.76	231.55	204.14	87.08	21 13 2	4583.8	29.04	222.82
110.00	11 21 25	1706.42	-22.41	2.21	193.62	116.51	11 49 51	1106.4	-18.67	355.08
110.00	21 7 19	4931.30	33.83	212.04	203.80	84.78	22 29 30	4331.3	32.74	202.97

DIFFERENTIAL CORRECTIONS

TDE	-.5826	TRA	-1.8221	TC3	-.1814	BAU	.1478												
RDE	-.4813	RRA	.3674	RC3	-.0731	FAU	.01693												
FDE	.5189	FRA	1.1404	FC3	-.2592	BSP	4644												
BDE	.7557	BRA	1.8588	BC3	.1956	FSP	-230												

MID-COURSE EXECUTION ACCURACY

SGT	1507.2	SGR	477.4	SG3	90.3						
RRT	-.2925	RRF	.3011	RTF	-.8388						
SGB	1581.0	R23	-.0327	R13	.8402						
SG1	1514.3	SG2	454.4	THA	174.18						

ORBIT DETERMINATION ACCURACY

ST	614.1	SR	376.6	SS	559.1						
CRT	.5472	CRS	.6814	CST	.9846						
LSA	862.9	MSA	294.6	SSA	16.2						
EL1	657.5	EL2	294.5	ALF	23.55						

LAUNCH DATE OCT 5 1965 FLIGHT TIME 100.00 ARRIVAL DATE JAN 13 1966

HELIOCENTRIC CONIC DISTANCE 232.374

RL	149.59	LAL	.00	LOL	11.55	VL	24.420	GAL	9.12	AZL	88.41	HCA	92.73	SMA	112.65	ECC	.36042	INC	1.5918	V1	29.787
RP	107.55	LAP	1.59	LOP	104.28	VP	35.914	GAP	-20.97	AZP	90.08	TAL	163.03	TAP	255.76	RCA	72.05	APO	153.26	V2	35.234
RC	43.503	GL	5.34	GP	-7.96	ZAL	52.63	ZAP	11.13	ETS	131.91	ZAE	154.88	ETE	212.53	ZAC	34.58	ETC	137.40	CLP	7.81

PLANETOCENTRIC CONIC

C3	51.800	VHL	7.197	DLA	-10.02	RAL	319.84	RAD	6568.9	VEL	13.159	PTH	2.40	VHP	12.992	DPA	-31.49	RAP	295.27	ECC	1.8525

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 2 45	2135.26	-17.57	36.52	194.97	112.57	9 38 20	1535.3	-14.36	29.32
90.00	18 28 7	5411.25	28.06	248.39	202.25	86.00	19 58 18	4811.3	27.21	239.83
100.00	10 19 9	1888.81	-18.93	17.79	194.36	113.58	10 50 37	1288.8	-15.58	10.60
100.00	19 54 25	5132.93	29.53	227.79	202.12	85.12	21 19 58	4532.9	28.54	219.13
110.00	11 16 8	1710.33	-22.53	2.45	192.56	116.42	11 44 39	1110.3	-18.80	355.31
110.00	21 13 54	4884.17	33.48	208.40	201.62	82.66	22 35 19	4284.2	32.10	199.44

DIFFERENTIAL CORRECTIONS

TDE	-.5858	TRA	-1.8244	TC3	-.1758	BAU	.1353												
RDE	-.4438	RRA	.3646	RC3	-.0853	FAU	.01757												
FDE	.5521	FRA	1.1863	FC3	-.2936	BSP	4870												
BDE	.7349	BRA	1.8605	BC3	.1954	FSP	-253												

MID-COURSE EXECUTION ACCURACY

SGT	1567.4	SGR	476.2	SG3	98.2						
RRT	-.3200	RRF	.3313	RTF	-.8491						
SGB	1638.1	R23	-.0372	R13	.8506						
SG1	1575.4	SG2	448.9	THA	173.95						

ORBIT DETERMINATION ACCURACY

ST	642.9	SR	364.2	SS	589.8						
CRT	.5367	CRS	.6782	CST	.9833						
LSA	899.4	MSA	291.0	SSA	16.3						
EL1	679.2	EL2	290.9	ALF	20.92						

LAUNCH DATE OCT 5 1965 FLIGHT TIME 102.00 ARRIVAL DATE JAN 15 1966

HELIOCENTRIC CONIC DISTANCE 239.116

RL	149.59	LAL	.00	LOL	11.55	VL	24.671	GAL	8.66	AZL	88.23	HCA	95.97	SMA	113.85	ECC	.34499	INC	1.7667	V1	29.787
RP	107.54	LAP	1.76	LOP	107.52	VP	36.091	GAP	-19.94	AZP	90.18	TAL	162.78	TAP	258.75	RCA	74.57	APO	153.12	V2	35.239
RC	42.563	GL	6.26	GP	-8.46	ZAL	52.33	ZAP	10.57	ETS	124.41	ZAE	156.23	ETE	218.10	ZAC	36.27	ETC	138.75	CLP	6.36

PLANETOCENTRIC CONIC

C3	47.534	VHL	6.894	DLA	-9.02	RAL	319.93	RAD	6568.8	VEL	12.996	PTH	2.37	VHP	12.424	DPA	-31.76	RAP	297.43	ECC	1.7823

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 55 7	2146.22	-17.85	37.20	193.78	112.35	9 30 53	1546.2	-14.67	29.97
90.00	18 36 25	5357.41	27.74	244.48	200.20	84.06	20 5 42	4757.4	26.63	235.99
100.00	10 12 3	1898.00	-19.18	18.36	193.19	113.38	10 43 42	1298.0	-15.85	11.15
100.00	20 2 10	5080.85	29.16	223.96	200.02	83.14	21 26 50	4480.9	27.91	215.38
110.00	11 10 16	1715.72	-22.69	2.79	191.45	116.28	11 38 52	1115.7	-18.97	355.62
110.00	21 20 26	4835.90	33.00	204.72	199.37	80.53	22 41 2	4235.9	31.34	195.89

DIFFERENTIAL CORRECTIONS								MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TDE	-.5893	TRA	-1.8256	TC3	-.1675	BAU	.1237	SGT	1628.8	SGR	475.4	SG3	106.9	ST	672.5	SR	350.1	SS	622.8
RDE	-.4066	RRA	.3626	RC3	-.0992	FAU	.01827	RRT	-.3509	RRF	.3651	RTF	-.8588	CRT	.5238	CRS	.6727	CST	.9819
FDE	.5884	FRA	1.2353	FC3	-.3327	BSP	5093	SGB	1696.7	R23	-.0424	R13	.8605	LSA	938.2	MSA	286.5	SSA	16.4
BDE	.7159	BRA	1.8613	BC3	.1946	FSP	-278	SG1	1638.0	SG2	442.6	THA	173.69	EL1	702.3	EL2	285.6	ALF	18.40

LAUNCH DATE OCT 5 1965 FLIGHT TIME 104.00 ARRIVAL DATE JAN 17 1966

HELIOCENTRIC CONIC DISTANCE 245.877

RL	149.59	LAL	.00	LOL	11.55	VL	24.905	GAL	8.23	AZL	88.06	HCA	99.21	SMA	114.99	ECC	.33038	INC	1.9437	V1	29.787
RP	107.52	LAP	1.92	LOP	110.76	VP	36.256	GAP	-18.94	AZP	90.31	TAL	162.57	TAP	261.77	RCA	77.00	APO	152.98	V2	35.244
RC	41.769	GL	7.27	GP	-9.02	ZAL	52.10	ZAP	10.26	ETS	116.01	ZAE	157.39	ETE	224.60	ZAC	38.01	ETC	139.94	CLP	4.90

PLANETOCENTRIC CONIC

C3	43.697	VHL	6.610	DLA	-7.97	RAL	319.93	RAD	6568.7	VEL	12.848	PTH	2.34	VHP	11.877	DPA	-32.05	RAP	299.58	ECC	1.7191

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 46 48	2159.10	-18.18	38.00	192.55	112.09	9 22 47	1559.1	-15.03	30.74
90.00	18 44 44	5302.26	27.29	240.51	198.08	82.12	20 13 6	4702.3	25.91	232.11
100.00	10 4 18	1909.08	-19.47	19.05	191.98	113.14	10 36 7	1309.1	-16.17	11.81
100.00	20 9 55	5027.50	28.67	220.07	197.85	81.15	21 33 42	4427.5	27.15	211.60
110.00	11 3 47	1722.87	-22.91	3.23	190.29	116.10	11 32 29	1122.9	-19.21	356.04
110.00	21 26 56	4786.48	32.38	200.99	197.07	78.40	22 46 42	4186.5	30.45	192.31

DIFFERENTIAL CORRECTIONS								MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TDE	-.5933	TRA	-1.8255	TC3	-.1562	BAU	.1133	SGT	1691.1	SGR	475.2	SG3	116.4	ST	703.0	SR	334.0	SS	658.1
RDE	-.3695	RRA	.3616	RC3	-.1149	FAU	.01903	RRT	-.3853	RRF	.4029	RTF	-.8680	CRT	.5076	CRS	.6642	CST	.9806
FDE	.6285	FRA	1.2874	FC3	-.3771	BSP	5319	SGB	1756.6	R23	-.0484	R13	.8698	LSA	979.5	MSA	281.3	SSA	16.4
BDE	.6990	BRA	1.8609	BC3	.1940	FSP	-306	SG1	1701.6	SG2	435.8	THA	173.38	EL1	726.9	EL2	278.4	ALF	15.96

LAUNCH DATE OCT 5 1965 FLIGHT TIME 106.00 ARRIVAL DATE JAN 19 1966

HELIOCENTRIC CONIC DISTANCE 252.653

RL	149.59	LAL	.00	LOL	11.55	VL	25.122	GAL	7.81	AZL	87.88	HCA	102.45	SMA	116.08	ECC	.31657	INC	2.1241	V1	29.787
RP	107.51	LAP	2.07	LOP	114.01	VP	36.410	GAP	-17.98	AZP	90.46	TAL	162.40	TAP	264.85	RCA	79.34	APO	152.83	V2	35.249
RC	41.131	GL	8.36	GP	-9.64	ZAL	51.95	ZAP	10.23	ETS	107.07	ZAE	158.27	ETE	232.01	ZAC	39.78	ETC	140.97	CLP	3.43

PLANETOCENTRIC CONIC

C3	40.255	VHL	6.345	DLA	-6.84	RAL	319.84	RAD	6568.5	VEL	12.713	PTH	2.31	VHP	11.350	DPA	-32.38	RAP	301.74	ECC	1.6625

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 37 45	2174.25	-18.57	38.94	191.28	111.77	9 14 0	1574.2	-15.45	31.65
90.00	18 53 6	5245.73	26.69	236.48	195.91	80.19	20 20 32	4645.7	25.07	228.19
100.00	9 55 50	1922.38	-19.83	19.88	190.74	112.84	10 27 52	1322.4	-16.56	12.61
100.00	20 17 43	4972.84	28.03	216.13	195.64	79.17	21 40 36	4372.8	26.25	207.79
110.00	10 56 36	1732.09	-23.18	3.81	189.11	115.86	11 25 28	1132.1	-19.51	356.59
110.00	21 33 26	4735.88	31.63	197.24	194.74	76.30	22 52 22	4135.9	29.42	188.73

DIFFERENTIAL CORRECTIONS								MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TDE	-.5980	TRA	-1.8243	TC3	-.1417	BAU	.1045	SGT	1754.2	SGR	476.2	SG3	126.9	ST	734.5	SR	316.0	SS	695.9
RDE	-.3323	RRA	.3620	RC3	-.1327	FAU	.01987	RRT	-.4237	RRF	.4450	RTF	-.8766	CRT	.4866	CRS	.6513	CST	.9792
FDE	.6727	FRA	1.3432	FC3	-.4273	BSP	5545	SGB	1817.7	R23	-.0553	R13	.8786	LSA	1023.5	MSA	275.3	SSA	16.5
BDE	.6841	BRA	1.8599	BC3	.1941	FSP	-337	SG1	1766.5	SG2	428.4	THA	173.03	EL1	752.8	EL2	269.3	ALF	13.60

LAUNCH DATE OCT 5 1965 FLIGHT TIME 108.00 ARRIVAL DATE JAN 21 1966

HELIOCENTRIC CONIC DISTANCE 259.441

RL	149.59	LAL	.00	LOL	11.55	VL	25.325	GAL	7.41	AZL	87.69	HCA	105.69	SMA	117.13	ECC	.30355	INC	2.3090	V1	29.787
RP	107.50	LAP	2.22	LOP	117.25	VP	36.553	GAP	-17.05	AZP	90.63	TAL	162.27	TAP	267.96	RCA	81.58	APO	152.68	V2	35.252
RC	40.657	GL	9.55	GP	-10.34	ZAL	51.89	ZAP	10.51	ETS	98.10	ZAE	158.78	ETE	240.17	ZAC	41.58	ETC	141.86	CLP	1.93

PLANETOCENTRIC CONIC

C3	37.179	VHL	6.097	DLA	-5.65	RAL	319.67	RAD	6568.4	VEL	12.592	PTH	2.28	VHP	10.842	DPA	-32.76	RAP	303.90	ECC	1.6119

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 27 55	2192.03	-19.01	40.06	190.01	111.39	9 4 27	1592.0	-15.94	32.73
90.00	19 1 35	5187.77	25.96	232.40	193.71	78.27	20 28 3	4587.8	24.08	224.23
100.00	9 46 35	1938.24	-20.24	20.87	189.48	112.48	10 18 53	1338.2	-17.02	13.56
100.00	20 25 36	4916.79	27.25	212.15	193.40	77.21	21 47 33	4316.8	25.22	203.34
110.00	10 48 43	1743.73	-23.52	4.54	187.91	115.55	11 17 47	1143.7	-19.89	357.28
110.00	21 39 58	4684.07	30.73	193.47	192.39	74.24	22 58 2	4084.1	28.26	185.14

DIFFERENTIAL CORRECTIONS								MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TDE	-.6033	TRA	-1.8211	TC3	-.1228	BAU	.0974	SGT	1816.8	SGR	479.0	SG3	138.3	ST	766.5	SR	295.7	SS	736.8
RDE	-.2949	RRA	.3638	RC3	-.1527	FAU	.02079	RRT	-.4663	RRF	.4914	RTF	-.8848	CRT	.4586	CRS	.6320	CST	.9779
FDE	.7222	FRA	1.4026	FC3	-.4842	BSP	5771	SGB	1878.9	R23	-.0627	R13	.8871	LSA	1070.2	MSA	268.7	SSA	16.5
BDE	.6715	BRA	1.8571	BC3	.1959	FSP	-371	SG1	1831.2	SG2	420.4	THA	172.60	EL1	779.9	EL2	258.3	ALF	11.29

LAUNCH DATE OCT 5 1965 FLIGHT TIME 110.00 ARRIVAL DATE JAN 23 1966

DISTANCE 266.236

HELIOCENTRIC CONIC

RL	149.59	LAL	.00	LOL	11.55	VL	25.513	GAL	7.03	AZL	87.50	HCA	108.93	SMA	118.13	ECC	.29128	INC	2.5000	V1	29.787
RP	107.49	LAP	2.36	LOP	120.50	VP	36.686	GAP	-16.15	AZP	90.81	TAL	162.19	TAP	271.13	RCA	83.72	APO	152.53	V2	35.255
RC	40.351	GL	10.85	GP	-11.12	ZAL	51.93	ZAP	11.12	ETS	89.65	ZAE	158.82	ETE	248.76	ZAC	43.42	ETC	142.62	CLP	.41

PLANETOCENTRIC CONIC

C3 34.440 VHL 5.869 DLA -4.37 RAL 319.42 RAD 6568.4 VEL 12.482 PTH 2.26 VHP 10.355 DPA -33.20 RAP 306.06 ECC 1.5668

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 17 13	2212.86	-19.53	41.37	188.73	110.92	8 54 6	1612.9	-16.51	34.00
90.00	19 10 14	5128.28	25.07	228.27	191.50	76.38	20 35 42	4528.3	22.95	220.24
100.00	9 36 30	1957.07	-20.73	22.06	188.22	112.03	10 9 7	1357.1	-17.56	14.70
100.00	20 33 38	4859.31	26.32	208.13	191.15	75.29	21 54 37	4259.3	24.04	200.08
110.00	10 40 3	1758.14	-23.94	5.44	186.70	115.16	11 9 21	1158.1	-20.35	358.14
110.00	21 46 34	4631.01	29.69	189.69	190.04	72.22	23 3 45	4031.0	26.97	181.56

DIFFERENTIAL CORRECTIONS

TDE	-.6094	TRA	-1.8165	TC3	-.1002	BAU	.0929
RDE	-.2569	RRA	.3676	RC3	-.1751	FAU	.02179
FDE	.7775	FRA	1.4662	FC3	-.5478	BSP	6020
BDE	.6613	BRA	1.8533	BC3	.2017	FSP	-408

MID-COURSE EXECUTION ACCURACY

SGT	1879.2	SGR	484.4	SG3	150.9		
RRT	-.5128	RRF	.5419	RTF	-.8925		
SGB	1940.6	R23	-.0711	R13	.8951		
SG1	1896.4	SG2	412.1	THA	172.09		

ORBIT DETERMINATION ACCURACY

ST	799.2	SR	273.1	SS	781.0
CRT	.4197	CRS	.6029	CST	.9766
LSA	1120.1	MSA	261.6	SSA	16.5
EL1	808.2	EL2	245.1	ALF	9.00

LAUNCH DATE OCT 5 1965 FLIGHT TIME 112.00 ARRIVAL DATE JAN 25 1966

DISTANCE 273.036

HELIOCENTRIC CONIC

RL	149.59	LAL	.00	LOL	11.55	VL	25.687	GAL	6.66	AZL	87.30	HCA	112.17	SMA	119.07	ECC	.27976	INC	2.6986	V1	29.787
RP	107.48	LAP	2.50	LOP	123.75	VP	36.810	GAP	-15.28	AZP	91.02	TAL	162.16	TAP	274.33	RCA	85.76	APO	152.38	V2	35.257
RC	40.219	GL	12.26	GP	-12.00	ZAL	52.06	ZAP	12.05	ETS	82.13	ZAE	158.37	ETE	257.31	ZAC	45.29	ETC	143.25	CLP	-1.14

PLANETOCENTRIC CONIC

C3 32.015 VHL 5.658 DLA -3.00 RAL 319.07 RAD 6568.3 VEL 12.385 PTH 2.24 VHP 9.888 DPA -33.72 RAP 308.23 ECC 1.5269

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 5 35	2237.17	-20.11	42.92	187.45	110.37	8 42 52	1637.2	-17.16	35.49
90.00	19 19 7	5067.17	24.02	224.09	189.30	74.54	20 43 34	4467.2	21.67	216.21
100.00	9 25 31	1979.28	-21.29	23.47	186.97	111.49	9 58 31	1379.3	-18.18	16.06
100.00	20 41 51	4800.29	25.24	204.08	188.92	73.42	22 1 51	4200.3	22.72	196.19
110.00	10 30 34	1775.69	-24.45	6.56	185.51	114.67	11 0 9	1175.7	-20.91	359.19
110.00	21 53 18	4576.64	28.50	185.91	187.72	70.27	23 9 35	3976.6	25.54	177.98

DIFFERENTIAL CORRECTIONS

TDE	-.6185	TRA	-1.8122	TC3	-.0749	BAU	.0915
RDE	-.2178	RRA	.3737	RC3	-.2002	FAU	.02288
FDE	.8400	FRA	1.5347	FC3	-.6186	BSP	6242
BDE	.6557	BRA	1.8504	BC3	.2137	FSP	-450

MID-COURSE EXECUTION ACCURACY

SGT	1943.2	SGR	493.5	SG3	164.7		
RRT	-.5620	RRF	.5958	RTF	-.8996		
SGB	2004.9	R23	-.0815	R13	.9025		
SG1	1963.8	SG2	403.9	THA	171.51		

ORBIT DETERMINATION ACCURACY

ST	834.3	SR	248.2	SS	829.2
CRT	.3645	CRS	.5579	CST	.9756
LSA	1174.9	MSA	254.0	SSA	16.5
EL1	839.6	EL2	229.7	ALF	6.69

LAUNCH DATE OCT 5 1965 FLIGHT TIME 114.00 ARRIVAL DATE JAN 27 1966

DISTANCE 279.838

HELIOCENTRIC CONIC

RL	149.59	LAL	.00	LOL	11.55	VL	25.849	GAL	6.32	AZL	87.09	HCA	115.42	SMA	119.97	ECC	.26896	INC	2.9066	V1	29.787
RP	107.48	LAP	2.62	LOP	127.00	VP	36.924	GAP	-14.44	AZP	91.25	TAL	162.16	TAP	277.58	RCA	87.70	APO	152.23	V2	35.259
RC	40.263	GL	13.79	GP	-12.99	ZAL	52.30	ZAP	13.26	ETS	75.71	ZAE	157.41	ETE	265.33	ZAC	47.19	ETC	143.77	CLP	-2.72

PLANETOCENTRIC CONIC

C3 29.884 VHL 5.467 DLA -1.53 RAL 318.63 RAD 6568.2 VEL 12.299 PTH 2.22 VHP 9.442 DPA -34.33 RAP 310.41 ECC 1.4918

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 52 56	2265.42	-20.77	44.73	186.21	109.69	8 30 41	1665.4	-17.90	37.23
90.00	19 28 17	5004.30	22.82	219.88	187.12	72.76	20 51 41	4404.3	20.24	212.15
100.00	9 13 34	2005.32	-21.93	25.14	185.75	110.84	9 46 59	1405.3	-18.90	17.66
100.00	20 50 20	4739.63	23.99	200.01	186.71	71.62	22 9 20	4139.6	21.26	192.28
110.00	10 20 11	1796.81	-25.04	7.91	184.35	114.07	10 50 7	1196.8	-21.58	.48
110.00	22 0 13	4520.91	27.16	182.13	185.44	68.40	23 15 34	3920.9	23.98	174.40

DIFFERENTIAL CORRECTIONS

TDE	-.6262	TRA	-1.8032	TC3	-.0416	BAU	.0927
RDE	-.1774	RRA	.3824	RC3	-.2283	FAU	.02409
FDE	.9096	FRA	1.6066	FC3	-.6979	BSP	6530
BDE	.6508	BRA	1.8433	BC3	.2321	FSP	-497

MID-COURSE EXECUTION ACCURACY

SGT	2001.8	SGR	507.6	SG3	179.8		
RRT	-.6147	RRF	.6521	RTF	-.9066		
SGB	2065.1	R23	-.0914	R13	.9099		
SG1	2026.9	SG2	395.4	THA	170.79		

ORBIT DETERMINATION ACCURACY

ST	867.4	SR	221.6	SS	880.4
CRT	.2800	CRS	.4864	CST	.9745
LSA	1231.1	MSA	246.5	SSA	16.3
EL1	869.8	EL2	212.1	ALF	4.35

LAUNCH DATE OCT 5 1965 FLIGHT TIME 116.00 ARRIVAL DATE JAN 29 1966

DISTANCE 286.638

HELIOCENTRIC CONIC

RL	149.59	LAL	.00	LOL	11.55	VL	25.998	GAL	5.99	AZL	86.87	HCA	118.66	SMA	120.82	ECC	.25885	INC	3.1260	V1	29.787
RP	107.48	LAP	2.74	LOP	130.24	VP	37.029	GAP	-13.62	AZP	91.50	TAL	162.21	TAP	280.87	RCA	89.54	APO	152.09	V2	35.259
RC	40.482	GL	15.45	GP	-14.11	ZAL	52.65	ZAP	14.75	ETS	70.43	ZAE	156.00	ETE	272.48	ZAC	49.13	ETC	144.16	CLP	-4.34

PLANETOCENTRIC CONIC

C3 28.029 VHL 5.294 DLA .04 RAL 318.11 RAD 6568.1 VEL 12.223 PTH 2.20 VHP 9.016 DPA -35.05 RAP 312.60 ECC 1.4613

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 39 11	2298.15	-21.50	46.85	185.02	108.88	8 17 29	1698.1	-18.73	39.27
90.00	19 37 51	4939.54	21.45	215.63	185.00	71.05	21 0 10	4339.5	18.66	208.06
100.00	9 0 32	2035.70	-22.65	27.11	184.58	110.04	9 34 28	1435.7	-19.72	19.54
100.00	20 59 10	4677.21	22.59	195.90	184.56	69.89	22 17 7	4077.2	19.65	188.34
110.00	10 8 50	1821.94	-25.73	9.54	183.24	113.32	10 39 12	1221.9	-22.35	2.02
110.00	22 7 22	4463.74	25.67	178.35	183.21	66.61	23 21 46	3863.7	22.28	170.83

DIFFERENTIAL CORRECTIONS

TDE	-.6392	TRA	-1.7958	TC3	-.0082	BAU	.0972
RDE	-.1346	RRA	.3946	RC3	-.2593	FAU	.02534
FDE	.9902	FRA	1.6848	FC3	-.7828	BSP	6752
BDE	.6532	BRA	1.8386	BC3	.2594	FSP	-547

MID-COURSE EXECUTION ACCURACY

SGT	2062.9	SGR	528.1	SG3	196.3		
RRT	-.6671	RRF	.7086	RTF	-.9129		
SGB	2129.5	R23	-.1038	R13	.9168		
SG1	2093.9	SG2	387.6	THA	169.96		

ORBIT DETERMINATION ACCURACY

ST	904.7	SR	194.1	SS	937.5
CRT	.1483	CRS	.3671	CST	.9738
LSA	1295.3	MSA	238.6	SSA	16.1
EL1	905.2	EL2	191.9	ALF	1.91

LAUNCH DATE OCT 5 1965 FLIGHT TIME 118.00 ARRIVAL DATE JAN 31 1966

HELIOCENTRIC CONIC DISTANCE 293.433

RL	149.59	LAL	.00	LOL	11.55	VL	26.136	GAL	5.68	AZL	86.64	HCA	121.90	SMA	121.61	ECC	.24941	INC	3.3596	VI	29.787
RP	107.48	LAP	2.85	LOP	133.49	VP	37.126	GAP	-12.84	AZP	91.78	TAL	162.29	TAP	284.19	RCA	91.28	APO	151.95	V2	35.259
RC	40.875	GL	17.24	GP	-15.39	ZAL	53.11	ZAP	16.49	ETS	66.17	ZAE	154.20	ETE	278.55	ZAC	51.12	ETC	144.44	CLP	-6.00

PLANETOCENTRIC CONIC

C3	26.438	VHL	5.142	DLA	1.73	RAL	317.49	RAD	6568.1	VEL	12.158	PTH	2.18	VHP	8.613	DPA	-35.90	RAP	314.82	ECC	1.4351

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 24 12	2335.94	-22.32	49.32	183.90	107.90	8 3 8	1735.9	-19.66	41.65
90.00	19 47 53	4872.68	19.91	211.33	182.94	69.44	21 9 6	4272.7	16.93	203.92
100.00	8 46 21	2070.96	-23.46	29.42	183.48	109.08	9 20 52	1471.0	-20.64	21.76
100.00	21 8 26	4612.88	21.03	191.76	182.47	68.25	22 25 19	4012.9	17.89	184.37
110.00	9 56 27	1851.57	-26.51	11.49	182.21	112.41	10 27 18	1251.6	-23.24	3.86
110.00	22 14 50	4405.04	24.03	174.58	181.07	64.92	23 28 15	3805.0	20.45	167.27

DIFFERENTIAL CORRECTIONS

TDE	-.6552	TRA	-1.7875	TC3	.0282	BAU	.1042
RDE	-.0886	RRA	.4108	RC3	-.2934	FAU	.02667
FDE	1.0822	FRA	1.7681	FC3	-.8734	BSP	6974
BDE	.6611	BRA	1.8341	BC3	.2947	FSP	-601

MID-COURSE EXECUTION ACCURACY

SGT	2122.5	SGR	557.2	SG3	214.2		
RRT	-.7181	RRF	.7634	RTF	-.9187		
SGB	2194.4	R23	-.1174	R13	.9233		
SG1	2161.1	SG2	380.9	THA	168.98		

ORBIT DETERMINATION ACCURACY

ST	943.6	SR	169.4	SS	999.6		
CRT	-.0630	CRS	.1650	CST	.9734		
LSA	1365.6	MSA	231.0	SSA	15.8		
EL1	943.7	EL2	169.1	ALF	179.33		

LAUNCH DATE OCT 5 1965 FLIGHT TIME 120.00 ARRIVAL DATE FEB 2 1966

HELIOCENTRIC CONIC DISTANCE 300.223

RL	149.59	LAL	.00	LOL	11.55	VL	26.264	GAL	5.39	AZL	86.39	HCA	125.14	SMA	122.36	ECC	.24063	INC	3.6101	VI	29.787
RP	107.48	LAP	2.95	LOP	136.75	VP	37.215	GAP	-12.07	AZP	92.08	TAL	162.41	TAP	287.55	RCA	92.92	APO	151.81	V2	35.258
RC	41.437	GL	19.19	GP	-16.84	ZAL	53.70	ZAP	18.47	ETS	62.80	ZAE	152.09	ETE	283.53	ZAC	53.16	ETC	144.61	CLP	-7.70

PLANETOCENTRIC CONIC

C3	25.100	VHL	5.010	DLA	3.54	RAL	316.78	RAD	6568.0	VEL	12.103	PTH	2.17	VHP	8.232	DPA	-36.91	RAP	317.07	ECC	1.4131

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 7 52	2379.45	-23.20	52.20	182.87	106.71	7 47 31	1779.5	-20.69	44.43
90.00	19 58 33	4803.51	18.19	206.98	180.97	67.92	21 18 37	4203.5	15.04	199.72
100.00	8 30 52	2111.74	-24.34	32.13	182.48	107.92	9 6 4	1511.7	-21.66	24.35
100.00	21 18 15	4546.45	19.29	187.59	180.48	66.72	22 34 1	3946.5	15.98	180.36
110.00	9 42 55	1886.25	-27.39	13.80	181.27	111.30	10 14 21	1286.2	-24.25	6.04
110.00	22 22 41	4344.71	22.23	170.81	179.02	63.34	23 35 6	3744.7	18.48	163.69

DIFFERENTIAL CORRECTIONS

TDE	-.6747	TRA	-1.7780	TC3	.0661	BAU	.1131
RDE	-.0382	RRA	.4317	RC3	-.3305	FAU	.02804
FDE	1.1877	FRA	1.8560	FC3	-.9673	BSP	7196
BDE	.6758	BRA	1.8297	BC3	.3371	FSP	-660

MID-COURSE EXECUTION ACCURACY

SGT	2179.5	SGR	596.9	SG3	233.5		
RRT	-.7656	RRF	.8142	RTF	-.9242		
SGB	2259.7	R23	-.1319	R13	.9296		
SG1	2228.3	SG2	375.6	THA	167.81		

ORBIT DETERMINATION ACCURACY

ST	984.3	SR	155.0	SS	1067.5		
CRT	-.3736	CRS	-.1531	CST	.9733		
LSA	1443.0	MSA	223.9	SSA	15.4		
EL1	986.1	EL2	143.5	ALF	176.56		

LAUNCH DATE OCT 5 1965 FLIGHT TIME 122.00 ARRIVAL DATE FEB 4 1966

HELIOCENTRIC CONIC DISTANCE 307.003

RL	149.59	LAL	.00	LOL	11.55	VL	26.381	GAL	5.12	AZL	86.12	HCA	128.38	SMA	123.06	ECC	.23246	INC	3.8815	VI	29.787
RP	107.49	LAP	3.04	LOP	140.00	VP	37.297	GAP	-11.34	AZP	92.41	TAL	162.56	TAP	290.94	RCA	94.46	APO	151.67	V2	35.256
RC	42.162	GL	21.28	GP	-18.51	ZAL	54.42	ZAP	20.71	ETS	60.18	ZAE	149.72	ETE	287.46	ZAC	55.26	ETC	144.67	CLP	-9.46

PLANETOCENTRIC CONIC

C3	24.013	VHL	4.900	DLA	5.49	RAL	315.98	RAD	6568.0	VEL	12.058	PTH	2.16	VHP	7.877	DPA	-38.11	RAP	319.38	ECC	1.3952

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 50 0	2429.48	-24.14	55.57	181.97	105.27	7 30 30	1829.5	-21.81	47.67
90.00	20 10 0	4731.72	16.30	202.56	179.12	66.52	21 28 52	4131.7	12.99	195.45
100.00	8 13 56	2158.75	-25.28	35.30	181.61	106.50	8 49 55	1558.8	-22.78	27.40
100.00	21 28 45	4477.68	17.39	183.37	178.61	65.30	22 43 22	3877.7	13.91	176.30
110.00	9 28 7	1926.58	-28.36	16.54	180.47	109.94	10 0 14	1326.6	-25.38	8.63
110.00	22 31 3	4282.62	20.29	167.04	177.09	61.88	23 42 26	3682.6	16.37	160.11

DIFFERENTIAL CORRECTIONS

TDE	-.6979	TRA	-1.7673	TC3	.1060	BAU	.1238
RDE	.0180	RRA	.4584	RC3	-.3708	FAU	.02947
FDE	1.3080	FRA	1.9477	FC3	-1.0625	BSP	7421
BDE	.6981	BRA	1.8257	BC3	.3857	FSP	-723

MID-COURSE EXECUTION ACCURACY

SGT	2232.9	SGR	649.9	SG3	254.2		
RRT	-.8080	RRF	.8589	RTF	-.9293		
SGB	2325.5	R23	-.1468	R13	.9358		
SG1	2295.5	SG2	372.5	THA	166.40		

ORBIT DETERMINATION ACCURACY

ST	1026.5	SR	163.3	SS	1141.0		
CRT	-.7031	CRS	-.5240	CST	.9735		
LSA	1527.9	MSA	217.5	SSA	14.9		
EL1	1033.0	EL2	115.4	ALF	173.54		

LAUNCH DATE OCT 5 1965 FLIGHT TIME 124.00 ARRIVAL DATE FEB 6 1966

HELIOCENTRIC CONIC DISTANCE 313.772

RL	149.59	LAL	.00	LOL	11.55	VL	26.489	GAL	4.86	AZL	85.82	HCA	131.62	SMA	123.72	ECC	.22490	INC	4.1783	VI	29.787
RP	107.49	LAP	3.12	LOP	143.25	VP	37.371	GAP	-10.62	AZP	92.78	TAL	162.73	TAP	294.36	RCA	95.90	APO	151.55	V2	35.254
RC	43.042	GL	23.54	GP	-20.42	ZAL	55.28	ZAP	23.21	ETS	58.18	ZAE	147.15	ETE	290.46	ZAC	57.43	ETC	144.62	CLP	-11.27

PLANETOCENTRIC CONIC

C3	23.178	VHL	4.814	DLA	7.58	RAL	315.07	RAD	6567.9	VEL	12.023	PTH	2.15	VHP	7.548	DPA	-39.53	RAP	321.77	ECC	1.3815

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 30 23	2486.95	-25.11	59.50	181.22	103.54	7 11 50	1887.0	-23.00	51.46
90.00	20 22 25	4656.94	14.22	198.05	177.42	65.25	21 40 2	4056.9	10.77	191.08
100.00	7 55 22	2212.85	-26.28	39.01	180.89	104.79	8 32 15	1612.9	-23.99	30.96
100.00	21 40 7	4406.27	15.31	179.09	176.88	64.01	22 53 33	3806.3	11.69	172.17
110.00	9 11 56	1973.27	-29.40	19.77	179.84	108.28	9 44 49	1373.3	-26.62	11.69
110.00	22 40 3	4218.62	18.19	163.27	175.30	60.55	23 50 22	3618.6	14.13	156.51

DIFFERENTIAL CORRECTIONS

TDE	-.7267	TRA	-1.7561	TC3	.1442	BAU	.1357
RDE	.0824	RRA	.4919	RC3	-.4135	FAU	.03086
FDE	1.4463	FRA	2.0423	FC3	-1.1525	BSP	7639
BDE	.7314	BRA	1.8237	BC3	.4380	FSP	-790

MID-COURSE EXECUTION ACCURACY

SGT	2283.0	SGR	719.0	SG3	276.0		
RRT	-.8439	RRF	.8963	RTF	-.9340		
SGB	2393.6	R23	-.1612	R13	.9418		
SG1	2364.4	SG2	372.5	THA	164.73		

ORBIT DETERMINATION ACCURACY

ST	1071.5	SR	202.9	SS	1220.9		
CRT	-.9061	CRS	-.7888	CST	.9741		
LSA	1623.1	MSA	212.1	SSA	14.2		
EL1	1087.2	EL2	84.6	ALF	170.21		

LAUNCH DATE OCT 5 1965 FLIGHT TIME 126.00 ARRIVAL DATE FEB 8 1966

HELIOCENTRIC CONIC DISTANCE 320.527

RL 149.59 LAL .00 LOL 11.55 VL 26.589 GAL 4.62 AZL 85.49 HCA 134.86 SMA 124.33 ECC .21792 INC 4.5065 V1 29.787
RP 107.50 LAP 3.19 LOP 146.50 VP 37.438 GAP -9.93 AZP 93.18 TAL 162.94 TAP 297.79 RCA 97.24 APO 151.42 V2 35.250
RC 44.068 GL 25.98 GP -22.62 ZAL 56.29 ZAP 25.99 ETS 56.69 ZAE 144.39 ETE 292.62 ZAC 59.71 ETC 144.47 CLP -13.15

PLANETOCENTRIC CONIC

C3 22.604 VHL 4.754 DLA 9.81 RAL 314.07 RAD 6567.9 VEL 11.999 PTH 2.14 VHP 7.250 DPA -41.22 RAP 324.27 ECC 1.3720

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 8 43	2553.06	-26.08	64.09	180.66	101.43	6 51 16	1953.1	-24.24	55.91
90.00	20 36 5	4578.63	11.94	193.43	175.90	64.13	21 52 24	3978.6	8.36	186.58
100.00	7 34 54	2275.11	-27.29	43.36	180.37	102.71	8 12 49	1675.1	-25.26	35.15
100.00	21 52 36	4331.81	13.04	174.72	175.33	62.86	23 4 48	3731.8	9.30	167.93
110.00	8 54 8	2027.15	-30.49	23.59	179.42	106.26	9 27 55	1427.2	-27.96	15.31
110.00	22 49 51	4152.53	15.94	159.47	173.68	59.35	23 59 3	3552.5	11.75	152.86

DIFFERENTIAL CORRECTIONS
TDE -.7586 TRA-1.7415 TC3 .1847 BAU .1494
RDE .1574 RRA .5332 RC3 -.4587 FAU .03225
FDE 1.6016 FRA 2.1349 FC3-1.2351 BSP 7924
BDE .7747 BRA 1.8213 BC3 .4945 FSP -863

MID-COURSE EXECUTION ACCURACY
SGT 2324.4 SGR 807.2 SG3 298.3
RRT -.8736 RRF .9261 RTF -.9385
SGB 2460.6 R23 -.1731 R13 .9479
SG1 2431.8 SG2 375.5 THA 162.70

ORBIT DETERMINATION ACCURACY
ST 1115.3 SR 272.8 SS 1304.9
CRT -.9809 CRS -.9146 CST .9748
LSA 1725.6 MSA 208.1 SSA 13.2
EL1 1147.1 EL2 51.5 ALF 166.48

LAUNCH DATE OCT 5 1965 FLIGHT TIME 128.00 ARRIVAL DATE FEB 10 1966

HELIOCENTRIC CONIC DISTANCE 327.268

RL 149.59 LAL .00 LOL 11.55 VL 26.680 GAL 4.39 AZL 85.13 HCA 138.10 SMA 124.90 ECC .21148 INC 4.8737 V1 29.787
RP 107.51 LAP 3.25 LOP 149.75 VP 37.499 GAP -9.25 AZP 93.63 TAL 163.16 TAP 301.25 RCA 98.48 APO 151.31 V2 35.247
RC 45.230 GL 28.58 GP -25.16 ZAL 57.44 ZAP 29.08 ETS 55.61 ZAE 141.44 ETE 294.07 ZAC 62.11 ETC 144.22 CLP -15.08

PLANETOCENTRIC CONIC

C3 22.312 VHL 4.724 DLA 12.20 RAL 312.97 RAD 6567.9 VEL 11.987 PTH 2.14 VHP 6.986 DPA -43.21 RAP 326.94 ECC 1.3672

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 44 36	2629.34	-27.00	69.49	180.32	98.88	6 28 25	2029.3	-25.50	61.15
90.00	20 51 24	4496.04	9.44	188.65	174.60	63.18	22 6 20	3896.0	5.77	181.90
100.00	7 12 11	2346.88	-28.26	48.48	180.09	100.19	7 51 18	1746.9	-26.56	40.09
100.00	22 6 30	4253.80	10.57	170.24	174.01	61.88	23 17 24	3653.8	6.73	163.56
110.00	8 34 30	2089.26	-31.59	28.10	179.27	103.80	9 9 20	1489.3	-29.37	19.59
110.00	23 0 39	4084.12	13.52	155.64	172.27	58.30	24 8 44	3484.1	9.24	149.16

DIFFERENTIAL CORRECTIONS
TDE -.8001 TRA-1.7289 TC3 .2158 BAU .1635
RDE .2474 RRA .5844 RC3 -.5038 FAU .03337
FDE 1.7786 FRA 2.2250 FC3-1.2947 BSP 8150
BDE .8375 BRA 1.8250 BC3 .5481 FSP -932

MID-COURSE EXECUTION ACCURACY
SGT 2363.6 SGR 918.0 SG3 320.7
RRT -.8962 RRF .9487 RTF -.9424
SGB 2535.6 R23 -.1829 R13 .9539
SG1 2506.4 SG2 384.1 THA 160.33

ORBIT DETERMINATION ACCURACY
ST 1164.6 SR 371.0 SS 1395.1
CRT -.9986 CRS -.9660 CST .9761
LSA 1843.4 MSA 205.0 SSA 12.2
EL1 1222.1 EL2 18.8 ALF 162.35

LAUNCH DATE OCT 5 1965 FLIGHT TIME 130.00 ARRIVAL DATE FEB 12 1966

HELIOCENTRIC CONIC DISTANCE 333.992

RL 149.59 LAL .00 LOL 11.55 VL 26.763 GAL 4.19 AZL 84.71 HCA 141.33 SMA 125.42 ECC .20558 INC 5.2902 V1 29.787
RP 107.53 LAP 3.30 LOP 153.00 VP 37.554 GAP -8.60 AZP 94.14 TAL 163.39 TAP 304.72 RCA 99.64 APO 151.20 V2 35.242
RC 46.516 GL 31.38 GP -28.08 ZAL 58.76 ZAP 32.51 ETS 54.86 ZAE 138.27 ETE 294.90 ZAC 64.67 ETC 143.89 CLP -17.08

PLANETOCENTRIC CONIC

C3 22.338 VHL 4.726 DLA 14.75 RAL 311.75 RAD 6567.9 VEL 11.988 PTH 2.14 VHP 6.765 DPA -45.55 RAP 329.86 ECC 1.3676

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 17 24	2717.97	-27.77	75.86	180.25	95.77	6 2 42	2118.0	-26.68	67.36
90.00	21 8 53	4407.97	6.70	183.63	173.60	62.42	22 22 21	3808.0	2.96	176.96
100.00	6 46 42	2430.01	-29.11	54.51	180.08	97.12	7 27 12	1830.0	-27.82	45.94
100.00	22 22 17	4171.17	7.89	165.58	172.96	61.07	23 31 48	3571.2	3.97	158.99
110.00	8 12 42	2160.91	-32.63	33.43	179.43	100.81	8 48 43	1560.9	-30.79	24.69
110.00	23 12 46	4013.02	10.95	151.74	171.11	57.41	24 19 39	3413.0	6.57	145.38

DIFFERENTIAL CORRECTIONS
TDE -.8498 TRA-1.7158 TC3 .2395 BAU .1784
RDE .3573 RRA .6469 RC3 -.5472 FAU .03416
FDE 1.9745 FRA 2.3044 FC3-1.3240 BSP 8402
BDE .9218 BRA 1.8337 BC3 .5973 FSP -1000

MID-COURSE EXECUTION ACCURACY
SGT 2395.7 SGR 1054.9 SG3 341.7
RRT -.9131 RRF .9652 RTF -.9460
SGB 2617.6 R23 -.1881 R13 .9599
SG1 2587.2 SG2 398.2 THA 157.53

ORBIT DETERMINATION ACCURACY
ST 1215.6 SR 497.0 SS 1488.1
CRT -.9985 CRS -.9864 CST .9775
LSA 1974.3 MSA 203.1 SSA 11.1
EL1 1313.1 EL2 24.9 ALF 157.78

LAUNCH DATE OCT 5 1965 FLIGHT TIME 132.00 ARRIVAL DATE FEB 14 1966

HELIOCENTRIC CONIC DISTANCE 340.697

RL 149.59 LAL .00 LOL 11.55 VL 26.838 GAL 3.99 AZL 84.23 HCA 144.56 SMA 125.90 ECC .20018 INC 5.7698 V1 29.787
RP 107.55 LAP 3.34 LOP 156.25 VP 37.603 GAP -7.97 AZP 94.71 TAL 163.64 TAP 308.20 RCA 100.70 APO 151.11 V2 35.236
RC 47.916 GL 34.36 GP -31.46 ZAL 60.24 ZAP 36.31 ETS 54.38 ZAE 134.84 ETE 295.21 ZAC 67.43 ETC 143.50 CLP -19.14

PLANETOCENTRIC CONIC

C3 22.740 VHL 4.769 DLA 17.47 RAL 310.41 RAD 6567.9 VEL 12.005 PTH 2.14 VHP 6.595 DPA -48.27 RAP 333.15 ECC 1.3742

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 46 11	2822.19	-28.25	83.44	180.44	92.00	5 33 13	2222.2	-27.68	74.83
90.00	21 29 26	4312.40	3.66	178.26	172.98	61.90	22 41 19	3712.4	-.13	171.62
100.00	6 17 41	2527.14	-29.72	61.66	180.36	93.41	6 59 48	1927.1	-28.93	52.95
100.00	22 40 38	4082.68	4.94	160.66	172.27	60.48	23 48 40	3482.7	.98	154.12
110.00	7 48 13	2243.85	-33.51	39.74	179.95	97.18	8 25 37	1643.9	-32.16	30.77
110.00	23 26 34	3938.74	8.20	147.75	170.27	56.70	24 32 13	3338.7	3.76	141.47

DIFFERENTIAL CORRECTIONS
TDE -.9076 TRA-1.7012 TC3 .2576 BAU .1947
RDE .4935 RRA .7220 RC3 -.5865 FAU .03452
FDE 2.1841 FRA 2.3632 FC3-1.3142 BSP 8734
BDE 1.0331 BRA 1.8481 BC3 .6406 FSP -1064

MID-COURSE EXECUTION ACCURACY
SGT 2417.0 SGR 1221.3 SG3 359.6
RRT -.9259 RRF .9768 RTF -.9493
SGB 2708.0 R23 -.1870 R13 .9661
SG1 2675.8 SG2 416.9 THA 154.26

ORBIT DETERMINATION ACCURACY
ST 1265.9 SR 653.0 SS 1579.5
CRT -.9947 CRS -.9946 CST .9791
LSA 2117.3 MSA 202.4 SSA 9.9
EL1 1423.1 EL2 59.9 ALF 152.79

LAUNCH DATE OCT 5 1965 FLIGHT TIME 134.00 ARRIVAL DATE FEB 16 1966

HELIOCENTRIC CONIC DISTANCE 347.382

RL	149.59	LAL	.00	LOL	11.55	VL	26.907	GAL	3.82	AZL	83.67	HCA	147.79	SMA	126.35	ECC	.19526	INC	6.3319	VI	29.787
RP	107.56	LAP	3.37	LOP	159.50	VP	37.646	GAP	-7.36	AZP	95.36	TAL	163.88	TAP	311.67	RCA	101.68	APO	151.02	V2	35.230
RC	49.420	GL	37.54	GP	-35.35	ZAL	61.89	ZAP	40.51	ETS	54.07	ZAE	131.08	ETE	295.11	ZAC	70.43	ETC	143.08	CLP	-21.24

PLANETOCENTRIC CONIC

C3	23.613	VHL	4.859	DLA	20.36	RAL	308.94	RAD	6568.0	VEL	12.041	PTH	2.15	VHP	6.488	DPA	-51.41	RAP	337.01	ECC	1.3886

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 9 16	2947.55	-28.21	92.61	180.88	87.41	4 58 23	2347.5	-28.27	83.94
90.00	21 54 38	4205.42	.21	172.28	172.87	61.68	23 4 43	3605.4	-3.57	165.65
100.00	5 43 51	2642.52	-29.87	70.23	180.94	88.90	6 27 54	2042.5	-29.71	61.43
100.00	23 2 43	3985.67	1.67	155.32	172.06	60.15	24 9 9	3385.7	-2.31	148.80
110.00	7 20 23	2340.55	-34.08	47.23	180.86	92.78	7 59 23	1740.6	-33.32	38.07
110.00	23 42 41	3860.41	5.25	143.60	169.84	56.17	24 47 2	3260.4	.77	137.38

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY				ORBIT DETERMINATION ACCURACY			
TDE	-.9808	TRA	-1.6905	TC3	.2592	BAU	.2107	SGT	2433.4	SGR	1420.7	SG3	372.2	ST	1320.7	SR	843.8	SS	1667.3
RDE	.6666	RRA	.8122	RC3	-.6150	FAU	.03401	RRT	-.9347	RRF	.9846	RTF	-.9522	CRT	-.9911	CRS	-.9980	CST	.9809
FDE	2.4031	FRA	2.3934	FC3	-1.2469	BSP	9042	SGB	2817.7	R23	-.1801	R13	.9722	LSA	2279.2	MSA	202.4	SSA	8.7
BDE	1.1858	BRA	1.8755	BC3	.6674	FSP	-1108	SG1	2782.9	SG2	441.7	THA	150.56	EL1	1564.4	EL2	94.6	ALF	147.52

LAUNCH DATE OCT 5 1965 FLIGHT TIME 136.00 ARRIVAL DATE FEB 18 1966

HELIOCENTRIC CONIC DISTANCE 354.045

RL	149.59	LAL	.00	LOL	11.55	VL	26.969	GAL	3.66	AZL	83.00	HCA	151.01	SMA	126.75	ECC	.19080	INC	7.0041	VI	29.787
RP	107.58	LAP	3.39	LOP	162.75	VP	37.684	GAP	-6.76	AZP	96.13	TAL	164.13	TAP	315.14	RCA	102.57	APO	150.93	V2	35.224
RC	51.018	GL	40.91	GP	-39.80	ZAL	63.73	ZAP	45.14	ETS	53.90	ZAE	126.93	ETE	294.71	ZAC	73.71	ETC	142.69	CLP	-23.35

PLANETOCENTRIC CONIC

C3	25.112	VHL	5.011	DLA	23.41	RAL	307.32	RAD	6568.0	VEL	12.103	PTH	2.17	VHP	6.466	DPA	-54.95	RAP	341.74	ECC	1.4133

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	3 23 6	3105.40	-27.19	104.04	181.39	81.77	4 14 52	2505.4	-28.05	95.48
90.00	22 27 49	4077.79	-3.90	165.16	173.53	61.93	23 35 47	3477.8	-7.62	158.46
100.00	5 2 49	2783.91	-29.23	80.69	181.69	83.44	5 49 13	2183.9	-29.83	71.93
100.00	23 30 48	3874.51	-2.10	149.22	172.54	60.17	24 35 22	3274.5	-6.05	142.67
110.00	6 48 1	2454.79	-34.10	56.14	182.14	87.51	7 28 56	1854.8	-34.07	46.90
110.00	0 6 1	3776.40	2.05	139.20	169.95	55.87	1 8 57	3176.4	-2.44	133.00

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY				ORBIT DETERMINATION ACCURACY			
TDE	-1.0704	TRA	-1.6820	TC3	.2475	BAU	.2264	SGT	2439.5	SGR	1653.7	SG3	376.3	ST	1376.0	SR	1072.4	SS	1742.5
RDE	.8885	RRA	.9177	RC3	-.6272	FAU	.03243	RRT	-.9408	RRF	.9898	RTF	-.9549	CRT	-.9889	CRS	-.9993	CST	.9828
FDE	2.6146	FRA	2.3782	FC3	-1.1182	BSP	9417	SGB	2947.2	R23	-.1667	R13	.9781	LSA	2457.3	MSA	202.8	SSA	7.5
BDE	1.3912	BRA	1.9160	BC3	.6743	FSP	-1129	SG1	2909.5	SG2	469.8	THA	146.48	EL1	1739.9	EL2	126.2	ALF	142.14

LAUNCH DATE OCT 5 1965 FLIGHT TIME 138.00 ARRIVAL DATE FEB 20 1966

HELIOCENTRIC CONIC DISTANCE 360.683

RL	149.59	LAL	.00	LOL	11.55	VL	27.025	GAL	3.51	AZL	82.17	HCA	154.23	SMA	127.12	ECC	.18678	INC	7.8281	VI	29.787
RP	107.61	LAP	3.39	LOP	165.99	VP	37.718	GAP	-6.18	AZP	97.06	TAL	164.36	TAP	318.60	RCA	103.38	APO	150.86	V2	35.216
RC	52.701	GL	44.48	GP	-44.84	ZAL	65.75	ZAP	50.18	ETS	53.81	ZAE	122.31	ETE	294.15	ZAC	77.33	ETC	142.44	CLP	-25.43

PLANETOCENTRIC CONIC

C3	27.498	VHL	5.244	DLA	26.62	RAL	305.51	RAD	6568.1	VEL	12.201	PTH	2.19	VHP	6.556	DPA	-58.83	RAP	347.85	ECC	1.4525

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	2 16 7	3332.65	-23.98	119.88	181.39	74.48	3 11 40	2732.6	-25.88	111.73
90.00	23 20 22	3895.50	-9.63	154.83	175.62	63.24	24 25 17	3295.5	-13.15	147.91
100.00	4 8 31	2970.32	-27.03	94.09	182.26	76.73	4 58 1	2370.3	-28.59	85.63
100.00	0 14 35	3733.06	-6.85	141.41	174.12	60.83	1 16 48	3133.1	-10.69	134.72
110.00	6 9 6	2593.02	-33.18	66.82	183.64	81.26	6 52 19	1993.0	-34.03	57.68
110.00	0 30 29	3683.13	-1.52	134.33	170.83	55.85	1 31 52	3083.1	-5.99	128.10

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY				ORBIT DETERMINATION ACCURACY			
TDE	-1.1826	TRA	-1.6782	TC3	.2241	BAU	.2410	SGT	2435.5	SGR	1918.1	SG3	368.7	ST	1431.2	SR	1340.6	SS	1795.5
RDE	1.1763	RRA	1.0382	RC3	-.6159	FAU	.02960	RRT	-.9451	RRF	.9931	RTF	-.9574	CRT	-.9877	CRS	-.9998	CST	.9848
FDE	2.7960	FRA	2.3027	FC3	-.9319	BSP	9890	SGB	3100.2	R23	-.1479	R13	.9837	LSA	2651.0	MSA	203.6	SSA	6.3
BDE	1.6680	BRA	1.9734	BC3	.6555	FSP	-1118	SG1	3059.8	SG2	499.0	THA	142.16	EL1	1955.0	EL2	153.2	ALF	136.90

LAUNCH DATE OCT 5 1965 FLIGHT TIME 140.00 ARRIVAL DATE FEB 22 1966

HELIOCENTRIC CONIC DISTANCE 367.294

RL	149.59	LAL	.00	LOL	11.55	VL	27.076	GAL	3.38	AZL	81.13	HCA	157.44	SMA	127.45	ECC	.18317	INC	8.8686	VI	29.787
RP	107.63	LAP	3.39	LOP	169.24	VP	37.746	GAP	-5.62	AZP	98.20	TAL	164.59	TAP	322.03	RCA	104.10	APO	150.80	V2	35.208
RC	54.462	GL	48.22	GP	-50.48	ZAL	67.97	ZAP	55.58	ETS	53.81	ZAE	117.18	ETE	293.63	ZAC	81.32	ETC	142.49	CLP	-27.34

PLANETOCENTRIC CONIC

C3	31.228	VHL	5.588	DLA	29.96	RAL	303.47	RAD	6568.2	VEL	12.353	PTH	2.23	VHP	6.803	DPA	-62.85	RAP	356.21	ECC	1.5139

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
79.80	23 15 19	3913.00	-17.76	160.12	179.72	65.47	24 20 32	3313.0	-20.92	152.75
100.20	2 4 53	3378.82	-17.75	120.83	179.71	65.46	3 1 12	2778.8	-20.91	113.45
79.80	23 15 19	3913.00	-17.76	160.12	179.72	65.47	24 20 32	3313.0	-20.92	152.75
100.20	2 4 53	3378.82	-17.75	120.83	179.71	65.46	3 1 12	2778.8	-20.91	113.45
110.00	5 19 5	2769.12	-30.59	79.88	184.90	73.94	6 5 14	2169.1	-32.48	71.18
110.00	1 4 14	3570.69	-5.80	128.44	172.93	56.25	2 3 44	2970.7	-10.19	122.11

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY				ORBIT DETERMINATION ACCURACY			
TDE	-1.3307	TRA	-1.6854	TC3	.1888	BAU	.2518	SGT	2425.7	SGR	2206.2	SG3	346.6	ST	1489.9	SR	1646.1	SS	1816.5
RDE	1.5534	RRA	1.1712	RC3	-.5728	FAU	.02530	RRT	-.9478	RRF	.9952	RTF	-.9599	CRT	-.9875	CRS	-1.0000	CST	.9868
FDE	2.9200	FRA	2.1566	FC3	-.7014	BSP	10461	SGB	3278.9	R23	-.1249	R13	.9887	LSA	2861.4	MSA	204.4	SSA	5.1
BDE	2.0454	BRA	2.0524	BC3	.6031	FSP	-1066	SG1	3236.3	SG2	527.1	THA	137.86	EL1	2213.4	EL2	174.4	ALF	132.11

LAUNCH DATE OCT 5 1965 FLIGHT TIME 142.00 ARRIVAL DATE FEB 24 1966

HELIOCENTRIC CONIC DISTANCE 373.874

RL 149.59 LAL .00 LOL 11.55 VL 27.121 GAL 3.27 AZL 79.77 HCA 160.65 SMA 127.75 ECC .17997 INCI0.2328 V1 29.787
RP 107.66 LAP 3.38 LOP 172.48 VP 37.771 GAP -5.08 AZP 99.67 TAL 164.78 TAP 325.43 RCA 104.76 APO 150.74 V2 35.200
RC 56.291 GL 52.09 GP -56.68 ZAL 70.39 ZAP 61.23 ETS 54.03 ZAE 111.51 ETE 293.48 ZAC 85.71 ETC 143.15 CLP -28.82

PLANETOCENTRIC CONIC

C3 37.163 VHL 6.096 DLA 33.37 RAL 301.14 RAD 6568.4 VEL 12.591 PTH 2.28 VHP 7.280 DPA -66.58 RAP 8.10 ECC 1.6116

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
71.56	22 8 53	4136.34	-18.23	177.27	181.15	61.56	23 17 49	3536.3	-21.89	170.11
108.44	2 52 45	3243.25	-18.22	110.82	181.14	61.55	3 46 48	2643.3	-21.87	103.66
71.56	22 8 53	4136.34	-18.23	177.27	181.15	61.56	23 17 49	3536.3	-21.89	170.11
108.44	2 52 45	3243.25	-18.22	110.82	181.14	61.55	3 46 48	2643.3	-21.87	103.66
110.00	3 58 43	3041.06	-24.01	98.26	184.27	64.91	4 49 24	2441.1	-27.19	90.53
110.00	2 6 1	3386.53	-12.62	118.55	177.76	57.97	3 2 28	2786.5	-16.77	111.89

DIFFERENTIAL CORRECTIONS
TDE-1.5379 TRA-1.7126 TC3 .1479 BAU .2556
RDE 2.0499 RRA 1.3082 RC3 -.4927 FAU .01969
FDE 2.9555 FRA 1.9365 FC3 -.4586 BSP 11234
BDE 2.5626 BRA 2.1551 BC3 .5144 FSP -975

MID-COURSE EXECUTION ACCURACY
SGT 2415.9 SGR 2498.0 SG3 308.9
RRT -.9496 RRF .9962 RTF -.9630
SGB 3475.2 R23 -.0993 R13 .9928
SG1 3431.1 SG2 551.6 THA 133.99

ORBIT DETERMINATION ACCURACY
ST 1556.8 SR 1976.7 SS 1794.9
CRT -.9880 CRS-1.0000 CST .9889
LSA 3083.9 MSA 205.1 SSA 4.1
EL1 2509.0 EL2 189.7 ALF 128.14

LAUNCH DATE OCT 5 1965 FLIGHT TIME 144.00 ARRIVAL DATE FEB 26 1966

HELIOCENTRIC CONIC DISTANCE 380.413

RL 149.59 LAL .00 LOL 11.55 VL 27.161 GAL 3.18 AZL 77.89 HCA 163.83 SMA 128.02 ECC .17714 INC12.1110 V1 29.787
RP 107.69 LAP 3.35 LOP 175.72 VP 37.791 GAP -4.56 AZP 101.65 TAL 164.95 TAP 328.78 RCA 105.34 APO 150.69 V2 35.191
RC 58.184 GL 56.04 GP -63.37 ZAL 73.02 ZAP 66.98 ETS 55.01 ZAE 105.28 ETE 294.38 ZAC 90.53 ETC 145.11 CLP -29.27

PLANETOCENTRIC CONIC

C3 47.062 VHL 6.860 DLA 36.76 RAL 298.43 RAD 6568.8 VEL 12.978 PTH 2.37 VHP 8.109 DPA -69.25 RAP 24.91 ECC 1.7745

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
65.50	21 23 13	4301.08	-17.75	189.97	183.09	57.26	22 34 54	3701.1	-21.93	183.14
114.50	3 16 50	3197.55	-17.73	106.91	183.08	57.25	4 10 7	2597.5	-21.92	100.08
65.50	21 23 13	4301.08	-17.75	189.97	183.09	57.26	22 34 54	3701.1	-21.93	183.14
114.50	3 16 50	3197.55	-17.73	106.91	183.08	57.25	4 10 7	2597.5	-21.92	100.08
65.50	21 23 13	4301.08	-17.75	189.97	183.09	57.26	22 34 54	3701.1	-21.93	183.14
114.50	3 16 50	3197.55	-17.73	106.91	183.08	57.25	4 10 7	2597.5	-21.92	100.08

DIFFERENTIAL CORRECTIONS
TDE-1.8496 TRA-1.7647 TC3 .1240 BAU .2538
RDE 2.6913 RRA 1.4158 RC3 -.3839 FAU .01381
FDE 2.8700 FRA 1.6404 FC3 -.2540 BSP 12840
BDE 3.2656 BRA 2.2625 BC3 .4C35 FSP -884

MID-COURSE EXECUTION ACCURACY
SGT 2408.4 SGR 2740.2 SG3 256.2
RRT -.9512 RRF .9964 RTF -.9674
SGB 3648.1 R23 -.0721 R13 .9958
SG1 3604.2 SG2 564.8 THA 131.13

ORBIT DETERMINATION ACCURACY
ST 1640.4 SR 2291.0 SS 1717.6
CRT -.9890 CRS -.9999 CST .9913
LSA 3293.7 MSA 204.2 SSA 3.2
EL1 2810.8 EL2 198.1 ALF 125.51

LAUNCH DATE OCT 5 1965 FLIGHT TIME 146.00 ARRIVAL DATE FEB 28 1966

HELIOCENTRIC CONIC DISTANCE 386.913

RL 149.59 LAL .00 LOL 11.55 VL 27.196 GAL 3.10 AZL 75.12 HCA 166.99 SMA 128.25 ECC .17471 INC14.8755 V1 29.787
RP 107.72 LAP 3.31 LOP 178.96 VP 37.807 GAP -4.06 AZP 104.51 TAL 165.05 TAP 332.04 RCA 105.85 APO 150.66 V2 35.181
RC 60.133 GL 59.85 GP -70.39 ZAL 75.85 ZAP 72.59 ETS 58.69 ZAE 98.47 ETE 298.37 ZAC 95.88 ETC 150.46 CLP -26.91

PLANETOCENTRIC CONIC

C3 64.993 VHL 8.062 DLA 39.93 RAL 295.26 RAD 6569.2 VEL 13.651 PTH 2.49 VHP 9.530 DPA -69.67 RAP 45.92 ECC 2.0696

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
60.59	20 46 20	4450.60	-15.86	200.94	185.43	52.86	22 0 30	3850.6	-20.58	194.55
119.41	3 28 26	3206.88	-15.85	106.31	185.42	52.86	4 21 53	2606.9	-20.56	99.92
60.59	20 46 20	4450.60	-15.86	200.94	185.43	52.86	22 0 30	3850.6	-20.58	194.55
119.41	3 28 26	3206.88	-15.85	106.31	185.42	52.86	4 21 53	2606.9	-20.56	99.92
60.59	20 46 20	4450.60	-15.86	200.94	185.43	52.86	22 0 30	3850.6	-20.58	194.55
119.41	3 28 26	3206.88	-15.85	106.31	185.42	52.86	4 21 53	2606.9	-20.56	99.92

DIFFERENTIAL CORRECTIONS
TDE-2.6308 TRA-2.0584 TC3 .0156 BAU .1731
RDE 3.5635 RRA 1.5070 RC3 -.1986 FAU .00389
FDE 2.7664 FRA 1.3965 FC3 -.0518 BSP 11689
BDE 4.4294 BRA 2.5511 BC3 .1992 FSP -617

MID-COURSE EXECUTION ACCURACY
SGT 2671.3 SGR 2909.9 SG3 203.5
RRT -.9530 RRF .9942 RTF -.9770
SGB 3950.0 R23 -.0424 R13 .9981
SG1 3903.7 SG2 603.3 THA 132.43

ORBIT DETERMINATION ACCURACY
ST 1955.3 SR 2567.1 SS 1650.2
CRT -.9912 CRS -.9995 CST .9948
LSA 3618.4 MSA 208.5 SSA 2.5
EL1 3220.3 EL2 206.9 ALF 127.23

LAUNCH DATE OCT 5 1965 FLIGHT TIME 148.00 ARRIVAL DATE MAR 2 1966

HELIOCENTRIC CONIC DISTANCE 393.328

RL 149.59 LAL .00 LOL 11.55 VL 27.227 GAL 3.05 AZL 70.65 HCA 170.10 SMA 128.46 ECC .17264 INC19.3536 V1 29.787
RP 107.75 LAP 3.27 LOP 182.20 VP 37.820 GAP -3.58 AZP 109.09 TAL 165.09 TAP 335.19 RCA 106.28 APO 150.64 V2 35.171
RC 62.133 GL 63.12 GP -77.34 ZAL 78.88 ZAP 77.80 ETS 74.58 ZAE 90.88 ETE 314.95 ZAC 102.03 ETC 168.80 CLP -15.25

PLANETOCENTRIC CONIC

C3 102.039 VHL 10.101 DLA 42.40 RAL 291.51 RAD 6570.0 VEL 14.946 PTH 2.69 VHP 12.058 DPA -66.89 RAP 66.44 ECC 2.6793

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
57.02	20 15 45	4596.38	-12.17	210.42	187.86	49.07	21 32 21	3996.4	-17.34	204.51
122.98	3 29 3	3266.11	-12.16	108.33	187.84	49.06	4 23 30	2666.1	-17.32	102.42
57.02	20 15 45	4596.38	-12.17	210.42	187.86	49.07	21 32 21	3996.4	-17.34	204.51
122.98	3 29 3	3266.11	-12.16	108.33	187.84	49.06	4 23 30	2666.1	-17.32	102.42
57.02	20 15 45	4596.38	-12.17	210.42	187.86	49.07	21 32 21	3996.4	-17.34	204.51
122.98	3 29 3	3266.11	-12.16	108.33	187.84	49.06	4 23 30	2666.1	-17.32	102.42

DIFFERENTIAL CORRECTIONS
TDE-4.9259 TRA-2.7009 TC3 -.0434 BAU .0923
RDE 3.6715 RRA .9792 RC3 -.0519 FAU-.00388
FDE 2.5781 FRA 1.1263 FC3 .0329 BSP 12604
BDE 6.1436 BRA 2.8729 BC3 .0676 FSP -466

MID-COURSE EXECUTION ACCURACY
SGT 3481.0 SGR 2216.6 SG3 146.9
RRT -.9551 RRF .9788 RTF -.9945
SGB 4126.8 R23 -.0128 R13 .9992
SG1 4088.7 SG2 559.3 THA 148.02

ORBIT DETERMINATION ACCURACY
ST 2862.4 SR 2094.7 SS 1547.3
CRT -.9938 CRS -.9977 CST .9991
LSA 3865.2 MSA 188.1 SSA 2.0
EL1 3542.0 EL2 188.0 ALF 143.86

LAUNCH DATE OCT 5 1965 FLIGHT TIME 150.00 ARRIVAL DATE MAR 4 1966

HELIOCENTRIC CONIC DISTANCE 399.594

RL 149.59 LAL .00 LOL 11.55 VL 27.253 GAL 3.04 AZL 62.24 HCA 173.10 SMA 128.64 ECC .17101 INC27.7584 V1 29.787
RP 107.78 LAP 3.21 LOP 185.44 VP 37.829 GAP -3.15 AZP 117.59 TAL 164.99 TAP 338.09 RCA 106.64 APO 150.64 V2 35.160
RC 64.180 GL 64.59 GP -81.08 ZAL 82.04 ZAP 82.34 ETS 142.11 ZAE 81.70 ETE 23.32 ZAC 109.93 ETC 239.70 CLP 30.70

PLANETOCENTRIC CONIC

C3 196.919 VHL 14.033 DLA 42.95 RAL 287.24 RAD 6571.1 VEL 17.839 PTH 2.99 VHP 17.048 DPA -60.27 RAP 82.08 ECC 4.2408

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
56.24	19 55 31	4726.62	-6.76	217.03	189.94	47.48	21 14 18	4126.6	-12.12	211.42
123.76	3 15 14	3379.00	-6.75	113.40	189.92	47.48	4 11 33	2779.0	-12.11	107.80
56.24	19 55 31	4726.62	-6.76	217.03	189.94	47.48	21 14 18	4126.6	-12.12	211.42
123.76	3 15 14	3379.00	-6.75	113.40	189.92	47.48	4 11 33	2779.0	-12.11	107.80
56.24	19 55 31	4726.62	-6.76	217.03	189.94	47.48	21 14 18	4126.6	-12.12	211.42
123.76	3 15 14	3379.00	-6.75	113.40	189.92	47.48	4 11 33	2779.0	-12.11	107.80

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE-6.4071 TRA-2.0498 TC3 -.1243 BAU .4512 SGT 2876.2 SGR 3133.6 SG3 101.5 ST 2638.4 SR 2714.1 SS 1533.1
RDE-6.5418 RRA-2.8769 RC3 -.1180 FAU-.01395 RRT .9917 RRF -.9976 RTF -.9970 CRT .9989 CRS .9998 CST .9996
FDE 2.5178 FRA .9724 FC3 .0613 BSP 13146 SGB 4253.5 R23 .0008 R13 -.9994 LSA 4082.9 MSA 90.8 SSA 1.7
BDE 9.1568 BRA 3.5325 BC3 .1714 FSP -330 SG1 4244.7 SG2 273.4 THA 47.47 EL1 3784.1 EL2 90.7 ALF 45.81

LAUNCH DATE OCT 5 1965 FLIGHT TIME 152.00 ARRIVAL DATE MAR 6 1966

HELIOCENTRIC CONIC DISTANCE 405.429

RL 149.59 LAL .00 LOL 11.55 VL 27.276 GAL 3.11 AZL 42.49 HCA 175.74 SMA 128.80 ECC .17008 INC47.5090 V1 29.787
RP 107.81 LAP 3.14 LOP 188.67 VP 37.835 GAP -2.84 AZP 137.43 TAL 164.50 TAP 340.24 RCA 106.89 APO 150.70 V2 35.149
RC 66.268 GL 60.08 GP -71.34 ZAL 85.10 ZAP 85.87 ETS 177.73 ZAE 67.97 ETE 58.77 ZAC 122.89 ETC 280.34 CLP 76.98

PLANETOCENTRIC CONIC

C3 536.885 VHL 23.171 DLA 37.62 RAL 283.29 RAD 6572.4 VEL 25.655 PTH 3.36 VHP 28.761 DPA -47.12 RAP 92.52 ECC 9.8358

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
64.12	20 15 38	4740.23	-1.31	213.59	191.60	52.40	21 34 38	4140.2	-6.18	207.64
115.88	2 23 34	3594.65	-1.29	127.11	191.59	52.40	3 23 29	2994.6	-6.16	121.16
64.12	20 15 38	4740.23	-1.31	213.59	191.60	52.40	21 34 38	4140.2	-6.18	207.64
115.88	2 23 34	3594.65	-1.29	127.11	191.59	52.40	3 23 29	2994.6	-6.16	121.16
64.12	20 15 38	4740.23	-1.31	213.59	191.60	52.40	21 34 38	4140.2	-6.18	207.64
115.88	2 23 34	3594.65	-1.29	127.11	191.59	52.40	3 23 29	2994.6	-6.16	121.16

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE-4.8736 TRA .0299 TC3 -.0997 BAU 1.9983 SGT 1290.7 SGR 3986.3 SG3 73.8 ST 1205.2 SR 3457.9 SS 1821.4
RD-13.8387 RRA-5.2918 RC3 -.2600 FAU-.03777 RRT .9067 RRF -.9996 RTF -.9082 CRT .9893 CRS 1.0000 CST .9892
FDE 2.9331 FRA 1.1270 FC3 .0609 BSP 12928 SGB 4190.0 R23 -.0330 R13 -.9990 LSA 4086.4 MSA 168.0 SSA 1.8
BDE14.6718 BRA 5.2919 BC3 .2784 FSP -239 SG1 4157.4 SG2 521.9 THA 73.37 EL1 3658.1 EL2 165.9 ALF 70.93

LAUNCH DATE OCT 5 1965 FLIGHT TIME 154.00 ARRIVAL DATE MAR 8 1966

HELIOCENTRIC CONIC DISTANCE 416.627

RL 149.59 LAL .00 LOL 11.55 VL 27.295 GAL 2.21 AZL 173.51 HCA 183.08 SMA 128.93 ECC .16472 INC83.5094 V1 29.787
RP 107.85 LAP 3.06 LOP 191.90 VP 37.838 GAP -1.17 AZP 6.50 TAL 168.66 TAP 351.74 RCA 107.69 APO 150.17 V2 35.138
RC 68.394 GL -45.38 GP 49.81 ZAL 87.66 ZAP 88.87 ETS 186.29 ZAE 61.16 ETE 303.37 ZAC 114.66 ETC 79.24 CLP 88.24

PLANETOCENTRIC CONIC

C31449.687 VHL 38.075 DLA -67.38 RAL 297.97 RAD 6573.2 VEL 39.635 PTH 3.56 VHP 49.328 DPA 74.20 RAP 104.63 ECC24.8582

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
25.90	7 10 50	2443.14	-1.29	76.82	208.49	157.38	7 51 34	1843.1	6.09	74.15
154.10	17 25 28	707.40	-1.28	290.01	208.51	157.38	17 37 16	107.4	6.10	287.34
25.90	7 10 50	2443.14	-1.29	76.82	208.49	157.38	7 51 34	1843.1	6.09	74.15
154.10	17 25 28	707.40	-1.28	290.01	208.51	157.38	17 37 16	107.4	6.10	287.34
25.90	7 10 50	2443.14	-1.29	76.82	208.49	157.38	7 51 34	1843.1	6.09	74.15
154.10	17 25 28	707.40	-1.28	290.01	208.51	157.38	17 37 16	107.4	6.10	287.34

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE 8.3066 TRA-1.2737 TC3 -.1378 BAU 5.3804 SGT 1706.5 SGR 3121.7 SG3 66.6 ST 1259.3 SR 1683.4 SS 1885.6
RD-10.4653 RRA 5.0448 RC3 .2410 FAU-.09728 RRT -.9157 RRF .9989 RTF -.9303 CRT -.9712 CRS -.9994 CST .9788
FDE-2.7845 FRA 1.2043 FC3 .0581 BSP 10718 SGB 3557.6 R23 -.0517 R13 .9983 LSA 2812.7 MSA 252.4 SSA 2.3
BDE13.3612 BRA 5.2031 BC3 .2776 FSP -207 SG1 3504.8 SG2 610.7 THA 117.50 EL1 2088.3 EL2 241.9 ALF 126.57

LAUNCH DATE OCT 5 1965 FLIGHT TIME 156.00 ARRIVAL DATE MAR 10 1966

HELIOCENTRIC CONIC DISTANCE 421.205

RL 149.59 LAL .00 LOL 11.55 VL 27.311 GAL 2.54 AZL 129.81 HCA 184.65 SMA 129.04 ECC .16517 INC39.8124 V1 29.787
RP 107.89 LAP 2.98 LOP 195.13 VP 37.839 GAP -1.18 AZP 50.28 TAL 166.99 TAP 351.64 RCA 107.72 APO 150.35 V2 35.126
RC 70.553 GL -62.77 GP 74.78 ZAL 85.02 ZAP 87.80 ETS 201.03 ZAE 83.90 ETE 312.42 ZAC 90.71 ETC 91.98 CLP 81.59

PLANETOCENTRIC CONIC

C3 385.964 VHL 19.646 DLA -79.73 RAL 349.00 RAD 6572.1 VEL 22.523 PTH 3.26 VHP 25.902 DPA 80.76 RAP 279.01 ECC 7.3520

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
11.69	10 5 3	2392.98	4.05	83.12	258.26	169.70	10 44 56	1793.0	11.92	82.08
168.31	21 18 27	5883.66	4.05	259.74	258.28	169.70	22 56 31	5283.7	11.92	258.70
11.69	10 5 3	2392.98	4.05	83.12	258.26	169.70	10 44 56	1793.0	11.92	82.08
168.31	21 18 27	5883.66	4.05	259.74	258.28	169.70	22 56 31	5283.7	11.92	258.70
11.69	10 5 3	2392.98	4.05	83.12	258.26	169.70	10 44 56	1793.0	11.92	82.08
168.31	21 18 27	5883.66	4.05	259.74	258.28	169.70	22 56 31	5283.7	11.92	258.70

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE 1.3410 TRA-1.5497 TC3 -.1619 BAU 1.4145 SGT 2641.8 SGR 3585.4 SG3 82.2 ST 855.1 SR 1132.9 SS 633.0
RDE 1.5830 RRA 2.1082 RC3 .2212 FAU-.02452 RRT -.9617 RRF .9973 RTF -.9786 CRT -.6257 CRS -.9751 CST .7831
FDE .1890 FRA .5653 FC3 .0550 BSP 14088 SGB 4453.3 R23 -.0256 R13 .9995 LSA 1439.8 MSA 585.1 SSA 1.0
BDE 2.0747 BRA 2.6164 BC3 .2741 FSP -266 SG1 4414.3 SG2 588.2 THA 126.06 EL1 1293.6 EL2 584.2 ALF 122.76

LAUNCH DATE OCT 5 1965 FLIGHT TIME 158.00 ARRIVAL DATE MAR 12 1966

HELIOCENTRIC CONIC DISTANCE 427.087

RL 149.59 LAL .00 LOL 11.55 VL 27.323 GAL 2.63 AZL 113.02 HCA 187.38 SMA 129.12 ECC .16486 INC23.0161 V1 29.787
RP 107.92 LAP 2.88 LOP 198.35 VP 37.837 GAP -.87 AZP 67.15 TAL 166.46 TAP 353.85 RCA 107.84 APO 150.41 V2 35.114
RC 72.741 GL -64.99 GP 86.10 ZAL 81.44 ZAP 87.12 ETS 261.71 ZAE 95.38 ETE 10.72 ZAC 79.32 ETC 148.51 CLP 42.46

PLANETOCENTRIC CONIC

C3 138.686 VHL 11.777 DLA -76.86 RAL 8.12 RAD 6570.5 VEL 16.125 PTH 2.84 VHP 15.810 DPA 68.56 RAP 284.35 ECC 3.2824

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
14.96	11 27 47	2242.45	13.66	79.61	274.86	166.47	12 5 10	1642.5	21.43	78.02
165.04	22 28 16	5742.77	13.67	259.43	274.88	166.47	24 3 59	5142.8	21.43	257.85
14.96	11 27 47	2242.45	13.66	79.61	274.86	166.47	12 5 10	1642.5	21.43	78.02
165.04	22 28 16	5742.77	13.67	259.43	274.88	166.47	24 3 59	5142.8	21.43	257.85
14.96	11 27 47	2242.45	13.66	79.61	274.86	166.47	12 5 10	1642.5	21.43	78.02
165.04	22 28 16	5742.77	13.67	259.43	274.88	166.47	24 3 59	5142.8	21.43	257.85

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE-3.4969 TRA-2.0228 TC3 -.1146 BAU .2174 SGT 4659.6 SGR 700.3 SG3 118.4 ST 2140.5 SR 404.6 SS 878.9
RDE .7460 RRA -.2785 RC3 .0247 FAU-.00281 RRT .5969 RRF -.5887 RTF -.9995 CRT -.4448 CRS -.4621 CST .9998
FDE 1.0665 FRA .5924 FC3 .0176 BSP 14596 SGB 4711.9 R23 .0207 R13 -.9993 LSA 2321.1 MSA 361.1 SSA 1.6
BDE 3.5756 BRA 2.0419 BC3 .1173 FSP -376 SG1 4678.6 SG2 559.6 THA 5.20 EL1 2148.2 EL2 361.1 ALF 175.05

LAUNCH DATE OCT 5 1965 FLIGHT TIME 160.00 ARRIVAL DATE MAR 14 1966

HELIOCENTRIC CONIC DISTANCE 433.269

RL 149.59 LAL .00 LOL 11.55 VL 27.333 GAL 2.68 AZL 105.56 HCA 190.40 SMA 129.19 ECC .16452 INC15.5597 V1 29.787
RP 107.96 LAP 2.77 LOP 201.57 VP 37.832 GAP -.48 AZP 74.68 TAL 166.18 TAP 356.57 RCA 107.93 APO 150.44 V2 35.101
RC 74.954 GL -61.92 GP 84.11 ZAL 77.65 ZAP 87.24 ETS 322.37 ZAE 102.50 ETE 69.62 ZAC 72.37 ETC 204.74 CLP -62.05

PLANETOCENTRIC CONIC

C3 68.903 VHL 8.301 DLA -72.91 RAL 2.63 RAD 6569.3 VEL 13.793 PTH 2.52 VHP 11.292 DPA 60.92 RAP 286.15 ECC 2.1340

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
19.50	11 15 4	2083.69	23.11	73.68	265.08	161.37	11 49 48	1483.7	30.66	71.14
160.50	21 57 8	5601.68	23.11	258.05	265.10	161.37	23 30 30	5001.7	30.67	255.50
19.50	11 15 4	2083.69	23.11	73.68	265.08	161.37	11 49 48	1483.7	30.66	71.14
160.50	21 57 8	5601.68	23.11	258.05	265.10	161.37	23 30 30	5001.7	30.67	255.50
19.50	11 15 4	2083.69	23.11	73.68	265.08	161.37	11 49 48	1483.7	30.66	71.14
160.50	21 57 8	5601.68	23.11	258.05	265.10	161.37	23 30 30	5001.7	30.67	255.50

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE-1.4101 TRA -.6228 TC3 -.0161 BAU .1878 SGT 1757.5 SGR 4454.3 SG3 172.1 ST 1067.7 SR 1674.5 SS 817.8
RDE-1.5401 RRA-1.8357 RC3 .2032 FAU .00928 RRT .9370 RRF -.9969 RTF -.9577 CRT .8963 CRS .9898 CST .9504
FDE .8967 FRA .8020 FC3 -.1165 BSP 14993 SGB 4788.5 R23 .0222 R13 -.9990 LSA 2108.6 MSA 408.0 SSA 2.2
BDE 2.0881 BRA 1.9385 BC3 .2039 FSP -553 SG1 4753.8 SG2 575.2 THA 69.39 EL1 1943.6 EL2 407.8 ALF 58.72

LAUNCH DATE OCT 5 1965 FLIGHT TIME 162.00 ARRIVAL DATE MAR 16 1966

HELIOCENTRIC CONIC DISTANCE 439.537

RL 149.59 LAL .00 LOL 11.55 VL 27.340 GAL 2.72 AZL 101.47 HCA 193.50 SMA 129.24 ECC .16432 INC11.4669 V1 29.787
RP 108.00 LAP 2.66 LOP 204.79 VP 37.825 GAP -.08 AZP 78.84 TAL 165.93 TAP 359.44 RCA 108.00 APO 150.47 V2 35.089
RC 77.191 GL -57.10 GP 78.60 ZAL 73.88 ZAP 88.19 ETS 341.52 ZAE 107.80 ETE 87.48 ZAC 67.00 ETC 219.53 CLP -80.79

PLANETOCENTRIC CONIC

C3 41.811 VHL 6.466 DLA -68.46 RAL 354.59 RAD 6568.6 VEL 12.774 PTH 2.32 VHP 8.855 DPA 55.00 RAP 286.89 ECC 1.6881

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
24.65	10 53 59	1947.22	30.10	65.82	251.36	154.89	11 26 26	1347.2	37.27	61.98
155.35	21 14 8	5491.90	30.10	255.56	251.38	154.89	22 45 40	4891.9	37.28	251.72
24.65	10 53 59	1947.22	30.10	65.82	251.36	154.89	11 26 26	1347.2	37.27	61.98
155.35	21 14 8	5491.90	30.10	255.56	251.38	154.89	22 45 40	4891.9	37.28	251.72
24.65	10 53 59	1947.22	30.10	65.82	251.36	154.89	11 26 26	1347.2	37.27	61.98
155.35	21 14 8	5491.90	30.10	255.56	251.38	154.89	22 45 40	4891.9	37.28	251.72

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.6606 TRA -.0264 TC3 -.1201 BAU .3319 SGT 609.0 SGR 4778.7 SG3 240.4 ST 585.7 SR 1600.3 SS 758.7
RDE -.8823 RRA-1.9283 RC3 .5814 FAU .01989 RRT .2192 RRF -.9982 RTF -.2539 CRT .5166 CRS .9926 CST .6164
FDE .6609 FRA 1.1051 FC3 -.4119 BSP 15182 SGB 4817.3 R23 .0325 R13 -.9983 LSA 1798.9 MSA 493.5 SSA 2.9
BDE 1.1022 BRA 1.9285 BC3 .5937 FSP -781 SG1 4780.5 SG2 593.9 THA 88.38 EL1 1631.6 EL2 491.9 ALF 78.21

LAUNCH DATE OCT 5 1965 FLIGHT TIME 164.00 ARRIVAL DATE MAR 18 1966

HELIOCENTRIC CONIC DISTANCE 445.830

RL 149.59 LAL .00 LOL 11.55 VL 27.344 GAL 2.77 AZL 98.89 HCA 196.65 SMA 129.26 ECC .16429 INC 8.8920 V1 29.787
RP 108.04 LAP 2.54 LOP 208.01 VP 37.816 GAP .33 AZP 81.48 TAL 165.69 TAP 2.34 RCA 108.03 APO 150.50 V2 35.076
RC 79.446 GL -51.68 GP 73.66 ZAL 70.26 ZAP 89.89 ETS 351.77 ZAE 112.10 ETE 96.99 ZAC 62.31 ETC 225.60 CLP -89.62

PLANETOCENTRIC CONIC

C3 28.958 VHL 5.381 DLA -63.58 RAL 347.89 RAD 6568.2 VEL 12.261 PTH 2.21 VHP 7.370 DPA 49.89 RAP 287.01 ECC 1.4766

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
30.36	10 40 12	1835.24	34.24	56.50	238.12	147.44	11 10 48	1235.2	40.86	51.23
149.64	20 34 26	5418.72	34.25	252.57	238.13	147.44	22 4 45	4818.7	40.86	247.31
30.36	10 40 12	1835.24	34.24	56.50	238.12	147.44	11 10 48	1235.2	40.86	51.23
149.64	20 34 26	5418.72	34.25	252.57	238.13	147.44	22 4 45	4818.7	40.86	247.31
30.36	10 40 12	1835.24	34.24	56.50	238.12	147.44	11 10 48	1235.2	40.86	51.23
149.64	20 34 26	5418.72	34.25	252.57	238.13	147.44	22 4 45	4818.7	40.86	247.31

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.4380 TRA .2945 TC3 -.3485 BAU .4043 SGT 924.6 SGR 4743.2 SG3 319.3 ST 512.2 SR 1460.5 SS 752.5
RDE -.4493 RRA-1.9215 RC3 .9845 FAU .03018 RRT -.7787 RRF -.9983 RTF .7623 CRT -.0921 CRS .9920 CST .0345
FDE .4933 FRA 1.4739 FC3 -.9024 BSP 15156 SGB 4832.4 R23 .0423 R13 -.9976 LSA 1641.1 MSA 517.9 SSA 3.7
BDE .6275 BRA 1.9440 BC3 1.0444 FSP -1036 SG1 4798.3 SG2 573.4 THA 98.76 EL1 1461.3 EL2 509.7 ALF 92.11

LAUNCH DATE OCT 5 1965 FLIGHT TIME 166.00 ARRIVAL DATE MAR 20 1966

HELIOCENTRIC CONIC DISTANCE 452.125

RL 149.59 LAL .00 LOL 11.55 VL 27.346 GAL 2.82 AZL 97.12 HCA 199.81 SMA 129.28 ECC .16446 INC 7.1197 V1 29.787
RP 108.08 LAP 2.41 LOP 211.22 VP 37.806 GAP .74 AZP 83.30 TAL 165.42 TAP 5.23 RCA 108.02 APO 150.54 V2 35.063
RC 81.719 GL -46.14 GP 69.12 ZAL 66.88 ZAP 92.27 ETS 359.17 ZAE 115.69 ETE 104.26 ZAC 57.96 ETC 229.06 CLP -96.37

PLANETOCENTRIC CONIC

C3 22.042 VHL 4.695 DLA -58.52 RAL 342.83 RAD 6567.9 VEL 11.976 PTH 2.13 VHP 6.396 DPA 45.22 RAP 286.74 ECC 1.3628

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
36.39	10 34 54	1741.41	35.95	46.55	226.45	139.83	11 3 56	1141.4	41.87	40.04
143.61	19 59 20	5378.07	35.96	249.88	226.47	139.82	21 28 58	4778.1	41.88	243.37
36.39	10 34 54	1741.41	35.95	46.55	226.45	139.83	11 3 56	1141.4	41.87	40.04
143.61	19 59 20	5378.07	35.96	249.88	226.47	139.82	21 28 58	4778.1	41.88	243.37
36.39	10 34 54	1741.41	35.95	46.55	226.45	139.83	11 3 56	1141.4	41.87	40.04
143.61	19 59 20	5378.07	35.96	249.88	226.47	139.82	21 28 58	4778.1	41.88	243.37

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.3387 TRA .5459 TC3 -.6754 BAU .4475 SGT 1483.4 SGR 4600.0 SG3 403.3 ST 563.6 SR 1357.3 SS 780.9
RDE -.2476 RRA-1.8867 RC3 1.3601 FAU .04035 RRT -.9246 RRF -.9981 RTF .9158 CRT -.4993 CRS .9899 CST -.3718
FDE .4150 FRA 1.8808 FC3-1.5849 BSP 15130 SGB 4833.3 R23 .0525 R13 -.9969 LSA 1587.5 MSA 499.5 SSA 4.5
BDE .4196 BRA 1.9641 BC3 1.5186 FSP -1311 SG1 4802.9 SG2 541.1 THA 106.82 EL1 1390.2 EL2 476.8 ALF 103.31

LAUNCH DATE OCT 5 1965 FLIGHT TIME 168.00 ARRIVAL DATE MAR 22 1966

HELIOCENTRIC CONIC DISTANCE 458.411

RL 149.59 LAL .00 LOL 11.55 VL 27.346 GAL 2.88 AZL 95.82 HCA 202.99 SMA 129.27 ECC .16481 INC 5.8208 V1 29.787
RP 108.12 LAP 2.27 LOP 214.43 VP 37.793 GAP 1.14 AZP 84.64 TAL 165.11 TAP 8.10 RCA 107.97 APO 150.58 V2 35.050
RC 84.008 GL -40.74 GP 64.84 ZAL 63.79 ZAP 95.19 ETS 5.13 ZAE 118.71 ETE 110.72 ZAC 53.80 ETC 231.31 CLP-102.29

PLANETOCENTRIC CONIC

C3 18.009 VHL 4.244 DLA -53.47 RAL 339.07 RAD 6567.7 VEL 11.806 PTH 2.09 VHP 5.727 DPA 40.82 RAP 286.24 ECC 1.2964

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
42.54	10 36 54	1658.40	35.84	36.67	216.72	132.76	11 4 32	1058.4	41.03	29.30
137.46	19 27 24	5364.99	35.85	248.21	216.74	132.75	20 56 49	4765.0	41.04	240.84
42.54	10 36 54	1658.40	35.84	36.67	216.72	132.76	11 4 32	1058.4	41.03	29.30
137.46	19 27 24	5364.99	35.85	248.21	216.74	132.75	20 56 49	4765.0	41.04	240.84
42.54	10 36 54	1658.40	35.84	36.67	216.72	132.76	11 4 32	1058.4	41.03	29.30
137.46	19 27 24	5364.99	35.85	248.21	216.74	132.75	20 56 49	4765.0	41.04	240.84

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.2682 TRA .7705 TC3-1.0780 BAU .4772 SGT 2005.6 SGR 4392.2 SG3 486.6 ST 637.8 SR 1267.7 SS 824.3
RDE -.1709 RRA-1.8307 RC3 1.6634 FAU .05003 RRT -.9610 RRF -.9978 RTF .9546 CRT -.7060 CRS .9866 CST -.5812
FDE .4193 FRA 2.3003 FC3-2.4048 BSP 15121 SGB 4828.5 R23 .0625 R13 -.9960 LSA 1573.3 MSA 467.0 SSA 5.3
BDE .3180 BRA 1.9862 BC3 1.9622 FSP -1592 SG1 4801.8 SG2 507.2 THA 113.98 EL1 1354.7 EL2 422.7 ALF 111.78

LAUNCH DATE OCT 5 1965 FLIGHT TIME 170.00 ARRIVAL DATE MAR 24 1966

HELIOCENTRIC CONIC DISTANCE 464.683

RL 149.59 LAL .00 LOL 11.55 VL 27.343 GAL 2.96 AZL 94.82 HCA 206.17 SMA 129.26 ECC .16536 INC 4.8233 V1 29.787
RP 108.16 LAP 2.13 LOP 217.64 VP 37.779 GAP 1.55 AZP 85.67 TAL 164.76 TAP 10.93 RCA 107.88 APO 150.63 V2 35.036
RC 86.309 GL -35.62 GP 60.73 ZAL 61.01 ZAP 98.55 ETS 10.09 ZAE 121.20 ETE 116.78 ZAC 49.78 ETC 232.78 CLP-107.69

PLANETOCENTRIC CONIC

C3 15.540 VHL 3.942 DLA -48.60 RAL 336.29 RAD 6567.6 VEL 11.701 PTH 2.06 VHP 5.260 DPA 36.62 RAP 285.62 ECC 1.2558

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
48.69	10 45 5	1579.83	34.52	27.17	208.95	126.62	11 11 25	979.8	39.02	19.32
131.31	18 56 59	5375.87	34.54	248.01	208.96	126.61	20 26 35	4775.9	39.03	240.15
48.69	10 45 5	1579.83	34.52	27.17	208.95	126.62	11 11 25	979.8	39.02	19.32
131.31	18 56 59	5375.87	34.54	248.01	208.96	126.61	20 26 35	4775.9	39.03	240.15
48.69	10 45 5	1579.83	34.52	27.17	208.95	126.62	11 11 25	979.8	39.02	19.32
131.31	18 56 59	5375.87	34.54	248.01	208.96	126.61	20 26 35	4775.9	39.03	240.15

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.1977 TRA .9809 TC3-1.5230 BAU .5005 SGT 2484.5 SGR 4143.5 SG3 564.3 ST 708.7 SR 1182.3 SS 875.3
RDE -.1541 RRA-1.7593 RC3 1.8666 FAU .05872 RRT -.9752 RRF -.9975 RTF .9698 CRT -.8206 CRS .9822 CST -.6986
FDE .4911 FRA 2.7106 FC3-3.2713 BSP 15129 SGB 4831.3 R23 .0715 R13 -.9950 LSA 1574.5 MSA 432.7 SSA 6.2
BDE .2507 BRA 2.0143 BC3 2.4091 FSP -1857 SG1 4808.1 SG2 473.4 THA 120.65 EL1 1330.6 EL2 359.9 ALF 118.46

LAUNCH DATE OCT 5 1965 FLIGHT TIME 172.00 ARRIVAL DATE MAR 26 1966

HELIOCENTRIC CONIC DISTANCE 470.939

RL 149.59 LAL .00 LOL 11.55 VL 27.339 GAL 3.05 AZL 94.03 HCA 209.36 SMA 129.23 ECC .16609 INC 4.0292 V1 29.787
RP 108.20 LAP 1.97 LOP 220.84 VP 37.763 GAP 1.94 AZP 86.49 TAL 164.37 TAP 13.73 RCA 107.76 APO 150.69 V2 35.023
RC 88.623 GL -30.85 GP 56.77 ZAL 58.54 ZAP 102.21 ETS 14.27 ZAE 123.19 ETE 122.58 ZAC 45.92 ETC 233.60 CLP-112.70

PLANETOCENTRIC CONIC

C3 13.995 VHL 3.741 DLA -43.99 RAL 334.22 RAD 6567.6 VEL 11.635 PTH 2.04 VHP 4.932 DPA 32.58 RAP 284.98 ECC 1.2303

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
54.81	10 59 2	1499.96	32.49	17.99	202.93	121.47	11 24 2	900.0	36.39	9.93
125.19	18 26 32	5409.07	32.50	249.49	202.94	121.46	19 56 41	4809.1	36.40	241.42
54.81	10 59 2	1499.96	32.49	17.99	202.93	121.47	11 24 2	900.0	36.39	9.93
125.19	18 26 32	5409.07	32.50	249.49	202.94	121.46	19 56 41	4809.1	36.40	241.42
54.81	10 59 2	1499.96	32.49	17.99	202.93	121.47	11 24 2	900.0	36.39	9.93
125.19	18 26 32	5409.07	32.50	249.49	202.94	121.46	19 56 41	4809.1	36.40	241.42

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.1189 TRA 1.1815 TC3-1.9748 BAU .5210 SGT 2922.9 SGR 3867.3 SG3 631.9 ST 777.5 SR 1100.3 SS 932.2
RDE -.1631 RRA-1.6764 RC3 1.9631 FAU .06601 RRT -.9821 RRF -.9970 RTF .9772 CRT -.8935 CRS .9769 CST -.7771
FDE .6139 FRA 3.0896 FC3-4.0835 BSP 15173 SGB 4847.7 R23 .0786 R13 -.9939 LSA 1588.8 MSA 399.9 SSA 7.3
BDE .2018 BRA 2.0509 BC3 2.7845 FSP -2093 SG1 4827.6 SG2 441.0 THA 126.95 EL1 1315.2 EL2 292.1 ALF 124.19

LAUNCH DATE OCT 5 1965 FLIGHT TIME 174.00 ARRIVAL DATE MAR 28 1966

HELIOCENTRIC CONIC DISTANCE 477.175

RL 149.59 LAL .00 LOL 11.55 VL 27.332 GAL 3.15 AZL 93.38 HCA 212.54 SMA 129.18 ECC .16702 INC 3.3786 V1 29.787
RP 108.24 LAP 1.82 LOP 224.05 VP 37.747 GAP 2.34 AZP 87.15 TAL 163.94 TAP 16.48 RCA 107.61 APO 150.76 V2 35.010
RC 90.946 GL -26.45 GP 52.95 ZAL 56.35 ZAP 106.07 ETS 17.76 ZAE 124.71 ETE 128.12 ZAC 42.23 ETC 233.81 CLP-117.35

PLANETOCENTRIC CONIC

C3 13.035 VHL 3.610 DLA -39.70 RAL 332.68 RAD 6567.5 VEL 11.594 PTH 2.03 VHP 4.707 DPA 28.72 RAP 284.39 ECC 1.2145

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
60.93	11 19 1	1412.77	30.09	8.82	198.40	117.22	11 42 33	812.8	33.47	.70
119.07	17 54 17	5465.30	30.10	252.80	198.41	117.20	19 25 22	4865.3	33.48	244.69
60.93	11 19 1	1412.77	30.09	8.82	198.40	117.22	11 42 33	812.8	33.47	.70
119.07	17 54 17	5465.30	30.10	252.80	198.41	117.20	19 25 22	4865.3	33.48	244.69
60.93	11 19 1	1412.77	30.09	8.82	198.40	117.22	11 42 33	812.8	33.47	.70
119.07	17 54 17	5465.30	30.10	252.80	198.41	117.20	19 25 22	4865.3	33.48	244.69

DIFFERENTIAL CORRECTIONS
TDE -.0290 TRA 1.3753 TC3-2.3997 BAU .5398
RDE -.1807 RRA-1.5878 RC3 1.9588 FAU .07145
FDE .7719 FRA 3.4241 FC3-4.7458 BSP 15223
BDE .1830 BRA 2.1006 BC3 3.0977 FSP -2280

MID-COURSE EXECUTION ACCURACY
SGT 3324.2 SGR 3578.6 SG3 686.4
RRT -.9857 RRF -.9963 RTF .9812
SGB 4884.3 R23 .0829 R13 -.9928
SG1 4867.0 SG2 411.4 THA 132.86

ORBIT DETERMINATION ACCURACY
ST 853.8 SR 1024.3 SS 996.2
CRT -.9434 CRS .9713 CST -.8377
LSA 1623.0 MSA 368.9 SSA 8.4
EL1 1315.1 EL2 220.5 ALF 129.51

LAUNCH DATE OCT 5 1965 FLIGHT TIME 176.00 ARRIVAL DATE MAR 30 1966

HELIOCENTRIC CONIC DISTANCE 483.391

RL 149.59 LAL .00 LOL 11.55 VL 27.324 GAL 3.27 AZL 92.83 HCA 215.73 SMA 129.13 ECC .16813 INC 2.8329 V1 29.787
RP 108.29 LAP 1.65 LOP 227.24 VP 37.729 GAP 2.73 AZP 87.70 TAL 163.46 TAP 19.19 RCA 107.42 APO 150.84 V2 34.996
RC 93.279 GL -22.45 GP 49.31 ZAL 54.42 ZAP 110.02 ETS 20.67 ZAE 125.78 ETE 133.35 ZAC 38.77 ETC 233.40 CLP-121.67

PLANETOCENTRIC CONIC

C3 12.469 VHL 3.531 DLA -35.72 RAL 331.55 RAD 6567.5 VEL 11.570 PTH 2.02 VHP 4.561 DPA 25.03 RAP 283.90 ECC 1.2052

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
67.25	11 46 36	1309.65	27.54	359.00	195.07	113.71	12 8 25	709.6	30.49	350.91
112.75	17 17 40	5549.40	27.55	258.30	195.07	113.70	18 50 9	4949.4	30.50	250.21
67.25	11 46 36	1309.65	27.54	359.00	195.07	113.71	12 8 25	709.6	30.49	350.91
112.75	17 17 40	5549.40	27.55	258.30	195.07	113.70	18 50 9	4949.4	30.50	250.21
67.25	11 46 36	1309.65	27.54	359.00	195.07	113.71	12 8 25	709.6	30.49	350.91
112.75	17 17 40	5549.40	27.55	258.30	195.07	113.70	18 50 9	4949.4	30.50	250.21

DIFFERENTIAL CORRECTIONS
TDE .0692 TRA 1.5608 TC3-2.7809 BAU .5601
RDE -.1945 RRA-1.4936 RC3 1.8858 FAU .07529
FDE .9404 FRA 3.6940 FC3-5.2275 BSP 15389
BDE .2064 BRA 2.1603 BC3 3.3600 FSP -2426

MID-COURSE EXECUTION ACCURACY
SGT 3687.9 SGR 3283.9 SG3 725.3
RRT -.9878 RRF -.9953 RTF .9837
SGB 4938.1 R23 .0834 R13 -.9918
SG1 4923.2 SG2 383.2 THA 138.36

ORBIT DETERMINATION ACCURACY
ST 944.4 SR 950.3 SS 1060.8
CRT -.9759 CRS .9653 CST -.8853
LSA 1674.7 MSA 340.1 SSA 9.5
EL1 1331.7 EL2 147.1 ALF 134.82

LAUNCH DATE OCT 5 1965 FLIGHT TIME 178.00 ARRIVAL DATE APR 1 1966

HELIOCENTRIC CONIC DISTANCE 489.586

RL 149.59 LAL .00 LOL 11.55 VL 27.315 GAL 3.39 AZL 92.37 HCA 218.91 SMA 129.06 ECC .16943 INC 2.3658 V1 29.787
RP 108.33 LAP 1.49 LOP 230.44 VP 37.710 GAP 3.12 AZP 88.16 TAL 162.95 TAP 21.86 RCA 107.20 APO 150.93 V2 34.983
RC 95.621 GL -18.81 GP 45.84 ZAL 52.71 ZAP 113.96 ETS 23.08 ZAE 126.46 ETE 138.21 ZAC 35.57 ETC 232.33 CLP-125.66

PLANETOCENTRIC CONIC

C3 12.185 VHL 3.491 DLA -32.08 RAL 330.74 RAD 6567.5 VEL 11.557 PTH 2.02 VHP 4.477 DPA 21.54 RAP 283.55 ECC 1.2005

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
74.26	12 26 16	1173.39	24.99	347.24	192.69	110.80	12 45 50	573.4	27.59	339.22
105.74	16 31 30	5675.87	25.00	266.96	192.69	110.79	18 6 6	5075.9	27.60	258.94
74.26	12 26 16	1173.39	24.99	347.24	192.69	110.80	12 45 50	573.4	27.59	339.22
105.74	16 31 30	5675.87	25.00	266.96	192.69	110.79	18 6 6	5075.9	27.60	258.94
110.00	15 28 6	5872.45	18.14	278.58	189.24	119.48	17 5 59	5272.4	21.93	271.49
110.00	18 28 50	5312.85	32.25	241.49	195.12	102.01	19 57 23	4712.9	33.56	232.51

DIFFERENTIAL CORRECTIONS
TDE .1748 TRA 1.7406 TC3-3.1012 BAU .5809
RDE -.2020 RRA-1.3997 RC3 1.7600 FAU .07731
FDE 1.1064 FRA 3.8992 FC3-5.4927 BSP 15625
BDE .2671 BRA 2.2336 BC3 3.5658 FSP -2522

MID-COURSE EXECUTION ACCURACY
SGT 4017.3 SGR 2995.2 SG3 748.5
RRT -.9888 RRF -.9940 RTF .9853
SGB 5011.0 R23 .0797 R13 -.9910
SG1 4998.1 SG2 359.7 THA 143.38

ORBIT DETERMINATION ACCURACY
ST 1053.5 SR 879.2 SS 1124.1
CRT -.9937 CRS .9587 CST -.9213
LSA 1745.7 MSA 314.5 SSA 10.7
EL1 1370.0 EL2 75.8 ALF 140.18

LAUNCH DATE OCT 5 1965 FLIGHT TIME 180.00 ARRIVAL DATE APR 3 1966

HELIOCENTRIC CONIC DISTANCE 495.758

RL 149.59 LAL .00 LOL 11.55 VL 27.304 GAL 3.53 AZL 91.96 HCA 222.10 SMA 128.99 ECC .17091 INC 1.9593 V1 29.787
RP 108.37 LAP 1.31 LOP 233.63 VP 37.690 GAP 3.51 AZP 88.55 TAL 162.39 TAP 24.49 RCA 106.94 APO 151.03 V2 34.970
RC 97.969 GL -15.53 GP 42.59 ZAL 51.18 ZAP 117.83 ETS 25.06 ZAE 126.78 ETE 142.66 ZAC 32.68 ETC 230.59 CLP-129.36

PLANETOCENTRIC CONIC

C3 12.113 VHL 3.480 DLA -28.74 RAL 330.18 RAD 6567.5 VEL 11.554 PTH 2.02 VHP 4.443 DPA 18.27 RAP 283.36 ECC 1.1993

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
84.84	13 43 36	918.72	22.51	327.30	191.07	108.36	13 58 54	318.7	24.81	319.35
95.16	15 9 42	639.98	22.53	306.89	191.07	108.34	15 20 22	40.0	24.82	298.93
100.00	14 38 31	740.46	17.69	312.27	189.05	114.49	14 50 51	140.5	20.85	304.90
100.00	16 57 28	5581.51	27.52	260.73	192.57	102.15	18 30 30	4981.5	28.92	252.20
110.00	14 32 4	760.70	11.97	310.60	185.85	122.26	14 44 45	160.7	16.14	303.98
110.00	19 20 24	5134.04	33.96	227.84	193.64	94.11	20 45 58	4534.0	34.16	218.60

DIFFERENTIAL CORRECTIONS
TDE .2862 TRA 1.9160 TC3-3.3556 BAU .6023
RDE -.2028 RRA-1.3091 RC3 1.6039 FAU .07768
FDE 1.2604 FRA 4.0413 FC3-5.5519 BSP 15922
BDE .3508 BRA 2.3205 BC3 3.7192 FSP -2571

MID-COURSE EXECUTION ACCURACY
SGT 4315.2 SGR 2720.2 SG3 757.3
RRT -.9889 RRF -.9923 RTF .9863
SGB 5101.0 R23 .0724 R13 -.9903
SG1 5089.5 SG2 342.6 THA 147.90

ORBIT DETERMINATION ACCURACY
ST 1179.8 SR 810.2 SS 1183.2
CRT -.9997 CRS .9512 CST -.9468
LSA 1833.6 MSA 293.4 SSA 11.7
EL1 1431.1 EL2 15.1 ALF 145.52

LAUNCH DATE OCT 5 1965 FLIGHT TIME 182.00 ARRIVAL DATE APR 5 1966

HELIOCENTRIC CONIC DISTANCE 501.908

RL 149.59 LAL .00 LOL 11.55 VL 27.292 GAL 3.69 AZL 91.60 HCA 225.28 SMA 128.90 ECC .17259 INC 1.6003 V1 29.787
RP 108.41 LAP 1.14 LOP 236.82 VP 37.669 GAP 3.89 AZP 88.87 TAL 161.79 TAP 27.07 RCA 106.66 APO 151.15 V2 34.957
RC 100.323 GL -12.57 GP 39.56 ZAL 49.80 ZAP 121.58 ETS 26.70 ZAE 126.83 ETE 146.67 ZAC 30.15 ETC 228.16 CLP-132.78

PLANETOCENTRIC CONIC

C3 12.208 VHL 3.494 DLA -25.70 RAL 329.82 RAD 6567.5 VEL 11.558 PTH 2.02 VHP 4.450 DPA 15.23 RAP 283.34 ECC 1.2009

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 38 40	1131.99	13.20	338.92	187.30	115.28	12 57 32	532.0	16.50	331.79
90.00	16 11 47	5718.08	27.48	270.74	191.71	97.13	17 47 5	5118.1	28.18	262.15
100.00	13 34 21	952.18	11.30	324.74	186.33	117.86	13 50 14	352.2	14.94	317.84
100.00	17 58 47	5373.12	29.59	245.60	191.95	94.47	19 28 20	4773.1	29.89	236.81
110.00	13 55 49	884.83	7.37	317.28	183.96	123.47	14 10 34	284.8	11.72	310.89
110.00	19 53 49	5013.23	34.16	218.41	192.09	88.54	21 17 22	4413.2	33.58	209.22

DIFFERENTIAL CORRECTIONS
TOE .4026 TRA 2.0883 TC3-3.5424 BAU .6237
RDE -.1977 RRA-1.2237 RC3 1.4336 FAU .07656
FOE 1.3968 FRA 4.1263 FC3-5.4295 BSP 16265
BDE .4486 BRA 2.4204 BC3 3.8215 FSP -2575

MID-COURSE EXECUTION ACCURACY
SGT 4583.3 SGR 2463.4 SG3 753.4
RRT -.9882 RRF -.9901 RTF .9869
SGB 5203.4 R23 .0627 R13 -.9897
SG1 5192.8 SG2 332.8 THA 151.90

ORBIT DETERMINATION ACCURACY
ST 1319.6 SR 743.2 SS 1235.9
CRT -.9972 CRS .9422 CST -.9640
LSA 1935.0 MSA 277.2 SSA 12.5
EL1 1513.7 EL2 48.4 ALF 150.65

LAUNCH DATE OCT 5 1965 FLIGHT TIME 184.00 ARRIVAL DATE APR 7 1966

HELIOCENTRIC CONIC DISTANCE 508.034

RL 149.59 LAL .00 LOL 11.55 VL 27.278 GAL 3.86 AZL 91.28 HCA 228.47 SMA 128.81 ECC .17446 INC 1.2789 V1 29.787
RP 108.44 LAP .96 LOP 240.01 VP 37.647 GAP 4.28 AZP 89.15 TAL 161.15 TAP 29.62 RCA 106.34 APO 151.28 V2 34.945
RC 102.682 GL -9.92 GP 36.76 ZAL 48.55 ZAP 125.16 ETS 28.06 ZAE 126.66 ETE 150.22 ZAC 28.00 ETC 225.04 CLP-135.95

PLANETOCENTRIC CONIC

C3 12.444 VHL 3.528 DLA -22.93 RAL 329.63 RAD 6567.5 VEL 11.569 PTH 2.02 VHP 4.491 DPA 12.44 RAP 283.51 ECC 1.2048

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 51 49	1296.01	8.25	348.42	185.74	117.18	12 13 25	696.0	11.83	341.58
90.00	16 57 10	5562.19	28.28	259.42	191.11	91.52	18 29 52	4962.2	28.19	250.75
100.00	12 55 49	1089.42	6.84	332.48	184.98	119.17	13 13 58	489.4	10.67	325.79
100.00	18 35 50	5244.02	29.89	236.02	191.12	89.44	20 3 14	4644.0	29.49	227.24
110.00	13 28 44	986.22	3.54	322.62	182.94	124.02	13 45 10	386.2	7.98	316.35
110.00	20 19 25	4919.98	33.76	211.16	190.87	84.27	21 41 25	4320.0	32.60	202.12

DIFFERENTIAL CORRECTIONS
TOE .5250 TRA 2.2613 TC3-3.6599 BAU .6439
RDE -.1886 RRA-1.1463 RC3 1.2593 FAU .07406
FOE 1.5160 FRA 4.1676 FC3-5.1526 BSP 16590
BDE .5578 BRA 2.5352 BC3 3.8705 FSP -2534

MID-COURSE EXECUTION ACCURACY
SGT 4826.7 SGR 2229.3 SG3 739.7
RRT -.9867 RRF -.9872 RTF .9872
SGB 5316.7 R23 .0526 R13 -.9891
SG1 5306.4 SG2 329.9 THA 155.40

ORBIT DETERMINATION ACCURACY
ST 1471.1 SR 680.0 SS 1283.1
CRT -.9885 CRS .9314 CST -.9755
LSA 2050.0 MSA 265.2 SSA 13.2
EL1 1618.0 EL2 93.5 ALF 155.36

LAUNCH DATE OCT 5 1965 FLIGHT TIME 186.00 ARRIVAL DATE APR 9 1966

HELIOCENTRIC CONIC DISTANCE 514.136

RL 149.59 LAL .00 LOL 11.55 VL 27.263 GAL 4.05 AZL 90.99 HCA 231.65 SMA 128.71 ECC .17652 INC .9880 V1 29.787
RP 108.48 LAP .77 LOP 243.19 VP 37.625 GAP 4.67 AZP 89.39 TAL 160.48 TAP 32.13 RCA 105.99 APO 151.43 V2 34.932
RC 105.043 GL -7.53 GP 34.18 ZAL 47.39 ZAP 128.55 ETS 29.21 ZAE 126.32 ETE 153.35 ZAC 26.27 ETC 221.28 CLP-138.89

PLANETOCENTRIC CONIC

C3 12.803 VHL 3.578 DLA -20.40 RAL 329.59 RAD 6567.5 VEL 11.584 PTH 2.03 VHP 4.560 DPA 9.88 RAP 283.85 ECC 1.2107

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 19 24	1418.42	4.39	355.34	185.05	118.00	11 43 3	818.4	8.10	348.63
90.00	17 29 12	5451.94	28.21	251.36	190.62	87.48	19 0 4	4851.9	27.57	242.75
100.00	12 27 27	1198.84	3.17	338.53	184.37	119.74	12 47 26	598.8	7.10	331.95
100.00	18 3 51	5146.76	29.60	228.81	190.52	85.65	20 29 37	4546.8	28.69	220.13
110.00	13 7 19	1073.87	.19	327.19	182.51	124.18	13 25 13	473.9	4.67	320.98
110.00	20 40 27	4844.50	33.09	205.37	190.04	80.90	22 1 12	4244.5	31.48	196.52

DIFFERENTIAL CORRECTIONS
TOE .6483 TRA 2.4315 TC3-3.7274 BAU .6652
RDE -.1739 RRA-1.0746 RC3 1.0994 FAU .07100
FOE 1.6067 FRA 4.1640 FC3-4.8009 BSP 16999
BDE .6712 BRA 2.6584 BC3 3.8861 FSP -2476

MID-COURSE EXECUTION ACCURACY
SGT 5044.7 SGR 2016.7 SG3 717.9
RRT -.9843 RRF -.9835 RTF .9874
SGB 5432.9 R23 .0419 R13 -.9887
SG1 5422.8 SG2 330.9 THA 158.44

ORBIT DETERMINATION ACCURACY
ST 1623.9 SR 617.6 SS 1317.7
CRT -.9745 CRS .9171 CST -.9830
LSA 2165.3 MSA 256.8 SSA 13.7
EL1 1732.5 EL2 130.0 ALF 159.54

LAUNCH DATE OCT 5 1965 FLIGHT TIME 188.00 ARRIVAL DATE APR 11 1966

HELIOCENTRIC CONIC DISTANCE 520.213

RL 149.59 LAL .00 LOL 11.55 VL 27.248 GAL 4.25 AZL 90.72 HCA 234.83 SMA 128.60 ECC .17880 INC .7218 V1 29.787
RP 108.52 LAP .59 LOP 246.37 VP 37.602 GAP 5.06 AZP 89.58 TAL 159.77 TAP 34.60 RCA 105.61 APO 151.60 V2 34.920
RC 107.406 GL -5.39 GP 31.84 ZAL 46.31 ZAP 131.75 ETS 30.20 ZAE 125.87 ETE 156.07 ZAC 24.96 ETC 216.98 CLP-141.61

PLANETOCENTRIC CONIC

C3 13.275 VHL 3.644 DLA -18.10 RAL 329.66 RAD 6567.5 VEL 11.604 PTH 2.03 VHP 4.655 DPA 7.55 RAP 284.36 ECC 1.2185

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 54 30	1520.13	1.12	1.03	184.92	118.30	11 19 50	920.1	4.89	354.38
90.00	17 54 41	5365.85	27.80	245.09	190.38	84.37	19 24 7	4765.9	26.72	236.59
100.00	12 5 6	1292.29	.00	343.66	184.29	119.89	12 26 38	692.3	3.98	337.13
100.00	19 26 46	5068.92	29.06	223.09	190.22	82.69	20 51 14	4468.9	27.75	214.53
110.00	12 49 53	1151.99	-2.80	331.27	182.54	124.08	13 9 5	552.0	1.69	325.07
110.00	20 58 28	4781.99	32.32	200.66	189.58	78.21	22 18 10	4182.0	30.36	191.99

DIFFERENTIAL CORRECTIONS
TOE .7740 TRA 2.6028 TC3-3.7453 BAU .6859
RDE -.1562 RRA-1.0104 RC3 .9527 FAU .06733
FOE 1.6756 FRA 4.1307 FC3-4.3906 BSP 17420
BDE .7896 BRA 2.7920 BC3 3.8646 FSP -2397

MID-COURSE EXECUTION ACCURACY
SGT 5241.3 SGR 1826.6 SG3 690.5
RRT -.9810 RRF -.9789 RTF .9874
SGB 5550.5 R23 .0325 R13 -.9883
SG1 5540.3 SG2 335.7 THA 161.05

ORBIT DETERMINATION ACCURACY
ST 1776.8 SR 558.7 SS 1343.2
CRT -.9553 CRS .8987 CST -.9880
LSA 2282.6 MSA 251.2 SSA 14.0
EL1 1855.8 EL2 158.2 ALF 163.15

LAUNCH DATE OCT 5 1965 FLIGHT TIME 190.00 ARRIVAL DATE APR 13 1966

HELIOCENTRIC CONIC DISTANCE 526.264

RL 149.59 LAL .00 LOL 11.55 VL 27.231 GAL 4.47 AZL 90.48 HCA 238.01 SMA 128.49 ECC .18128 INC .4756 V1 29.787
RP 108.56 LAP .40 LOP 249.55 VP 37.579 GAP 5.45 AZP 89.75 TAL 159.02 TAP 37.03 RCA 105.20 APO 151.78 V2 34.909
RC 109.770 GL -3.47 GP 29.70 ZAL 45.29 ZAP 134.76 ETS 31.08 ZAE 125.35 ETE 158.43 ZAC 24.08 ETC 212.30 CLP-144.15

PLANETOCENTRIC CONIC

C3 13.855 VHL 3.722 DLA -15.99 RAL 329.83 RAD 6567.5 VEL 11.629 PTH 2.04 VHP 4.771 DPA 5.45 RAP 285.04 ECC 1.2280

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 34 26	1608.72	-1.74	5.97	185.20	118.27	11 1 15	1008.7	2.05	359.34
90.00	18 16 7	5295.86	27.23	240.05	190.42	81.90	19 44 23	4695.9	25.82	231.66
100.00	11 46 53	1374.97	-2.80	348.20	184.61	119.77	12 9 48	775.0	1.19	341.68
100.00	19 46 21	5004.87	28.42	218.44	190.21	80.32	21 9 46	4404.9	26.79	210.01
110.00	12 35 24	1222.98	-5.50	334.99	182.94	123.79	12 55 47	623.0	-1.02	328.77
110.00	21 14 19	4729.63	31.53	196.78	189.46	76.05	22 33 9	4129.6	29.29	188.29

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE .9026 TRA 2.7764 TC3-3.7180 BAU .7053 SGT 5418.0 SGR 1657.6 SG3 659.6 ST 1927.6 SR 504.2 SS 1360.5
RDE -.1365 RRA -.9533 RC3 .8206 FAU .06320 RRT -.9764 RRF -.9732 RTF .9873 CRT -.9303 CRS .8750 CST -.9915
FDE 1.7255 FRA 4.0755 FC3-3.9493 BSP 17837 SGB 5665.9 R23 .0245 R13 -.9879 LSA 2399.9 MSA 247.6 SSA 14.1
BDE .9128 BRA 2.9355 BC3 3.8075 FSP -2304 SG1 5655.6 SG2 342.8 THA 163.30 EL1 1984.4 EL2 179.6 ALF 166.21

LAUNCH DATE OCT 5 1965 FLIGHT TIME 192.00 ARRIVAL DATE APR 15 1966

HELIOCENTRIC CONIC DISTANCE 532.289

RL 149.59 LAL .00 LOL 11.55 VL 27.213 GAL 4.70 AZL 90.25 HCA 241.18 SMA 128.37 ECC .18399 INC .2459 V1 29.787
RP 108.59 LAP .22 LOP 252.73 VP 37.556 GAP 5.84 AZP 89.88 TAL 158.25 TAP 39.43 RCA 104.75 APO 151.99 V2 34.897
RC 112.133 GL -1.75 GP 27.76 ZAL 44.31 ZAP 137.57 ETS 31.88 ZAE 124.79 ETE 160.46 ZAC 23.61 ETC 207.45 CLP-146.52

PLANETOCENTRIC CONIC

C3 14.541 VHL 3.813 DLA -14.07 RAL 330.09 RAD 6567.6 VEL 11.659 PTH 2.05 VHP 4.905 DPA 3.56 RAP 285.87 ECC 1.2393

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 17 50	1688.13	-4.29	10.41	185.81	118.02	10 45 58	1088.1	-.51	3.77
90.00	18 34 45	5237.82	26.60	235.92	190.72	79.92	20 2 3	4637.8	24.94	227.64
100.00	11 31 43	1449.75	-5.32	352.32	185.25	119.46	11 55 53	849.8	-1.35	345.78
100.00	20 3 33	4951.42	27.75	214.61	190.47	78.41	21 26 5	4351.4	25.87	206.31
110.00	12 23 14	1288.38	-7.96	338.46	183.62	123.35	12 44 43	688.4	-3.52	332.19
110.00	21 28 31	4685.56	30.76	193.58	189.63	74.29	22 46 37	4085.6	28.30	185.24

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE 1.0335 TRA 2.9539 TC3-3.6547 BAU .7236 SGT 5578.1 SGR 1508.8 SG3 626.9 ST 2074.3 SR 454.5 SS 1370.4
RDE -.1155 RRA -.9033 RC3 .7045 FAU .05888 RRT -.9706 RRF -.9663 RTF .9871 CRT -.8984 CRS .8446 CST -.9938
FDE 1.7587 FRA 4.0064 FC3-3.5055 BSP 18239 SGB 5778.6 R23 .0182 R13 -.9875 LSA 2515.3 MSA 245.3 SSA 14.2
BDE 1.0399 BRA 3.0889 BC3 3.7220 FSP -2200 SG1 5767.9 SG2 351.2 THA 165.23 EL1 2114.4 EL2 195.8 ALF 168.77

LAUNCH DATE OCT 5 1965 FLIGHT TIME 194.00 ARRIVAL DATE APR 17 1966

HELIOCENTRIC CONIC DISTANCE 538.285

RL 149.59 LAL .00 LOL 11.55 VL 27.195 GAL 4.95 AZL 90.03 HCA 244.36 SMA 128.25 ECC .18694 INC .0280 V1 29.787
RP 108.63 LAP .03 LOP 255.91 VP 37.532 GAP 6.24 AZP 89.99 TAL 157.44 TAP 41.80 RCA 104.27 APO 152.22 V2 34.886
RC 114.493 GL -.21 GP 26.01 ZAL 43.38 ZAP 140.20 ETS 32.65 ZAE 124.21 ETE 162.21 ZAC 23.54 ETC 202.63 CLP-148.74

PLANETOCENTRIC CONIC

C3 15.336 VHL 3.916 DLA -12.31 RAL 330.42 RAD 6567.6 VEL 11.693 PTH 2.06 VHP 5.057 DPA 1.87 RAP 286.85 ECC 1.2524

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 3 53	1760.52	-6.59	14.49	186.69	117.60	10 33 14	1160.5	-2.84	7.81
90.00	18 51 19	5189.20	25.98	232.50	191.24	78.31	20 17 48	4589.2	24.10	224.33
100.00	11 18 55	1518.43	-7.60	356.14	186.14	119.00	11 44 14	918.4	-3.67	349.55
100.00	20 18 58	4906.52	27.09	211.43	190.97	76.86	21 40 45	4306.5	25.01	203.25
110.00	12 12 56	1349.27	-10.22	341.72	184.56	122.80	12 35 25	749.3	-5.83	335.38
110.00	21 41 27	4648.45	30.04	190.92	190.06	72.87	22 58 55	4048.4	27.41	182.73

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE 1.1692 TRA 3.1382 TC3-3.5558 BAU .7394 SGT 5724.3 SGR 1378.5 SG3 593.7 ST 2218.3 SR 410.7 SS 1376.4
RDE -.0945 RRA -.8602 RC3 .6015 FAU .05429 RRT -.9634 RRF -.9580 RTF .9867 CRT -.8589 CRS .8070 CST -.9955
FDE 1.7821 FRA 3.9314 FC3-3.0650 BSP 18576 SGB 5888.0 R23 .0136 R13 -.9870 LSA 2631.4 MSA 243.8 SSA 14.3
BDE 1.1730 BRA 3.2540 BC3 3.6063 FSP -2083 SG1 5877.0 SG2 360.0 THA 166.89 EL1 2246.4 EL2 207.7 ALF 170.89

LAUNCH DATE OCT 5 1965 FLIGHT TIME 196.00 ARRIVAL DATE APR 19 1966

HELIOCENTRIC CONIC DISTANCE 544.251

RL 149.59 LAL .00 LOL 11.55 VL 27.175 GAL 5.22 AZL 89.83 HCA 247.53 SMA 128.12 ECC .19012 INC .1733 V1 29.787
RP 108.66 LAP -.16 LOP 259.08 VP 37.508 GAP 6.65 AZP 90.07 TAL 156.61 TAP 44.14 RCA 103.76 APO 152.48 V2 34.875
RC 116.852 GL 1.17 GP 24.43 ZAL 42.47 ZAP 142.65 ETS 33.41 ZAE 123.63 ETE 163.72 ZAC 23.81 ETC 198.02 CLP-150.83

PLANETOCENTRIC CONIC

C3 16.243 VHL 4.030 DLA -10.70 RAL 330.80 RAD 6567.7 VEL 11.731 PTH 2.07 VHP 5.224 DPA .37 RAP 287.95 ECC 1.2673

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 52 1	1827.41	-8.68	18.29	187.80	117.06	10 22 29	1227.4	-4.99	11.56
90.00	19 6 17	5148.34	25.38	229.65	191.98	77.01	20 32 5	4548.3	23.34	221.58
100.00	11 8 2	1582.21	-9.69	359.73	187.26	118.42	11 34 24	982.2	-5.81	353.08
100.00	20 32 58	4868.78	26.48	208.79	191.68	75.60	21 54 7	4268.8	24.24	200.71
110.00	12 4 10	1406.43	-12.31	344.83	185.70	122.14	12 27 36	806.4	-7.98	338.41
110.00	21 53 19	4617.32	29.40	188.73	190.71	71.72	23 10 17	4017.3	26.62	180.65

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE 1.3042 TRA 3.3251 TC3-3.4405 BAU .7554 SGT 5854.2 SGR 1263.4 SG3 560.3 ST 2351.1 SR 371.3 SS 1373.8
RDE -.0721 RRA -.8217 RC3 .5152 FAU .04998 RRT -.9546 RRF -.9482 RTF .9863 CRT -.8085 CRS .7584 CST -.9967
FDE 1.7894 FRA 3.8467 FC3-2.6638 BSP 18959 SGB 5989.0 R23 .0096 R13 -.9865 LSA 2737.5 MSA 243.0 SSA 14.3
BDE 1.3062 BRA 3.4251 BC3 3.4789 FSP -1975 SG1 5977.6 SG2 368.5 THA 168.31 EL1 2370.4 EL2 216.7 ALF 172.66

LAUNCH DATE OCT 5 1965 FLIGHT TIME 198.00 ARRIVAL DATE APR 21 1966

HELIOCENTRIC CONIC DISTANCE 550.187

RL 149.59 LAL .00 LOL 11.55 VL 27.156 GAL 5.51 AZL 89.63 HCA 250.70 SMA 127.98 ECC .19358 INC .3687 V1 29.787
RP 108.69 LAP -.35 LOP 262.25 VP 37.484 GAP 7.06 AZP 90.12 TAL 155.75 TAP 46.45 RCA 103.21 APO 152.76 V2 34.865
RC 119.206 GL 2.40 GP 23.00 ZAL 41.60 ZAP 144.95 ETS 34.18 ZAE 123.07 ETE 165.02 ZAC 24.40 ETC 193.77 CLP-152.79

PLANETOCENTRIC CONIC

C3 17.269 VHL 4.156 DLA -9.22 RAL 331.24 RAD 6567.7 VEL 11.775 PTH 2.08 VHP 5.407 DPA -.97 RAP 289.18 ECC 1.2842

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 41 52	1889.85	-10.60	21.88	189.10	116.41	10 13 21	1289.9	-6.96	15.08
90.00	19 19 58	5114.05	24.84	227.29	192.90	75.94	20 45 12	4514.0	22.66	219.29
100.00	10 58 41	1641.99	-11.60	3.13	188.58	117.74	11 26 3	1042.0	-7.80	356.41
100.00	20 45 49	4837.14	25.93	206.60	192.59	74.58	22 6 26	4237.1	23.56	198.61
110.00	11 56 40	1460.46	-14.25	347.81	187.04	121.40	12 21 0	860.5	-9.99	341.30
110.00	22 4 20	4591.43	28.83	186.93	191.56	70.79	23 20 52	3991.4	25.94	178.94

DIFFERENTIAL CORRECTIONS
TDE 1.4420 TRA 3.5184 TC3-3.3057 BAU .7700
RDE -.0496 RRA -.7882 RC3 .4410 FAU .04575
FDE 1.7880 FRA 3.7606 FC3-2.2936 BSP 19328
BDE 1.4428 BRA 3.6056 BC3 3.3350 FSP -1868

MID-COURSE EXECUTION ACCURACY
SGT 5971.1 SGR 1162.3 SG3 527.7
RRT -.9442 RRF -.9368 RTF .9859
SGB 6083.2 R23 .0065 R13 -.9860
SG1 6071.5 SG2 376.4 THA 169.54

ORBIT DETERMINATION ACCURACY
ST 2476.5 SR 337.5 SS 1367.0
CRT -.7464 CRS .6984 CST -.9975
LSA 2838.5 MSA 242.5 SSA 14.2
EL1 2489.4 EL2 223.4 ALF 174.15

LAUNCH DATE OCT 5 1965 FLIGHT TIME 200.00 ARRIVAL DATE APR 23 1966

HELIOCENTRIC CONIC DISTANCE 556.089

RL 149.59 LAL .00 LOL 11.55 VL 27.135 GAL 5.83 AZL 89.44 HCA 253.87 SMA 127.85 ECC .19731 INC .5562 V1 29.787
RP 108.72 LAP -.53 LOP 265.42 VP 37.461 GAP 7.48 AZP 90.15 TAL 154.87 TAP 48.74 RCA 102.62 APO 153.07 V2 34.856
RC 121.557 GL 3.50 GP 21.70 ZAL 40.74 ZAP 147.10 ETS 35.00 ZAE 122.53 ETE 166.14 ZAC 25.24 ETC 189.97 CLP-154.65

PLANETOCENTRIC CONIC

C3 18.425 VHL 4.292 DLA -7.87 RAL 331.73 RAD 6567.7 VEL 11.824 PTH 2.09 VHP 5.603 DPA -2.14 RAP 290.51 ECC 1.3032

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 33 6	1948.61	-12.35	25.30	190.57	115.68	10 5 35	1348.6	-8.80	18.43
90.00	19 32 35	5085.43	24.35	225.33	193.99	75.08	20 57 20	4485.4	22.06	217.41
100.00	10 50 39	1698.43	-13.37	6.39	190.06	116.99	11 18 58	1098.4	-9.64	359.58
100.00	20 57 43	4810.84	25.44	204.80	193.66	73.75	22 17 53	4210.8	22.97	196.88
110.00	11 50 15	1511.86	-16.05	350.71	188.54	120.59	12 15 27	911.9	-11.87	344.09
110.00	22 14 37	4570.18	28.35	185.46	192.59	70.05	23 30 47	3970.2	25.37	177.56

DIFFERENTIAL CORRECTIONS
TDE 1.5832 TRA 3.7197 TC3-3.1556 BAU .7828
RDE -.0273 RRA -.7591 RC3 .3773 FAU .04166
FDE 1.7807 FRA 3.6756 FC3-1.9577 BSP 19667
BDE 1.5834 BRA 3.7964 BC3 3.1781 FSP -1762

MID-COURSE EXECUTION ACCURACY
SGT 6076.9 SGR 1073.6 SG3 496.4
RRT -.9322 RRF -.9237 RTF .9854
SGB 6171.0 R23 .0041 R13 -.9855
SG1 6159.1 SG2 383.4 THA 170.61

ORBIT DETERMINATION ACCURACY
ST 2594.9 SR 309.2 SS 1357.2
CRT -.6720 CRS .6264 CST -.9981
LSA 2934.7 MSA 242.1 SSA 14.1
EL1 2603.3 EL2 228.2 ALF 175.39

LAUNCH DATE OCT 5 1965 FLIGHT TIME 202.00 ARRIVAL DATE APR 25 1966

HELIOCENTRIC CONIC DISTANCE 561.956

RL 149.59 LAL .00 LOL 11.55 VL 27.114 GAL 6.16 AZL 89.26 HCA 257.04 SMA 127.70 ECC .20133 INC .7378 V1 29.787
RP 108.75 LAP -.72 LOP 268.59 VP 37.437 GAP 7.91 AZP 90.17 TAL 153.96 TAP 51.00 RCA 101.99 APO 153.42 V2 34.846
RC 123.903 GL 4.48 GP 20.53 ZAL 39.90 ZAP 149.12 ETS 35.87 ZAE 122.01 ETE 167.11 ZAC 26.31 ETC 186.62 CLP-156.41

PLANETOCENTRIC CONIC

C3 19.720 VHL 4.441 DLA -6.62 RAL 332.25 RAD 6567.8 VEL 11.879 PTH 2.11 VHP 5.814 DPA -3.17 RAP 291.94 ECC 1.3245

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 25 33	2004.30	-13.97	28.59	192.20	114.88	9 58 57	1404.3	-10.50	21.63
90.00	19 44 17	5061.80	23.92	223.73	195.23	74.38	21 8 39	4461.8	21.55	215.86
100.00	10 43 44	1752.07	-15.00	9.53	191.69	116.16	11 12 56	1152.1	-11.37	2.63
100.00	21 8 47	4789.26	25.02	203.34	194.87	73.08	22 28 36	4189.3	22.46	195.47
110.00	11 44 46	1561.00	-17.73	353.53	190.18	119.71	12 10 47	961.0	-13.65	346.80
110.00	22 24 15	4553.10	27.95	184.30	193.77	69.46	23 40 8	3953.1	24.89	176.45

DIFFERENTIAL CORRECTIONS
TDE 1.7306 TRA 3.9326 TC3-2.9886 BAU .7925
RDE -.0056 RRA -.7343 RC3 .3215 FAU .03757
FDE 1.7715 FRA 3.5962 FC3-1.6492 BSP 19910
BDE 1.7306 BRA 4.0005 BC3 3.0058 FSP -1653

MID-COURSE EXECUTION ACCURACY
SGT 6174.4 SGR 995.7 SG3 466.8
RRT -.9184 RRF -.9091 RTF .9848
SGB 6254.1 R23 .0025 R13 -.9849
SG1 6242.0 SG2 389.6 THA 171.54

ORBIT DETERMINATION ACCURACY
ST 2709.3 SR 286.4 SS 1346.8
CRT -.5869 CRS .5442 CST -.9986
LSA 3029.5 MSA 241.4 SSA 14.1
EL1 2714.5 EL2 231.4 ALF 176.42

LAUNCH DATE OCT 5 1965 FLIGHT TIME 204.00 ARRIVAL DATE APR 27 1966

HELIOCENTRIC CONIC DISTANCE 567.785

RL 149.59 LAL .00 LOL 11.55 VL 27.092 GAL 6.51 AZL 89.09 HCA 260.21 SMA 127.56 ECC .20569 INC .9147 V1 29.787
RP 108.78 LAP -.90 LOP 271.76 VP 37.413 GAP 8.35 AZP 90.16 TAL 153.04 TAP 53.25 RCA 101.32 APO 153.80 V2 34.838
RC 126.245 GL 5.36 GP 19.47 ZAL 39.08 ZAP 151.01 ETS 36.83 ZAE 121.52 ETE 167.95 ZAC 27.55 ETC 183.74 CLP-158.09

PLANETOCENTRIC CONIC

C3 21.170 VHL 4.601 DLA -5.48 RAL 332.80 RAD 6567.9 VEL 11.939 PTH 2.12 VHP 6.038 DPA -4.07 RAP 293.46 ECC 1.3484

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 19 1	2057.36	-15.47	31.77	193.96	114.02	9 53 18	1457.4	-12.10	24.71
90.00	19 55 13	5042.64	23.57	222.44	196.59	73.83	21 19 15	4442.6	21.13	214.62
100.00	10 37 46	1803.31	-16.52	12.59	193.46	115.27	11 7 49	1203.3	-12.98	5.58
100.00	21 19 9	4771.93	24.67	202.17	196.23	72.56	22 38 41	4171.9	22.05	194.35
110.00	11 40 5	1608.19	-19.30	356.29	191.97	118.77	12 6 53	1008.2	-15.32	349.44
110.00	22 33 19	4539.78	27.63	183.39	195.08	69.02	23 48 59	3939.8	24.52	175.60

DIFFERENTIAL CORRECTIONS
TDE 1.8776 TRA 4.1511 TC3-2.8215 BAU .8024
RDE .0167 RRA -.7120 RC3 .2752 FAU .03389
FDE 1.7546 FRA 3.5164 FC3-1.3858 BSP 20219
BDE 1.8777 BRA 4.2118 BC3 2.8349 FSP -1558

MID-COURSE EXECUTION ACCURACY
SGT 6259.1 SGR 926.3 SG3 438.4
RRT -.9029 RRF -.8927 RTF .9843
SGB 6327.2 R23 .0009 R13 -.9844
SG1 6314.9 SG2 394.6 THA 172.36

ORBIT DETERMINATION ACCURACY
ST 2810.7 SR 268.1 SS 1331.8
CRT -.4888 CRS .4494 CST -.9989
LSA 3112.5 MSA 240.9 SSA 14.0
EL1 2813.8 EL2 233.7 ALF 177.31

LAUNCH DATE OCT 5 1965 FLIGHT TIME 206.00 ARRIVAL DATE APR 29 1966

DISTANCE 573.572

HELIOCENTRIC CONIC

RL 149.59 LAL .00 LOL 11.55 VL 27.070 GAL 6.89 AZL 88.91 HCA 263.37 SMA 127.41 ECC .21039 INC 1.0881 V1 29.787
RP 108.80 LAP -1.08 LOP 274.92 VP 37.390 GAP 8.80 AZP 90.13 TAL 152.10 TAP 55.48 RCA 100.61 APO 154.22 V2 34.830
RC 128.581 GL 6.14 GP 18.52 ZAL 38.28 ZAP 152.78 ETS 37.88 ZAE 121.06 ETE 168.68 ZAC 28.94 ETC 181.27 CLP-159.69

PLANETOCENTRIC CONIC

C3 22.791 VHL 4.774 DLA -4.43 RAL 333.37 RAD 6567.9 VEL 12.007 PTH 2.14 VHP 6.277 DPA -4.84 RAP 295.05 ECC 1.3751

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 13 22	2108.19	-16.85	34.86	195.85	113.10	9 48 30	1508.2	-13.58	27.71
90.00	20 5 27	5027.50	23.28	221.43	198.08	73.40	21 29 14	4427.5	20.78	213.64
100.00	10 32 37	1852.50	-17.92	15.56	195.35	114.33	11 3 30	1252.5	-14.49	8.45
100.00	21 28 52	4758.43	24.39	201.26	197.70	72.16	22 48 11	4158.4	21.72	193.48
110.00	11 36 .6	1653.77	-20.77	359.00	193.88	117.78	12 3 40	1053.8	-16.89	352.03
110.00	22 41 53	4529.92	27.38	182.73	196.52	68.69	23 57 23	3929.9	24.24	174.97

DIFFERENTIAL CORRECTIONS

TDE 2.0294 TRA 4.3802 TC3-2.6483 BAU .8101
RDE .0386 RRA -.6924 RC3 .2352 FAU .03037
FDE 1.7361 FRA 3.4410 FC3-1.1537 BSP 20501
BDE 2.0298 BRA 4.4346 BC3 2.6587 FSP -1467

MID-COURSE EXECUTION ACCURACY

SGT 6334.7 SGR 864.5 SG3 411.8
RRT -.8856 RRF -.8746 RTF .9838
SGB 6393.4 R23 -.0003 R13 -.9838
SG1 6380.9 SG2 398.6 THA 173.08

ORBIT DETERMINATION ACCURACY

ST 2905.2 SR 254.4 SS 1315.9
CRT -.3830 CRS .3472 CST -.9992
LSA 3190.4 MSA 240.0 SSA 13.8
EL1 2906.9 EL2 234.9 ALF 178.07

LAUNCH DATE OCT 5 1965 FLIGHT TIME 208.00 ARRIVAL DATE MAY 1 1966

DISTANCE 579.314

HELIOCENTRIC CONIC

RL 149.59 LAL .00 LOL 11.55 VL 27.048 GAL 7.30 AZL 88.74 HCA 266.54 SMA 127.27 ECC .21546 INC 1.2593 V1 29.787
RP 108.82 LAP -1.26 LOP 278.09 VP 37.366 GAP 9.27 AZP 90.08 TAL 151.15 TAP 57.69 RCA 99.84 APO 154.69 V2 34.822
RC 130.911 GL 6.83 GP 17.65 ZAL 37.49 ZAP 154.46 ETS 39.06 ZAE 120.62 ETE 169.32 ZAC 30.44 ETC 179.18 CLP-161.23

PLANETOCENTRIC CONIC

C3 24.604 VHL 4.960 DLA -3.46 RAL 333.97 RAD 6568.0 VEL 12.082 PTH 2.16 VHP 6.531 DPA -5.49 RAP 296.71 ECC 1.4049

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 8 28	2157.09	-18.13	37.87	197.84	112.13	9 44 26	1557.1	-14.97	30.62
90.00	20 15 4	5016.03	23.05	220.66	199.68	73.08	21 38 40	4416.0	20.52	212.91
100.00	10 28 12	1899.91	-19.23	18.48	197.36	113.34	10 59 52	1299.9	-15.90	11.26
100.00	21 38 1	4748.44	24.18	200.59	199.29	71.87	22 57 10	4148.4	21.48	192.84
110.00	11 32 44	1697.89	-22.15	1.69	195.90	116.73	12 1 2	1097.9	-18.38	354.58
110.00	22 49 59	4523.23	27.22	182.28	198.08	68.47	24 5 22	3923.2	24.05	174.55

DIFFERENTIAL CORRECTIONS

TDE 2.1852 TRA 4.6207 TC3-2.4728 BAU .8160
RDE .0606 RRA -.6750 RC3 .2008 FAU .02706
FDE 1.7159 FRA 3.3706 FC3 -.9523 BSP 20765
BDE 2.1860 BRA 4.6697 BC3 2.4809 FSP -1380

MID-COURSE EXECUTION ACCURACY

SGT 6401.6 SGR 809.1 SG3 386.7
RRT -.8666 RRF -.8549 RTF .9834
SGB 6452.6 R23 -.0012 R13 -.9834
SG1 6440.1 SG2 401.4 THA 173.73

ORBIT DETERMINATION ACCURACY

ST 2991.6 SR 244.6 SS 1298.9
CRT -.2728 CRS .2409 CST -.9994
LSA 3261.8 MSA 238.9 SSA 13.7
EL1 2992.4 EL2 235.3 ALF 178.71

LAUNCH DATE OCT 5 1965 FLIGHT TIME 210.00 ARRIVAL DATE MAY 3 1966

DISTANCE 585.007

HELIOCENTRIC CONIC

RL 149.59 LAL .00 LOL 11.55 VL 27.025 GAL 7.74 AZL 88.57 HCA 269.70 SMA 127.12 ECC .22095 INC 1.4293 V1 29.787
RP 108.85 LAP -1.43 LOP 281.25 VP 37.343 GAP 9.76 AZP 90.01 TAL 150.19 TAP 59.89 RCA 99.03 APO 155.20 V2 34.816
RC 133.236 GL 7.44 GP 16.86 ZAL 36.72 ZAP 156.03 ETS 40.38 ZAE 120.21 ETE 169.89 ZAC 32.04 ETC 177.41 CLP-162.71

PLANETOCENTRIC CONIC

C3 26.632 VHL 5.161 DLA -2.57 RAL 334.57 RAD 6568.1 VEL 12.166 PTH 2.18 VHP 6.801 DPA -6.04 RAP 298.42 ECC 1.4383

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 4 16	2204.31	-19.32	40.83	199.94	111.12	9 41 0	1604.3	-16.28	33.48
90.00	20 24 7	5007.94	22.89	220.12	201.38	72.86	21 47 35	4407.9	20.33	212.39
100.00	10 24 24	1945.78	-20.44	21.35	199.47	112.30	10 56 50	1345.8	-17.24	14.02
100.00	21 46 39	4741.70	24.04	200.14	200.98	71.68	23 5 41	4141.7	21.31	192.41
110.00	11 29 54	1740.76	-23.44	4.35	198.03	115.63	11 58 55	1140.8	-19.79	357.10
110.00	22 57 39	4519.48	27.12	182.03	199.73	68.35	24 12 59	3919.5	23.94	174.31

DIFFERENTIAL CORRECTIONS

TDE 2.3461 TRA 4.8741 TC3-2.2958 BAU .8197
RDE .0824 RRA -.6592 RC3 .1710 FAU .02393
FDE 1.6953 FRA 3.3056 FC3 -.7779 BSP 20998
BDE 2.3476 BRA 4.9185 BC3 2.3022 FSP -1298

MID-COURSE EXECUTION ACCURACY

SGT 6460.9 SGR 759.1 SG3 363.3
RRT -.8458 RRF -.8335 RTF .9829
SGB 6505.3 R23 -.0020 R13 -.9829
SG1 6492.9 SG2 403.0 THA 174.30

ORBIT DETERMINATION ACCURACY

ST 3071.0 SR 238.2 SS 1281.7
CRT -.1629 CRS .1349 CST -.9995
LSA 3327.7 MSA 237.5 SSA 13.6
EL1 3071.2 EL2 235.0 ALF 179.27

LAUNCH DATE OCT 5 1965 FLIGHT TIME 212.00 ARRIVAL DATE MAY 5 1966

DISTANCE 590.644

HELIOCENTRIC CONIC

RL 149.59 LAL .00 LOL 11.55 VL 27.002 GAL 8.20 AZL 88.40 HCA 272.86 SMA 126.96 ECC .22689 INC 1.5991 V1 29.787
RP 108.87 LAP -1.60 LOP 284.41 VP 37.321 GAP 10.27 AZP 89.92 TAL 149.23 TAP 62.09 RCA 98.16 APO 155.77 V2 34.809
RC 135.553 GL 7.97 GP 16.14 ZAL 35.96 ZAP 157.52 ETS 41.87 ZAE 119.82 ETE 170.38 ZAC 33.71 ETC 175.93 CLP-164.14

PLANETOCENTRIC CONIC

C3 28.904 VHL 5.376 DLA -1.76 RAL 335.19 RAD 6568.2 VEL 12.259 PTH 2.21 VHP 7.088 DPA -6.48 RAP 300.19 ECC 1.4757

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 0 39	2250.05	-20.41	43.74	202.14	110.06	9 38 9	1650.1	-17.50	36.28
90.00	20 32 39	5002.98	22.79	219.79	203.16	72.72	21 56 2	4403.0	20.21	212.07
100.00	10 21 11	1990.30	-21.56	24.18	201.68	111.22	10 54 21	1390.3	-18.49	16.73
100.00	21 54 48	4737.96	23.96	199.89	202.75	71.57	23 13 46	4138.0	21.22	192.17
110.00	11 27 33	1782.54	-24.64	7.00	200.26	114.48	11 57 15	1182.5	-21.13	359.61
110.00	23 4 55	4518.49	27.10	181.96	201.48	68.32	24 20 14	3918.5	23.91	174.25

DIFFERENTIAL CORRECTIONS

TDE 2.5156 TRA 5.1443 TC3-2.1150 BAU .8192
RDE .1039 RRA -.6451 RC3 .1445 FAU .02085
FDE 1.6773 FRA 3.2484 FC3 -.6245 BSP 21138
BDE 2.5178 BRA 5.1846 BC3 2.1200 FSP -1215

MID-COURSE EXECUTION ACCURACY

SGT 6514.9 SGR 713.8 SG3 341.7
RRT -.8234 RRF -.8107 RTF .9825
SGB 6553.9 R23 -.0026 R13 -.9825
SG1 6541.5 SG2 403.4 THA 174.83

ORBIT DETERMINATION ACCURACY

ST 3146.4 SR 234.3 SS 1266.2
CRT -.0582 CRS .0341 CST -.9996
LSA 3391.5 MSA 235.6 SSA 13.4
EL1 3146.4 EL2 233.9 ALF 179.75

LAUNCH DATE OCT 5 1965 FLIGHT TIME 214.00 ARRIVAL DATE MAY 7 1966

HELIOCENTRIC CONIC DISTANCE 596.220

RL 149.59 LAL .00 LOL 11.55 VL 26.978 GAL 8.71 AZL 88.23 HCA 276.02 SMA 126.81 ECC .23332 INC 1.7698 V1 29.787
RP 108.88 LAP -1.76 LOP 287.57 VP 37.299 GAP 10.81 AZP 89.81 TAL 148.26 TAP 64.28 RCA 97.22 APO 156.40 V2 34.804
RC 137.863 GL 8.44 GP 15.49 ZAL 35.22 ZAP 158.92 ETS 43.55 ZAE 119.45 ETE 170.83 ZAC 35.45 ETC 174.68 CLP-165.53

PLANETOCENTRIC CONIC

C3 31.453 VHL 5.608 DLA -1.01 RAL 335.81 RAD 6568.3 VEL 12.362 PTH 2.23 VHP 7.393 DPA -6.84 RAP 302.00 ECC 1.5176

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 57 34	2294.50	-21.42	46.61	204.42	108.97	9 35 49	1694.5	-18.64	39.04
90.00	20 40 41	5000.93	22.75	219.66	205.04	72.67	22 4 2	4400.9	20.16	211.94
100.00	10 18 27	2033.62	-22.60	26.97	203.97	110.10	10 52 20	1433.6	-19.66	19.41
100.00	22 2 30	4737.04	23.94	199.83	204.62	71.54	23 21 27	4137.0	21.19	192.11
110.00	11 25 37	1823.36	-25.77	9.63	202.59	113.28	11 56 0	1223.4	-22.39	2.10
110.00	23 11 49	4520.07	27.14	182.07	203.32	68.37	24 27 9	3920.1	23.96	174.35

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE 2.6877 TRA 5.4258 TC3-1.9418 BAU .8181 SGT 6558.9 SGR 672.0 SG3 321.3 ST 3210.9 SR 232.5 SS 1249.0
RDE .1260 RRA -.6314 RC3 .1222 FAU .01809 RRT -.7990 RRF -.7860 RTF .9823 CRT .0420 CRS -.0624 CST -.9997
FDE 1.6567 FRA 3.1938 FC3 -.4980 BSP 21353 SGB 6593.2 R23 -.0030 R13 -.9823 LSA 3445.2 MSA 233.5 SSA 13.2
BDE 2.6907 BRA 5.4624 BC3 1.9456 FSP -1144 SG1 6580.9 SG2 402.7 THA 175.30 EL1 3210.9 EL2 232.3 ALF .18

LAUNCH DATE OCT 5 1965 FLIGHT TIME 216.00 ARRIVAL DATE MAY 9 1966

HELIOCENTRIC CONIC DISTANCE 601.727

RL 149.59 LAL .00 LOL 11.55 VL 26.955 GAL 9.24 AZL 88.06 HCA 279.18 SMA 126.66 ECC .24029 INC 1.9424 V1 29.787
RP 108.90 LAP -1.92 LOP 290.74 VP 37.277 GAP 11.37 AZP 89.69 TAL 147.29 TAP 66.47 RCA 96.22 APO 157.09 V2 34.799
RC 140.164 GL 8.85 GP 14.89 ZAL 34.50 ZAP 160.25 ETS 45.45 ZAE 119.09 ETE 171.22 ZAC 37.23 ETC 173.63 CLP-166.88

PLANETOCENTRIC CONIC

C3 34.320 VHL 5.858 DLA -.32 RAL 336.43 RAD 6568.4 VEL 12.478 PTH 2.26 VHP 7.719 DPA -7.11 RAP 303.84 ECC 1.5648

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 54 58	2337.77	-22.35	49.44	206.78	107.85	9 33 56	1737.8	-19.71	41.77
90.00	20 48 16	5001.61	22.76	219.70	206.98	72.69	22 11 37	4401.6	20.18	211.98
100.00	10 16 10	2075.87	-23.56	29.74	206.34	108.94	10 50 45	1475.9	-20.76	22.07
100.00	22 9 45	4738.75	23.98	199.95	206.56	71.59	23 28 44	4138.8	21.24	192.22
110.00	11 24 4	1863.32	-26.81	12.27	205.00	112.04	11 55 7	1263.3	-23.59	4.59
110.00	23 18 20	4524.07	27.24	182.34	205.24	68.50	24 33 44	3924.1	24.07	174.60

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE 2.8668 TRA 5.7243 TC3-1.7711 BAU .8140 SGT 6596.3 SGR 633.3 SG3 302.2 ST 3269.0 SR 232.2 SS 1232.7
RDE .1482 RRA -.6182 RC3 .1027 FAU .01548 RRT -.7728 RRF -.7596 RTF .9821 CRT .1338 CRS -.1508 CST -.9998
FDE 1.6376 FRA 3.1452 FC3 -.3905 BSP 21534 SGB 6626.7 R23 -.0034 R13 -.9821 LSA 3493.7 MSA 230.9 SSA 13.0
BDE 2.8706 BRA 5.7576 BC3 1.7741 FSP -1077 SG1 6614.5 SG2 400.9 THA 175.74 EL1 3269.1 EL2 230.1 ALF .55

LAUNCH DATE OCT 5 1965 FLIGHT TIME 218.00 ARRIVAL DATE MAY 11 1966

HELIOCENTRIC CONIC DISTANCE 607.155

RL 149.59 LAL .00 LOL 11.55 VL 26.931 GAL 9.82 AZL 87.88 HCA 282.34 SMA 126.50 ECC .24787 INC 2.1181 V1 29.787
RP 108.91 LAP -2.07 LOP 293.90 VP 37.256 GAP 11.96 AZP 89.55 TAL 146.33 TAP 68.67 RCA 95.15 APO 157.86 V2 34.795
RC 142.456 GL 9.21 GP 14.35 ZAL 33.80 ZAP 161.50 ETS 47.62 ZAE 118.74 ETE 171.58 ZAC 39.05 ETC 172.74 CLP-168.20

PLANETOCENTRIC CONIC

C3 37.553 VHL 6.128 DLA .31 RAL 337.05 RAD 6568.5 VEL 12.606 PTH 2.29 VHP 8.066 DPA -7.29 RAP 305.71 ECC 1.6180

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 52 47	2379.99	-23.21	52.24	209.21	106.69	9 32 27	1780.0	-20.70	44.46
90.00	20 55 23	5004.87	22.83	219.92	209.00	72.78	22 18 48	4404.9	20.26	212.19
100.00	10 14 16	2117.15	-24.45	32.49	208.79	107.76	10 49 33	1517.1	-21.79	24.70
100.00	22 16 35	4742.95	24.07	200.23	208.57	71.71	23 35 38	4143.0	21.34	192.49
110.00	11 22 50	1902.50	-27.79	14.90	207.49	110.76	11 54 33	1302.5	-24.71	7.08
110.00	23 24 30	4530.36	27.39	182.76	207.24	68.71	24 40 1	3930.4	24.25	175.00

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE 3.0535 TRA 6.0407 TC3-1.6044 BAU .8066 SGT 6627.0 SGR 597.2 SG3 284.5 ST 3320.4 SR 233.1 SS 1217.3
RDE .1708 RRA -.6051 RC3 .0856 FAU .01301 RRT -.7444 RRF -.7312 RTF .9820 CRT .2172 CRS -.2311 CST -.9998
FDE 1.6197 FRA 3.1024 FC3 -.2998 BSP 21702 SGB 6653.9 R23 -.0036 R13 -.9820 LSA 3536.8 MSA 228.0 SSA 12.8
BDE 3.0583 BRA 6.0709 BC3 1.6067 FSP -1013 SG1 6642.0 SG2 397.8 THA 176.15 EL1 3320.8 EL2 227.5 ALF .88

LAUNCH DATE OCT 5 1965 FLIGHT TIME 220.00 ARRIVAL DATE MAY 13 1966

HELIOCENTRIC CONIC DISTANCE 612.494

RL 149.59 LAL .00 LOL 11.55 VL 26.907 GAL 10.45 AZL 87.70 HCA 285.50 SMA 126.35 ECC .25612 INC 2.2980 V1 29.787
RP 108.92 LAP -2.21 LOP 297.06 VP 37.236 GAP 12.58 AZP 89.39 TAL 145.38 TAP 70.88 RCA 93.99 APO 158.71 V2 34.791
RC 144.737 GL 9.51 GP 13.86 ZAL 33.11 ZAP 162.67 ETS 50.09 ZAE 118.41 ETE 171.91 ZAC 40.90 ETC 171.99 CLP-169.49

PLANETOCENTRIC CONIC

C3 41.209 VHL 6.419 DLA .88 RAL 337.67 RAD 6568.6 VEL 12.751 PTH 2.32 VHP 8.439 DPA -7.41 RAP 307.60 ECC 1.6782

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 50 59	2421.23	-23.99	55.01	211.70	105.52	9 31 20	1821.2	-21.63	47.13
90.00	21 2 5	5010.57	22.94	220.30	211.08	72.93	22 25 36	4410.6	20.39	212.56
100.00	10 12 44	2157.53	-25.26	35.22	211.30	106.54	10 48 41	1557.5	-22.75	27.32
100.00	22 23 1	4749.50	24.20	200.66	210.65	71.90	23 42 11	4149.5	21.50	192.91
110.00	11 21 55	1940.97	-28.69	17.53	210.05	109.44	11 54 16	1341.0	-25.77	9.57
110.00	23 30 19	4538.83	27.60	183.33	209.30	68.98	24 45 58	3938.8	24.49	175.54

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE 3.2535 TRA 6.3821 TC3-1.4378 BAU .7931 SGT 6655.5 SGR 563.2 SG3 268.2 ST 3369.9 SR 234.4 SS 1204.7
RDE .1934 RRA -.5920 RC3 .0704 FAU .01053 RRT -.7139 RRF -.7009 RTF .9821 CRT .2914 CRS -.3026 CST -.9999
FDE 1.6061 FRA 3.0682 FC3 -.2213 BSP 21743 SGB 6679.3 R23 -.0038 R13 -.9821 LSA 3579.4 MSA 224.5 SSA 12.5
BDE 3.2592 BRA 6.4095 BC3 1.4395 FSP -949 SG1 6667.6 SG2 393.7 THA 176.53 EL1 3370.6 EL2 224.2 ALF 1.17

LAUNCH DATE OCT 6 1965 FLIGHT TIME 70.00 ARRIVAL DATE DEC 15 1965

HELIOCENTRIC CONIC DISTANCE 137.354

RL 149.55 LAL .00 LOL 12.54 VL 17.796 GAL 17.84 AZL 91.56 HCA 44.97 SMA 91.01 ECC .68461 INC 1.5561 VI 29.796
RP 108.00 LAP -1.10 LOP 57.49 VP 31.614 GAP -42.10 AZP 91.10 TAL 171.26 TAP 216.23 RCA 28.70 APO 153.32 V2 35.089
RC 67.813 GL -1.86 GP -4.20 ZAL 65.18 ZAP 29.43 ETS 169.17 ZAE 140.57 ETE 183.08 ZAC 18.47 ETC 90.40 CLP 29.16

PLANETOCENTRIC CONIC

C3 200.939 VHL 14.175 DLA -20.23 RAL 310.28 RAD 6571.1 VEL 17.952 PTH 3.00 VHP 24.075 DPA -28.19 RAP 265.88 ECC 4.3070

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 56 28	2046.47	-15.17	31.11	203.63	114.20	10 30 34	1446.5	-11.77	24.08
90.00	16 10 13	777.38	22.24	316.85	217.77	108.00	16 23 11	177.4	24.49	308.90
100.00	11 4 44	1826.19	-17.18	13.96	202.68	114.85	11 35 10	1226.2	-13.68	6.91
100.00	17 44 39	5760.94	24.34	273.10	218.51	107.91	19 20 40	5160.9	26.56	265.00
110.00	11 45 0	1699.96	-22.21	1.81	200.10	116.68	12 13 20	1100.0	-18.45	354.70
110.00	19 20 52	5459.93	29.66	252.16	220.43	107.83	20 51 51	4859.9	31.81	243.61

DIFFERENTIAL CORRECTIONS

TDE -.4929 TRA-1.6758 TC3 -.1189 BAU .3195
RDE-1.0388 RRA .4010 RC3 -.0042 FAU .01259
FDE .2208 FRA .6730 FC3 -.0543 BSP 2132
BDE 1.1498 BRA 1.7231 BC3 .1189 FSP -61

MID-COURSE EXECUTION ACCURACY

SGT 821.2 SGR 454.2 SG3 29.4
RRT -.0992 RRF .0935 RTF -.6273
SGB 938.4 R23 -.0044 R13 .6281
SG1 823.0 SG2 450.9 THA 175.51

ORBIT DETERMINATION ACCURACY

ST 294.4 SR 423.0 SS 259.4
CRT .5815 CRS .6249 CST .9960
LSA 516.6 MSA 256.8 SSA 13.9
EL1 467.7 EL2 216.7 ALF 61.25

LAUNCH DATE OCT 6 1965 FLIGHT TIME 72.00 ARRIVAL DATE DEC 17 1965

HELIOCENTRIC CONIC DISTANCE 143,253

RL 149.55 LAL .00 LOL 12.54 VL 18.482 GAL 17.09 AZL 91.23 HCA 48.18 SMA 92.59 ECC .65732 INC 1.2315 VI 29.796
RP 107.96 LAP -.92 LOP 60.71 VP 32.019 GAP -40.16 AZP 90.82 TAL 170.53 TAP 218.71 RCA 31.73 APO 153.45 V2 35.101
RC 65.751 GL -1.61 GP -4.33 ZAL 63.96 ZAP 27.94 ETS 168.46 ZAE 140.92 ETE 183.81 ZAC 18.78 ETC 95.48 CLP 27.63

PLANETOCENTRIC CONIC

C3 182.462 VHL 13.508 DLA -19.67 RAL 311.46 RAD 6571.0 VEL 17.429 PTH 2.96 VHP 23.123 DPA -28.45 RAP 267.78 ECC 4.0029

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 54 52	2054.58	-15.39	31.60	203.75	114.06	10 29 6	1454.6	-12.01	24.55
90.00	16 21 17	738.68	23.03	314.29	217.82	106.95	16 33 36	138.7	25.13	306.25
100.00	11 3 48	1832.12	-17.35	14.32	202.83	114.73	11 34 20	1232.1	-13.87	7.26
100.00	17 55 2	5724.41	25.08	270.64	218.50	106.82	19 30 27	5124.4	27.15	262.45
110.00	11 45 20	1701.94	-22.27	1.94	200.31	116.63	12 13 42	1101.9	-18.52	354.81
110.00	19 29 59	5427.35	30.32	249.85	220.27	106.60	21 0 26	4827.4	32.29	241.19

DIFFERENTIAL CORRECTIONS

TDE -.5024 TRA-1.6857 TC3 -.1261 BAU .3078
RDE -.9950 RRA .4020 RC3 -.0058 FAU .01274
FDE .2370 FRA .6991 FC3 -.0604 BSP 2295
BDE 1.1146 BRA 1.7329 BC3 .1262 FSP -68

MID-COURSE EXECUTION ACCURACY

SGT 859.0 SGR 459.5 SG3 31.9
RRT -.1070 RRF .1013 RTF -.6470
SGB 974.2 R23 -.0050 R13 .6478
SG1 861.0 SG2 455.8 THA 175.44

ORBIT DETERMINATION ACCURACY

ST 312.1 SR 425.5 SS 275.8
CRT .5840 CRS .6348 CST .9956
LSA 533.5 MSA 264.0 SSA 14.1
EL1 476.8 EL2 226.1 ALF 59.17

LAUNCH DATE OCT 6 1965 FLIGHT TIME 74.00 ARRIVAL DATE DEC 19 1965

HELIOCENTRIC CONIC DISTANCE 149.246

RL 149.55 LAL .00 LOL 12.54 VL 19.123 GAL 16.37 AZL 90.94 HCA 51.39 SMA 94.18 ECC .63059 INC .9378 VI 29.796
RP 107.92 LAP -.73 LOP 63.92 VP 32.407 GAP -38.32 AZP 90.59 TAL 169.82 TAP 221.21 RCA 34.79 APO 153.56 V2 35.114
RC 63.722 GL -1.34 GP -4.47 ZAL 62.79 ZAP 26.48 ETS 167.67 ZAE 141.38 ETE 184.61 ZAC 19.25 ETC 100.42 CLP 26.12

PLANETOCENTRIC CONIC

C3 165.769 VHL 12.875 DLA -19.10 RAL 312.58 RAD 6570.8 VEL 16.944 PTH 2.92 VHP 22.206 DPA -28.70 RAP 269.71 ECC 3.7281

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 52 59	2062.04	-15.60	32.05	203.77	113.94	10 27 21	1462.0	-12.23	24.99
90.00	16 32 2	699.13	23.79	311.64	217.70	105.83	16 43 42	99.1	25.73	303.51
100.00	11 2 34	1837.51	-17.50	14.65	202.87	114.63	11 33 12	1237.5	-14.03	7.57
100.00	18 5 9	5686.94	25.80	268.08	218.32	105.65	19 39 56	5086.9	27.69	259.80
110.00	11 45 21	1703.47	-22.32	2.03	200.42	116.59	12 13 44	1103.5	-18.57	354.90
110.00	19 38 52	5393.74	30.95	247.44	219.94	105.30	21 8 45	4793.7	32.73	238.67

DIFFERENTIAL CORRECTIONS

TDE -.5108 TRA-1.6955 TC3 -.1331 BAU .2955
RDE -.9515 RRA .4021 RC3 -.0077 FAU .01290
FDE .2536 FRA .7259 FC3 -.0674 BSP 2469
BDE 1.0800 BRA 1.7425 BC3 .1334 FSP -75

MID-COURSE EXECUTION ACCURACY

SGT 898.2 SGR 464.3 SG3 34.5
RRT -.1155 RRF .1098 RTF -.6661
SGB 1011.1 R23 -.0055 R13 .6669
SG1 900.3 SG2 460.0 THA 175.37

ORBIT DETERMINATION ACCURACY

ST 330.4 SR 427.2 SS 292.8
CRT .5856 CRS .6437 CST .9951
LSA 551.3 MSA 270.7 SSA 14.3
EL1 486.1 EL2 235.4 ALF 56.97

LAUNCH DATE OCT 6 1965 FLIGHT TIME 76.00 ARRIVAL DATE DEC 21 1965

HELIOCENTRIC CONIC DISTANCE 155,328

RL 149.55 LAL .00 LOL 12.54 VL 19.723 GAL 15.67 AZL 90.67 HCA 54.61 SMA 95.76 ECC .60450 INC .6690 VI 29.796
RP 107.89 LAP -.55 LOP 67.14 VP 32.777 GAP -36.58 AZP 90.39 TAL 169.13 TAP 223.74 RCA 37.87 APO 153.64 V2 35.126
RC 61.731 GL -1.04 GP -4.62 ZAL 61.67 ZAP 25.04 ETS 166.76 ZAE 141.93 ETE 185.51 ZAC 19.87 ETC 105.13 CLP 24.63

PLANETOCENTRIC CONIC

C3 150.673 VHL 12.275 DLA -18.51 RAL 313.62 RAD 6570.6 VEL 16.492 PTH 2.87 VHP 21.321 DPA -28.94 RAP 271.67 ECC 3.4797

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 50 50	2068.90	-15.79	32.46	203.67	113.82	10 25 19	1468.9	-12.44	25.39
90.00	16 42 30	658.72	24.51	308.90	217.41	104.64	16 53 29	58.7	26.29	300.68
100.00	11 1 2	1842.37	-17.64	14.95	202.80	114.53	11 31 45	1242.4	-14.18	7.86
100.00	18 14 59	5648.52	26.47	265.43	217.97	104.41	19 49 8	5048.5	28.19	257.05
110.00	11 45 1	1704.57	-22.35	2.10	200.41	116.56	12 13 26	1104.6	-18.61	354.97
110.00	19 47 30	5359.09	31.54	244.91	219.44	103.92	21 16 49	4759.1	33.13	236.05

DIFFERENTIAL CORRECTIONS

TDE -.5211 TRA-1.7080 TC3 -.1407 BAU .2842
RDE -.9084 RRA .4012 RC3 -.0099 FAU .01308
FDE .2711 FRA .7537 FC3 -.0751 BSP 2586
BDE 1.0472 BRA 1.7545 BC3 .1411 FSP -82

MID-COURSE EXECUTION ACCURACY

SGT 940.9 SGR 468.4 SG3 37.4
RRT -.1237 RRF .1188 RTF -.6843
SGB 1051.1 R23 -.0071 R13 .6851
SG1 943.3 SG2 463.6 THA 175.35

ORBIT DETERMINATION ACCURACY

ST 350.5 SR 428.1 SS 310.6
CRT .5877 CRS .6518 CST .9947
LSA 570.8 MSA 276.7 SSA 14.5
EL1 496.3 EL2 244.7 ALF 54.45

LAUNCH DATE OCT 6 1965 FLIGHT TIME 78.00 ARRIVAL DATE DEC 23 1965

HELIOCENTRIC CONIC DISTANCE 161.493

RL	149.55	LAL	.00	LOL	12.54	VL	20.283	GAL	14.98	AZL	90.42	HCA	57.82	SMA	97.33	ECC	.57911	INC	.4206	V1	29.796
RP	107.85	LAP	-.36	LOP	70.36	VP	33.130	GAP	-34.91	AZP	90.22	TAL	168.47	TAP	226.29	RCA	40.97	APO	153.70	V2	35.138
RC	59.781	GL	-.70	GP	-4.78	ZAL	60.62	ZAP	23.62	ETS	165.71	ZAE	142.58	ETE	186.52	ZAC	20.64	ETC	109.57	CLP	23.16

PLANETOCENTRIC CONIC

C3 137.008 VHL 11.705 DLA -17.90 RAL 314.59 RAD 6570.5 VEL 16.073 PTH 2.83 VHP 20.468 DPA -29.18 RAP 273.66 ECC 3.2548

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 48 23	2075.21	-15.96	32.85	203.47	113.70	10 22 59	1475.2	-12.62	25.76
90.00	16 52 40	617.40	25.19	306.06	216.95	103.37	17 2 58	17.4	26.79	297.76
100.00	10 59 11	1846.76	-17.76	15.21	202.63	114.45	11 29 58	1246.8	-14.31	8.12
100.00	18 24 34	5609.13	27.11	262.68	217.46	103.10	19 58 3	5009.1	28.64	254.21
110.00	11 44 21	1705.27	-22.37	2.14	200.28	116.54	12 12 46	1105.3	-18.63	355.01
110.00	19 55 53	5323.38	32.10	242.27	218.76	102.45	21 24 37	4723.4	33.48	233.31

DIFFERENTIAL CORRECTIONS

TDE	-.5284	TRA	-1.7183	TC3	-.1476	BAU	.2713	SGT	983.6	SGR	471.9	SG3	40.6	ST	370.6	SR	428.2	SS	328.9
RDE	-.8657	RRA	.3996	RC3	-.0125	FAU	.01329	RRT	-.1334	RRF	.1287	RTF	-.7020	CRT	.5878	CRS	.6589	CST	.9941
FDE	.2889	FRA	.7820	FC3	-.0840	BSP	2763	SGB	1090.9	R23	-.0080	R13	.7028	LSA	590.8	MSA	282.2	SSA	14.7
BDE	1.0142	BRA	1.7641	BC3	.1481	FSP	-91	SG1	986.2	SG2	466.4	THA	175.28	EL1	506.4	EL2	253.5	ALF	51.93

LAUNCH DATE OCT 6 1965 FLIGHT TIME 80.00 ARRIVAL DATE DEC 25 1965

HELIOCENTRIC CONIC DISTANCE 167.735

RL	149.55	LAL	.00	LOL	12.54	VL	20.808	GAL	14.32	AZL	90.19	HCA	61.04	SMA	98.90	ECC	.55447	INC	.1892	V1	29.796
RP	107.81	LAP	-.17	LOP	73.58	VP	33.466	GAP	-33.32	AZP	90.09	TAL	167.82	TAP	228.87	RCA	44.06	APO	153.73	V2	35.149
RC	57.879	GL	-.34	GP	-4.96	ZAL	59.62	ZAP	22.23	ETS	164.51	ZAE	143.34	ETE	187.66	ZAC	21.54	ETC	113.70	CLP	21.70

PLANETOCENTRIC CONIC

C3 124.630 VHL 11.164 DLA -17.27 RAL 315.48 RAD 6570.3 VEL 15.683 PTH 2.79 VHP 19.644 DPA -29.40 RAP 275.67 ECC 3.0511

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 45 38	2081.06	-16.12	33.20	203.15	113.60	10 20 19	1481.1	-12.79	26.10
90.00	17 2 34	5863.18	25.83	281.04	216.33	102.03	18 40 18	5263.2	27.23	272.65
100.00	10 57 1	1850.74	-17.87	15.46	202.34	114.37	11 27 51	1250.7	-14.43	8.35
100.00	18 33 53	5568.73	27.70	259.82	216.77	101.70	20 6 42	4968.7	29.04	251.27
110.00	11 43 20	1705.63	-22.39	2.16	200.05	116.53	12 11 45	1105.6	-18.64	355.03
110.00	20 4 3	5286.61	32.60	239.53	217.90	100.89	21 32 10	4686.6	33.76	230.48

DIFFERENTIAL CORRECTIONS

TDE	-.5350	TRA	-1.7282	TC3	-.1541	BAU	.2581	SGT	1027.9	SGR	474.7	SG3	44.0	ST	391.3	SR	427.4	SS	347.9
RDE	-.8234	RRA	.3972	RC3	-.0156	FAU	.01352	RRT	-.1439	RRF	.1396	RTF	-.7190	CRT	.5871	CRS	.6651	CST	.9933
FDE	.3073	FRA	.8111	FC3	-.0939	BSP	2948	SGB	1132.2	R23	-.0091	R13	.7199	LSA	611.9	MSA	286.9	SSA	14.8
BDE	.9820	BRA	1.7732	BC3	.1549	FSP	-100	SG1	1030.7	SG2	468.5	THA	175.21	EL1	516.9	EL2	261.9	ALF	49.28

LAUNCH DATE OCT 6 1965 FLIGHT TIME 82.00 ARRIVAL DATE DEC 27 1965

HELIOCENTRIC CONIC DISTANCE 174.049

RL	149.55	LAL	.00	LOL	12.54	VL	21.298	GAL	13.68	AZL	89.97	HCA	64.27	SMA	100.44	ECC	.53064	INC	.0252	V1	29.796
RP	107.78	LAP	.03	LOP	76.80	VP	33.785	GAP	-31.80	AZP	89.99	TAL	167.21	TAP	231.48	RCA	47.14	APO	153.74	V2	35.160
RC	56.028	GL	.05	GP	-5.16	ZAL	58.68	ZAP	20.87	ETS	163.11	ZAE	144.21	ETE	188.96	ZAC	22.57	ETC	117.49	CLP	20.25

PLANETOCENTRIC CONIC

C3 113.415 VHL 10.650 DLA -16.62 RAL 316.31 RAD 6570.2 VEL 15.322 PTH 2.74 VHP 18.848 DPA -29.61 RAP 277.70 ECC 2.8665

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 42 33	2086.54	-16.27	33.53	202.74	113.50	10 17 20	1486.5	-12.95	26.43
90.00	17 12 13	5819.95	26.40	278.00	215.53	100.62	18 49 13	5219.9	27.60	269.54
100.00	10 54 30	1854.42	-17.98	15.68	201.95	114.29	11 25 24	1254.4	-14.55	8.57
100.00	18 42 58	5527.31	28.24	256.86	215.91	100.23	20 15 5	4927.3	29.36	248.23
110.00	11 41 57	1705.73	-22.39	2.17	199.71	116.53	12 10 23	1105.7	-18.64	355.04
110.00	20 12 0	5248.76	33.05	236.66	216.87	99.26	21 39 28	4648.8	33.98	227.55

DIFFERENTIAL CORRECTIONS

TDE	-.5435	TRA	-1.7404	TC3	-.1611	BAU	.2460	SGT	1076.2	SGR	477.0	SG3	47.7	ST	414.2	SR	425.7	SS	368.0
RDE	-.7816	RRA	.3942	RC3	-.0193	FAU	.01377	RRT	-.1544	RRF	.1513	RTF	-.7349	CRT	.5871	CRS	.6708	CST	.9927
FDE	.3269	FRA	.8416	FC3	-.1051	BSP	3073	SGB	1177.1	R23	-.0112	R13	.7358	LSA	635.2	MSA	290.7	SSA	15.0
BDE	.9520	BRA	1.7845	BC3	.1623	FSP	-109	SG1	1079.3	SG2	469.9	THA	175.17	EL1	529.2	EL2	269.8	ALF	46.34

LAUNCH DATE OCT 6 1965 FLIGHT TIME 84.00 ARRIVAL DATE DEC 29 1965

HELIOCENTRIC CONIC DISTANCE 180.428

RL	149.55	LAL	.00	LOL	12.54	VL	21.756	GAL	13.06	AZL	89.77	HCA	67.49	SMA	101.97	ECC	.50763	INC	.2342	V1	29.796
RP	107.75	LAP	.22	LOP	80.03	VP	34.087	GAP	-30.35	AZP	89.91	TAL	166.63	TAP	234.12	RCA	50.20	APO	153.73	V2	35.171
RC	54.237	GL	.49	GP	-5.37	ZAL	57.80	ZAP	19.54	ETS	161.48	ZAE	145.18	ETE	190.44	ZAC	23.71	ETC	120.95	CLP	18.81

PLANETOCENTRIC CONIC

C3 103.250 VHL 10.161 DLA -15.95 RAL 317.05 RAD 6570.0 VEL 14.986 PTH 2.70 VHP 18.079 DPA -29.82 RAP 279.76 ECC 2.6992

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 39 7	2091.77	-16.41	33.85	202.22	113.40	10 13 59	1491.8	-13.11	26.73
90.00	17 21 37	5775.72	26.92	274.87	214.57	99.13	18 57 53	5175.7	27.91	266.34
100.00	10 51 37	1857.88	-18.07	15.89	201.45	114.22	11 22 35	1257.9	-14.65	8.77
100.00	18 51 49	5484.84	28.71	253.79	214.89	98.69	20 23 14	4884.8	29.62	245.10
110.00	11 40 12	1705.66	-22.39	2.17	199.27	116.53	12 8 38	1105.7	-18.64	355.03
110.00	20 19 43	5209.82	33.44	233.69	215.67	97.54	21 46 33	4609.8	34.12	224.52

DIFFERENTIAL CORRECTIONS

TDE	-.5490	TRA	-1.7496	TC3	-.1667	BAU	.2324	SGT	1124.0	SGR	478.6	SG3	51.7	ST	436.7	SR	423.1	SS	388.7
RDE	-.7404	RRA	.3907	RC3	-.0235	FAU	.01407	RRT	-.1667	RRF	.1643	RTF	-.7505	CRT	.5851	CRS	.6755	CST	.9918
FDE	.3470	FRA	.8729	FC3	-.1180	BSP	3262	SGB	1221.6	R23	-.0128	R13	.7514	LSA	658.9	MSA	293.9	SSA	15.2
BDE	.9217	BRA	1.7927	BC3	.1684	FSP	-121	SG1	1127.4	SG2	470.5	THA	175.08	EL1	541.4	EL2	276.8	ALF	43.45

LAUNCH DATE OCT 6 1965 FLIGHT TIME 86.00 ARRIVAL DATE DEC 31 1965

HELIOCENTRIC CONIC DISTANCE 186.869

RL	149.55	LAL	.00	LOL	12.54	VL	22.185	GAL	12.46	AZL	89.57	HCA	70.72	SMA	103.46	ECC	.48548	INC	.4310
RP	107.72	LAP	.41	LOP	83.26	VP	34.372	GAP	-28.96	AZP	89.86	TAL	166.07	TAP	236.80	RCA	53.23	APO	153.69
RC	52.511	GL	.96	GP	-5.61	ZAL	56.98	ZAP	18.23	ETS	159.55	ZAE	146.27	ETE	192.13	ZAC	24.94	ETC	124.08

V1	29.796																		
V2	35.181																		
CLP	17.38																		

PLANETOCENTRIC CONIC

C3	94.036	VHL	9.697	DLA	-15.25	RAL	317.73	RAD	6569.8	VEL	14.676	PTH	2.66	VHP	17.336	DPA	-30.01	RAP	281.83

ECC	2.5476																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 35 20	2096.87	-16.55	34.16	201.60	113.31	10 10 16	1496.9	-13.25	27.04
90.00	17 30 48	5730.46	27.37	271.63	213.44	97.57	19 6 19	5130.5	28.13	263.05
100.00	10 48 21	1861.25	-18.17	16.10	200.85	114.15	11 19 22	1261.2	-14.75	8.97
100.00	19 0 28	5441.32	29.12	250.62	213.70	97.06	20 31 9	4841.3	29.79	241.88
110.00	11 38 4	1705.53	-22.38	2.16	198.73	116.54	12 6 29	1105.5	-18.64	355.02
110.00	20 27 14	5169.80	33.76	230.61	214.31	95.74	21 53 24	4569.8	34.18	221.39

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-.5539	TRA	-1.7581	TC3	-.1716	BAU	.2187	SGT	1173.5	SGR	479.6	SG3	56.0	ST	459.9	SR	419.5	SS	410.3
RDE	-.6996	RRA	.3868	RC3	-.0284	FAU	.01439	RRT	-.1802	RRF	.1786	RTF	-.7654	CRT	.5824	CRS	.6796	CST	.9908
FDE	.3681	FRA	.9053	FC3	-.1325	BSP	3459	SGB	1267.8	R23	-.0146	R13	.7664	LSA	684.0	MSA	296.2	SSA	15.3
BDE	.8924	BRA	1.8002	BC3	.1739	FSP	-133	SG1	1177.3	SG2	470.2	THA	174.99	EL1	554.5	EL2	282.8	ALF	40.50

LAUNCH DATE OCT 6 1965 FLIGHT TIME 88.00 ARRIVAL DATE JAN 2 1966

HELIOCENTRIC CONIC DISTANCE 193.365

RL	149.55	LAL	.00	LOL	12.54	VL	22.586	GAL	11.88	AZL	89.38	HCA	73.95	SMA	104.93	ECC	.46420	INC	.6206
RP	107.69	LAP	.60	LOP	86.48	VP	34.642	GAP	-27.62	AZP	89.83	TAL	165.56	TAP	239.51	RCA	56.22	APO	153.64
RC	50.858	GL	1.48	GP	-5.86	ZAL	56.22	ZAP	16.97	ETS	157.26	ZAE	147.46	ETE	194.09	ZAC	26.27	ETC	126.90

V1	29.796																		
V2	35.191																		
CLP	15.95																		

PLANETOCENTRIC CONIC

C3	85.686	VHL	9.257	DLA	-14.53	RAL	318.33	RAD	6569.7	VEL	14.389	PTH	2.62	VHP	16.617	DPA	-30.21	RAP	283.92

ECC	2.4102																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 31 8	2102.00	-16.69	34.48	200.88	113.21	10 6 10	1502.0	-13.40	27.34
90.00	17 39 47	5684.15	27.74	268.29	212.16	95.93	19 14 31	5084.2	28.27	259.67
100.00	10 44 41	1864.67	-18.26	16.31	200.16	114.08	11 15 46	1264.7	-14.86	9.17
100.00	19 8 54	5396.71	29.45	247.34	212.35	95.37	20 38 51	4796.7	29.88	238.57
110.00	11 35 31	1705.46	-22.38	2.15	198.08	116.54	12 3 56	1105.5	-18.64	355.02
110.00	20 34 34	5128.69	33.99	227.42	212.79	93.87	22 0 3	4528.7	34.15	218.18

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-.5581	TRA	-1.7657	TC3	-.1754	BAU	.2047	SGT	1224.5	SGR	480.1	SG3	60.8	ST	483.9	SR	414.8	SS	432.8
RDE	-.6595	RRA	.3826	RC3	-.0341	FAU	.01476	RRT	-.1950	RRF	.1945	RTF	-.7796	CRT	.5788	CRS	.6829	CST	.9898
FDE	.3903	FRA	.9391	FC3	-.1491	BSP	3663	SGB	1315.3	R23	-.0166	R13	.7806	LSA	710.4	MSA	297.7	SSA	15.5
BDE	.8639	BRA	1.8067	BC3	.1787	FSP	-146	SG1	1228.7	SG2	469.3	THA	174.88	EL1	568.6	EL2	287.8	ALF	37.52

LAUNCH DATE OCT 6 1965 FLIGHT TIME 90.00 ARRIVAL DATE JAN 4 1966

HELIOCENTRIC CONIC DISTANCE 199.912

RL	149.55	LAL	.00	LOL	12.54	VL	22.961	GAL	11.32	AZL	89.20	HCA	77.18	SMA	106.37	ECC	.44379	INC	.8041
RP	107.66	LAP	.78	LOP	89.72	VP	34.897	GAP	-26.34	AZP	89.82	TAL	165.08	TAP	242.26	RCA	59.16	APO	153.57
RC	49.288	GL	2.05	GP	-6.15	ZAL	55.52	ZAP	15.75	ETS	154.53	ZAE	148.74	ETE	196.36	ZAC	27.67	ETC	129.44

V1	29.796																		
V2	35.200																		
CLP	14.53																		

PLANETOCENTRIC CONIC

C3	78.121	VHL	8.839	DLA	-13.78	RAL	318.85	RAD	6569.5	VEL	14.123	PTH	2.57	VHP	15.923	DPA	-30.40	RAP	286.02

ECC	2.2857																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 26 31	2107.34	-16.83	34.80	200.07	113.11	10 1 38	1507.3	-13.56	27.66
90.00	17 48 34	5636.76	28.02	264.86	210.73	94.23	19 22 31	5036.8	28.32	256.20
100.00	10 40 36	1868.32	-18.36	16.53	199.37	114.01	11 11 44	1268.3	-14.97	9.39
100.00	19 17 10	5351.01	29.69	243.97	210.86	93.61	20 46 21	4751.0	29.88	235.17
110.00	11 32 33	1705.62	-22.39	2.16	197.35	116.53	12 0 58	1105.6	-18.64	355.03
110.00	20 41 43	5086.48	34.14	224.13	211.11	91.92	22 6 29	4486.5	34.03	214.89

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-.5619	TRA	-1.7726	TC3	-.1782	BAU	.1909	SGT	1277.3	SGR	480.0	SG3	66.0	ST	508.7	SR	409.0	SS	456.5
RDE	-.6200	RRA	.3782	RC3	-.0407	FAU	.01517	RRT	-.2114	RRF	.2121	RTF	-.7930	CRT	.5746	CRS	.6854	CST	.9887
FDE	.4138	FRA	.9744	FC3	-.1681	BSP	3869	SGB	1364.6	R23	-.0189	R13	.7941	LSA	738.3	MSA	298.4	SSA	15.6
BDE	.8367	BRA	1.8125	BC3	.1828	FSP	-161	SG1	1282.0	SG2	467.5	THA	174.76	EL1	583.9	EL2	291.6	ALF	34.53

LAUNCH DATE OCT 6 1965 FLIGHT TIME 92.00 ARRIVAL DATE JAN 6 1966

HELIOCENTRIC CONIC DISTANCE 206.503

RL	149.55	LAL	.00	LOL	12.54	VL	23.311	GAL	10.77	AZL	89.02	HCA	80.41	SMA	107.76	ECC	.42427	INC	.9830
RP	107.63	LAP	.97	LOP	92.95	VP	35.137	GAP	-25.10	AZP	89.84	TAL	164.63	TAP	245.05	RCA	62.04	APO	153.49
RC	47.809	GL	2.67	GP	-6.46	ZAL	54.89	ZAP	14.59	ETS	151.25	ZAE	150.12	ETE	199.01	ZAC	29.14	ETC	131.71

V1	29.796																		
V2	35.209																		
CLP	13.11																		

PLANETOCENTRIC CONIC

C3	71.272	VHL	8.442	DLA	-12.99	RAL	319.30	RAD	6569.4	VEL	13.879	PTH	2.53	VHP	15.252	DPA	-30.59	RAP	288.14

ECC	2.1730																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 21 27	2113.08	-16.98	35.16	199.18	113.00	9 56 40	1513.1	-13.72	28.00
90.00	17 57 12	5588.26	28.22	261.32	209.16	92.47	19 30 20	4988.3	28.26	252.66
100.00	10 36 3	1872.39	-18.48	16.78	198.50	113.93	11 7 15	1272.4	-15.09	9.63
100.00	19 25 17	5304.19	29.84	240.50	209.23	91.79	20 53 41	4704.2	29.77	231.69
110.00	11 29 7	1706.18	-22.40	2.20	196.53	116.52	11 57 33	1106.2	-18.66	355.06
110.00	20 48 42	5043.17	34.18	220.75	209.30	89.92	22 12 45	4443.2	33.79	211.53

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-.5677	TRA	-1.7809	TC3	-.1808	BAU	.1783	SGT	1334.2	SGR	479.5	SG3	71.7	ST	535.7	SR	401.9	SS	481.8
RDE	-.5809	RRA	.3739	RC3	-.0482	FAU	.01560	RRT	-.2287	RRF	.2315	RTF	-.8055	CRT	.5706	CRS	.6873	CST	.9877
FDE	.4392	FRA	1.0118	FC3	-.1895	BSP	4021	SGB	1417.8	R23	-.0225	R13	.8067	LSA	769.2	MSA	297.9	SSA	15.8
BDE	.8123	BRA	1.8197	BC3	.1871	FSP	-176	SG1	1339.3	SG2	465.0	THA	174.66	EL1	601.8	EL2	293.8	ALF	31.47

LAUNCH DATE OCT 6 1965 FLIGHT TIME 94.00 ARRIVAL DATE JAN 8 1966

HELIOCENTRIC CONIC DISTANCE 213.135

RL	149.55	LAL	.00	LOL	12.54	VL	23.637	GAL	10.25	AZL	88.84	HCA	83.65	SMA	109.12	ECC	.40563	INC	1.1586	VI	29.796
RP	107.61	LAP	1.15	LOP	96.18	VP	35.362	GAP	-23.92	AZP	89.87	TAL	164.23	TAP	247.88	RCA	64.86	APO	153.39	V2	35.217
RC	46.433	GL	3.34	GP	-6.80	ZAL	54.32	ZAP	13.49	ETS	147.29	ZAE	151.55	ETE	202.14	ZAC	30.67	ETC	133.74	CLP	11.69

PLANETOCENTRIC CONIC

C3	65.074	VHL	8.067	DLA	-12.17	RAL	319.67	RAD	6569.2	VEL	13.654	PTH	2.50	VHP	14.604	DPA	-30.78	RAP	290.26	ECC	2.0710

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 15 53	2119.44	-17.15	35.55	198.20	112.88	9 51 13	1519.4	-13.91	28.37
90.00	18 5 42	5538.64	28.31	257.69	207.45	90.65	19 38 0	4938.6	28.10	249.04
100.00	10 31 1	1877.07	-18.60	17.07	197.54	113.83	11 2 18	1277.1	-15.23	9.90
100.00	19 33 15	5256.24	29.89	236.93	207.46	89.91	21 0 52	4656.2	29.56	228.14
110.00	11 25 13	1707.32	-22.44	2.27	195.62	116.49	11 53 40	1107.3	-18.70	355.13
110.00	20 55 33	4998.76	34.12	217.28	207.36	87.87	22 18 51	4398.8	33.45	208.11

DIFFERENTIAL CORRECTIONS								MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TDE	-.5711	TRA	-1.7859	TC3	-.1807	BAU	.1648	SGT	1390.4	SGR	478.6	SG3	77.8	ST	562.3	SR	393.6	SS	508.0
RDE	-.5424	RRA	.3697	RC3	-.0569	FAU	.01610	RRT	-.2487	RRF	.2534	RTF	-.8176	CRT	.5645	CRS	.6880	CST	.9865
FDE	.4660	FRA	1.0507	FC3	-.2141	BSP	4231	SGB	1470.5	R23	-.0257	R13	.8188	LSA	800.5	MSA	296.8	SSA	15.9
BDE	.7877	BRA	1.8237	BC3	.1894	FSP	-194	SG1	1396.1	SG2	461.6	THA	174.50	EL1	619.9	EL2	294.7	ALF	28.58

LAUNCH DATE OCT 6 1965 FLIGHT TIME 96.00 ARRIVAL DATE JAN 10 1966

HELIOCENTRIC CONIC DISTANCE 219.803

RL	149.55	LAL	.00	LOL	12.54	VL	23.942	GAL	9.75	AZL	88.67	HCA	86.89	SMA	110.44	ECC	.38785	INC	1.3320	VI	29.796
RP	107.58	LAP	1.33	LOP	99.42	VP	35.574	GAP	-22.78	AZP	89.93	TAL	163.87	TAP	250.75	RCA	67.61	APO	153.28	V2	35.224
RC	45.168	GL	4.08	GP	-7.18	ZAL	53.83	ZAP	12.50	ETS	142.52	ZAE	153.03	ETE	205.84	ZAC	32.25	ETC	135.55	CLP	10.26

PLANETOCENTRIC CONIC

C3	59.471	VHL	7.712	DLA	-11.31	RAL	319.96	RAD	6569.1	VEL	13.447	PTH	2.46	VHP	13.978	DPA	-30.99	RAP	292.39	ECC	1.9787

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 9 49	2126.65	-17.34	35.99	197.15	112.74	9 45 15	1526.7	-14.11	28.80
90.00	18 14 5	5487.86	28.29	253.98	205.63	88.79	19 45 33	4887.9	27.83	245.35
100.00	10 25 28	1882.59	-18.76	17.41	196.52	113.71	10 56 50	1282.6	-15.39	10.23
100.00	19 41 7	5207.15	29.83	233.28	205.58	88.00	21 7 54	4607.1	29.23	224.53
110.00	11 20 48	1709.26	-22.50	2.39	194.65	116.44	11 49 18	1109.3	-18.76	355.24
110.00	21 2 15	4953.25	33.95	213.74	205.31	85.78	22 24 49	4353.2	33.00	204.63

DIFFERENTIAL CORRECTIONS								MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TDE	-.5743	TRA	-1.7899	TC3	-.1786	BAU	.1517	SGT	1448.1	SGR	477.4	SG3	84.6	ST	589.6	SR	383.9	SS	535.9
RDE	-.5045	RRA	.3657	RC3	-.0669	FAU	.01664	RRT	-.2711	RRF	.2779	RTF	-.8291	CRT	.5572	CRS	.6877	CST	.9852
FDE	.4949	FRA	1.0918	FC3	-.2422	BSP	4446	SGB	1524.8	R23	-.0293	R13	.8304	LSA	833.7	MSA	294.8	SSA	16.0
BDE	.7644	BRA	1.8268	BC3	.1907	FSP	-214	SG1	1454.5	SG2	457.5	THA	174.33	EL1	639.2	EL2	294.1	ALF	25.78

LAUNCH DATE OCT 6 1965 FLIGHT TIME 98.00 ARRIVAL DATE JAN 12 1966

HELIOCENTRIC CONIC DISTANCE 226.501

RL	149.55	LAL	.00	LOL	12.54	VL	24.227	GAL	9.26	AZL	88.50	HCA	90.12	SMA	111.72	ECC	.37095	INC	1.5045	VI	29.796
RP	107.56	LAP	1.50	LOP	102.66	VP	35.773	GAP	-21.67	AZP	90.00	TAL	163.55	TAP	253.67	RCA	70.28	APO	153.16	V2	35.231
RC	44.025	GL	4.88	GP	-7.59	ZAL	53.40	ZAP	11.62	ETS	136.79	ZAE	154.50	ETE	210.22	ZAC	33.88	ETC	137.15	CLP	8.83

PLANETOCENTRIC CONIC

C3	54.411	VHL	7.376	DLA	-10.40	RAL	320.16	RAD	6569.0	VEL	13.258	PTH	2.42	VHP	13.373	DPA	-31.20	RAP	294.53	ECC	1.8955

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 3 10	2134.97	-17.56	36.50	196.04	112.58	9 38 45	1535.0	-14.35	29.30
90.00	18 22 23	5435.89	28.16	250.18	203.70	86.89	19 52 59	4835.9	27.43	241.59
100.00	10 19 21	1889.21	-18.94	17.82	195.42	113.57	10 50 50	1289.2	-15.59	10.62
100.00	19 48 54	5156.89	29.65	229.56	203.59	86.04	21 14 50	4556.9	28.79	220.86
110.00	11 15 52	1712.23	-22.59	2.57	193.60	116.37	11 44 24	1112.2	-18.86	355.42
110.00	21 8 52	4906.64	33.66	210.13	203.17	83.67	22 30 38	4306.6	32.42	201.12

DIFFERENTIAL CORRECTIONS								MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TDE	-.5776	TRA	-1.7926	TC3	-.1744	BAU	.1390	SGT	1507.1	SGR	476.1	SG3	92.0	ST	617.8	SR	372.8	SS	565.5
RDE	-.4670	RRA	.3622	RC3	-.0782	FAU	.01724	RRT	-.2962	RRF	.3053	RTF	-.8399	CRT	.5485	CRS	.6859	CST	.9839
FDE	.5262	FRA	1.1352	FC3	-.2743	BSP	4658	SGB	1580.6	R23	-.0334	R13	.8414	LSA	868.9	MSA	291.8	SSA	16.2
BDE	.7428	BRA	1.8288	BC3	.1911	FSP	-235	SG1	1514.4	SG2	452.6	THA	174.13	EL1	659.9	EL2	291.8	ALF	23.07

LAUNCH DATE OCT 6 1965 FLIGHT TIME 100.00 ARRIVAL DATE JAN 14 1966

HELIOCENTRIC CONIC DISTANCE 233.225

RL	149.55	LAL	.00	LOL	12.54	VL	24.492	GAL	8.80	AZL	88.32	HCA	93.36	SMA	112.95	ECC	.35489	INC	1.6771	VI	29.796
RP	107.55	LAP	1.67	LOP	105.90	VP	35.959	GAP	-20.61	AZP	90.10	TAL	163.27	TAP	256.63	RCA	72.86	APO	153.03	V2	35.237
RC	43.015	GL	5.76	GP	-8.05	ZAL	53.05	ZAP	10.91	ETS	130.01	ZAE	155.90	ETE	215.40	ZAC	35.56	ETC	138.58	CLP	7.38

PLANETOCENTRIC CONIC

C3	49.850	VHL	7.060	DLA	-9.44	RAL	320.29	RAD	6568.8	VEL	13.085	PTH	2.39	VHP	12.790	DPA	-31.43	RAP	296.67	ECC	1.8204

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 55 56	2144.69	-17.81	37.10	194.86	112.38	9 31 40	1544.7	-14.62	29.88
90.00	18 30 38	5382.71	27.90	246.32	201.67	84.97	20 0 21	4782.7	26.91	237.79
100.00	10 12 38	1897.20	-19.15	18.31	194.27	113.40	10 44 16	1297.2	-15.83	11.10
100.00	19 56 37	5105.43	29.35	225.76	201.52	84.07	21 21 42	4505.4	28.22	217.14
110.00	11 10 21	1716.49	-22.71	2.84	192.50	116.26	11 38 58	1116.5	-19.00	355.67
110.00	21 15 23	4858.91	33.24	206.47	200.94	81.54	22 36 22	4258.9	31.72	197.58

DIFFERENTIAL CORRECTIONS								MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TDE	-.5806	TRA	-1.7939	TC3	-.1672	BAU	.1269	SGT	1567.0	SGR	475.0	SG3	100.1	ST	646.6	SR	360.0	SS	596.9
RDE	-.4299	RRA	.3593	RC3	-.0911	FAU	.01791	RRT	-.3244	RRF	.3362	RTF	-.8502	CRT	.5377	CRS	.6824	CST	.9825
FDE	.5602	FRA	1.1811	FC3	-.3111	BSP	4885	SGB	1637.4	R23	-.0380	R13	.8517	LSA	905.9	MSA	288.1	SSA	16.3
BDE	.7224	BRA	1.8296	BC3	.1904	FSP	-259	SG1	1575.3	SG2	447.0	THA	173.89	EL1	681.7	EL2	287.9	ALF	20.47

LAUNCH DATE OCT 6 1965 FLIGHT TIME 102.00 ARRIVAL DATE JAN 16 1966

HELIOCENTRIC CONIC DISTANCE 239.972

RL	149.55	LAL	.00	LOL	12.54	VL	24.739	GAL	8.35	AZL	88.15	HCA	96.60	SMA	114.13	ECC	.33968	INC	1.8509	VI	29.796
RP	107.53	LAP	1.84	LOP	109.14	VP	36.133	GAP	-19.59	AZP	90.21	TAL	163.04	TAP	259.64	RCA	75.36	APO	152.89	V2	35.242
RC	42.147	GL	6.71	GP	-8.57	ZAL	52.77	ZAP	10.41	ETS	122.19	ZAE	157.16	ETE	221.49	ZAC	37.27	ETC	139.83	CLP	5.93

PLANETOCENTRIC CONIC

C3	45.745	VHL	6.763	DLA	-8.42	RAL	320.33	RAD	6568.7	VEL	12.927	PTH	2.36	VHP	12.227	DPA	-31.69	RAP	298.81	ECC	1.7528

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 48 2	2156.11	-18.11	37.81	193.64	112.15	9 23 58	1556.1	-14.95	30.56
90.00	18 38 53	5328.27	27.52	242.38	199.58	83.03	20 7 41	4728.3	26.26	233.94
100.00	10 5 18	1906.86	-19.41	18.91	193.07	113.19	10 37 5	1306.9	-16.11	11.68
100.00	20 4 18	5052.76	28.92	221.91	199.37	82.08	21 28 31	4452.8	27.52	213.38
110.00	11 4 14	1722.31	-22.89	3.20	191.36	116.11	11 32 56	1122.3	-19.19	356.01
110.00	21 21 51	4810.07	32.69	202.77	198.65	79.41	22 42 1	4210.1	30.89	194.01

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY				ORBIT DETERMINATION ACCURACY					
TDE	-.5844	TRA	-1.7944	TC3	-.1575	BAU	.1160	SGT	1628.4	SGR	474.3	SG3	109.1	ST	676.5	SR	345.4	SS	630.7
RDE	-.3930	RRA	.3573	RC3	-.1057	FAU	.01864	RRT	-.3559	RRF	.3708	RTF	-.8599	CRT	.5244	CRS	.6765	CST	.9811
FDE	.5976	FRA	1.2301	FC3	-.3527	BSP	5106	SGB	1696.1	R23	-.0434	R13	.8616	LSA	945.5	MSA	283.5	SSA	16.3
BDE	.7043	BRA	1.8296	BC3	.1897	FSP	-285	SG1	1637.8	SG2	440.7	THA	173.62	EL1	705.2	EL2	282.1	ALF	17.96

LAUNCH DATE OCT 6 1965 FLIGHT TIME 104.00 ARRIVAL DATE JAN 18 1966

HELIOCENTRIC CONIC DISTANCE 246.737

RL	149.55	LAL	.00	LOL	12.54	VL	24.969	GAL	7.92	AZL	87.97	HCA	99.84	SMA	115.26	ECC	.32528	INC	2.0271	VI	29.796
RP	107.51	LAP	2.00	LOP	112.38	VP	36.295	GAP	-18.60	AZP	90.35	TAL	162.85	TAP	262.69	RCA	77.77	APO	152.75	V2	35.247
RC	41.430	GL	7.75	GP	-9.14	ZAL	52.58	ZAP	10.16	ETS	113.53	ZAE	158.19	ETE	228.53	ZAC	39.01	ETC	140.93	CLP	4.46

PLANETOCENTRIC CONIC

C3	42.059	VHL	6.485	DLA	-7.34	RAL	320.29	RAD	6568.6	VEL	12.784	PTH	2.33	VHP	11.685	DPA	-31.98	RAP	300.96	ECC	1.6922

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 39 27	2169.56	-18.45	38.65	192.38	111.87	9 15 36	1569.6	-15.32	31.37
90.00	18 47 9	5272.53	26.99	238.38	197.42	81.10	20 15 1	4672.5	25.48	230.04
100.00	9 57 16	1918.50	-19.72	19.64	191.83	112.93	10 29 14	1318.5	-16.45	12.37
100.00	20 12 0	4998.83	28.35	218.00	197.17	80.10	21 35 19	4398.8	26.69	209.59
110.00	10 57 28	1730.00	-23.12	3.68	190.17	115.91	11 26 18	1130.0	-19.44	356.46
110.00	21 28 18	4760.09	32.01	199.03	196.32	77.30	22 47 38	4160.1	29.93	190.43

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY				ORBIT DETERMINATION ACCURACY					
TDE	-.5884	TRA	-1.7933	TC3	-.1444	BAU	.1064	SGT	1690.3	SGR	474.3	SG3	118.9	ST	707.1	SR	328.9	SS	666.7
RDE	-.3563	RRA	.3563	RC3	-.1223	FAU	.01944	RRT	-.3912	RRF	.4096	RTF	-.8690	CRT	.5076	CRS	.6673	CST	.9798
FDE	.6387	FRA	1.2822	FC3	-.4002	BSP	5332	SGB	1755.6	R23	-.0495	R13	.8709	LSA	987.4	MSA	278.2	SSA	16.4
BDE	.6879	BRA	1.8283	BC3	.1892	FSP	-313	SG1	1701.2	SG2	433.7	THA	173.30	EL1	729.9	EL2	274.5	ALF	15.53

LAUNCH DATE OCT 6 1965 FLIGHT TIME 106.00 ARRIVAL DATE JAN 20 1966

HELIOCENTRIC CONIC DISTANCE 253.515

RL	149.55	LAL	.00	LOL	12.54	VL	25.183	GAL	7.52	AZL	87.79	HCA	103.08	SMA	116.34	ECC	.31169	INC	2.2067	VI	29.796
RP	107.50	LAP	2.15	LOP	115.63	VP	36.447	GAP	-17.65	AZP	90.50	TAL	162.70	TAP	265.79	RCA	80.08	APO	152.61	V2	35.251
RC	40.873	GL	8.88	GP	-9.78	ZAL	52.47	ZAP	10.21	ETS	104.45	ZAE	158.90	ETE	236.44	ZAC	40.79	ETC	141.89	CLP	2.97

PLANETOCENTRIC CONIC

C3	38.758	VHL	6.226	DLA	-6.19	RAL	320.17	RAD	6568.5	VEL	12.654	PTH	2.30	VHP	11.163	DPA	-32.31	RAP	303.11	ECC	1.6379

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 30 6	2185.39	-18.85	39.64	191.10	111.53	9 6 31	1585.4	-15.76	32.33
90.00	18 55 29	5215.43	26.33	234.34	195.23	79.17	20 22 24	4615.4	24.56	226.11
100.00	9 48 30	1932.47	-20.09	20.51	190.56	112.61	10 20 42	1332.5	-16.85	13.21
100.00	20 19 46	4943.59	27.64	214.05	194.93	78.14	21 42 9	4343.6	25.72	205.77
110.00	10 50 1	1739.86	-23.41	4.29	188.96	115.65	11 19 1	1139.9	-19.76	357.05
110.00	21 34 44	4708.96	31.18	195.27	193.97	75.22	22 53 13	4109.0	28.83	186.86

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY				ORBIT DETERMINATION ACCURACY					
TDE	-.5933	TRA	-1.7908	TC3	-.1277	BAU	.0986	SGT	1752.7	SGR	475.6	SG3	129.6	ST	738.6	SR	310.2	SS	705.5
RDE	-.3194	RRA	.3566	RC3	-.1410	FAU	.02032	RRT	-.4305	RRF	.4526	RTF	-.8776	CRT	.4856	CRS	.6534	CST	.9784
FDE	.6845	FRA	1.3378	FC3	-.4540	BSP	5563	SGB	1816.1	R23	-.0565	R13	.8797	LSA	1032.1	MSA	272.1	SSA	16.5
BDE	.6738	BRA	1.8260	BC3	.1902	FSP	-345	SG1	1765.3	SG2	426.2	THA	172.92	EL1	756.0	EL2	265.0	ALF	13.18

LAUNCH DATE OCT 6 1965 FLIGHT TIME 108.00 ARRIVAL DATE JAN 22 1966

HELIOCENTRIC CONIC DISTANCE 260.304

RL	149.55	LAL	.00	LOL	12.54	VL	25.382	GAL	7.13	AZL	87.61	HCA	106.33	SMA	117.38	ECC	.29888	INC	2.3912	VI	29.796
RP	107.49	LAP	2.29	LOP	118.88	VP	36.587	GAP	-16.73	AZP	90.67	TAL	162.60	TAP	268.93	RCA	82.30	APO	152.46	V2	35.254
RC	40.482	GL	10.11	GP	-10.49	ZAL	52.46	ZAP	10.59	ETS	95.50	ZAE	159.18	ETE	244.96	ZAC	42.60	ETC	142.71	CLP	1.47

PLANETOCENTRIC CONIC

C3	35.813	VHL	5.984	DLA	-4.97	RAL	319.95	RAD	6568.4	VEL	12.537	PTH	2.27	VHP	10.661	DPA	-32.69	RAP	305.26	ECC	1.5894

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 19 56	2203.98	-19.31	40.81	189.80	111.12	8 56 40	1604.0	-16.27	33.46
90.00	19 3 56	5156.90	25.51	230.24	193.01	77.28	20 29 53	4556.9	23.51	222.15
100.00	9 38 57	1949.12	-20.52	21.56	189.28	112.22	10 11 26	1349.1	-17.33	14.22
100.00	20 27 37	4886.99	26.78	210.06	192.67	76.20	21 49 4	4287.0	24.62	201.93
110.00	10 41 50	1752.24	-23.77	5.07	187.74	115.32	11 11 2	1152.2	-20.17	357.79
110.00	21 41 13	4656.64	30.21	191.51	191.81	73.18	22 58 50	4056.6	27.61	183.28

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY				ORBIT DETERMINATION ACCURACY					
TDE	-.5994	TRA	-1.7877	TC3	-.1073	BAU	.0931	SGT	1815.9	SGR	478.9	SG3	141.4	ST	771.4	SR	289.3	SS	747.6
RDE	-.2822	RRA	.3586	RC3	-.1620	FAU	.02128	RRT	-.4738	RRF	.5000	RTF	-.8857	CRT	.4561	CRS	.6325	CST	.9772
FDE	.7356	FRA	1.3973	FC3	-.5145	BSP	5775	SGB	1878.0	R23	-.0645	R13	.8880	LSA	1080.2	MSA	265.4	SSA	16.5
BDE	.6625	BRA	1.8233	BC3	.1944	FSP	-380	SG1	1830.8	SG2	418.3	THA	172.48	EL1	783.9	EL2	253.4	ALF	10.86

LAUNCH DATE OCT 6 1965 FLIGHT TIME 110.00 ARRIVAL DATE JAN 24 1966

HELIOCENTRIC CONIC DISTANCE 267.100

RL 149.55 LAL .00 LOL 12.54 VL 25.567 GAL 6.75 AZL 87.42 HCA 109.57 SMA 118.36 ECC .28683 INC 2.5820 V1 29.796
RP 107.48 LAP 2.43 LOP 122.12 VP 36.718 GAP -15.83 AZP 90.87 TAL 162.55 TAP 272.12 RCA 84.41 APO 152.31 V2 35.256
RC 40.263 GL 11.45 GP -11.29 ZAL 52.54 ZAP 11.29 ETS 87.21 ZAE 158.38 ETE 253.69 ZAC 44.44 ETC 143.40 CLP -.07

PLANETOCENTRIC CONIC

C3 33.197 VHL 5.762 DLA -3.66 RAL 319.65 RAD 6568.3 VEL 12.433 PTH 2.25 VHP 10.179 DPA -33.14 RAP 307.41 ECC 1.5463

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 8 54	2225.74	-19.84	42.19	188.50	110.63	8 46 0	1625.7	-16.85	34.79
90.00	19 12 34	5096.85	24.55	226.11	190.79	75.42	20 37 31	4496.9	22.30	218.16
100.00	9 28 32	1968.86	-21.03	22.81	188.01	111.75	10 1 21	1368.9	-17.89	15.42
100.00	20 35 37	4828.96	25.78	206.04	190.42	74.32	21 56 6	4229.0	23.38	198.07
110.00	10 32 51	1767.50	-24.21	6.04	186.52	114.90	11 2 19	1167.5	-20.65	358.70
110.00	21 47 48	4603.09	29.09	187.74	189.26	71.21	23 4 31	4003.1	26.25	179.71

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.6060 TRA-1.7825 TC3 -.0831 BAU .0903 SGT 1878.1 SGR 485.0 SG3 154.4 ST 804.4 SR 266.1 SS 793.1
RDE -.2443 RRA .3625 RC3 -.1856 FAU .02233 RRT -.5212 RRF .5515 RTF -.8932 CRT .4142 CRS .6007 CST .9759
FDE .7930 FRA 1.4611 FC3 -.5822 BSP 6018 SGB 1939.7 R23 -.0733 R13 .8959 LSA 1131.3 MSA 258.3 SSA 16.5
BDE .6533 BRA 1.8190 BC3 .2034 FSP -419 SG1 1895.8 SG2 410.1 THA 171.96 EL1 812.6 EL2 239.7 ALF 8.55

LAUNCH DATE OCT 6 1965 FLIGHT TIME 112.00 ARRIVAL DATE JAN 26 1966

HELIOCENTRIC CONIC DISTANCE 273.899

RL 149.55 LAL .00 LOL 12.54 VL 25.738 GAL 6.40 AZL 87.22 HCA 112.81 SMA 119.30 ECC .27553 INC 2.7806 V1 29.796
RP 107.48 LAP 2.56 LOP 125.37 VP 36.839 GAP -14.97 AZP 91.08 TAL 162.54 TAP 275.35 RCA 86.43 APO 152.17 V2 35.258
RC 40.219 GL 12.90 GP -12.19 ZAL 52.71 ZAP 12.30 ETS 79.93 ZAE 158.26 ETE 262.11 ZAC 46.31 ETC 143.98 CLP -1.63

PLANETOCENTRIC CONIC

C3 30.887 VHL 5.558 DLA -2.26 RAL 319.26 RAD 6568.2 VEL 12.339 PTH 2.23 VHP 9.718 DPA -33.67 RAP 309.57 ECC 1.5083

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 56 55	2251.10	-20.44	43.81	187.22	110.04	8 34 26	1651.1	-17.52	36.34
90.00	19 21 27	5035.18	23.42	221.94	188.58	73.62	20 45 22	4435.2	20.96	214.14
100.00	9 17 12	1992.10	-21.61	24.29	186.75	111.17	9 50 24	1392.1	-18.54	16.84
100.00	20 43 50	4769.42	24.62	202.00	188.18	72.49	22 3 20	4169.4	21.99	194.13
110.00	10 23 2	1786.03	-24.74	7.22	185.31	114.38	10 52 48	1186.0	-21.24	359.82
110.00	21 54 30	4548.26	27.83	183.97	186.94	69.30	23 10 18	3948.3	24.76	176.14

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.6159 TRA-1.7763 TC3 -.0545 BAU .0903 SGT 1940.5 SGR 495.0 SG3 168.6 ST 839.9 SR 240.5 SS 842.7
RDE -.2052 RRA .3688 RC3 -.2119 FAU .02346 RRT -.5713 RRF .6061 RTF -.9005 CRT .3543 CRS .5509 CST .9751
FDE .8582 FRA 1.5295 FC3 -.6575 BSP 6244 SGB 2002.6 R23 -.0835 R13 .9035 LSA 1187.6 MSA 250.5 SSA 16.4
BDE .6491 BRA 1.8142 BC3 .2188 FSP -461 SG1 1961.9 SG2 401.8 THA 171.34 EL1 844.5 EL2 223.7 ALF 6.23

LAUNCH DATE OCT 6 1965 FLIGHT TIME 114.00 ARRIVAL DATE JAN 28 1966

HELIOCENTRIC CONIC DISTANCE 280.699

RL 149.55 LAL .00 LOL 12.54 VL 25.896 GAL 6.06 AZL 87.01 HCA 116.05 SMA 120.18 ECC .26493 INC 2.9889 V1 29.796
RP 107.48 LAP 2.68 LOP 128.62 VP 36.951 GAP -14.14 AZP 91.31 TAL 162.57 TAP 278.62 RCA 88.34 APO 152.02 V2 35.259
RC 40.350 GL 14.47 GP -13.21 ZAL 53.00 ZAP 13.59 ETS 73.80 ZAE 157.07 ETE 269.79 ZAC 48.21 ETC 144.44 CLP -3.23

PLANETOCENTRIC CONIC

C3 28.863 VHL 5.372 DLA -.76 RAL 318.78 RAD 6568.2 VEL 12.257 PTH 2.21 VHP 9.277 DPA -34.29 RAP 311.74 ECC 1.4750

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 43 53	2280.56	-21.11	45.70	185.97	109.32	8 21 53	1680.6	-18.29	38.17
90.00	19 30 38	4971.77	22.14	217.73	186.41	71.89	20 53 30	4371.8	19.46	210.09
100.00	9 4 52	2019.31	-22.27	26.04	185.52	110.48	9 38 32	1419.3	-19.28	18.52
100.00	20 52 20	4708.24	23.30	197.93	185.99	70.73	22 10 48	4108.2	20.46	190.29
110.00	10 12 18	1808.23	-25.36	8.65	184.15	113.73	10 42 26	1208.2	-21.93	1.17
110.00	22 1 23	4492.09	26.42	180.21	184.68	67.48	23 16 15	3892.1	23.14	172.59

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.6266 TRA-1.7689 TC3 -.0222 BAU .0935 SGT 2001.6 SGR 510.3 SG3 184.1 ST 875.7 SR 213.2 SS 896.5
RDE -.1645 RRA .3779 RC3 -.2412 FAU .02468 RRT -.6237 RRF .6628 RTF -.9072 CRT .2613 CRS .4702 CST .9742
FDE .9318 FRA 1.6025 FC3 -.7404 BSP 6474 SGB 2065.6 R23 -.0949 R13 .9107 LSA 1247.7 MSA 242.9 SSA 16.3
BDE .6478 BRA 1.8088 BC3 .2422 FSP -508 SG1 2027.8 SG2 393.7 THA 170.61 EL1 877.6 EL2 205.4 ALF 3.85

LAUNCH DATE OCT 6 1965 FLIGHT TIME 116.00 ARRIVAL DATE JAN 30 1966

HELIOCENTRIC CONIC DISTANCE 287.496

RL 149.55 LAL .00 LOL 12.54 VL 26.043 GAL 5.74 AZL 86.79 HCA 119.30 SMA 121.02 ECC .25504 INC 3.2091 V1 29.796
RP 107.48 LAP 2.80 LOP 131.87 VP 37.054 GAP -13.33 AZP 91.57 TAL 162.64 TAP 281.93 RCA 90.15 APO 151.88 V2 35.259
RC 40.657 GL 16.18 GP -14.37 ZAL 53.39 ZAP 15.15 ETS 68.79 ZAE 155.46 ETE 276.46 ZAC 50.15 ETC 144.79 CLP -4.87

PLANETOCENTRIC CONIC

C3 27.110 VHL 5.207 DLA .84 RAL 318.21 RAD 6568.1 VEL 12.185 PTH 2.19 VHP 8.857 DPA -35.03 RAP 313.93 ECC 1.4462

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 29 43	2314.63	-21.86	47.92	184.78	108.46	8 8 18	1714.6	-19.14	40.31
90.00	19 40 14	4906.44	20.70	213.49	184.30	70.24	21 2 1	4306.4	17.82	206.00
100.00	8 51 27	2050.99	-23.00	28.11	184.35	109.63	9 25 38	1451.0	-20.12	20.50
100.00	21 1 11	4645.32	21.83	193.83	183.85	69.06	22 18 36	4045.3	18.79	186.36
110.00	10 0 36	1834.57	-26.07	10.37	183.04	112.94	10 31 10	1234.6	-22.73	2.80
110.00	22 8 32	4434.51	24.86	176.46	182.48	65.75	23 22 26	3834.5	21.38	169.04

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.6381 TRA-1.7579 TC3 .0168 BAU .0994 SGT 2058.3 SGR 532.6 SG3 201.0 ST 911.0 SR 185.8 SS 954.5
RDE -.1214 RRA .3903 RC3 -.2737 FAU .02604 RRT -.6771 RRF .7196 RTF -.9136 CRT .1122 CRS .3345 CST .9735
FDE 1.0150 FRA 1.6796 FC3 -.8316 BSP 6754 SGB 2126.0 R23 -.1064 R13 .9177 LSA 1311.5 MSA 235.4 SSA 16.0
BDE .6496 BRA 1.8007 BC3 .2743 FSP -561 SG1 2090.7 SG2 385.8 THA 169.71 EL1 911.3 EL2 184.6 ALF 1.37

LAUNCH DATE OCT 6 1965 FLIGHT TIME 118.00 ARRIVAL DATE FEB 1 1966

HELIOCENTRIC CONIC DISTANCE 294.289

RL 149.55 LAL .00 LOL 12.54 VL 26.178 GAL 5.44 AZL 86.56 HCA 122.54 SMA 121.80 ECC .24581 INC 3.4438 V1 29.796
RP 107.48 LAP 2.90 LOP 135.12 VP 37.148 GAP -12.55 AZP 91.85 TAL 162.74 TAP 285.28 RCA 91.86 APO 151.74 V2 35.258
RC 41.135 GL 18.02 GP -15.68 ZAL 53.91 ZAP 16.96 ETS 64.78 ZAE 153.51 ETE 282.01 ZAC 52.14 ETC 145.02 CLP -6.55

PLANETOCENTRIC CONIC

C3 25.614 VHL 5.061 DLA 2.56 RAL 317.54 RAD 6568.0 VEL 12.124 PTH 2.17 VHP 8.460 DPA -35.91 RAP 316.14 ECC 1.4215

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 14 18	2353.93	-22.69	50.51	183.66	107.41	7 53 32	1753.9	-20.09	42.80
90.00	19 50 21	4839.03	19.09	209.20	182.27	68.68	21 11 0	4239.0	16.02	201.86
100.00	8 36 50	2087.70	-23.82	30.53	183.26	108.61	9 11 38	1487.7	-21.06	22.82
100.00	21 10 30	4580.49	20.20	189.71	181.80	67.48	22 26 51	3980.5	16.97	182.41
110.00	9 47 49	1865.52	-26.87	12.41	182.02	111.97	10 18 55	1265.5	-23.65	4.73
110.00	22 16 0	4375.43	23.16	172.72	180.36	64.13	23 28 56	3775.4	19.49	165.50

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.6552 TRA-1.7483 TC3 .0551 BAU .1076 SGT 2116.3 SGR 563.7 SG3 219.5 ST 950.5 SR 162.4 SS 1018.7
RDE -.0748 RRA .4069 RC3 -.3093 FAU .02742 RRT -.7278 RRF .7739 RTF -.9194 CRT -.1261 CRS .1030 CST .9733
FDE 1.1113 FRA 1.7624 FC3 -.9269 BSP 6975 SGB 2190.1 R23 -.1203 R13 .9243 LSA 1384.0 MSA 228.0 SSA 15.7
BDE .6595 BRA 1.7950 BC3 .3142 FSP -617 SG1 2157.0 SG2 379.3 THA 168.67 EL1 950.7 EL2 161.1 ALF 178.73

LAUNCH DATE OCT 6 1965 FLIGHT TIME 120.00 ARRIVAL DATE FEB 3 1966

HELIOCENTRIC CONIC DISTANCE 301.074

RL 149.55 LAL .00 LOL 12.54 VL 26.303 GAL 5.16 AZL 86.30 HCA 125.78 SMA 122.54 ECC .23722 INC 3.6960 V1 29.796
RP 107.48 LAP 3.00 LOP 138.37 VP 37.235 GAP -11.80 AZP 92.16 TAL 162.88 TAP 288.66 RCA 93.47 APO 151.61 V2 35.257
RC 41.780 GL 20.00 GP -17.18 ZAL 54.55 ZAP 19.02 ETS 61.62 ZAE 151.29 ETE 286.47 ZAC 54.17 ETC 145.15 CLP -8.28

PLANETOCENTRIC CONIC

C3 24.368 VHL 4.936 DLA 4.41 RAL 316.79 RAD 6568.0 VEL 12.073 PTH 2.16 VHP 8.085 DPA -36.96 RAP 318.39 ECC 1.4010

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 57 29	2399.12	-23.58	53.52	182.65	106.15	7 37 29	1799.1	-21.14	45.70
90.00	20 1 8	4769.28	17.31	204.86	180.34	67.23	21 20 37	4169.3	14.07	197.67
100.00	8 20 54	2130.08	-24.71	33.36	182.28	107.37	8 56 24	1530.1	-22.10	25.54
100.00	21 20 24	4513.55	18.40	185.56	179.84	66.02	22 35 38	3913.6	15.00	178.41
110.00	9 33 53	1901.65	-27.77	14.84	181.10	110.79	10 5 35	1301.6	-24.69	7.02
110.00	22 23 54	4314.75	21.31	168.98	178.35	62.62	23 35 49	3714.7	17.47	161.95

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.6761 TRA-1.7377 TC3 .0952 BAU .1176 SGT 2171.7 SGR 606.2 SG3 239.3 ST 992.0 SR 152.4 SS 1068.9
RDE -.0234 RRA .4283 RC3 -.3480 FAU .02887 RRT -.7746 RRF .8238 RTF -.9249 CRT -.4600 CRS -.2464 CST .9733
FDE 1.2219 FRA 1.8498 FC3-1.0256 BSP 7195 SGB 2254.8 R23 -.1350 R13 .9306 LSA 1464.2 MSA 221.0 SSA 15.2
BDE .6765 BRA 1.7897 BC3 .3608 FSP -678 SG1 2223.4 SG2 374.5 THA 167.44 EL1 994.5 EL2 135.0 ALF 175.88

LAUNCH DATE OCT 6 1965 FLIGHT TIME 122.00 ARRIVAL DATE FEB 5 1966

HELIOCENTRIC CONIC DISTANCE 307.849

RL 149.55 LAL .00 LOL 12.54 VL 26.418 GAL 4.89 AZL 86.03 HCA 129.02 SMA 123.23 ECC .22926 INC 3.9697 V1 29.796
RP 107.49 LAP 3.08 LOP 141.62 VP 37.315 GAP -11.07 AZP 92.50 TAL 163.05 TAP 292.07 RCA 94.98 APO 151.48 V2 35.255
RC 42.583 GL 22.14 GP -18.90 ZAL 55.31 ZAP 21.32 ETS 59.18 ZAE 148.86 ETE 289.93 ZAC 56.27 ETC 145.18 CLP -10.07

PLANETOCENTRIC CONIC

C3 23.369 VHL 4.834 DLA 6.38 RAL 315.94 RAD 6567.9 VEL 12.031 PTH 2.15 VHP 7.736 DPA -38.20 RAP 320.69 ECC 1.3846

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 39 6	2451.02	-24.51	57.03	181.77	104.63	7 19 57	1851.0	-22.27	49.09
90.00	20 12 44	4696.89	15.34	200.45	178.53	65.91	21 31 0	4096.9	11.96	193.40
100.00	8 3 29	2178.87	-25.67	36.67	181.43	105.88	8 39 48	1578.9	-23.24	28.71
100.00	21 31 2	4444.27	16.43	181.35	178.01	64.67	22 45 6	3844.3	12.88	174.36
110.00	9 18 40	1943.56	-28.75	17.71	180.33	109.35	9 51 4	1343.6	-25.84	9.74
110.00	22 32 20	4252.32	19.31	165.24	176.47	61.23	23 43 12	3652.3	15.32	158.40

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.7010 TRA-1.7264 TC3 .1354 BAU .1289 SGT 2224.1 SGR 662.5 SG3 260.5 ST 1035.3 SR 168.4 SS 1164.9
RDE .0344 RRA .4557 RC3 -.3897 FAU .03033 RRT -.8158 RRF .8672 RTF -.9299 CRT -.7721 CRS -.6091 CST .9737
FDE 1.3483 FRA 1.9411 FC3-1.1236 BSP 7413 SGB 2320.7 R23 -.1500 R13 .9367 LSA 1552.7 MSA 215.0 SSA 14.7
BDE .7019 BRA 1.7855 BC3 .4126 FSP -743 SG1 2290.7 SG2 372.0 THA 165.96 EL1 1043.6 EL2 106.2 ALF 172.77

LAUNCH DATE OCT 6 1965 FLIGHT TIME 124.00 ARRIVAL DATE FEB 7 1966

HELIOCENTRIC CONIC DISTANCE 314.612

RL 149.55 LAL .00 LOL 12.54 VL 26.524 GAL 4.64 AZL 85.73 HCA 132.26 SMA 123.87 ECC .22189 INC 4.2697 V1 29.796
RP 107.50 LAP 3.16 LOP 144.87 VP 37.387 GAP -10.36 AZP 92.87 TAL 163.25 TAP 295.51 RCA 96.38 APO 151.35 V2 35.252
RC 43.538 GL 24.45 GP -20.87 ZAL 56.22 ZAP 23.90 ETS 57.32 ZAE 146.24 ETE 292.50 ZAC 58.45 ETC 145.09 CLP -11.91

PLANETOCENTRIC CONIC

C3 22.620 VHL 4.756 DLA 8.50 RAL 314.99 RAD 6567.9 VEL 12.000 PTH 2.14 VHP 7.415 DPA -39.67 RAP 323.08 ECC 1.3723

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 18 55	2510.60	-25.48	61.13	181.06	102.80	7 0 45	1910.6	-23.46	53.04
90.00	20 25 22	4621.43	13.20	195.95	176.89	64.72	21 42 23	4021.4	9.68	189.03
100.00	7 44 23	2234.95	-26.65	40.55	180.75	104.06	8 21 38	1634.9	-24.46	32.44
100.00	21 42 35	4372.32	14.28	177.09	176.34	63.46	22 55 28	3772.3	10.61	170.23
110.00	9 2 1	1991.97	-29.79	21.09	179.74	107.59	9 35 13	1392.0	-27.10	12.94
110.00	22 41 26	4188.06	17.16	161.50	174.74	59.97	23 51 14	3588.1	13.04	154.81

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.7315 TRA-1.7138 TC3 .1743 BAU .1414 SGT 2271.9 SGR 735.6 SG3 282.8 ST 1081.1 SR 216.8 SS 1247.2
RDE .1010 RRA .4899 RC3 -.4339 FAU .03177 RRT -.8504 RRF .9031 RTF -.9345 CRT -.9360 CRS -.8349 CST .9745
FDE 1.4933 FRA 2.0341 FC3-1.2157 BSP 7628 SGB 2388.1 R23 -.1642 R13 .9428 LSA 1651.4 MSA 209.8 SSA 13.9
BDE .7384 BRA 1.7825 BC3 .4675 FSP -811 SG1 2358.8 SG2 372.8 THA 164.20 EL1 1100.1 EL2 75.0 ALF 169.32

LAUNCH DATE OCT 6 1965 FLIGHT TIME 126.00 ARRIVAL DATE FEB 9 1966

HELIOCENTRIC CONIC DISTANCE 321.362

RL 149.55 LAL .00 LOL 12.54 VL 26.620 GAL 4.41 AZL 85.40 HCA 135.50 SMA 124.47 ECC .21509 INC 4.6021 V1 29.796
RP 107.51 LAP 3.22 LOP 148.12 VP 37.452 GAP -9.67 AZP 93.29 TAL 163.47 TAP 298.97 RCA 97.69 APO 151.24 V2 35.249
RC 44.633 GL 26.92 GP -23.14 ZAL 57.26 ZAP 26.75 ETS 55.95 ZAE 143.46 ETE 294.30 ZAC 60.73 ETC 144.91 CLP -13.82

PLANETOCENTRIC CONIC

C3 22.132 VHL 4.704 DLA 10.76 RAL 313.94 RAD 6567.9 VEL 11.980 PTH 2.14 VHP 7.125 DPA -41.42 RAP 325.59 ECC 1.3642

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 56 35	2579.10	-26.42	65.93	180.54	100.57	6 39 34	1979.1	-24.69	57.68
90.00	20 39 21	4542.34	10.85	191.32	175.44	63.68	21 55 3	3942.3	7.23	184.52
100.00	7 23 18	2299.43	-27.64	45.09	180.27	101.87	8 1 38	1699.4	-25.72	36.81
100.00	21 55 19	4297.25	11.96	172.73	174.86	62.40	23 6 56	3697.2	8.17	165.99
110.00	8 43 44	2047.74	-30.87	25.07	179.37	105.46	9 17 52	1447.7	-28.44	16.72
110.00	22 51 23	4121.70	14.86	157.73	173.18	58.86	24 0 4	3521.7	10.62	151.19

DIFFERENTIAL CORRECTIONS

TDE -.7650 TRA-1.6982 TC3 .2143 BAU .1556
RDE .1789 RRA .5320 RC3 -.4802 FAU .03319
FDE 1.6558 FRA 2.1246 FC3-1.2981 BSP 7913
BDE .7856 BRA 1.7796 BC3 .5259 FSP -885

MID-COURSE EXECUTION ACCURACY

SGT 2311.1 SGR 828.6 SG3 305.4
RRT -.8787 RRF .9315 RTF -.9389
SGB 2455.1 R23 -.1756 R13 .9489
SG1 2426.0 SG2 376.9 THA 162.07

ORBIT DETERMINATION ACCURACY

ST 1125.6 SR 294.6 SS 1333.4
CRT -.9892 CRS -.9342 CST .9753
LSA 1757.6 MSA 206.1 SSA 13.0
EL1 1162.8 EL2 41.8 ALF 165.46

LAUNCH DATE OCT 6 1965 FLIGHT TIME 128.00 ARRIVAL DATE FEB 11 1966

HELIOCENTRIC CONIC DISTANCE 328.096

RL 149.55 LAL .00 LOL 12.54 VL 26.709 GAL 4.19 AZL 85.03 HCA 138.73 SMA 125.02 ECC .20884 INC 4.9750 V1 29.796
RP 107.52 LAP 3.28 LOP 151.37 VP 37.511 GAP -9.01 AZP 93.74 TAL 163.71 TAP 302.44 RCA 98.91 APO 151.13 V2 35.244
RC 45.858 GL 29.56 GP -25.76 ZAL 58.46 ZAP 29.93 ETS 54.97 ZAE 140.50 ETE 295.42 ZAC 63.13 ETC 144.64 CLP -15.79

PLANETOCENTRIC CONIC

C3 21.928 VHL 4.683 DLA 13.17 RAL 312.80 RAD 6567.9 VEL 11.971 PTH 2.13 VHP 6.871 DPA -43.48 RAP 328.29 ECC 1.3609

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 31 41	2658.20	-27.29	71.55	180.26	97.88	6 15 59	2058.2	-25.91	63.16
90.00	20 55 6	4458.75	8.29	186.52	174.23	62.83	22 9 24	3858.8	4.58	179.80
100.00	6 59 53	2373.75	-28.56	50.42	180.04	99.21	7 39 27	1773.8	-27.00	41.96
100.00	22 9 35	4218.43	9.43	168.24	173.62	61.50	23 19 53	3618.4	5.55	161.60
110.00	8 23 33	2111.94	-31.94	29.77	179.28	102.87	8 58 45	1511.9	-29.84	21.19
110.00	23 2 24	4053.01	12.41	153.92	171.85	57.89	24 9 57	3453.0	8.08	147.50

DIFFERENTIAL CORRECTIONS

TDE -.8084 TRA-1.6845 TC3 .2436 BAU .1699
RDE .2731 RRA .5843 RC3 -.5260 FAU .03430
FDE 1.8407 FRA 2.2115 FC3-1.3542 BSP 8152
BDE .8533 BRA 1.7830 BC3 .5797 FSP -957

MID-COURSE EXECUTION ACCURACY

SGT 2347.6 SGR 945.2 SG3 327.9
RRT -.9000 RRF .9527 RTF -.9428
SGB 2530.8 R23 -.1846 R13 .9549
SG1 2501.1 SG2 386.7 THA 159.57

ORBIT DETERMINATION ACCURACY

ST 1175.5 SR 400.5 SS 1425.8
CRT -.9994 CRS -.9738 CST .9767
LSA 1879.8 MSA 203.3 SSA 11.9
EL1 1241.7 EL2 12.6 ALF 161.19

LAUNCH DATE OCT 6 1965 FLIGHT TIME 130.00 ARRIVAL DATE FEB 13 1966

HELIOCENTRIC CONIC DISTANCE 334.812

RL 149.55 LAL .00 LOL 12.54 VL 26.790 GAL 3.99 AZL 84.60 HCA 141.97 SMA 125.53 ECC .20312 INC 5.3991 V1 29.796
RP 107.54 LAP 3.32 LOP 154.62 VP 37.564 GAP -8.36 AZP 94.26 TAL 163.96 TAP 305.93 RCA 100.03 APO 151.03 V2 35.239
RC 47.202 GL 32.38 GP -28.78 ZAL 59.80 ZAP 33.45 ETS 54.29 ZAE 137.31 ETE 295.97 ZAC 65.70 ETC 144.28 CLP -17.83

PLANETOCENTRIC CONIC

C3 22.046 VHL 4.695 DLA 15.74 RAL 311.54 RAD 6567.9 VEL 11.976 PTH 2.13 VHP 6.660 DPA -45.90 RAP 331.25 ECC 1.3628

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 3 31	2750.28	-27.97	78.20	180.23	94.61	5 49 21	2150.3	-27.04	69.66
90.00	21 13 14	4369.29	5.48	181.45	173.33	62.17	22 26 3	3769.3	1.71	174.80
100.00	6 33 33	2459.92	-29.34	56.70	180.08	95.99	7 14 33	1859.9	-28.20	48.08
100.00	22 25 53	4134.88	6.69	163.56	172.67	60.80	23 34 48	3534.9	2.74	156.99
110.00	8 1 7	2185.95	-32.93	35.32	179.51	99.73	8 37 33	1585.9	-31.24	26.50
110.00	23 14 48	3981.62	9.79	150.04	170.78	57.08	24 21 10	3381.6	5.39	143.72

DIFFERENTIAL CORRECTIONS

TDE -.8605 TRA-1.6711 TC3 .2645 BAU .1851
RDE .3886 RRA .6480 RC3 -.5696 FAU .03505
FDE 2.0445 FRA 2.2869 FC3-1.3764 BSP 8389
BDE .9441 BRA 1.7923 BC3 .6280 FSP -1023

MID-COURSE EXECUTION ACCURACY

SGT 2377.6 SGR 1089.0 SG3 348.8
RRT -.9159 RRF .9681 RTF -.9462
SGB 2615.1 R23 -.1886 R13 .9611
SG1 2584.0 SG2 402.3 THA 156.64

ORBIT DETERMINATION ACCURACY

ST 1227.4 SR 534.7 SS 1520.5
CRT -.9976 CRS -.9896 CST .9782
LSA 2015.8 MSA 201.7 SSA 10.8
EL1 1338.4 EL2 34.0 ALF 156.50

LAUNCH DATE OCT 6 1965 FLIGHT TIME 132.00 ARRIVAL DATE FEB 15 1966

HELIOCENTRIC CONIC DISTANCE 341.510

RL 149.55 LAL .00 LOL 12.54 VL 26.863 GAL 3.80 AZL 84.11 HCA 145.20 SMA 126.00 ECC .19789 INC 5.8890 V1 29.796
RP 107.55 LAP 3.36 LOP 157.87 VP 37.611 GAP -7.73 AZP 94.84 TAL 164.22 TAP 309.41 RCA 101.07 APO 150.94 V2 35.234
RC 48.656 GL 35.39 GP -32.26 ZAL 61.30 ZAP 37.34 ETS 53.85 ZAE 133.86 ETE 296.04 ZAC 68.47 ETC 143.86 CLP -19.92

PLANETOCENTRIC CONIC

C3 22.552 VHL 4.749 DLA 18.48 RAL 310.16 RAD 6567.9 VEL 11.997 PTH 2.14 VHP 6.502 DPA -48.72 RAP 334.61 ECC 1.3711

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 30 59	2859.03	-28.31	86.14	180.46	90.65	5 18 38	2259.0	-27.92	77.49
90.00	21 34 46	4271.53	2.35	175.97	172.85	61.77	22 45 58	3671.5	-1.45	169.34
100.00	6 3 26	2560.89	-29.83	64.17	180.42	92.09	6 46 7	1960.9	-29.22	55.41
100.00	22 45 0	4044.90	3.67	158.58	172.11	60.31	23 52 25	3444.9	-.31	152.05
110.00	7 35 53	2271.64	-33.73	41.88	180.10	95.93	8 13 45	1671.6	-32.54	32.84
110.00	23 29 2	3906.92	7.00	146.06	170.05	56.46	24 34 9	3306.9	2.55	139.81

DIFFERENTIAL CORRECTIONS

TDE -.9200 TRA-1.6548 TC3 .2795 BAU .2018
RDE .5324 RRA .7240 RC3 -.6081 FAU .03532
FDE 2.2602 FRA 2.3380 FC3-1.3561 BSP 8735
BDE 1.0629 BRA 1.8062 BC3 .6693 FSP -1086

MID-COURSE EXECUTION ACCURACY

SGT 2394.5 SGR 1262.7 SG3 366.0
RRT -.9277 RRF .9787 RTF -.9494
SGB 2707.0 R23 -.1861 R13 .9673
SG1 2673.9 SG2 422.1 THA 153.21

ORBIT DETERMINATION ACCURACY

ST 1277.0 SR 699.4 SS 1611.9
CRT -.9937 CRS -.9959 CST .9798
LSA 2162.8 MSA 201.1 SSA 9.6
EL1 1454.4 EL2 69.0 ALF 151.37

LAUNCH DATE OCT 6 1965 FLIGHT TIME 134.00 ARRIVAL DATE FEB 17 1966

HELIOCENTRIC CONIC DISTANCE 348.186

RL	149.55	LAL	.00	LOL	12.54	VL	26.930	GAL	3.63	AZL	83.93	HCA	148.42	SMA	126.43	ECC	.19314	INC	6.4653	VI	29.796
RP	107.57	LAP	3.38	LOP	161.12	VP	37.653	GAP	-7.13	AZP	95.51	TAL	164.47	TAP	312.90	RCA	102.01	APO	150.85	V2	35.227
RC	50.208	GL	38.58	GP	-36.26	ZAL	62.97	ZAP	41.65	ETS	53.57	ZAE	130.07	ETE	295.73	ZAC	71.48	ETC	143.43	CLP	-22.06

PLANETOCENTRIC CONIC

C3	23.547	VHL	4.853	DLA	21.37	RAL	308.65	RAD	6568.0	VEL	12.038	PTH	2.15	VHP	6.411	DPA	-51.94	RAP	338.59	ECC	1.3875

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	3 52 5	2991.05	-28.03	95.78	180.90	85.83	4 41 56	2391.0	-28.32	87.13
90.00	22 1 38	4160.56	-1.23	169.78	172.93	61.71	23 10 59	3560.6	-5.01	163.13
100.00	5 28 4	2681.55	-29.79	73.13	181.02	87.38	6 12 45	2081.5	-29.83	64.33
100.00	23 8 20	3945.29	.30	153.11	172.07	60.11	24 14 5	3345.3	-3.68	146.58
110.00	7 7 6	2371.71	-34.16	49.66	181.08	91.34	7 46 37	1771.7	-33.60	40.46
110.00	23 45 47	3827.89	4.01	141.89	169.76	56.02	24 49 35	3227.9	-.48	135.68

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-.9958	TRA	-1.6432	TC3	.2763	BAU	.2178	SGT	2407.3	SGR	1470.4	SG3	377.4	ST	1331.6	SR	900.6	SS	1699.0
RDE	.7160	RRA	.8153	RC3	-.6342	FAU	.03462	RRT	-.9359	RRF	.9860	RTF	-.9522	CRT	-.9905	CRS	-.9985	CST	.9817
FDE	2.4838	FRA	2.3594	FC3	-1.2729	BSP	9047	SGB	2820.8	R23	-.1775	R13	.9735	LSA	2330.3	MSA	201.2	SSA	8.4
BDE	1.2264	BRA	1.8343	BC3	.6917	FSP	-1125	SGI	2785.0	SG2	447.8	THA	149.37	ELI	1604.3	EL2	102.7	ALF	146.02

LAUNCH DATE OCT 6 1965 FLIGHT TIME 136.00 ARRIVAL DATE FEB 19 1966

HELIOCENTRIC CONIC DISTANCE 354.841

RL	149.55	LAL	.00	LOL	12.54	VL	26.990	GAL	3.48	AZL	82.84	HCA	151.65	SMA	126.83	ECC	.18884	INC	7.1577	VI	29.796
RP	107.60	LAP	3.39	LOP	164.37	VP	37.689	GAP	-6.54	AZP	96.31	TAL	164.73	TAP	316.37	RCA	102.88	APO	150.77	V2	35.220
RC	51.850	GL	41.96	GP	-40.83	ZAL	64.81	ZAP	46.37	ETS	53.40	ZAE	125.87	ETE	295.16	ZAC	74.78	ETC	143.05	CLP	-24.22

PLANETOCENTRIC CONIC

C3	25.202	VHL	5.020	DLA	24.42	RAL	306.99	RAD	6568.0	VEL	12.107	PTH	2.17	VHP	6.409	DPA	-55.57	RAP	343.51	ECC	1.4148

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	3 2 8	3161.25	-26.58	108.01	181.33	79.87	3 54 49	2561.2	-27.71	99.53
90.00	22 38 18	4023.71	-5.62	162.12	173.88	62.20	23 45 22	3423.7	-9.30	155.37
100.00	4 44 25	2831.46	-28.81	84.16	181.74	81.66	5 31 36	2231.5	-29.66	75.46
100.00	23 38 42	3828.73	-3.65	146.70	172.80	60.31	24 42 30	3228.7	-7.57	140.12
110.00	6 33 25	2490.42	-33.96	58.92	182.40	85.87	7 14 56	1890.4	-34.16	49.68
110.00	0 10 7	3742.53	.75	137.43	170.05	55.82	1 12 29	3142.5	-3.73	131.22

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-1.0885	TRA	-1.6340	TC3	.2590	BAU	.2334	SGT	2409.6	SGR	1711.7	SG3	379.4	ST	1386.0	SR	1140.4	SS	1770.9
RDE	.9518	RRA	.9215	RC3	-.6423	FAU	.03280	RRT	-.9414	RRF	.9907	RTF	-.9547	CRT	-.9886	CRS	-.9995	CST	.9836
FDE	2.6947	FRA	2.3321	FC3	-1.1266	BSP	9425	SGB	2955.7	R23	-.1628	R13	.9794	LSA	2513.4	MSA	201.6	SSA	7.2
BDE	1.4460	BRA	1.8759	BC3	.6926	FSP	-1140	SGI	2916.9	SG2	476.9	THA	145.16	ELI	1789.9	EL2	132.8	ALF	140.62

LAUNCH DATE OCT 6 1965 FLIGHT TIME 138.00 ARRIVAL DATE FEB 21 1966

HELIOCENTRIC CONIC DISTANCE 361.470

RL	149.55	LAL	.00	LOL	12.54	VL	27.045	GAL	3.34	AZL	81.99	HCA	154.86	SMA	127.18	ECC	.18497	INC	8.0108	VI	29.796
RP	107.62	LAP	3.39	LOP	167.61	VP	37.721	GAP	-5.97	AZP	97.26	TAL	164.97	TAP	319.83	RCA	103.66	APO	150.71	V2	35.212
RC	53.572	GL	45.53	GP	-46.00	ZAL	66.83	ZAP	51.49	ETS	53.29	ZAE	121.20	ETE	294.47	ZAC	78.42	ETC	142.82	CLP	-26.32

PLANETOCENTRIC CONIC

C3	27.803	VHL	5.273	DLA	27.62	RAL	305.14	RAD	6568.1	VEL	12.214	PTH	2.19	VHP	6.526	DPA	-59.51	RAP	349.95	ECC	1.4576

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	1 40 5	3436.81	-21.91	126.81	180.71	71.60	2 37 22	2836.8	-24.22	118.91
90.00	23 45 34	3796.84	-12.59	149.10	176.78	64.43	24 48 51	3196.8	-15.93	142.01
100.00	3 43 49	3037.92	-25.89	98.79	182.04	74.51	4 34 27	2437.9	-27.76	90.49
100.00	0 28 27	3670.97	-8.89	137.93	174.85	61.34	1 29 38	3071.0	-12.65	131.16
110.00	5 52 26	2635.41	-32.69	70.03	183.84	79.41	6 36 22	2035.4	-33.81	60.97
110.00	0 36 19	3646.24	-2.93	132.41	171.20	55.93	1 37 6	3046.2	-7.38	126.15

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-1.2038	TRA	-1.6297	TC3	.2312	BAU	.2477	SGT	2400.9	SGR	1984.0	SG3	368.9	ST	1438.9	SR	1420.0	SS	1818.0
RDE	1.2581	RRA	1.0421	RC3	-.6251	FAU	.02964	RRT	-.9453	RRF	.9937	RTF	-.9572	CRT	-.9878	CRS	-.9999	CST	.9854
FDE	2.8684	FRA	2.2429	FC3	-.9230	BSP	9914	SGB	3114.6	R23	-.1426	R13	.9850	LSA	2711.2	MSA	202.4	SSA	6.0
BDE	1.7413	BRA	1.9343	BC3	.6665	FSP	-1120	SGI	3073.3	SG2	505.8	THA	140.74	ELI	2015.4	EL2	158.1	ALF	135.39

LAUNCH DATE OCT 6 1965 FLIGHT TIME 140.00 ARRIVAL DATE FEB 23 1966

HELIOCENTRIC CONIC DISTANCE 368.071

RL	149.55	LAL	.00	LOL	12.54	VL	27.093	GAL	3.22	AZL	80.90	HCA	158.07	SMA	127.50	ECC	.18151	INC	9.0954	VI	29.796
RP	107.64	LAP	3.38	LOP	170.86	VP	37.748	GAP	-5.41	AZP	98.45	TAL	165.19	TAP	323.26	RCA	104.36	APO	150.65	V2	35.204
RC	55.368	GL	49.25	GP	-51.76	ZAL	69.03	ZAP	56.95	ETS	53.28	ZAE	116.00	ETE	293.88	ZAC	82.43	ETC	142.94	CLP	-28.22

PLANETOCENTRIC CONIC

C3	31.860	VHL	5.644	DLA	30.93	RAL	303.05	RAD	6568.3	VEL	12.379	PTH	2.23	VHP	6.810	DPA	-63.52	RAP	358.82	ECC	1.5243

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ & LONG
77.01	22 49 12	3983.27	-18.15	165.57	179.90	64.52	23 55 35	3383.3	-21.43	158.23
102.99	2 19 51	3318.62	-18.14	116.52	179.89	64.51	3 15 10	2718.6	-21.42	109.18
77.01	22 49 12	3983.27	-18.15	165.57	179.90	64.52	23 55 35	3383.3	-21.43	158.23
102.99	2 19 51	3318.62	-18.14	116.52	179.89	64.51	3 15 10	2718.6	-21.42	109.18
110.00	4 58 9	2824.96	-29.47	83.84	184.84	71.84	5 45 14	2225.0	-31.67	75.32
110.00	1 14 0	3524.93	-7.52	126.02	173.75	56.56	2 12 45	2924.9	-11.87	119.62

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-1.3574	TRA	-1.6380	TC3	.1903	BAU	.2574	SGT	2387.8	SGR	2277.9	SG3	343.4	ST	1495.6	SR	1736.0	SS	1830.4
RDE	1.6601	RRA	1.1741	RC3	-.5736	FAU	.02496	RRT	-.9475	RRF	.9955	RTF	-.9596	CRT	-.9877	CRS	-1.0000	CST	.9873
FDE	2.9768	FRA	2.0832	FC3	-.6781	BSP	10496	SGB	3300.1	R23	-.1188	R13	.9897	LSA	2925.6	MSA	203.2	SSA	4.9
BDE	2.1444	BRA	2.0153	BC3	.6043	FSP	-1057	SGI	3256.6	SG2	534.0	THA	136.42	ELI	2284.5	EL2	177.7	ALF	130.69

LAUNCH DATE OCT 6 1965 FLIGHT TIME 142.00 ARRIVAL DATE FEB 25 1966

HELIOCENTRIC CONIC DISTANCE 374.640

RL 149.55 LAL .00 LOL 12.54 VL 27.137 GAL 3.12 AZL 79.47 HCA 161.27 SMA 127.79 ECC .17845 INC10.5297 V1 29.796
RP 107.67 LAP 3.36 LOP 174.10 VP 37.771 GAP -4.88 AZP 99.98 TAL 165.38 TAP 326.66 RCA 104.99 APO 150.60 V2 35.195
RC 57.230 GL 53.10 GP -58.07 ZAL 71.42 ZAP 62.63 ETS 53.53 ZAE 110.26 ETE 293.74 ZAC 86.84 ETC 143.74 CLP -29.64

PLANETOCENTRIC CONIC

C3 38.342 VHL 6.192 DLA 34.30 RAL 300.68 RAD 6568.5 VEL 12.638 PTH 2.29 VHP 7.340 DPA -67.14 RAP 11.51 ECC 1.6310

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
69.78	21 52 14	4177.51	-18.43	180.59	181.45	60.55	23 1 52	3577.5	-22.21	173.48
110.22	2 57 51	3217.87	-18.42	108.96	181.44	60.54	3 51 29	2617.9	-22.20	101.86
69.78	21 52 14	4177.51	-18.43	180.59	181.45	60.55	23 1 52	3577.5	-22.21	173.48
110.22	2 57 51	3217.87	-18.42	108.96	181.44	60.54	3 51 29	2617.9	-22.20	101.86
69.78	21 52 14	4177.51	-18.43	180.59	181.45	60.55	23 1 52	3577.5	-22.21	173.48
110.22	2 57 51	3217.87	-18.42	108.96	181.44	60.54	3 51 29	2617.9	-22.20	101.86

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE-1.5754 TRA-1.6680 TC3 .1448 BAU .2586 SGT 2376.5 SGR 2571.1 SG3 302.2 ST 1561.8 SR 2073.8 SS 1798.4
RDE 2.1903 RRA 1.3076 RC3 -.4832 FAU .01894 RRT -.9489 RRF .9964 RTF -.9627 CRT -.9882 CRS-1.0000 CST .9894
FDE 2.9897 FRA 1.8516 FC3 -.4276 BSP 11268 SGB 3501.2 R23 -.0925 R13 .9936 LSA 3151.6 MSA 204.0 SSA 3.9
BDE 2.6980 BRA 2.1194 BC3 .5044 FSP -954 SG1 3456.5 SG2 557.8 THA 132.63 EL1 2589.1 EL2 191.5 ALF 126.89

LAUNCH DATE OCT 6 1965 FLIGHT TIME 144.00 ARRIVAL DATE FEB 27 1966

HELIOCENTRIC CONIC DISTANCE 381.169

RL 149.55 LAL .00 LOL 12.54 VL 27.175 GAL 3.03 AZL 77.47 HCA 164.45 SMA 128.05 ECC .17576 INC12.5272 V1 29.796
RP 107.70 LAP 3.33 LOP 177.34 VP 37.790 GAP -4.36 AZP 102.08 TAL 165.54 TAP 330.00 RCA 105.54 APO 150.56 V2 35.186
RC 59.152 GL 56.98 GP -64.83 ZAL 74.02 ZAP 68.35 ETS 54.71 ZAE 103.96 ETE 294.86 ZAC 91.69 ETC 146.05 CLP -29.83

PLANETOCENTRIC CONIC

C3 49.276 VHL 7.020 DLA 37.62 RAL 297.92 RAD 6568.8 VEL 13.063 PTH 2.38 VHP 8.256 DPA -69.49 RAP 29.20 ECC 1.8110

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
64.12	21 10 3	4333.66	-17.68	192.57	183.51	56.23	22 22 17	3733.7	-21.99	185.82
115.88	3 18 2	3187.96	-17.66	106.09	183.50	56.22	4 11 10	2588.0	-21.97	99.34
64.12	21 10 3	4333.66	-17.68	192.57	183.51	56.23	22 22 17	3733.7	-21.99	185.82
115.88	3 18 2	3187.96	-17.66	106.09	183.50	56.22	4 11 10	2588.0	-21.97	99.34
64.12	21 10 3	4333.66	-17.68	192.57	183.51	56.23	22 22 17	3733.7	-21.99	185.82
115.88	3 18 2	3187.96	-17.66	106.09	183.50	56.22	4 11 10	2588.0	-21.97	99.34

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE-1.9405 TRA-1.7548 TC3 .0972 BAU .2415 SGT 2407.8 SGR 2820.0 SG3 248.8 ST 1674.2 SR 2399.1 SS 1721.2
RDE 2.8895 RRA 1.4208 RC3 -.3536 FAU .01195 RRT -.9501 RRF .9963 RTF -.9677 CRT -.9894 CRS -.9998 CST .9919
FDE 2.8960 FRA 1.5692 FC3 -.2099 BSP 12237 SGB 3708.1 R23 -.0648 R13 .9965 LSA 3388.1 MSA 204.7 SSA 3.0
BDE 3.4807 BRA 2.2578 BC3 .3667 FSP -817 SG1 3662.7 SG2 578.5 THA 130.26 EL1 2918.7 EL2 200.1 ALF 124.81

LAUNCH DATE OCT 6 1965 FLIGHT TIME 146.00 ARRIVAL DATE MAR 1 1966

HELIOCENTRIC CONIC DISTANCE 387.651

RL 149.55 LAL .00 LOL 12.54 VL 27.209 GAL 2.96 AZL 74.49 HCA 167.61 SMA 128.28 ECC .17345 INC15.5147 V1 29.796
RP 107.73 LAP 3.29 LOP 180.58 VP 37.805 GAP -3.87 AZP 105.17 TAL 165.64 TAP 333.25 RCA 106.03 APO 150.53 V2 35.176
RC 61.127 GL 60.69 GP -71.89 ZAL 76.80 ZAP 73.87 ETS 59.34 ZAE 97.06 ETE 299.85 ZAC 97.09 ETC 152.52 CLP -26.62

PLANETOCENTRIC CONIC

C3 69.475 VHL 8.335 DLA 40.66 RAL 294.69 RAD 6569.3 VEL 13.814 PTH 2.52 VHP 9.827 DPA -69.39 RAP 50.49 ECC 2.1434

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
59.51	20 35 14	4480.19	-15.44	203.12	185.94	51.91	21 49 54	3880.2	-20.27	196.83
120.49	3 27 5	3209.09	-15.43	106.16	185.93	51.90	4 20 34	2609.1	-20.26	99.87
59.51	20 35 14	4480.19	-15.44	203.12	185.94	51.91	21 49 54	3880.2	-20.27	196.83
120.49	3 27 5	3209.09	-15.43	106.16	185.93	51.90	4 20 34	2609.1	-20.26	99.87
59.51	20 35 14	4480.19	-15.44	203.12	185.94	51.91	21 49 54	3880.2	-20.27	196.83
120.49	3 27 5	3209.09	-15.43	106.16	185.93	51.90	4 20 34	2609.1	-20.26	99.87

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE-2.8173 TRA-2.0597 TC3 .0109 BAU .1618 SGT 2689.6 SGR 2927.3 SG3 193.0 ST 2015.9 SR 2624.5 SS 1634.5
RDE 3.7739 RRA 1.4620 RC3 -.1738 FAU .00277 RRT -.9528 RRF .9934 RTF -.9786 CRT -.9916 CRS -.9994 CST .9955
FDE 2.7521 FRA 1.3098 FC3 -.0345 BSP 11737 SGB 3975.3 R23 -.0350 R13 .9984 LSA 3685.1 MSA 207.8 SSA 2.4
BDE 4.7095 BRA 2.5258 BC3 .1741 FSP -586 SG1 3928.4 SG2 608.3 THA 132.46 EL1 3302.9 EL2 206.8 ALF 127.47

LAUNCH DATE OCT 6 1965 FLIGHT TIME 148.00 ARRIVAL DATE MAR 3 1966

HELIOCENTRIC CONIC DISTANCE 394.043

RL 149.55 LAL .00 LOL 12.54 VL 27.238 GAL 2.92 AZL 69.53 HCA 170.70 SMA 128.48 ECC .17151 INC20.4727 V1 29.796
RP 107.76 LAP 3.24 LOP 183.82 VP 37.816 GAP -3.40 AZP 110.23 TAL 165.66 TAP 336.36 RCA 106.44 APO 150.51 V2 35.166
RC 63.151 GL 63.71 GP -78.71 ZAL 79.77 ZAP 78.93 ETS 81.20 ZAE 89.28 ETE 322.45 ZAC 103.39 ETC 177.04 CLP -11.23

PLANETOCENTRIC CONIC

C3 112.624 VHL 10.612 DLA 42.86 RAL 290.89 RAD 6570.1 VEL 15.296 PTH 2.74 VHP 12.666 DPA -65.97 RAP 70.28 ECC 2.8535

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
56.37	20 6 40	4624.22	-11.36	212.15	188.41	48.38	21 23 45	4024.2	-16.60	206.33
123.63	3 25 21	3279.41	-11.34	108.77	188.39	48.38	4 20 0	2679.4	-16.58	102.95
56.37	20 6 40	4624.22	-11.36	212.15	188.41	48.38	21 23 45	4024.2	-16.60	206.33
123.63	3 25 21	3279.41	-11.34	108.77	188.39	48.38	4 20 0	2679.4	-16.58	102.95
56.37	20 6 40	4624.22	-11.36	212.15	188.41	48.38	21 23 45	4024.2	-16.60	206.33
123.63	3 25 21	3279.41	-11.34	108.77	188.39	48.38	4 20 0	2679.4	-16.58	102.95

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE-5.8233 TRA-2.8070 TC3 -.0563 BAU .1002 SGT 3764.8 SGR 1733.5 SG3 137.3 ST 3204.6 SR 1677.9 SS 1535.0
RDE 3.0978 RRA .6102 RC3 -.0356 FAU-.00522 RRT -.9467 RRF .9643 RTF -.9974 CRT -.9935 CRS -.9962 CST .9996
FDE 2.5619 FRA 1.0564 FC3 .0402 BSP 12641 SGB 4144.7 R23 -.0072 R13 .9993 LSA 3925.8 MSA 169.9 SSA 1.9
BDE 6.5960 BRA 2.8726 BC3 .0666 FSP -436 SG1 4113.1 SG2 511.0 THA 156.05 EL1 3613.3 EL2 169.8 ALF 152.45

LAUNCH DATE OCT 6 1965 FLIGHT TIME 150.00 ARRIVAL DATE MAR 5 1966

HELIOCENTRIC CONIC DISTANCE 400.259

RL 149.55 LAL .00 LOL 12.54 VL 27.263 GAL 2.92 AZL 59.86 HCA 173.67 SMA 128.65 ECC .17003 INC30.1445 VI 29.796
RP 107.80 LAP 3.18 LOP 187.05 VP 37.825 GAP -2.99 AZP 119.99 TAL 165.51 TAP 339.17 RCA 106.77 APO 150.52 V2 35.155
RC 65.219 GL 64.49 GP -80.69 ZAL 82.85 ZAP 83.25 ETS 155.19 ZAE 79.60 ETE 37.23 ZAC 111.78 ETC 254.66 CLP 43.43

PLANETOCENTRIC CONIC

C3 229.527 VHL 15.150 DLA 42.74 RAL 286.69 RAD 6571.3 VEL 18.731 PTH 3.06 VHP 18.438 DPA -58.48 RAP 84.93 ECC 4.7774

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
56.54	19 50 37	4746.17	-5.69	217.77	190.52	47.57	21 9 43	4146.2	-11.04	212.18
123.46	3 7 52	3405.19	-5.67	114.73	190.50	47.57	4 4 38	2805.2	-11.03	109.14
56.54	19 50 37	4746.17	-5.69	217.77	190.52	47.57	21 9 43	4146.2	-11.04	212.18
123.46	3 7 52	3405.19	-5.67	114.73	190.50	47.57	4 4 38	2805.2	-11.03	109.14
56.54	19 50 37	4746.17	-5.69	217.77	190.52	47.57	21 9 43	4146.2	-11.04	212.18
123.46	3 7 52	3405.19	-5.67	114.73	190.50	47.57	4 4 38	2805.2	-11.03	109.14

DIFFERENTIAL CORRECTIONS
TDE-5.4847 TRA-1.3551 TC3 -.1160 BAU .5971
RDE-8.3470 RRA-3.3712 RC3 -.1562 FAU-.01644
FDE 2.5499 FRA .9415 FC3 .0620 BSP 12950
BDE 9.9877 BRA 3.6333 BC3 .1946 FSP -303

MID-COURSE EXECUTION ACCURACY
SGT 2216.5 SGR 3633.5 SG3 94.7
RRT .9841 RRF -.9985 RTF -.9902
SGB 4256.2 R23 -.0050 R13 -.9994
SG1 4242.8 SG2 337.4 THA 58.80

ORBIT DETERMINATION ACCURACY
ST 2084.8 SR 3199.4 SS 1553.6
CRT .9980 CRS .9999 CST .9988
LSA 4121.2 MSA 110.1 SSA 1.8
EL1 3817.2 EL2 109.9 ALF 56.93

LAUNCH DATE OCT 6 1965 FLIGHT TIME 152.00 ARRIVAL DATE MAR 7 1966

HELIOCENTRIC CONIC DISTANCE 405.926

RL 149.55 LAL .00 LOL 12.54 VL 27.285 GAL 3.02 AZL 35.93 HCA 176.17 SMA 128.79 ECC .16933 INC54.0739 VI 29.796
RP 107.83 LAP 3.10 LOP 190.28 VP 37.830 GAP -2.72 AZP 144.01 TAL 164.87 TAP 341.04 RCA 106.98 APO 150.60 V2 35.143
RC 67.327 GL 57.72 GP -67.61 ZAL 85.74 ZAP 86.48 ETS 179.68 ZAE 64.15 ETE 60.96 ZAC 126.49 ETC 284.99 CLP 80.72

PLANETOCENTRIC CONIC

C3 681.131 VHL 26.098 DLA 35.21 RAL 283.25 RAD 6572.7 VEL 28.327 PTH 3.42 VHP 32.483 DPA -43.23 RAP 94.68 ECC12.2097

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
68.14	20 33 11	4692.84	-.59	209.25	192.44	54.79	21 51 23	4092.8	-5.18	203.11
111.86	1 57 53	3675.45	-.57	133.07	192.43	54.79	2 59 8	3075.4	-5.16	126.93
68.14	20 33 11	4692.84	-.59	209.25	192.44	54.79	21 51 23	4092.8	-5.18	203.11
111.86	1 57 53	3675.45	-.57	133.07	192.43	54.79	2 59 8	3075.4	-5.16	126.93
68.14	20 33 11	4692.84	-.59	209.25	192.44	54.79	21 51 23	4092.8	-5.18	203.11
111.86	1 57 53	3675.45	-.57	133.07	192.43	54.79	2 59 8	3075.4	-5.16	126.93

DIFFERENTIAL CORRECTIONS
TDE-5.1219 TRA .3036 TC3 -.0987 BAU 2.5974
RD-15.0793 RRA-5.7382 RC3 -.2676 FAU-.04686
FDE 3.1008 FRA 1.2031 FC3 .0596 BSP 12817
BDE15.9254 BRA 5.7462 BC3 .2852 FSP -231

MID-COURSE EXECUTION ACCURACY
SGT 1239.6 SGR 3909.9 SG3 70.4
RRT .8906 RRF -.9996 RTF -.8899
SGB 4101.7 R23 -.0391 R13 -.9989
SG1 4065.7 SG2 542.2 THA 73.94

ORBIT DETERMINATION ACCURACY
ST 1124.8 SR 3342.9 SS 1930.0
CRT .9871 CRS 1.0000 CST .9867
LSA 4016.8 MSA 173.6 SSA 1.8
EL1 3522.9 EL2 170.7 ALF 71.58

LAUNCH DATE OCT 6 1965 FLIGHT TIME 154.00 ARRIVAL DATE MAR 9 1966

HELIOCENTRIC CONIC DISTANCE 416.729

RL 149.55 LAL .00 LOL 12.54 VL 27.303 GAL 2.20 AZL 162.09 HCA 183.18 SMA 128.92 ECC .16446 INC72.0891 VI 29.796
RP 107.87 LAP 3.02 LOP 193.51 VP 37.832 GAP -1.15 AZP 17.94 TAL 168.70 TAP 351.87 RCA 107.71 APO 150.12 V2 35.132
RC 69.470 GL -50.43 GP 56.00 ZAL 87.37 ZAP 88.73 ETS 187.58 ZAE 66.40 ETE 302.26 ZAC 108.53 ETC 79.53 CLP 87.74

PLANETOCENTRIC CONIC

C31134.333 VHL 33.680 DLA -71.80 RAL 305.81 RAD 6573.0 VEL 35.435 PTH 3.52 VHP 43.771 DPA 80.27 RAP 111.01 ECC19.6682

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
20.78	7 27 10	2448.37	-.75	79.27	216.05	161.80	8 7 58	1848.4	6.85	77.18
159.22	18 3 53	684.28	-.74	287.05	216.07	161.80	18 15 18	84.3	6.86	284.95
20.78	7 27 10	2448.37	-.75	79.27	216.05	161.80	8 7 58	1848.4	6.85	77.18
159.22	18 3 53	684.28	-.74	287.05	216.07	161.80	18 15 18	84.3	6.86	284.95
20.78	7 27 10	2448.37	-.75	79.27	216.05	161.80	8 7 58	1848.4	6.85	77.18
159.22	18 3 53	684.28	-.74	287.05	216.07	161.80	18 15 18	84.3	6.86	284.95

DIFFERENTIAL CORRECTIONS
TDE 7.9098 TRA-1.3725 TC3 -.1403 BAU 4.3953
RDE-9.4189 RRA 4.4096 RC3 .2536 FAU-.07570
FDE-2.4246 FRA 1.0010 FC3 .0578 BSP 12114
BDE12.2996 BRA 4.6183 BC3 .2898 FSP -221

MID-COURSE EXECUTION ACCURACY
SGT 1806.3 SGR 3354.8 SG3 68.0
RRT -.9185 RRF .9985 RTF -.9363
SGB 3810.2 R23 -.0386 R13 .9990
SG1 3756.5 SG2 637.7 THA 117.16

ORBIT DETERMINATION ACCURACY
ST 1364.5 SR 1757.7 SS 1678.6
CRT -.9670 CRS -.9990 CST .9775
LSA 2772.7 MSA 284.9 SSA 2.0
EL1 2207.8 EL2 276.6 ALF 127.59

LAUNCH DATE OCT 6 1965 FLIGHT TIME 156.00 ARRIVAL DATE MAR 11 1966

HELIOCENTRIC CONIC DISTANCE 421.730

RL 149.55 LAL .00 LOL 12.54 VL 27.317 GAL 2.45 AZL 124.92 HCA 185.12 SMA 129.02 ECC .16464 INC34.9194 VI 29.796
RP 107.90 LAP 2.93 LOP 196.74 VP 37.831 GAP -1.06 AZP 55.19 TAL 167.39 TAP 352.52 RCA 107.77 APO 150.26 V2 35.120
RC 71.643 GL -64.06 GP 77.94 ZAL 84.49 ZAP 87.73 ETS 207.14 ZAE 86.70 ETE 317.41 ZAC 87.65 ETC 96.39 CLP 79.06

PLANETOCENTRIC CONIC

C3 301.798 VHL 17.372 DLA -79.26 RAL 358.38 RAD 6571.7 VEL 20.570 PTH 3.17 VHP 23.021 DPA 77.60 RAP 279.50 ECC 5.9668

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
12.22	10 39 34	2365.40	5.84	82.60	267.26	169.20	11 19 0	1765.4	13.70	81.48
167.78	21 50 53	5857.47	5.85	259.74	267.28	169.20	23 28 31	5257.5	13.70	258.62
12.22	10 39 34	2365.40	5.84	82.60	267.26	169.20	11 19 0	1765.4	13.70	81.48
167.78	21 50 53	5857.47	5.85	259.74	267.28	169.20	23 28 31	5257.5	13.70	258.62
12.22	10 39 34	2365.40	5.84	82.60	267.26	169.20	11 19 0	1765.4	13.70	81.48
167.78	21 50 53	5857.47	5.85	259.74	267.28	169.20	23 28 31	5257.5	13.70	258.62

DIFFERENTIAL CORRECTIONS
TDE -.2416 TRA-1.6604 TC3 -.1623 BAU 1.0039
RDE 2.8964 RRA 1.7906 RC3 .1886 FAU-.01777
FDE .6142 FRA .5509 FC3 .0510 BSP 14278
BDE 2.9065 BRA 2.4420 BC3 .2488 FSP -283

MID-COURSE EXECUTION ACCURACY
SGT 2993.5 SGR 3374.4 SG3 87.4
RRT -.9662 RRF .9961 RTF -.9847
SGB 4510.8 R23 -.0279 R13 .9994
SG1 4473.1 SG2 582.2 THA 131.46

ORBIT DETERMINATION ACCURACY
ST 885.4 SR 1347.9 SS 707.8
CRT -.7664 CRS -.9835 CST .8701
LSA 1688.8 MSA 500.0 SSA 1.1
EL1 1533.3 EL2 500.0 ALF 120.27

LAUNCH DATE OCT 6 1965 FLIGHT TIME 158.00 ARRIVAL DATE MAR 13 1966

HELIOCENTRIC CONIC DISTANCE 427.708

RL	149.55	LAL	.00	LOL	12.54	VL	27.329	GAL	2.53	AZL	110.92	HCA	187.95	SMA	129.09	ECC	.16432	INC	20.9172
RP	107.94	LAP	2.83	LOP	199.96	VP	37.828	GAP	-.72	AZP	69.27	TAL	166.94	TAP	354.88	RCA	107.88	APO	150.31
RC	73.845	GL	-64.66	GP	87.15	ZAL	80.90	ZAP	87.25	ETS	281.48	ZAE	96.97	ETE	29.58	ZAC	77.60	ETC	166.46

V1	29.796																		
V2	35.108																		
CLP	15.16																		

PLANETOCENTRIC CONIC

C3	116.311	VHL	10.785	DLA	-75.93	RAL	8.26	RAD	6570.2	VEL	15.416	PTH	2.75	VHP	14.560	DPA	66.74	RAP	284.38
ECC	2.9142																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
16.04	11 26 33	2206.34	15.86	78.39	274.17	165.36	12 3 19	1606.3	23.59	76.61
163.96	22 22 44	5710.38	15.87	259.27	274.18	165.36	23 57 54	5110.4	23.59	257.49
16.04	11 26 33	2206.34	15.86	78.39	274.17	165.36	12 3 19	1606.3	23.59	76.61
163.96	22 22 44	5710.38	15.87	259.27	274.18	165.36	23 57 54	5110.4	23.59	257.49
16.04	11 26 33	2206.34	15.86	78.39	274.17	165.36	12 3 19	1606.3	23.59	76.61
163.96	22 22 44	5710.38	15.87	259.27	274.18	165.36	23 57 54	5110.4	23.59	257.49

DIFFERENTIAL CORRECTIONS

TDE	-3.1485	TRA	-1.7592	TC3	-.0670	BAU	.1086
RDE	-.5448	RRA	-.9732	RC3	.0196	FAU	.00038
FDE	1.0287	FRA	.6272	FC3	-.0028	BSP	14736
BDE	3.1953	BRA	2.0105	BC3	.0698	FSP	-409

MID-COURSE EXECUTION ACCURACY

SGT	4194.1	SGR	2146.2	SG3	127.5		
RRT	.9609	RRF	-.9702	RTF	-.9988		
SGB	4711.3	R23	.0189	R13	-.9993		
SG1	4681.2	SG2	532.2	THA	26.56		

ORBIT DETERMINATION ACCURACY

ST	2031.6	SR	700.5	SS	860.3		
CRT	.8570	CRS	.8776	CST	.9991		
LSA	2288.8	MSA	345.8	SSA	1.7		
EL1	2121.0	EL2	345.7	ALF	16.93		

LAUNCH DATE OCT 6 1965 FLIGHT TIME 160.00 ARRIVAL DATE MAR 15 1966

HELIOCENTRIC CONIC DISTANCE 433.914

RL	149.55	LAL	.00	LOL	12.54	VL	27.337	GAL	2.58	AZL	104.41	HCA	190.99	SMA	129.15	ECC	.16403	INC	14.4127
RP	107.98	LAP	2.72	LOP	203.18	VP	37.822	GAP	-.33	AZP	75.84	TAL	166.66	TAP	357.65	RCA	107.97	APO	150.34
RC	76.070	GL	-61.04	GP	82.94	ZAL	77.15	ZAP	87.60	ETS	329.49	ZAE	103.63	ETE	75.97	ZAC	71.09	ETC	210.04

V1	29.796																		
V2	35.095																		
CLP	-70.08																		

PLANETOCENTRIC CONIC

C3	60.355	VHL	7.769	DLA	-71.91	RAL	1.33	RAD	6569.1	VEL	13.480	PTH	2.46	VHP	10.627	DPA	59.56	RAP	286.13
ECC	1.9933																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
20.66	11 8 24	2049.17	25.01	71.99	262.56	159.96	11 42 33	1449.2	32.49	69.17
159.34	21 45 37	5572.53	25.02	257.54	262.57	159.96	23 18 30	4972.5	32.50	254.72
20.66	11 8 24	2049.17	25.01	71.99	262.56	159.96	11 42 33	1449.2	32.49	69.17
159.34	21 45 37	5572.53	25.02	257.54	262.57	159.96	23 18 30	4972.5	32.50	254.72
20.66	11 8 24	2049.17	25.01	71.99	262.56	159.96	11 42 33	1449.2	32.49	69.17
159.34	21 45 37	5572.53	25.02	257.54	262.57	159.96	23 18 30	4972.5	32.50	254.72

DIFFERENTIAL CORRECTIONS

TDE	-1.0981	TRA	-.3920	TC3	-.0277	BAU	.2373
RDE	-1.3752	RRA	-1.8857	RC3	.2927	FAU	.01195
FDE	.8152	FRA	.8564	FC3	-.1714	BSP	15021
BDE	1.7598	BRA	1.9260	BC3	.2940	FSP	-597

MID-COURSE EXECUTION ACCURACY

SGT	1234.7	SGR	4614.2	SG3	184.7		
RRT	.8726	RRF	-.9976	RTF	-.8976		
SGB	4776.5	R23	.0262	R13	-.9988		
SG1	4740.3	SG2	587.1	THA	76.65		

ORBIT DETERMINATION ACCURACY

ST	856.7	SR	1683.4	SS	786.6		
CRT	.8298	CRS	.9914	CST	.8957		
LSA	1998.5	MSA	438.4	SSA	2.3		
EL1	1837.3	EL2	438.1	ALF	65.63		

LAUNCH DATE OCT 6 1965 FLIGHT TIME 162.00 ARRIVAL DATE MAR 17 1966

HELIOCENTRIC CONIC DISTANCE 440.187

RL	149.55	LAL	.00	LOL	12.54	VL	27.343	GAL	2.62	AZL	100.73	HCA	194.10	SMA	129.19	ECC	.16389	INC	10.7309
RP	108.02	LAP	2.60	LOP	206.40	VP	37.815	GAP	.07	AZP	79.59	TAL	166.41	TAP	.52	RCA	108.02	APO	150.37
RC	78.316	GL	-55.98	GP	77.47	ZAL	73.44	ZAP	88.77	ETS	345.32	ZAE	108.72	ETE	90.67	ZAC	65.89	ETC	221.54

V2	35.082																		
CLP	-84.31																		

PLANETOCENTRIC CONIC

C3	37.654	VHL	6.136	DLA	-67.34	RAL	353.34	RAD	6568.5	VEL	12.610	PTH	2.29	VHP	8.448	DPA	53.81	RAP	286.83
ECC	1.6197																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
25.96	10 47 55	1916.80	31.44	63.65	248.53	153.15	11 19 52	1316.8	38.50	59.46
154.04	21 2 19	5469.43	31.45	254.81	248.56	153.15	22 33 28	4869.4	38.51	250.62
25.96	10 47 55	1916.80	31.44	63.65	248.53	153.15	11 19 52	1316.8	38.50	59.46
154.04	21 2 19	5469.43	31.45	254.81	248.56	153.15	22 33 28	4869.4	38.51	250.62
25.96	10 47 55	1916.80	31.44	63.65	248.53	153.15	11 19 52	1316.8	38.50	59.46
154.04	21 2 19	5469.43	31.45	254.81	248.56	153.15	22 33 28	4869.4	38.51	250.62

DIFFERENTIAL CORRECTIONS

TDE	-.5725	TRA	.0948	TC3	-.1750	BAU	.3576
RDE	-.7231	RRA	-1.9200	RC3	.6884	FAU	.02239
FDE	.5876	FRA	1.1754	FC3	-.5149	BSP	15017
BDE	.9223	BRA	1.9223	BC3	.7103	FSP	-825

MID-COURSE EXECUTION ACCURACY

SGT	620.2	SGR	4776.3	SG3	256.5		
RRT	-.3001	RRF	-.9983	RTF	.2697		
SGB	4816.4	R23	.0362	R13	-.9981		
SG1	4780.0	SG2	591.1	THA	92.27		

ORBIT DETERMINATION ACCURACY

ST	539.0	SR	1550.6	SS	741.3		
CRT	.3166	CRS	.9928	CST	.4280		
LSA	1727.3	MSA	510.6	SSA	3.1		
EL1	1561.1	EL2	507.8	ALF	82.97		

LAUNCH DATE OCT 6 1965 FLIGHT TIME 164.00 ARRIVAL DATE MAR 19 1966

HELIOCENTRIC CONIC DISTANCE 446.477

RL	149.55	LAL	.00	LOL	12.54	VL	27.347	GAL	2.67	AZL	98.37	HCA	197.25	SMA	129.22	ECC	.16393	INC	8.3680
RP	108.06	LAP	2.47	LOP	209.62	VP	37.805	GAP	.48	AZP	82.00	TAL	166.15	TAP	3.41	RCA	108.03	APO	150.40
RC	80.581	GL	-50.43	GP	72.58	ZAL	69.89	ZAP	90.68	ETS	354.57	ZAE	112.89	ETE	99.35	ZAC	61.26	ETC	226.65

V1	29.796																		
V2	35.069																		
CLP	-92.26																		

PLANETOCENTRIC CONIC

C3	26.594	VHL	5.157	DLA	-62.35	RAL	346.91	RAD	6568.1	VEL	12.164	PTH	2.18	VHP	7.099	DPA	48.77	RAP	286.93
ECC	1.4377																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
31.81	10 35 47	1808.28	35.01	53.98	235.37	145.49	11 5 55	1208.3	41.46	48.36
148.19	20 23 8	5403.28	35.02	251.74	235.39	145.49	21 53 11	4803.3	41.47	246.12
31.81	10 35 47	1808.28	35.01	53.98	235.37	145.49	11 5 55	1208.3	41.46	48.36
148.19	20 23 8	5403.28	35.02	251.74	235.39	145.49	21 53 11	4803.3	41.47	246.12
31.81	10 35 47	1808.28	35.01	53.98	235.37	145.49	11 5 55	1208.3	41.46	48.36
148.19	20 23 8	5403.28	35.02	251.74	235.39	145.49	21 53 11	4803.3	41.47	246.12

DIFFERENTIAL CORRECTIONS

TDE	-.4065	TRA	.3851	TC3	-.4395	BAU	.4225
RDE	-.3517	RRA	-1.8921	RC3	1.1039	FAU	.03287
FDE	.4339	FRA	1.5480	FC3	-1.0699	BSP	15065
BDE	.5375	BRA	1.9309	BC3	1.1882	FSP	-1090

MID-COURSE EXECUTION ACCURACY

SGT	1122.5	SGR	4687.8	SG3	336.7		
RRT	-.8586	RRF	-.9983	RTF	.8460		
SGB	4820.3	R23	.0462	R13	-.9974		
SG1	4787.2	SG2	563.5	THA	101.78		

ORBIT DETERMINATION ACCURACY

ST	529.8	SR	1414.6	SS	743.6		
CRT	-.2669	CRS	.9917	CST	-.1407		
LSA	1601.6	MSA	519.4	SSA	3.8		
EL1	1422.7	EL2	507.7	ALF	96.55		

LAUNCH DATE OCT 6 1965 FLIGHT TIME 166.00 ARRIVAL DATE MAR 21 1966

HELIOCENTRIC CONIC DISTANCE 452.766

RL 149.55 LAL .00 LOL 12.54 VL 27.347 GAL 2.73 AZL 96.72 HCA 200.42 SMA 129.22 ECC .16416 INC 6.7195 VI 29.796
RP 108.10 LAP 2.34 LOP 212.83 VP 37.794 GAP .89 AZP 83.70 TAL 165.86 TAP 6.29 RCA 108.01 APO 150.43 V2 35.056
RC 82.862 GL -44.84 GP 68.05 ZAL 66.60 ZAP 93.22 ETS 1.47 ZAE 116.38 ETE 106.31 ZAC 56.93 ETC 229.65 CLP -98.65

PLANETOCENTRIC CONIC

C3 20.548 VHL 4.533 DLA -57.22 RAL 342.10 RAD 6567.8 VEL 11.913 PTH 2.12 VHP 6.205 DPA 44.12 RAP 286.66 ECC 1.3382

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
37.96	10 32 12	1716.43	36.22	43.84	223.94	137.85	11 0 48	1116.4	41.94	37.05
142.04	19 48 21	5369.27	36.23	249.18	223.96	137.84	21 17 51	4769.3	41.95	242.38
37.96	10 32 12	1716.43	36.22	43.84	223.94	137.85	11 0 48	1116.4	41.94	37.05
142.04	19 48 21	5369.27	36.23	249.18	223.96	137.84	21 17 51	4769.3	41.95	242.38
37.96	10 32 12	1716.43	36.22	43.84	223.94	137.85	11 0 48	1116.4	41.94	37.05
142.04	19 48 21	5369.27	36.23	249.18	223.96	137.84	21 17 51	4769.3	41.95	242.38

DIFFERENTIAL CORRECTIONS

TDE -.3248 TRA .6206 TC3 -.8027 BAU .4619
RDE -.1910 RRA-1.8446 RC3 1.4776 FAU .04310
FDE .3728 FRA 1.9530 FC3-1.8159 BSP 15063
BDE .3768 BRA 1.9462 BC3 1.6816 FSP -1369

MID-COURSE EXECUTION ACCURACY

SGT 1672.4 SGR 4516.0 SG3 420.8
RRT -.9419 RRF -.9981 RTF .9343
SGB 4815.7 R23 .0563 R13 -.9966
SG1 4786.5 SG2 529.9 THA 109.48

ORBIT DETERMINATION ACCURACY

ST 598.3 SR 1314.8 SS 776.0
CRT -.5888 CRS .9892 CST -.4643
LSA 1563.7 MSA 493.5 SSA 4.6
EL1 1367.7 EL2 464.9 ALF 107.03

LAUNCH DATE OCT 6 1965 FLIGHT TIME 168.00 ARRIVAL DATE MAR 23 1966

HELIOCENTRIC CONIC DISTANCE 459.046

RL 149.55 LAL .00 LOL 12.54 VL 27.346 GAL 2.80 AZL 95.50 HCA 203.60 SMA 129.21 ECC .16458 INC 5.4990 VI 29.796
RP 108.14 LAP 2.20 LOP 216.04 VP 37.784 GAP 1.29 AZP 84.96 TAL 165.54 TAP 9.14 RCA 107.95 APO 150.48 V2 35.043
RC 85.157 GL -39.42 GP 63.76 ZAL 63.59 ZAP 96.29 ETS 7.07 ZAE 119.30 ETE 112.61 ZAC 52.78 ETC 231.59 CLP-104.35

PLANETOCENTRIC CONIC

C3 16.991 VHL 4.122 DLA -52.13 RAL 338.55 RAD 6567.7 VEL 11.763 PTH 2.08 VHP 5.590 DPA 39.73 RAP 286.17 ECC 1.2796

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
44.21	10 35 51	1633.82	35.72	33.87	214.55	130.89	11 3 5	1033.8	40.70	26.31
135.79	19 16 23	5362.58	35.73	247.81	214.56	130.88	20 45 46	4762.6	40.71	240.25
44.21	10 35 51	1633.82	35.72	33.87	214.55	130.89	11 3 5	1033.8	40.70	26.31
135.79	19 16 23	5362.58	35.73	247.81	214.56	130.88	20 45 46	4762.6	40.71	240.25
44.21	10 35 51	1633.82	35.72	33.87	214.55	130.89	11 3 5	1033.8	40.70	26.31
135.79	19 16 23	5362.58	35.73	247.81	214.56	130.88	20 45 46	4762.6	40.71	240.25

DIFFERENTIAL CORRECTIONS

TDE -.2580 TRA .8344 TC3-1.2351 BAU .4895
RDE -.1387 RRA-1.7819 RC3 1.7658 FAU .05267
FDE .3948 FRA 2.3672 FC3-2.6836 BSP 15063
BDE .2929 BRA 1.9676 BC3 2.1549 FSP -1648

MID-COURSE EXECUTION ACCURACY

SGT 2176.1 SGR 4294.1 SG3 503.3
RRT -.9672 RRF -.9978 RTF .9612
SGB 4814.0 R23 .0661 R13 -.9957
SG1 4788.4 SG2 496.0 THA 116.42

ORBIT DETERMINATION ACCURACY

ST 671.5 SR 1226.6 SS 821.3
CRT -.7508 CRS .9854 CST -.6278
LSA 1555.4 MSA 458.9 SSA 5.5
EL1 1337.9 EL2 406.6 ALF 114.79

LAUNCH DATE OCT 6 1965 FLIGHT TIME 170.00 ARRIVAL DATE MAR 25 1966

HELIOCENTRIC CONIC DISTANCE 465.310

RL 149.55 LAL .00 LOL 12.54 VL 27.343 GAL 2.88 AZL 94.55 HCA 206.78 SMA 129.19 ECC .16518 INC 4.5547 VI 29.796
RP 108.18 LAP 2.05 LOP 219.24 VP 37.766 GAP 1.69 AZP 85.93 TAL 165.17 TAP 11.95 RCA 107.85 APO 150.53 V2 35.030
RC 87.465 GL -34.30 GP 59.64 ZAL 60.89 ZAP 99.75 ETS 11.75 ZAE 121.69 ETE 118.57 ZAC 48.78 ETC 232.78 CLP-109.59

PLANETOCENTRIC CONIC

C3 14.808 VHL 3.848 DLA -47.25 RAL 335.93 RAD 6567.6 VEL 11.670 PTH 2.05 VHP 5.160 DPA 35.52 RAP 285.60 ECC 1.2437

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
50.45	10 45 45	1554.09	34.12	24.31	207.13	124.92	11 11 39	954.1	38.42	16.35
129.55	18 45 34	5379.95	34.13	248.05	207.14	124.91	20 15 14	4780.0	38.43	240.09
50.45	10 45 45	1554.09	34.12	24.31	207.13	124.92	11 11 39	954.1	38.42	16.35
129.55	18 45 34	5379.95	34.13	248.05	207.14	124.91	20 15 14	4780.0	38.43	240.09
50.45	10 45 45	1554.09	34.12	24.31	207.13	124.92	11 11 39	954.1	38.42	16.35
129.55	18 45 34	5379.95	34.13	248.05	207.14	124.91	20 15 14	4780.0	38.43	240.09

DIFFERENTIAL CORRECTIONS

TDE -.1865 TRA 1.0355 TC3-1.7010 BAU .5120
RDE -.1353 RRA-1.7047 RC3 1.9484 FAU .06118
FDE .4820 FRA 2.7639 FC3-3.5767 BSP 15095
BDE .2304 BRA 1.9946 BC3 2.5865 FSP -1909

MID-COURSE EXECUTION ACCURACY

SGT 2636.2 SGR 4033.6 SG3 578.6
RRT -.9780 RRF -.9974 RTF .9728
SGB 4818.7 R23 .0747 R13 -.9946
SG1 4796.5 SG2 462.4 THA 122.93

ORBIT DETERMINATION ACCURACY

ST 736.9 SR 1140.6 SS 872.4
CRT -.8450 CRS .9805 CST -.7234
LSA 1557.1 MSA 424.6 SSA 6.5
EL1 1314.1 EL2 342.0 ALF 120.96

LAUNCH DATE OCT 6 1965 FLIGHT TIME 172.00 ARRIVAL DATE MAR 27 1966

HELIOCENTRIC CONIC DISTANCE 471.557

RL 149.55 LAL .00 LOL 12.54 VL 27.338 GAL 2.97 AZL 93.80 HCA 209.96 SMA 129.15 ECC .16598 INC 3.7982 VI 29.796
RP 108.22 LAP 1.90 LOP 222.45 VP 37.750 GAP 2.08 AZP 86.71 TAL 164.76 TAP 14.73 RCA 107.72 APO 150.59 V2 35.016
RC 89.783 GL -29.55 GP 55.67 ZAL 58.50 ZAP 103.49 ETS 15.68 ZAE 123.59 ETE 124.27 ZAC 44.95 ETC 233.34 CLP-114.44

PLANETOCENTRIC CONIC

C3 13.448 VHL 3.667 DLA -42.64 RAL 333.98 RAD 6567.5 VEL 11.612 PTH 2.03 VHP 4.860 DPA 31.49 RAP 285.01 ECC 1.2213

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
56.67	11 1 39	1471.15	31.89	15.00	201.46	119.96	11 26 11	871.1	35.61	6.89
123.33	18 14 10	5420.43	31.91	250.08	201.47	119.95	19 44 30	4820.4	35.62	241.97
56.67	11 1 39	1471.15	31.89	15.00	201.46	119.96	11 26 11	871.1	35.61	6.89
123.33	18 14 10	5420.43	31.91	250.08	201.47	119.95	19 44 30	4820.4	35.62	241.97
56.67	11 1 39	1471.15	31.89	15.00	201.46	119.96	11 26 11	871.1	35.61	6.89
123.33	18 14 10	5420.43	31.91	250.08	201.47	119.95	19 44 30	4820.4	35.62	241.97

DIFFERENTIAL CORRECTIONS

TDE -.1043 TRA 1.2285 TC3-2.1622 BAU .5318
RDE -.1517 RRA-1.6196 RC3 2.0189 FAU .06809
FDE .6177 FRA 3.1271 FC3-4.3837 BSP 15137
BDE .1841 BRA 2.0328 BC3 2.9582 FSP -2132

MID-COURSE EXECUTION ACCURACY

SGT 3057.8 SGR 3752.9 SG3 643.0
RRT -.9835 RRF -.9968 RTF .9787
SGB 4840.9 R23 .0810 R13 -.9935
SG1 4821.7 SG2 430.3 THA 129.08

ORBIT DETERMINATION ACCURACY

ST 801.0 SR 1059.9 SS 930.7
CRT -.9087 CRS .9748 CST -.7927
LSA 1574.0 MSA 391.9 SSA 7.5
EL1 1300.2 EL2 272.6 ALF 126.33

508A

LAUNCH DATE OCT 6 1965 FLIGHT TIME 174.00 ARRIVAL DATE MAR 29 1966

HELIOCENTRIC CONIC DISTANCE 477.785

RL 149.55 LAL .00 LOL 12.54 VL 27.331 GAL 3.08 AZL 93.18 HCA 213.15 SMA 129.11 ECC .16696 INC 3.1755 V1 29.796
RP 108.26 LAP 1.74 LOP 225.65 VP 37.732 GAP 2.47 AZP 87.34 TAL 164.31 TAP 17.46 RCA 107.55 APO 150.66 V2 35.003
RC 92.112 GL -25.19 GP 51.87 ZAL 56.38 ZAP 107.39 ETS 18.95 ZAE 125.02 ETE 129.71 ZAC 41.31 ETC 233.27 CLP-118.95

PLANETOCENTRIC CONIC

C3 12.614 VHL 3.552 DLA -38.37 RAL 332.55 RAD 6567.5 VEL 11.576 PTH 2.02 VHP 4.657 DPA 27.63 RAP 284.49 ECC 1.2076

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
62.95	11 24 14	1378.06	29.37	5.50	197.24	115.89	11 47 12	778.1	32.59	357.38
117.05	17 40 9	5485.93	29.38	254.11	197.24	115.88	19 11 35	4885.9	32.59	245.98
62.95	11 24 14	1378.06	29.37	5.50	197.24	115.89	11 47 12	778.1	32.59	357.38
117.05	17 40 9	5485.93	29.38	254.11	197.24	115.88	19 11 35	4885.9	32.59	245.98
62.95	11 24 14	1378.06	29.37	5.50	197.24	115.89	11 47 12	778.1	32.59	357.38
117.05	17 40 9	5485.93	29.38	254.11	197.24	115.88	19 11 35	4885.9	32.59	245.98

DIFFERENTIAL CORRECTIONS

TDE -.0109 TRA 1.4147 TC3-2.5877 BAU .5506
RDE -.1722 RRA-1.5300 RC3 1.9907 FAU .07310
FDE .7834 FRA 3.4414 FC3-5.0168 BSP .15212
BDE .1726 BRA 2.0838 BC3 3.2648 FSP -.2306

MID-COURSE EXECUTION ACCURACY

SGT 3442.7 SGR 3462.1 SG3 693.5
RRT -.9865 RRF -.9960 RTF .9821
SGB 4882.4 R23 .0843 R13 -.9925
SG1 4865.8 SG2 401.8 THA 134.84

ORBIT DETERMINATION ACCURACY

ST 875.2 SR 985.3 SS 995.5
CRT -.9534 CRS .9688 CST -.8491
LSA 1611.7 MSA 360.9 SSA 8.7
EL1 1302.6 EL2 199.8 ALF 131.45

LAUNCH DATE OCT 6 1965 FLIGHT TIME 176.00 ARRIVAL DATE MAR 31 1966

HELIOCENTRIC CONIC DISTANCE 483.992

RL 149.55 LAL .00 LOL 12.54 VL 27.322 GAL 3.20 AZL 92.65 HCA 216.34 SMA 129.05 ECC .16812 INC 2.6510 V1 29.796
RP 108.31 LAP 1.57 LOP 228.84 VP 37.714 GAP 2.86 AZP 87.86 TAL 163.82 TAP 20.15 RCA 107.35 APO 150.74 V2 34.990
RC 94.449 GL -21.23 GP 48.24 ZAL 54.51 ZAP 111.35 ETS 21.66 ZAE 126.01 ETE 134.82 ZAC 37.91 ETC 232.57 CLP-123.14

PLANETOCENTRIC CONIC

C3 12.141 VHL 3.484 DLA -34.43 RAL 331.51 RAD 6567.5 VEL 11.555 PTH 2.02 VHP 4.529 DPA 23.97 RAP 284.07 ECC 1.1998

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
69.55	11 55 42	1264.19	26.74	355.02	194.17	112.53	12 16 46	664.2	29.55	346.94
110.45	17 0 22	5583.54	26.75	260.61	194.18	112.52	18 33 25	4983.5	29.56	252.53
69.55	11 55 42	1264.19	26.74	355.02	194.17	112.53	12 16 46	664.2	29.55	346.94
110.45	17 0 22	5583.54	26.75	260.61	194.18	112.52	18 33 25	4983.5	29.56	252.53
69.55	11 55 42	1264.19	26.74	355.02	194.17	112.53	12 16 46	664.2	29.55	346.94
110.45	17 0 22	5583.54	26.75	260.61	194.18	112.52	18 33 25	4983.5	29.56	252.53

DIFFERENTIAL CORRECTIONS

TDE .0905 TRA 1.5937 TC3-2.9616 BAU .5710
RDE -.1868 RRA-1.4365 RC3 1.8981 FAU .07648
FDE .9551 FRA 3.6900 FC3-5.4534 BSP .15399
BDE .2076 BRA 2.1456 BC3 3.5177 FSP -.2439

MID-COURSE EXECUTION ACCURACY

SGT 3791.5 SGR 3169.3 SG3 728.1
RRT -.9881 RRF -.9950 RTF .9842
SGB 4941.7 R23 .0835 R13 -.9915
SG1 4927.4 SG2 374.7 THA 140.17

ORBIT DETERMINATION ACCURACY

ST 966.7 SR 913.2 SS 1060.8
CRT -.9821 CRS .9625 CST -.8945
LSA 1668.4 MSA 331.9 SSA 9.9
EL1 1323.9 EL2 125.5 ALF 136.66

LAUNCH DATE OCT 6 1965 FLIGHT TIME 178.00 ARRIVAL DATE APR 2 1966

HELIOCENTRIC CONIC DISTANCE 490.178

RL 149.55 LAL .00 LOL 12.54 VL 27.312 GAL 3.33 AZL 92.20 HCA 219.52 SMA 128.98 ECC .16947 INC 2.2005 V1 29.796
RP 108.35 LAP 1.40 LOP 232.04 VP 37.694 GAP 3.25 AZP 88.30 TAL 163.28 TAP 22.80 RCA 107.12 APO 150.84 V2 34.977
RC 96.794 GL -17.65 GP 44.81 ZAL 52.85 ZAP 115.28 ETS 23.90 ZAE 126.61 ETE 139.55 ZAC 34.81 ETC 231.21 CLP-127.01

PLANETOCENTRIC CONIC

C3 11.926 VHL 3.453 DLA -30.82 RAL 330.77 RAD 6567.5 VEL 11.546 PTH 2.02 VHP 4.459 DPA 20.52 RAP 283.80 ECC 1.1963

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
77.30	12 43 40	1102.30	24.15	341.53	192.02	109.75	13 2 2	502.3	26.62	333.52
102.70	16 6 31	5737.90	24.16	271.31	192.02	109.74	17 42 9	5137.9	26.63	263.30
77.30	12 43 40	1102.30	24.15	341.53	192.02	109.75	13 2 2	502.3	26.62	333.52
102.70	16 6 31	5737.90	24.16	271.31	192.02	109.74	17 42 9	5137.9	26.63	263.30
110.00	15 0 45	656.16	15.69	304.79	187.78	120.77	15 11 41	56.2	19.65	297.91
110.00	18 48 36	5232.03	33.23	235.39	194.62	98.52	20 15 48	4632.0	34.05	226.25

DIFFERENTIAL CORRECTIONS

TDE .1990 TRA 1.7677 TC3-3.2697 BAU .5919
RDE -.1946 RRA-1.3448 RC3 1.7578 FAU .07805
FDE 1.1221 FRA 3.8754 FC3-5.6658 BSP .15654
BDE .2783 BRA 2.2210 BC3 3.7122 FSP -.2522

MID-COURSE EXECUTION ACCURACY

SGT 4107.4 SGR 2885.7 SG3 747.4
RRT -.9888 RRF -.9936 RTF .9856
SGB 5019.8 R23 .0786 R13 -.9907
SG1 5007.3 SG2 353.3 THA 145.01

ORBIT DETERMINATION ACCURACY

ST 1078.5 SR 844.4 SS 1124.9
CRT -.9965 CRS .9556 CST -.9285
LSA 1745.6 MSA 306.8 SSA 11.0
EL1 1368.6 EL2 55.3 ALF 141.97

LAUNCH DATE OCT 6 1965 FLIGHT TIME 180.00 ARRIVAL DATE APR 4 1966

HELIOCENTRIC CONIC DISTANCE 496.342

RL 149.55 LAL .00 LOL 12.54 VL 27.300 GAL 3.48 AZL 91.81 HCA 222.71 SMA 128.90 ECC .17101 INC 1.8074 V1 29.796
RP 108.39 LAP 1.23 LOP 235.23 VP 37.674 GAP 3.64 AZP 88.67 TAL 162.70 TAP 25.41 RCA 106.86 APO 150.94 V2 34.964
RC 99.145 GL -14.42 GP 41.60 ZAL 51.37 ZAP 119.12 ETS 25.74 ZAE 126.87 ETE 143.87 ZAC 32.04 ETC 229.16 CLP-130.59

PLANETOCENTRIC CONIC

C3 11.908 VHL 3.451 DLA -27.53 RAL 330.28 RAD 6567.5 VEL 11.545 PTH 2.02 VHP 4.437 DPA 17.30 RAP 283.70 ECC 1.1960

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	13 24 22	967.16	17.75	328.96	189.09	112.43	13 40 29	367.2	20.64	321.48
90.00	15 21 52	5872.40	25.69	281.68	191.76	102.33	16 59 45	5272.4	27.14	273.31
100.00	14 4 51	836.30	14.90	318.01	187.74	116.22	14 18 48	236.3	18.30	310.87
100.00	17 24 4	5478.50	28.78	253.33	192.40	98.45	18 55 22	4878.5	29.65	244.63
110.00	14 13 35	808.89	10.20	313.21	185.02	122.80	14 27 4	208.9	14.45	306.69
110.00	19 31 49	5078.68	34.15	223.52	192.95	91.57	20 56 28	4478.7	33.99	214.28

DIFFERENTIAL CORRECTIONS

TDE .3129 TRA 1.9377 TC3-3.5086 BAU .6134
RDE -.1953 RRA-1.2568 RC3 1.5916 FAU .07800
FDE 1.2749 FRA 3.9990 FC3-5.6708 BSP .15972
BDE .3689 BRA 2.3096 BC3 3.8527 FSP -.2558

MID-COURSE EXECUTION ACCURACY

SGT 4392.6 SGR 2617.1 SG3 752.5
RRT -.9887 RRF -.9917 RTF .9865
SGB 5113.2 R23 .0705 R13 -.9900
SG1 5101.9 SG2 338.5 THA 149.35

ORBIT DETERMINATION ACCURACY

ST 1208.2 SR 777.5 SS 1184.1
CRT -.9997 CRS .9476 CST -.9521
LSA 1839.6 MSA 286.5 SSA 12.0
EL1 1436.7 EL2 15.2 ALF 147.24

LAUNCH DATE OCT 6 1965 FLIGHT TIME 182.00 ARRIVAL DATE APR 6 1966

HELIOCENTRIC CONIC DISTANCE 502.483

RL 149.55 LAL .00 LOL 12.54 VL 27.287 GAL 3.64 AZL 91.46 HCA 225.89 SMA 128.81 ECC .17274 INC 1.4591 V1 29.796
RP 108.43 LAP 1.05 LOP 238.42 VP 37.653 GAP 4.02 AZP 88.98 TAL 162.08 TAP 27.97 RCA 106.56 APO 151.06 V2 34.951
RC 101.502 GL -11.52 GP 38.62 ZAL 50.02 ZAP 122.81 ETS 27.26 ZAE 126.87 ETE 147.74 ZAC 29.64 ETC 226.42 CLP-133.91

PLANETOCENTRIC CONIC

C3 12.048 VHL 3.471 DLA -24.53 RAL 329.98 RAD 6567.5 VEL 11.551 PTH 2.02 VHP 4.454 DPA 14.32 RAP 283.76 ECC 1.1983

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 13 46	1203.31	11.09	343.09	186.51	116.22	12 33 49	603.3	14.53	336.10
90.00	16 30 7	5641.19	28.00	265.18	191.40	94.39	18 4 8	5041.2	28.32	256.53
100.00	13 13 51	1009.35	9.47	327.99	185.66	118.49	13 30 40	409.3	13.20	321.19
100.00	18 12 43	5310.39	29.83	240.96	191.52	92.03	19 41 14	4710.4	29.79	232.15
110.00	13 40 53	924.54	5.88	319.38	183.47	123.73	13 56 18	324.5	10.27	313.04
110.00	20 2 10	4967.96	34.02	214.88	191.46	86.46	21 24 58	4368.0	33.16	205.75

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE .4318 TRA 2.1059 TC3-3.6783 BAU .6349 SGT 4650.6 SGR 2368.7 SG3 745.8 ST 1352.0 SR 712.8 SS 1236.4
RDE -.1898 RRA-1.1751 RC3 1.4165 FAU .07658 RRT -.9877 RRF -.9892 RTF .9870 CRT -.9948 CRS .9381 CST -.9680
FDE 1.4082 FRA 4.0696 FC3-5.5027 BSP 16318 SGB 5219.1 R23 .0600 R13 -.9895 LSA 1947.1 MSA 270.9 SSA 12.8
BDE .4717 BRA 2.4116 BC3 3.9416 FSP -2551 SG1 5208.6 SG2 330.3 THA 153.18 EL1 1527.0 EL2 64.2 ALF 152.27

LAUNCH DATE OCT 6 1965 FLIGHT TIME 184.00 ARRIVAL DATE APR 8 1966

HELIOCENTRIC CONIC DISTANCE 508.600

RL 149.55 LAL .00 LOL 12.54 VL 27.273 GAL 3.81 AZL 91.15 HCA 229.07 SMA 128.71 ECC .17465 INC 1.1467 V1 29.796
RP 108.46 LAP .87 LOP 241.60 VP 37.631 GAP 4.41 AZP 89.25 TAL 161.42 TAP 30.50 RCA 106.23 APO 151.19 V2 34.939
RC 103.862 GL -8.93 GP 35.88 ZAL 48.79 ZAP 126.33 ETS 28.52 ZAE 126.66 ETE 151.16 ZAC 27.65 ETC 223.02 CLP-136.99

PLANETOCENTRIC CONIC

C3 12.322 VHL 3.510 DLA -21.80 RAL 329.85 RAD 6567.5 VEL 11.563 PTH 2.02 VHP 4.503 DPA 11.58 RAP 284.01 ECC 1.2028

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 33 34	1348.19	6.62	351.39	185.34	117.59	11 56 2	748.2	10.26	344.60
90.00	17 9 16	5505.82	28.31	255.29	190.77	89.45	18 41 2	4905.8	27.94	246.65
100.00	12 39 36	1135.07	5.31	335.01	184.62	119.46	12 58 31	535.1	9.20	328.38
100.00	18 45 55	5194.18	29.80	232.32	190.72	87.49	20 12 29	4594.2	29.13	223.58
110.00	13 15 54	1021.29	2.20	324.45	182.69	124.12	13 32 55	421.3	6.66	318.21
110.00	20 26 6	4880.72	33.45	208.14	190.35	82.50	21 47 27	4280.7	32.05	199.19

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE .5561 TRA 2.2754 TC3-3.7777 BAU .6550 SGT 4884.4 SGR 2143.0 SG3 730.0 ST 1506.7 SR 651.8 SS 1283.0
RDE -.1804 RRA-1.1014 RC3 1.2392 FAU .07379 RRT -.9859 RRF -.9861 RTF .9872 CRT -.9841 CRS .9265 CST -.9784
FDE 1.5239 FRA 4.1002 FC3-5.1841 BSP 16653 SGB 5333.9 R23 .0500 R13 -.9889 LSA 2067.2 MSA 259.8 SSA 13.5
BDE .5846 BRA 2.5280 BC3 3.9757 FSP -2502 SG1 5323.7 SG2 329.4 THA 156.51 EL1 1638.2 EL2 106.5 ALF 156.84

LAUNCH DATE OCT 6 1965 FLIGHT TIME 186.00 ARRIVAL DATE APR 10 1966

HELIOCENTRIC CONIC DISTANCE 514.693

RL 149.55 LAL .00 LOL 12.54 VL 27.258 GAL 4.01 AZL 90.86 HCA 232.25 SMA 128.61 ECC .17677 INC .8632 V1 29.796
RP 108.50 LAP .68 LOP 244.78 VP 37.608 GAP 4.79 AZP 89.47 TAL 160.73 TAP 32.98 RCA 105.88 APO 151.34 V2 34.926
RC 106.225 GL -6.60 GP 33.37 ZAL 47.65 ZAP 129.66 ETS 29.59 ZAE 126.30 ETE 154.16 ZAC 26.08 ETC 219.03 CLP-139.84

PLANETOCENTRIC CONIC

C3 12.714 VHL 3.566 DLA -19.31 RAL 329.85 RAD 6567.5 VEL 11.580 PTH 2.03 VHP 4.580 DPA 9.09 RAP 284.43 ECC 1.2092

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 4 17	1462.28	2.98	357.80	184.88	118.17	11 28 39	862.3	6.73	351.12
90.00	17 38 35	5405.10	28.03	247.94	190.34	85.78	19 8 40	4805.1	27.15	239.39
100.00	12 13 37	1238.51	1.83	340.71	184.24	119.84	12 34 16	638.5	5.79	334.16
100.00	19 11 56	5104.10	29.34	225.67	190.21	84.02	20 37 0	4504.1	28.20	217.05
110.00	12 55 56	1105.91	-1.04	328.87	182.45	124.17	13 14 22	505.9	3.45	322.66
110.00	20 46 6	4809.46	32.68	202.72	189.64	79.38	22 6 16	4209.5	30.88	193.97

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE .6810 TRA 2.4426 TC3-3.8280 BAU .6760 SGT 5093.8 SGR 1938.6 SG3 706.6 ST 1661.5 SR 591.5 SS 1316.4
RDE -.1655 RRA-1.0333 RC3 1.0790 FAU .07052 RRT -.9832 RRF -.9821 RTF .9874 CRT -.9681 CRS .9111 CST -.9851
FDE 1.6105 FRA 4.0882 FC3-4.8019 BSP 17064 SGB 5450.2 R23 .0395 R13 -.9885 LSA 2186.2 MSA 252.2 SSA 13.9
BDE .7008 BRA 2.6521 BC3 3.9771 FSP -2439 SG1 5440.1 SG2 331.6 THA 159.41 EL1 1758.1 EL2 140.0 ALF 160.86

LAUNCH DATE OCT 6 1965 FLIGHT TIME 188.00 ARRIVAL DATE APR 12 1966

HELIOCENTRIC CONIC DISTANCE 520.761

RL 149.55 LAL .00 LOL 12.54 VL 27.242 GAL 4.21 AZL 90.60 HCA 235.43 SMA 128.50 ECC .17909 INC .6034 V1 29.796
RP 108.54 LAP .50 LOP 247.96 VP 37.586 GAP 5.18 AZP 89.66 TAL 160.00 TAP 35.43 RCA 105.49 APO 151.51 V2 34.914
RC 108.588 GL -4.51 GP 31.08 ZAL 46.58 ZAP 132.80 ETS 30.52 ZAE 125.84 ETE 156.77 ZAC 24.95 ETC 214.57 CLP-142.49

PLANETOCENTRIC CONIC

C3 13.216 VHL 3.635 DLA -17.05 RAL 329.97 RAD 6567.5 VEL 11.602 PTH 2.03 VHP 4.680 DPA 6.83 RAP 285.02 ECC 1.2175

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 41 18	1559.09	-.14	3.20	184.93	118.32	11 7 17	959.1	3.65	356.57
90.00	18 2 30	5324.95	27.49	242.14	190.20	82.92	19 31 15	4725.0	26.22	233.70
100.00	11 52 52	1328.17	-1.21	345.63	184.33	119.87	12 15 0	728.2	2.77	339.11
100.00	19 33 37	5031.11	28.71	220.33	190.01	81.28	20 57 28	4431.1	27.20	211.85
110.00	12 39 34	1181.85	-3.94	332.83	182.63	123.98	12 59 16	581.8	.55	326.62
110.00	21 3 24	4750.20	31.85	198.30	189.31	76.89	22 22 34	4150.2	29.72	189.74

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE .8082 TRA 2.6112 TC3-3.8297 BAU .6965 SGT 5282.6 SGR 1756.4 SG3 678.3 ST 1815.8 SR 534.7 SS 1340.6
RDE -.1477 RRA -.9725 RC3 .9333 FAU .06671 RRT -.9794 RRF -.9771 RTF .9873 CRT -.9468 CRS .8911 CST -.9896
FDE 1.6754 FRA 4.0494 FC3-4.3700 BSP 17484 SGB 5566.9 R23 .0304 R13 -.9881 LSA 2306.3 MSA 247.2 SSA 14.1
BDE .8216 BRA 2.7864 BC3 3.9418 FSP -2356 SG1 5556.7 SG2 337.2 THA 161.89 EL1 1885.6 EL2 165.7 ALF 164.30

LAUNCH DATE OCT 6 1965 FLIGHT TIME 190.00 ARRIVAL DATE APR 14 1966

HELIOCENTRIC CONIC DISTANCE 526.803

RL 149.55 LAL .00 LOL 12.54 VL 27.224 GAL 4.43 AZL 90.36 HCA 238.61 SMA 128.38 ECC .18163 INC .3625 V1 29.796
RP 108.58 LAP .31 LOP 251.14 VP 37.562 GAP 5.57 AZP 89.81 TAL 159.24 TAP 37.85 RCA 105.06 APO 151.70 V2 34.903
RC 110.951 GL -2.65 GP 29.00 ZAL 45.56 ZAP 135.73 ETS 31.35 ZAE 125.31 ETE 159.03 ZAC 24.24 ETC 209.83 CLP-144.96

PLANETOCENTRIC CONIC

C3 13.824 VHL 3.718 DLA -14.99 RAL 330.19 RAD 6567.5 VEL 11.628 PTH 2.04 VHP 4.801 DPA 4.80 RAP 285.76 ECC 1.2275

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 22 36	1644.42	-2.89	7.96	185.36	118.18	10 50 1	1044.4	.90	1.33
90.00	18 22 54	5259.21	26.85	237.44	190.34	80.64	19 50 34	4659.2	25.28	229.12
100.00	11 35 50	1408.16	-3.92	350.03	184.79	119.66	11 59 18	808.2	.06	343.50
100.00	19 52 22	4970.69	28.00	215.98	190.11	79.09	21 15 13	4370.7	26.21	207.64
110.00	12 25 57	1251.16	-6.56	336.48	183.16	123.62	12 46 48	651.2	-2.10	330.24
110.00	21 18 44	4700.46	31.03	194.66	189.30	74.88	22 37 5	4100.5	28.64	186.27

DIFFERENTIAL CORRECTIONS
TDE .9380 TRA 2.7833 TC3-3.7878 BAU .7156
RDE -.1281 RRA -.9191 RC3 .8027 FAU .06249
FDE 1.7224 FRA 3.9928 FC3-3.9137 BSP 17897
BDE .9467 BRA 2.9311 BC3 3.8719 FSP -2260

MID-COURSE EXECUTION ACCURACY
SGT 5453.3 SGR 1595.4 SG3 647.1
RRT -.9744 RRF -.9710 RTF .9872
SGB 5681.9 R23 .0231 R13 -.9877
SG1 5671.4 SG2 345.0 THA 164.03

ORBIT DETERMINATION ACCURACY
ST 1967.5 SR 482.5 SS 1357.1
CRT -.9195 CRS .8655 CST -.9926
LSA 2426.0 MSA 244.1 SSA 14.3
EL1 2017.3 EL2 185.0 ALF 167.18

LAUNCH DATE OCT 6 1965 FLIGHT TIME 192.00 ARRIVAL DATE APR 16 1966

HELIOCENTRIC CONIC DISTANCE 532.819

RL 149.55 LAL .00 LOL 12.54 VL 27.206 GAL 4.67 AZL 90.14 HCA 241.78 SMA 128.26 ECC .18439 INC .1376 V1 29.796
RP 108.61 LAP .12 LOP 254.32 VP 37.539 GAP 5.96 AZP 89.93 TAL 158.44 TAP 40.23 RCA 104.61 APO 151.91 V2 34.892
RC 113.313 GL -.98 GP 27.12 ZAL 44.59 ZAP 138.48 ETS 32.12 ZAE 124.75 ETE 160.97 ZAC 23.94 ETC 205.01 CLP-147.27

PLANETOCENTRIC CONIC

C3 14.537 VHL 3.813 DLA -13.11 RAL 330.48 RAD 6567.6 VEL 11.659 PTH 2.05 VHP 4.940 DPA 2.97 RAP 286.66 ECC 1.2392

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 7 3	1721.37	-5.35	12.28	186.10	117.85	10 35 45	1121.4	-1.58	5.62
90.00	18 40 49	5204.44	26.18	233.56	190.73	78.81	20 7 34	4604.4	24.37	225.36
100.00	11 21 35	1480.91	-6.36	354.05	185.55	119.27	11 46 16	880.9	-2.41	347.49
100.00	20 8 59	4920.12	27.30	212.39	190.47	77.32	21 30 59	4320.1	25.28	204.17
110.00	12 14 29	1315.21	-8.96	339.89	183.96	123.13	12 36 25	715.2	-4.54	333.59
110.00	21 32 34	4658.59	30.25	191.65	189.58	73.26	22 50 12	4058.6	27.66	183.41

DIFFERENTIAL CORRECTIONS
TDE 1.0729 TRA 2.9624 TC3-3.7035 BAU .7320
RDE -.1082 RRA -.8732 RC3 .6857 FAU .05787
FDE 1.7576 FRA 3.9281 FC3-3.4467 BSP 18226
BDE 1.0783 BRA 3.0884 BC3 3.7665 FSP -2145

MID-COURSE EXECUTION ACCURACY
SGT 5609.6 SGR 1454.3 SG3 614.7
RRT -.9680 RRF -.9635 RTF .9868
SGB 5795.1 R23 .0178 R13 -.9872
SG1 5784.3 SG2 353.9 THA 165.86

ORBIT DETERMINATION ACCURACY
ST 2118.3 SR 436.0 SS 1369.0
CRT -.8856 CRS .8336 CST -.9947
LSA 2548.0 MSA 242.0 SSA 14.4
EL1 2153.5 EL2 199.2 ALF 169.58

LAUNCH DATE OCT 6 1965 FLIGHT TIME 194.00 ARRIVAL DATE APR 18 1966

HELIOCENTRIC CONIC DISTANCE 538.805

RL 149.55 LAL .00 LOL 12.54 VL 27.187 GAL 4.93 AZL 89.93 HCA 244.96 SMA 128.13 ECC .18738 INC .0717 V1 29.796
RP 108.64 LAP -.07 LOP 257.49 VP 37.515 GAP 6.36 AZP 90.03 TAL 157.62 TAP 42.58 RCA 104.12 APO 152.14 V2 34.881
RC 115.673 GL .51 GP 25.42 ZAL 43.65 ZAP 141.05 ETS 32.86 ZAE 124.18 ETE 162.65 ZAC 24.02 ETC 200.30 CLP-149.44

PLANETOCENTRIC CONIC

C3 15.357 VHL 3.919 DLA -11.39 RAL 330.85 RAD 6567.6 VEL 11.694 PTH 2.06 VHP 5.095 DPA 1.34 RAP 287.69 ECC 1.2527

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 53 56	1791.87	-7.58	16.26	187.09	117.37	10 23 48	1191.9	-3.85	9.57
90.00	18 56 51	5158.48	25.54	230.35	191.35	77.33	20 22 50	4558.5	23.54	222.26
100.00	11 9 32	1547.96	-8.57	357.80	186.55	118.75	11 35 20	948.0	-4.67	351.18
100.00	20 23 57	4877.62	26.63	209.41	191.06	75.89	21 45 14	4277.6	24.43	201.30
110.00	12 4 46	1374.96	-11.17	343.11	184.99	122.52	12 27 41	775.0	-6.80	336.74
110.00	21 45 11	4623.39	29.53	189.15	190.11	71.94	23 2 15	4023.4	26.78	181.05

DIFFERENTIAL CORRECTIONS
TDE 1.2069 TRA 3.1428 TC3-3.6006 BAU .7490
RDE -.0865 RRA -.8319 RC3 .5877 FAU .05352
FDE 1.7744 FRA 3.8494 FC3-3.0169 BSP 18618
BDE 1.2100 BRA 3.2510 BC3 3.6483 FSP -2038

MID-COURSE EXECUTION ACCURACY
SGT 5748.7 SGR 1329.4 SG3 581.4
RRT -.9602 RRF -.9546 RTF .9865
SGB 5900.4 R23 .0130 R13 -.9867
SG1 5889.3 SG2 362.5 THA 167.43

ORBIT DETERMINATION ACCURACY
ST 2257.9 SR 393.3 SS 1371.2
CRT -.8419 CRS .7918 CST -.9961
LSA 2659.8 MSA 240.9 SSA 14.4
EL1 2282.3 EL2 210.0 ALF 171.58

LAUNCH DATE OCT 6 1965 FLIGHT TIME 196.00 ARRIVAL DATE APR 20 1966

HELIOCENTRIC CONIC DISTANCE 544.762

RL 149.55 LAL .00 LOL 12.54 VL 27.168 GAL 5.21 AZL 89.73 HCA 248.13 SMA 128.00 ECC .19062 INC .2738 V1 29.796
RP 108.68 LAP -.25 LOP 260.67 VP 37.491 GAP 6.76 AZP 90.10 TAL 156.77 TAP 44.90 RCA 103.60 APO 152.40 V2 34.870
RC 118.029 GL 1.84 GP 23.88 ZAL 42.74 ZAP 143.45 ETS 33.61 ZAE 123.62 ETE 164.09 ZAC 24.43 ETC 195.88 CLP-151.48

PLANETOCENTRIC CONIC

C3 16.290 VHL 4.036 DLA -9.81 RAL 331.27 RAD 6567.7 VEL 11.733 PTH 2.07 VHP 5.266 DPA -.10 RAP 288.85 ECC 1.2681

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 42 45	1857.24	-9.60	20.00	188.29	116.77	10 13 42	1257.2	-5.93	13.24
90.00	19 11 25	5119.85	24.93	227.69	192.17	76.12	20 36 45	4519.9	22.78	219.68
100.00	10 59 16	1610.44	-10.60	1.33	187.77	118.12	11 26 6	1010.4	-6.75	354.64
100.00	20 37 36	4841.91	26.01	206.93	191.86	74.73	21 58 18	4241.9	23.66	198.92
110.00	11 56 30	1431.15	-13.20	346.19	186.23	121.82	12 20 22	831.2	-8.90	339.73
110.00	21 56 50	4593.94	28.89	187.10	190.85	70.88	23 13 24	3993.9	26.01	179.11

DIFFERENTIAL CORRECTIONS
TDE 1.3430 TRA 3.3289 TC3-3.4755 BAU .7648
RDE -.0643 RRA -.7959 RC3 .5036 FAU .04923
FDE 1.7798 FRA 3.7666 FC3-2.6164 BSP 19003
BDE 1.3445 BRA 3.4227 BC3 3.5118 FSP -1932

MID-COURSE EXECUTION ACCURACY
SGT 5874.1 SGR 1219.9 SG3 548.4
RRT -.9508 RRF -.9441 RTF .9861
SGB 5999.4 R23 .0093 R13 -.9863
SG1 5987.9 SG2 370.8 THA 168.79

ORBIT DETERMINATION ACCURACY
ST 2389.9 SR 356.1 SS 1367.8
CRT -.7872 CRS .7392 CST -.9972
LSA 2766.1 MSA 240.4 SSA 14.3
EL1 2406.4 EL2 218.1 ALF 173.25

LAUNCH DATE OCT 6 1965 FLIGHT TIME 198.00 ARRIVAL DATE APR 22 1966

HELIOCENTRIC CONIC DISTANCE 550.688

RL 149.55 LAL .00 LOL 12.54 VL 27.147 GAL 5.50 AZL 89.53 HCA 251.30 SMA 127.86 ECC .19413 INC .4658 VI 29.796
RP 108.71 LAP -.44 LOP 263.84 VP 37.467 GAP 7.17 AZP 90.15 TAL 155.89 TAP 47.20 RCA 103.04 APO 152.69 V2 34.860
RC 120.382 GL 3.03 GP 22.50 ZAL 41.85 ZAP 145.70 ETS 34.38 ZAE 123.07 ETE 165.33 ZAC 25.13 ETC 191.86 CLP-153.40

PLANETOCENTRIC CONIC

C3 17.344 VHL 4.165 DLA -8.37 RAL 331.74 RAD 6567.7 VEL 11.778 PTH 2.08 VHP 5.451 DPA -1.38 RAP 290.13 ECC 1.2854

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 33 10	1918.41	-11.46	23.54	189.69	116.07	10 5 9	1318.4	-7.86	16.70
90.00	19 24 46	5087.48	24.38	225.47	193.17	75.14	20 49 34	4487.5	22.11	217.54
100.00	10 50 28	1669.08	-12.46	4.69	189.17	117.39	11 18 17	1069.1	-8.69	357.93
100.00	20 50 10	4812.05	25.46	204.88	192.84	73.79	22 10 22	4212.0	22.99	196.36
110.00	11 49 27	1484.35	-15.09	349.15	187.65	121.04	12 14 12	884.4	-10.87	342.60
110.00	22 7 40	4569.54	28.33	185.42	191.79	70.03	23 23 49	3969.5	25.35	177.52

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE 1.4820 TRA 3.5221 TC3-3.3319 BAU .7790 SGT 5987.3 SGR 1123.8 SG3 516.4 ST 2514.5 SR 324.4 SS 1360.5
RDE -.0421 RRA -.7646 RC3 .4313 FAU .04505 RRT -.9397 RRF -.9320 RTF .9856 CRT -.7204 CRS .6748 CST -.9979
FDE 1.7776 FRA 3.6833 FC3-2.2485 BSP 19365 SGB 6091.9 R23 .0063 R13 -.9857 LSA 2867.3 MSA 240.0 SSA 14.3
BDE 1.4826 BRA 3.6042 BC3 3.3597 FSP -1828 SG1 6080.1 SG2 378.5 THA 169.96 EL1 2525.5 EL2 224.0 ALF 174.65

LAUNCH DATE OCT 6 1965 FLIGHT TIME 200.00 ARRIVAL DATE APR 24 1966

HELIOCENTRIC CONIC DISTANCE 556.580

RL 149.55 LAL .00 LOL 12.54 VL 27.127 GAL 5.82 AZL 89.35 HCA 254.47 SMA 127.73 ECC .19791 INC .6506 VI 29.796
RP 108.74 LAP -.63 LOP 267.00 VP 37.443 GAP 7.59 AZP 90.17 TAL 155.00 TAP 49.47 RCA 102.45 APO 153.00 V2 34.851
RC 122.731 GL 4.08 GP 21.24 ZAL 40.99 ZAP 147.80 ETS 35.19 ZAE 122.54 ETE 166.41 ZAC 26.08 ETC 188.29 CLP-155.21

PLANETOCENTRIC CONIC

C3 18.527 VHL 4.304 DLA -7.05 RAL 332.26 RAD 6567.8 VEL 11.828 PTH 2.09 VHP 5.650 DPA -2.50 RAP 291.50 ECC 1.3049

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 24 56	1976.10	-13.16	26.92	191.24	115.30	9 57 52	1376.1	-9.64	20.00
90.00	19 37 8	5060.55	23.90	223.65	194.33	74.35	21 1 28	4460.5	21.52	215.78
100.00	10 42 54	1724.56	-14.17	7.92	190.73	116.60	11 11 38	1124.6	-10.49	1.06
100.00	21 1 50	4787.32	24.98	203.20	193.98	73.03	22 21 38	4187.3	22.42	195.34
110.00	11 43 26	1535.01	-16.85	352.03	189.23	120.19	12 9 1	935.0	-12.71	345.36
110.00	22 17 47	4549.63	27.86	184.06	192.88	69.35	23 33 37	3949.6	24.80	176.23

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE 1.6237 TRA 3.7234 TC3-3.1744 BAU .7916 SGT 6089.2 SGR 1039.3 SG3 485.7 ST 2631.1 SR 298.1 SS 1350.1
RDE -.0199 RRA -.7375 RC3 .3692 FAU .04098 RRT -.9268 RRF -.9183 RTF .9851 CRT -.6408 CRS .5979 CST -.9984
FDE 1.7691 FRA 3.6015 FC3-1.9151 BSP 19696 SGB 6177.3 R23 .0041 R13 -.9852 LSA 2962.5 MSA 239.7 SSA 14.2
BDE 1.6238 BRA 3.7957 BC3 3.1958 FSP -1724 SG1 6165.3 SG2 385.4 THA 170.98 EL1 2638.1 EL2 228.2 ALF 175.82

LAUNCH DATE OCT 6 1965 FLIGHT TIME 202.00 ARRIVAL DATE APR 26 1966

HELIOCENTRIC CONIC DISTANCE 562.437

RL 149.55 LAL .00 LOL 12.54 VL 27.105 GAL 6.16 AZL 89.17 HCA 257.64 SMA 127.58 ECC .20200 INC .8297 VI 29.796
RP 108.76 LAP -.8[illegible] LOP 270.17 VP 37.419 GAP 8.02 AZP 90.18 TAL 154.08 TAP 51.71 RCA 101.81 APO 153.35 V2 34.842
RC 125.075 GL 5.03 GP 20.11 ZAL 40.14 ZAP 149.77 ETS 36.07 ZAE 122.04 ETE 167.34 ZAC 27.22 ETC 185.18 CLP-156.94

PLANETOCENTRIC CONIC

C3 19.853 VHL 4.456 DLA -5.83 RAL 332.81 RAD 6567.8 VEL 11.884 PTH 2.11 VHP 5.864 DPA -3.48 RAP 292.97 ECC 1.3267

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 17 49	2030.86	-14.73	30.17	192.94	114.46	9 51 39	1430.9	-11.31	23.17
90.00	19 48 38	5038.42	23.49	222.16	195.63	73.71	21 12 36	4438.4	21.03	214.35
100.00	10 36 23	1777.37	-15.76	11.03	192.44	115.74	11 6 1	1177.4	-12.17	4.08
100.00	21 12 44	4767.15	24.57	201.85	195.27	72.42	22 32 11	4167.1	21.94	194.04
110.00	11 38 18	1583.51	-18.49	354.83	190.95	119.28	12 4 42	983.5	-14.45	348.05
110.00	22 27 18	4533.77	27.48	182.99	194.13	68.82	23 42 52	3933.8	24.35	175.22

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE 1.7722 TRA 3.9365 TC3-3.0005 BAU .8007 SGT 6183.4 SGR 965.1 SG3 456.8 ST 2744.1 SR 277.2 SS 1339.8
RDE .0015 RRA -.7144 RC3 .3146 FAU .03693 RRT -.9123 RRF -.9028 RTF .9845 CRT -.5511 CRS .5113 CST -.9988
FDE 1.7601 FRA 3.5258 FC3-1.6102 BSP 19933 SGB 6258.3 R23 .0026 R13 -.9846 LSA 3056.9 MSA 239.2 SSA 14.1
BDE 1.7722 BRA 4.0008 BC3 3.0170 FSP -1617 SG1 6246.0 SG2 391.3 THA 171.86 EL1 2748.4 EL2 230.9 ALF 176.79

LAUNCH DATE OCT 6 1965 FLIGHT TIME 204.00 ARRIVAL DATE APR 28 1966

HELIOCENTRIC CONIC DISTANCE 568.255

RL 149.55 LAL .00 LOL 12.54 VL 27.083 GAL 6.52 AZL 89.00 HCA 260.80 SMA 127.44 ECC .20642 INC 1.0044 VI 29.796
RP 108.79 LAP -.99 LOP 273.34 VP 37.396 GAP 8.46 AZP 90.16 TAL 153.14 TAP 53.94 RCA 101.13 APO 153.74 V2 34.834
RC 127.413 GL 5.86 GP 19.09 ZAL 39.31 ZAP 151.62 ETS 37.04 ZAE 121.56 ETE 168.15 ZAC 28.53 ETC 182.50 CLP-158.59

PLANETOCENTRIC CONIC

C3 21.335 VHL 4.619 DLA -4.72 RAL 333.39 RAD 6567.9 VEL 11.946 PTH 2.13 VHP 6.091 DPA -4.33 RAP 294.52 ECC 1.3511

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 11 40	2083.12	-16.18	33.33	194.77	113.56	9 46 23	1483.1	-12.85	26.23
90.00	19 59 23	5020.61	23.14	220.97	197.06	73.21	21 23 3	4420.6	20.62	213.20
100.00	10 30 47	1827.88	-17.22	14.07	194.28	114.81	11 1 15	1227.9	-13.74	7.01
100.00	21 22 56	4751.09	24.24	200.77	196.68	71.95	22 42 8	4151.1	21.54	193.01
110.00	11 33 57	1630.15	-20.02	357.59	192.81	118.31	12 1 7	1030.2	-16.08	350.68
110.00	22 36 16	4521.58	27.18	182.17	195.51	68.42	23 51 38	3921.6	24.00	174.44

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE 1.9199 TRA 4.1554 TC3-2.8282 BAU .8103 SGT 6264.8 SGR 898.9 SG3 429.1 ST 2843.5 SR 260.7 SS 1324.3
RDE .0237 RRA -.6935 RC3 .2695 FAU .03330 RRT -.8959 RRF -.8856 RTF .9840 CRT -.4484 CRS .4120 CST -.9991
FDE 1.7427 FRA 3.4493 FC3-1.3512 BSP 20244 SGB 6329.0 R23 .0011 R13 -.9840 LSA 3138.5 MSA 238.7 SSA 14.0
BDE 1.9201 BRA 4.2129 BC3 2.8410 FSP -1524 SG1 6316.6 SG2 396.1 THA 172.65 EL1 2845.9 EL2 232.8 ALF 177.63

LAUNCH DATE OCT 6 1965 FLIGHT TIME 206.00 ARRIVAL DATE APR 30 1966

HELIOCENTRIC CONIC DISTANCE 574.032

RL 149.55 LAL .00 LOL 12.54 VL 27.061 GAL 6.91 AZL 88.82 HCA 263.97 SMA 127.29 ECC .21119 INC 1.1759 VI 29.796
RP 108.81 LAP -1.17 LOP 276.50 VP 37.372 GAP 8.92 AZP 90.12 TAL 152.19 TAP 56.16 RCA 100.41 APO 154.17 V2 34.826
RC 129.747 GL 6.60 GP 18.16 ZAL 38.49 ZAP 153.36 ETS 38.12 ZAE 121.11 ETE 168.85 ZAC 29.97 ETC 180.22 CLP-160.16

PLANETOCENTRIC CONIC

C3 22.991 VHL 4.795 DLA -3.70 RAL 333.99 RAD 6567.9 VEL 12.015 PTH 2.14 VHP 6.332 DPA -5.05 RAP 296.15 ECC 1.3784

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 6 22	2133.23	-17.51	36.40	196.72	112.61	9 41 55	1533.2	-14.30	29.19
90.00	20 9 28	5006.71	22.87	220.04	198.60	72.83	21 32 55	4406.7	20.30	212.31
100.00	10 25 59	1876.41	-18.59	17.03	196.24	113.84	10 57 15	1276.4	-15.21	9.86
100.00	21 32 32	4738.76	23.98	199.95	198.21	71.59	22 51 31	4138.8	21.24	192.22
110.00	11 30 15	1675.19	-21.45	.30	194.78	117.28	11 58 11	1075.2	-17.62	353.26
110.00	22 44 45	4512.75	26.95	181.58	197.01	68.13	23 59 58	3912.8	23.74	173.89

DIFFERENTIAL CORRECTIONS
TDE 2.0724 TRA 4.3853 TC3-2.6510 BAU .8179
RDE .0456 RRA -.6751 RC3 .2305 FAU .02985
FDE 1.7239 FRA 3.3774 FC3-1.1240 BSP 20523
BDE 2.0729 BRA 4.4370 BC3 2.6610 FSP -1436

MID-COURSE EXECUTION ACCURACY
SGT 6338.0 SGR 839.8 SG3 403.0
RRT -.8777 RRF -.8667 RTF .9835
SGB 6393.4 R23 -.0001 R13 -.9835
SG1 6380.9 SG2 399.7 THA 173.34

ORBIT DETERMINATION ACCURACY
ST 2936.0 SR 248.7 SS 1308.1
CRT -.3392 CRS .3065 CST -.9993
LSA 3215.0 MSA 237.9 SSA 13.8
EL1 2937.2 EL2 233.8 ALF 178.34

LAUNCH DATE OCT 6 1965 FLIGHT TIME 208.00 ARRIVAL DATE MAY 2 1966

HELIOCENTRIC CONIC DISTANCE 579.762

RL 149.55 LAL .00 LOL 12.54 VL 27.038 GAL 7.32 AZL 88.65 HCA 267.13 SMA 127.14 ECC .21634 INC 1.3453 VI 29.796
RP 108.84 LAP -1.34 LOP 279.67 VP 37.349 GAP 9.39 AZP 90.07 TAL 151.23 TAP 58.36 RCA 99.63 APO 154.64 V2 34.819
RC 132.074 GL 7.26 GP 17.32 ZAL 37.69 ZAP 155.00 ETS 39.32 ZAE 120.69 ETE 169.47 ZAC 31.52 ETC 178.29 CLP-161.68

PLANETOCENTRIC CONIC

C3 24.842 VHL 4.984 DLA -2.76 RAL 334.60 RAD 6568.0 VEL 12.092 PTH 2.16 VHP 6.589 DPA -5.66 RAP 297.83 ECC 1.4088

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 1 48	2181.50	-18.75	39.40	198.78	111.61	9 38 9	1581.5	-15.65	32.09
90.00	20 18 57	4996.37	22.66	219.36	200.25	72.54	21 42 14	4396.4	20.05	211.65
100.00	10 21 51	1923.24	-19.85	19.93	198.31	112.82	10 53 55	1323.2	-16.59	12.66
100.00	21 41 35	4729.86	23.78	199.36	199.85	71.34	23 0 25	4129.9	21.01	191.65
110.00	11 27 9	1718.83	-22.78	2.98	196.87	116.20	11 55 48	1118.8	-19.08	355.81
110.00	22 52 46	4507.03	26.81	181.20	198.61	67.95	24 7 53	3907.0	23.58	173.53

DIFFERENTIAL CORRECTIONS
TDE 2.2297 TRA 4.6272 TC3-2.4712 BAU .8233
RDE .0674 RRA -.6587 RC3 .1968 FAU .02658
FDE 1.7046 FRA 3.3109 FC3 -.9262 BSP 20768
BDE 2.2307 BRA 4.6739 BC3 2.4790 FSP -1350

MID-COURSE EXECUTION ACCURACY
SGT 6402.9 SGR 786.9 SG3 378.7
RRT -.8578 RRF -.8461 RTF .9830
SGB 6451.1 R23 -.0010 R13 -.9831
SG1 6438.5 SG2 402.2 THA 173.96

ORBIT DETERMINATION ACCURACY
ST 3021.2 SR 240.3 SS 1291.5
CRT -.2277 CRS .1989 CST -.9995
LSA 3285.9 MSA 236.8 SSA 13.7
EL1 3021.7 EL2 234.0 ALF 178.96

LAUNCH DATE OCT 6 1965 FLIGHT TIME 210.00 ARRIVAL DATE MAY 4 1966

HELIOCENTRIC CONIC DISTANCE 585.442

RL 149.55 LAL .00 LOL 12.54 VL 27.015 GAL 7.77 AZL 88.49 HCA 270.29 SMA 126.99 ECC .22191 INC 1.5138 VI 29.796
RP 108.86 LAP -1.51 LOP 282.83 VP 37.326 GAP 9.88 AZP 89.99 TAL 150.25 TAP 60.55 RCA 98.81 APO 155.17 V2 34.812
RC 134.395 GL 7.83 GP 16.55 ZAL 36.90 ZAP 156.54 ETS 40.67 ZAE 120.29 ETE 170.01 ZAC 33.15 ETC 176.66 CLP-163.13

PLANETOCENTRIC CONIC

C3 26.914 VHL 5.188 DLA -1.89 RAL 335.23 RAD 6568.1 VEL 12.177 PTH 2.19 VHP 6.861 DPA -6.17 RAP 299.58 ECC 1.4429

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 57 53	2228.14	-19.90	42.34	200.94	110.57	9 35 1	1628.1	-16.92	34.93
90.00	20 27 54	4989.33	22.51	218.89	202.00	72.35	21 51 3	4389.3	19.89	211.20
100.00	10 18 21	1968.59	-21.02	22.79	200.47	111.76	10 51 9	1368.6	-17.88	15.40
100.00	21 50 7	4724.12	23.66	198.98	201.59	71.17	23 8 51	4124.1	20.87	191.29
110.00	11 24 34	1761.27	-24.03	5.64	199.06	115.07	11 53 56	1161.3	-20.45	358.33
110.00	23 0 23	4504.20	26.73	181.01	200.32	67.86	24 15 27	3904.2	23.49	173.35

DIFFERENTIAL CORRECTIONS
TDE 2.3916 TRA 4.8820 TC3-2.2908 BAU .8265
RDE .0892 RRA -.6439 RC3 .1676 FAU .02348
FDE 1.6843 FRA 3.2495 FC3 -.7552 BSP 20997
BDE 2.3933 BRA 4.9242 BC3 2.2970 FSP -1271

MID-COURSE EXECUTION ACCURACY
SGT 6459.8 SGR 739.0 SG3 355.9
RRT -.8361 RRF -.8238 RTF .9826
SGB 6502.0 R23 -.0017 R13 -.9826
SG1 6489.4 SG2 403.6 THA 174.51

ORBIT DETERMINATION ACCURACY
ST 3098.6 SR 235.1 SS 1274.4
CRT -.1176 CRS .0927 CST -.9996
LSA 3350.4 MSA 235.5 SSA 13.6
EL1 3098.7 EL2 233.5 ALF 179.49

LAUNCH DATE OCT 6 1965 FLIGHT TIME 212.00 ARRIVAL DATE MAY 6 1966

HELIOCENTRIC CONIC DISTANCE 591.067

RL 149.55 LAL .00 LOL 12.54 VL 26.991 GAL 8.24 AZL 88.32 HCA 273.46 SMA 126.83 ECC .22793 INC 1.6823 VI 29.796
RP 108.87 LAP -1.68 LOP 285.99 VP 37.304 GAP 10.39 AZP 89.90 TAL 149.28 TAP 62.73 RCA 97.92 APO 155.74 V2 34.806
RC 136.709 GL 8.34 GP 15.86 ZAL 36.13 ZAP 158.00 ETS 42.20 ZAE 119.91 ETE 170.50 ZAC 34.86 ETC 175.29 CLP-164.54

PLANETOCENTRIC CONIC

C3 29.234 VHL 5.407 DLA -1.10 RAL 335.87 RAD 6568.2 VEL 12.272 PTH 2.21 VHP 7.151 DPA -6.58 RAP 301.37 ECC 1.4811

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 54 32	2273.37	-20.95	45.24	203.19	109.50	9 32 26	1673.4	-18.10	37.72
90.00	20 36 20	4985.34	22.43	218.63	203.83	72.25	21 59 25	4385.3	19.79	210.95
100.00	10 15 22	2012.62	-22.11	25.61	202.73	110.65	10 48 55	1412.6	-19.10	18.11
100.00	21 58 11	4721.32	23.60	198.79	203.41	71.10	23 16 52	4121.3	20.80	191.11
110.00	11 22 27	1802.66	-25.20	8.29	201.35	113.90	11 52 30	1202.7	-21.76	.83
110.00	23 7 36	4504.05	26.73	181.00	202.12	67.85	24 22 40	3904.0	23.49	173.34

DIFFERENTIAL CORRECTIONS
TDE 2.5620 TRA 5.1536 TC3-2.1079 BAU .8257
RDE .1107 RRA -.6304 RC3 .1417 FAU .02046
FDE 1.6665 FRA 3.1953 FC3 -.6059 BSP 21138
BDE 2.5644 BRA 5.1920 BC3 2.1127 FSP -1191

MID-COURSE EXECUTION ACCURACY
SGT 6511.7 SGR 695.5 SG3 334.8
RRT -.8127 RRF -.8000 RTF .9823
SGB 6548.7 R23 -.0023 R13 -.9823
SG1 6536.3 SG2 403.8 THA 175.02

ORBIT DETERMINATION ACCURACY
ST 3171.8 SR 232.3 SS 1258.8
CRT -.0139 CRS -.0073 CST -.9997
LSA 3412.4 MSA 233.6 SSA 13.5
EL1 3171.8 EL2 232.3 ALF 179.94

LAUNCH DATE OCT 6 1965 FLIGHT TIME 214.00 ARRIVAL DATE MAY 8 1966

HELIOCENTRIC CONIC DISTANCE 596.628

RL 149.55 LAL .00 LOL 12.54 VL 26.968 GAL 8.75 AZL 88.15 HCA 276.62 SMA 126.68 ECC .23446 INC 1.8518 V1 29.796
RP 108.89 LAP -1.84 LOP 289.16 VP 37.282 GAP 10.93 AZP 89.79 TAL 148.30 TAP 64.91 RCA 96.98 APO 156.38 V2 34.801
RC 139.015 GL 8.78 GP 15.22 ZAL 35.38 ZAP 159.37 ETS 43.92 ZAE 119.54 ETE 170.93 ZAC 36.61 ETC 174.14 CLP-165.91

PLANETOCENTRIC CONIC

C3 31.838 VHL 5.643 DLA -.37 RAL 336.51 RAD 6568.3 VEL 12.378 PTH 2.23 VHP 7.460 DPA -6.89 RAP 303.19 ECC 1.5240

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 51 42	2317.33	-21.92	48.10	205.52	108.39	9 30 20	1717.3	-19.21	40.48
90.00	20 44 17	4984.21	22.41	218.55	205.75	72.22	22 7 21	4384.2	19.76	210.87
100.00	10 12 53	2055.50	-23.11	28.40	205.08	109.51	10 47 8	1455.5	-20.24	20.78
100.00	22 5 47	4721.28	23.59	198.79	205.32	71.09	23 24 29	4121.3	20.80	191.11
110.00	11 20 44	1843.11	-26.29	10.93	203.73	112.68	11 51 27	1243.1	-22.99	3.33
110.00	23 14 26	4506.43	26.79	181.16	204.00	67.93	24 29 32	3906.4	23.56	173.49

DIFFERENTIAL CORRECTIONS
TDE 2.7353 TRA 5.4372 TC3-1.9322 BAU .8240
RDE .1328 RRA -.6173 RC3 .1197 FAU .01773
FDE 1.6468 FRA 3.1443 FC3 -.4820 BSP 21341
BDE 2.7385 BRA 5.4722 BC3 1.9359 FSP -1121

MID-COURSE EXECUTION ACCURACY
SGT 6553.9 SGR 655.3 SG3 314.9
RRT -.7873 RRF -.7743 RTF .9820
SGB 6586.5 R23 -.0028 R13 -.9820
SG1 6574.2 SG2 402.8 THA 175.48

ORBIT DETERMINATION ACCURACY
ST 3234.6 SR 231.4 SS 1242.1
CRT .0839 CRS -.1016 CST -.9998
LSA 3464.8 MSA 231.5 SSA 13.2
EL1 3234.6 EL2 230.6 ALF .35

LAUNCH DATE OCT 6 1965 FLIGHT TIME 216.00 ARRIVAL DATE MAY 10 1966

HELIOCENTRIC CONIC DISTANCE 602.119

RL 149.55 LAL .00 LOL 12.54 VL 26.944 GAL 9.30 AZL 87.98 HCA 279.78 SMA 126.52 ECC .24154 INC 2.0235 V1 29.796
RP 108.90 LAP -1.99 LOP 292.32 VP 37.261 GAP 11.50 AZP 89.66 TAL 147.32 TAP 67.09 RCA 95.96 APO 157.08 V2 34.797
RC 141.312 GL 9.16 GP 14.65 ZAL 34.64 ZAP 160.67 ETS 45.88 ZAE 119.19 ETE 171.31 ZAC 38.42 ETC 173.17 CLP-167.25

PLANETOCENTRIC CONIC

C3 34.768 VHL 5.896 DLA .30 RAL 337.15 RAD 6568.4 VEL 12.496 PTH 2.26 VHP 7.788 DPA -7.13 RAP 305.05 ECC 1.5722

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 49 20	2360.17	-22.81	50.92	207.93	107.24	9 28 40	1760.2	-20.24	43.19
90.00	20 51 46	4985.76	22.44	218.65	207.73	72.26	22 14 52	4385.8	19.80	210.97
100.00	10 10 49	2097.34	-24.03	31.17	207.50	108.33	10 45 46	1497.3	-21.30	23.43
100.00	22 12 58	4723.82	23.65	198.96	207.30	71.17	23 31 42	4123.8	20.86	191.27
110.00	11 19 22	1882.73	-27.30	13.56	206.19	111.41	11 50 45	1282.7	-24.15	5.82
110.00	23 20 54	4511.20	26.91	181.48	205.96	68.08	24 36 5	3911.2	23.70	173.79

DIFFERENTIAL CORRECTIONS
TDE 2.9161 TRA 5.7381 TC3-1.7597 BAU .8193
RDE .1551 RRA -.6045 RC3 .1005 FAU .01514
FDE 1.6283 FRA 3.0990 FC3 -.3771 BSP 21514
BDE 2.9202 BRA 5.7699 BC3 1.7626 FSP -1055

MID-COURSE EXECUTION ACCURACY
SGT 6589.8 SGR 617.9 SG3 296.4
RRT -.7599 RRF -.7468 RTF .9818
SGB 6618.7 R23 -.0032 R13 -.9818
SG1 6606.5 SG2 400.7 THA 175.91

ORBIT DETERMINATION ACCURACY
ST 3291.1 SR 231.9 SS 1226.1
CRT .1730 CRS -.1875 CST -.9998
LSA 3512.2 MSA 229.0 SSA 13.0
EL1 3291.3 EL2 228.4 ALF .70

LAUNCH DATE OCT 6 1965 FLIGHT TIME 218.00 ARRIVAL DATE MAY 12 1966

HELIOCENTRIC CONIC DISTANCE 607.530

RL 149.55 LAL .00 LOL 12.54 VL 26.920 GAL 9.89 AZL 87.80 HCA 282.93 SMA 126.37 ECC .24923 INC 2.1984 V1 29.796
RP 108.92 LAP -2.14 LOP 295.48 VP 37.240 GAP 12.09 AZP 89.51 TAL 146.35 TAP 69.28 RCA 94.87 APO 157.86 V2 34.793
RC 143.598 GL 9.49 GP 14.12 ZAL 33.93 ZAP 161.90 ETS 48.11 ZAE 118.86 ETE 171.66 ZAC 40.26 ETC 172.35 CLP-168.55

PLANETOCENTRIC CONIC

C3 38.073 VHL 6.170 DLA .91 RAL 337.79 RAD 6568.5 VEL 12.627 PTH 2.29 VHP 8.140 DPA -7.28 RAP 306.93 ECC 1.6266

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 47 22	2401.98	-23.63	53.71	210.40	106.07	9 27 24	1802.0	-21.20	45.88
90.00	20 58 49	4989.84	22.52	218.92	209.79	72.37	22 21 59	4389.8	19.90	211.23
100.00	10 9 8	2138.24	-24.88	33.91	209.99	107.13	10 44 46	1538.2	-22.30	26.06
100.00	22 19 45	4728.81	23.76	199.29	209.35	71.31	23 38 33	4128.8	20.99	191.59
110.00	11 18 20	1921.60	-28.24	16.20	208.72	110.11	11 50 22	1321.6	-25.24	8.31
110.00	23 27 1	4518.21	27.09	181.95	207.99	68.31	24 42 20	3918.2	23.90	174.23

DIFFERENTIAL CORRECTIONS
TDE 3.1043 TRA 6.0571 TC3-1.5916 BAU .8113
RDE .1778 RRA -.5916 RC3 .0838 FAU .01270
FDE 1.6113 FRA 3.0593 FC3 -.2887 BSP 21677
BDE 3.1094 BRA 6.0859 BC3 1.5938 FSP -993

MID-COURSE EXECUTION ACCURACY
SGT 6618.9 SGR 583.0 SG3 279.1
RRT -.7303 RRF -.7173 RTF .9818
SGB 6644.5 R23 -.0034 R13 -.9818
SG1 6632.6 SG2 397.4 THA 176.31

ORBIT DETERMINATION ACCURACY
ST 3340.7 SR 233.3 SS 1211.0
CRT .2534 CRS -.2650 CST -.9999
LSA 3553.9 MSA 226.0 SSA 12.7
EL1 3341.2 EL2 225.7 ALF 1.02

LAUNCH DATE OCT 6 1965 FLIGHT TIME 220.00 ARRIVAL DATE MAY 14 1966

HELIOCENTRIC CONIC DISTANCE 612.849

RL 149.55 LAL .00 LOL 12.54 VL 26.896 GAL 10.52 AZL 87.62 HCA 286.09 SMA 126.21 ECC .25761 INC 2.3778 V1 29.796
RP 108.93 LAP -2.28 LOP 298.64 VP 37.219 GAP 12.72 AZP 89.34 TAL 145.39 TAP 71.48 RCA 93.70 APO 158.73 V2 34.790
RC 145.874 GL 9.77 GP 13.64 ZAL 33.23 ZAP 163.05 ETS 50.66 ZAE 118.52 ETE 171.98 ZAC 42.12 ETC 171.66 CLP-169.84

PLANETOCENTRIC CONIC

C3 41.813 VHL 6.466 DLA 1.46 RAL 338.42 RAD 6568.6 VEL 12.774 PTH 2.32 VHP 8.517 DPA -7.36 RAP 308.83 ECC 1.6881

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 45 46	2442.83	-24.37	56.48	212.93	104.88	9 26 29	1842.8	-22.09	48.55
90.00	21 5 27	4996.31	22.65	219.35	211.90	72.54	22 28 43	4396.3	20.05	211.64
100.00	10 7 47	2178.26	-25.65	36.63	212.54	105.89	10 44 5	1578.3	-23.23	28.67
100.00	22 26 7	4736.11	23.92	199.77	211.46	71.52	23 45 3	4136.1	21.17	192.05
110.00	11 17 35	1959.77	-29.11	18.83	211.33	108.77	11 50 15	1359.8	-26.27	10.80
110.00	23 32 48	4527.37	27.32	182.56	210.09	68.61	24 48 15	3927.4	24.17	174.81

DIFFERENTIAL CORRECTIONS
TDE 3.3053 TRA 6.4007 TC3-1.4244 BAU .7972
RDE .2006 RRA -.5786 RC3 .0688 FAU .01026
FDE 1.5981 FRA 3.0275 FC3 -.2125 BSP 21725
BDE 3.3114 BRA 6.4268 BC3 1.4261 FSP -931

MID-COURSE EXECUTION ACCURACY
SGT 6645.1 SGR 550.0 SG3 263.2
RRT -.6984 RRF -.6856 RTF .9819
SGB 6667.8 R23 -.0036 R13 -.9819
SG1 6656.3 SG2 393.0 THA 176.68

ORBIT DETERMINATION ACCURACY
ST 3387.8 SR 235.1 SS 1198.6
CRT .3247 CRS -.3338 CST -.9999
LSA 3594.4 MSA 222.5 SSA 12.5
EL1 3388.7 EL2 222.3 ALF 1.30

LAUNCH DATE OCT 7 1965 FLIGHT TIME 70.00 ARRIVAL DATE DEC 16 1965

HELIOCENTRIC CONIC DISTANCE 137.976

RL	149.50	LAL	.00	LOL	13.52	VL	17.951	GAL	17.29	AZL	91.41	HCA	45.59	SMA	91.33	ECC	.67696	INC	1.4128	V1	29.804
RP	107.98	LAP	-1.01	LOP	59.10	VP	31.701	GAP	-41.53	AZP	90.99	TAL	171.25	TAP	216.83	RCA	29.50	APO	153.15	V2	35.095
RC	66.778	GL	-1.74	GP	-4.22	ZAL	65.28	ZAP	29.08	ETS	169.04	ZAE	141.14	ETE	183.47	ZAC	18.61	ETC	94.19	CLP	28.79

PLANETOCENTRIC CONIC

C3 194.642 VHL 13.951 DLA -19.88 RAL 311.16 RAD 6571.1 VEL 17.775 PTH 2.99 VHP 23.792 DPA -28.31 RAP 267.29 ECC 4.2033

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 52 2	2056.24	-15.44	31.70	204.14	114.04	10 26 19	1456.2	-12.06	24.65
90.00	16 13 47	757.70	22.65	315.55	218.26	107.47	16 26 24	157.7	24.83	307.56
100.00	11 0 44	1834.58	-17.42	14.47	203.21	114.69	11 31 18	1234.6	-13.94	7.40
100.00	17 47 46	5742.63	24.72	271.87	218.97	107.37	19 23 29	5142.6	26.86	263.72
110.00	11 41 48	1705.85	-22.39	2.18	200.67	116.53	12 10 14	1105.8	-18.65	355.04
110.00	19 23 11	5444.13	29.99	251.05	220.82	107.24	20 53 55	4844.1	32.05	242.44

DIFFERENTIAL CORRECTIONS

TDE	-.4933	TRA	-1.6562	TC3	-.1190	BAU	.3098												
RDE	-1.0186	RRA	.4008	RC3	-.0050	FAU	.01269												
FDE	.2247	FRA	.6693	FC3	-.0564	BSP	2148												
BDE	1.1317	BRA	1.7040	BC3	.1191	FSP	-62												

MID-COURSE EXECUTION ACCURACY

SGT	821.2	SGR	453.7	SG3	29.8														
RRT	-.1000	RRF	.0942	RTF	-.6284														
SGB	938.2	R23	-.0044	R13	.6292														
SG1	823.0	SG2	450.4	THA	175.48														

ORBIT DETERMINATION ACCURACY

ST	297.0	SR	421.6	SS	261.9														
CRT	.5858	CRS	.6330	CST	.9957														
LSA	518.6	MSA	255.8	SSA	13.8														
EL1	467.9	EL2	216.9	ALF	60.69														

LAUNCH DATE OCT 7 1965 FLIGHT TIME 72.00 ARRIVAL DATE DEC 18 1965

HELIOCENTRIC CONIC DISTANCE 143.901

RL	149.50	LAL	.00	LOL	13.52	VL	18.630	GAL	16.57	AZL	91.10	HCA	48.80	SMA	92.91	ECC	.64968	INC	1.0974	V1	29.804
RP	107.94	LAP	-.83	LOP	62.31	VP	32.104	GAP	-39.61	AZP	90.72	TAL	170.53	TAP	213.33	RCA	32.55	APO	153.28	V2	35.108
RC	64.732	GL	-1.47	GP	-4.35	ZAL	64.07	ZAP	27.59	ETS	168.31	ZAE	141.53	ETE	184.24	ZAC	19.03	ETC	99.14	CLP	27.27

PLANETOCENTRIC CONIC

C3 176.632 VHL 13.290 DLA -19.31 RAL 312.32 RAD 6570.9 VEL 17.261 PTH 2.95 VHP 22.846 DPA -28.56 RAP 269.19 ECC 3.9069

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 50 19	2064.15	-15.66	32.18	204.22	113.90	10 24 44	1464.2	-12.30	25.11
90.00	16 24 46	718.43	23.42	312.94	218.24	106.38	16 36 45	118.4	25.45	304.85
100.00	10 59 40	1840.37	-17.58	14.82	203.32	114.57	11 30 21	1240.4	-14.12	7.74
100.00	17 58 6	5705.49	25.45	269.35	218.89	106.24	19 33 12	5105.5	27.43	261.11
110.00	11 42 0	1707.73	-22.45	2.29	200.84	116.48	12 10 28	1107.7	-18.71	355.15
110.00	19 32 16	5410.90	30.63	248.67	220.58	105.97	21 2 27	4810.9	32.51	239.96

DIFFERENTIAL CORRECTIONS

TDE	-.5018	TRA	-1.6654	TC3	-.1260	BAU	.2979												
RDE	-.9751	RRA	.4012	RC3	-.0067	FAU	.01284												
FDE	.2409	FRA	.6953	FC3	-.0630	BSP	2317												
BDE	1.0967	BRA	1.7130	BC3	.1262	FSP	-69												

MID-COURSE EXECUTION ACCURACY

SGT	858.9	SGR	458.9	SG3	32.3														
RRT	-.1080	RRF	.1022	RTF	-.6482														
SGB	973.8	R23	-.0048	R13	.6490														
SG1	860.9	SG2	455.2	THA	175.41														

ORBIT DETERMINATION ACCURACY

ST	314.6	SR	424.0	SS	278.4														
CRT	.5877	CRS	.6424	CST	.9953														
LSA	535.7	MSA	262.9	SSA	14.1														
EL1	477.0	EL2	226.2	ALF	58.63														

LAUNCH DATE OCT 7 1965 FLIGHT TIME 74.00 ARRIVAL DATE DEC 20 1965

HELIOCENTRIC CONIC DISTANCE 149.918

RL	149.50	LAL	.00	LOL	13.52	VL	19.264	GAL	15.87	AZL	90.81	HCA	52.01	SMA	94.51	ECC	.62299	INC	.8113	V1	29.804
RP	107.90	LAP	-.64	LOP	65.53	VP	32.489	GAP	-37.79	AZP	90.50	TAL	169.83	TAP	221.85	RCA	35.63	APO	153.38	V2	35.120
RC	62.721	GL	-1.19	GP	-4.49	ZAL	62.91	ZAP	26.12	ETS	167.49	ZAE	142.02	ETE	185.09	ZAC	19.60	ETC	103.91	CLP	25.76

PLANETOCENTRIC CONIC

C3 160.373 VHL 12.664 DLA -18.72 RAL 313.41 RAD 6570.7 VEL 16.784 PTH 2.90 VHP 21.934 DPA -28.79 RAP 271.12 ECC 3.6393

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 48 20	2071.42	-15.86	32.62	204.19	113.77	10 22 51	1471.4	-12.51	25.54
90.00	16 35 27	678.31	24.17	310.23	218.04	105.22	16 46 45	78.3	26.03	302.05
100.00	10 58 19	1845.59	-17.73	15.14	203.32	114.47	11 29 4	1245.6	-14.28	8.05
100.00	18 8 9	5667.41	26.15	266.74	218.64	105.03	19 42 37	5067.4	27.96	258.40
110.00	11 41 52	1709.14	-22.49	2.38	200.90	116.45	12 10 21	1109.1	-18.76	355.24
110.00	19 41 6	5376.63	31.25	246.19	220.17	104.62	21 10 42	4776.6	32.94	237.38

DIFFERENTIAL CORRECTIONS

TDE	-.5123	TRA	-1.6773	TC3	-.1336	BAU	.2869												
RDE	-.9320	RRA	.4008	RC3	-.0087	FAU	.01301												
FDE	.2578	FRA	.7223	FC3	-.0702	BSP	2429												
BDE	1.0635	BRA	1.7245	BC3	.1338	FSP	-75												

MID-COURSE EXECUTION ACCURACY

SGT	900.1	SGR	463.6	SG3	35.0														
RRT	-.1156	RRF	.1105	RTF	-.6670														
SGB	1012.4	R23	-.0063	R13	.6679														
SG1	902.2	SG2	459.4	THA	175.40														

ORBIT DETERMINATION ACCURACY

ST	334.1	SR	425.6	SS	295.7														
CRT	.5904	CRS	.6511	CST	.9949														
LSA	554.4	MSA	269.4	SSA	14.3														
EL1	487.0	EL2	235.6	ALF	56.25														

LAUNCH DATE OCT 7 1965 FLIGHT TIME 76.00 ARRIVAL DATE DEC 22 1965

HELIOCENTRIC CONIC DISTANCE 156.023

RL	149.50	LAL	.00	LOL	13.52	VL	19.857	GAL	15.19	AZL	90.55	HCA	55.23	SMA	96.09	ECC	.59696	INC	.5489	V1	29.804
RP	107.87	LAP	-.45	LOP	68.75	VP	32.857	GAP	-36.06	AZP	90.31	TAL	169.16	TAP	224.39	RCA	38.73	APO	153.46	V2	35.132
RC	60.751	GL	-.87	GP	-4.64	ZAL	61.82	ZAP	24.68	ETS	166.56	ZAE	142.62	ETE	186.04	ZAC	20.32	ETC	108.42	CLP	24.27

PLANETOCENTRIC CONIC

C3 145.677 VHL 12.070 DLA -18.12 RAL 314.42 RAD 6570.6 VEL 16.340 PTH 2.86 VHP 21.055 DPA -29.02 RAP 273.09 ECC 3.3975

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 46 3	2078.07	-16.04	33.02	204.05	113.65	10 20 41	1478.1	-12.71	25.93
90.00	16 45 50	637.31	24.87	307.43	217.68	103.99	16 56 27	37.3	26.55	299.17
100.00	10 56 39	1850.29	-17.86	15.43	203.20	114.38	11 27 29	1250.3	-14.42	8.32
100.00	18 17 56	5628.36	26.81	264.02	218.21	103.75	19 51 44	5028.4	28.43	255.60
110.00	11 41 23	1710.11	-22.52	2.44	200.85	116.42	12 9 53	1110.1	-18.79	355.29
110.00	19 49 41	5341.31	31.83	243.60	219.59	103.19	21 18 42	4741.3	33.31	234.69

DIFFERENTIAL CORRECTIONS

TDE	-.5196	TRA	-1.6869	TC3	-.1404	BAU	.2743												
RDE	-.8833	RRA	.3994	RC3	-.0111	FAU	.01320												
FDE	.2751	FRA	.7496	FC3	-.0785	BSP	2602												
BDE	1.0300	BRA	1.7335	BC3	.1409	FSP	-83												

MID-COURSE EXECUTION ACCURACY

SGT	941.1	SGR	467.7	SG3	38.0														
RRT	-.1247	RRF	.1198	RTF	-.6855														
SGB	1050.9	R23	-.0071	R13	.6863														
SG1	943.4	SG2	462.8	THA	175.33														

ORBIT DETERMINATION ACCURACY

ST	353.3	SR	426.4	SS	313.5														
CRT	.5909	CRS	.6587	CST	.9943														
LSA	573.5	MSA	275.4	SSA	14.5														
EL1	496.8	EL2	244.7	ALF	53.87														

LAUNCH DATE OCT 7 1965 FLIGHT TIME 78.00 ARRIVAL DATE DEC 24 1965

HELIOCENTRIC CONIC DISTANCE 162.208

RL	149.50	LAL	.00	LOL	13.52	VL	20,412	GAL	14.52	AZL	90.31	HCA	58.45	SMA	97.67	ECC	.57166	INC	.3061	VI	29.804
RP	107.83	LAP	-.26	LOP	71.97	VP	33,207	GAP	-34.41	AZP	90.16	TAL	168.50	TAP	226.95	RCA	41.84	APO	153.50	V2	35.144
RC	58.824	GL	-.53	GP	-4.81	ZAL	60.78	ZAP	23.27	ETS	165.48	ZAE	143.31	ETE	187.12	ZAC	21.18	ETC	112.62	CLP	22.79

PLANETOCENTRIC CONIC

C3 132.383 VHL 11.506 DLA +17.49 RAL 315.37 RAD 6570.4 VEL 15.928 PTH 2.81 VHP 20.207 DPA -29.24 RAP 275.08 ECC 3.1787

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 43 29	2084.19	-16.21	33.39	203.80	113.54	10 18 13	1484.2	-12.88	26.29
90.00	16 55 55	5883.44	25.53	282.45	217.14	102.68	18 33 53	5283.4	27.02	274.10
100.00	10 54 39	1854.52	-17.98	15.69	202.98	114.29	11 25 34	1254.5	-14.55	8.57
100.00	18 27 26	5588.33	27.42	261.21	217.61	102.39	20 0 34	4988.3	28.85	252.70
110.00	11 40 34	1710.69	-22.54	2.48	200.68	116.41	12 9 5	1110.7	-18.81	355.33
110.00	19 58 1	5304.93	32.36	240.90	218.82	101.67	21 26 26	4704.9	33.63	231.90

DIFFERENTIAL CORRECTIONS

TDE	-.5262	TRA	-1.6964	TC3	-.1470	BAU	.2613
RDE	-.8470	RRA	.3972	RC3	-.0139	FAU	.01342
FDE	.2930	FRA	.7778	FC3	-.0878	BSP	2780
BDE	.9972	BRA	1.7422	BC3	.1477	FSP	-92

MID-COURSE EXECUTION ACCURACY

SGT	983.6	SGR	471.1	SG3	41.2		
RRT	-.1345	RRF	.1298	RTF	-.7032		
SGB	1090.6	R23	-.0080	R13	.7041		
SG1	986.3	SG2	465.6	THA	175.25		

ORBIT DETERMINATION ACCURACY

ST	373.3	SR	426.3	SS	332.0		
CRT	.5906	CRS	.6654	CST	.9936		
LSA	593.6	MSA	280.7	SSA	14.6		
ELI	506.9	EL2	253.4	ALF	51.35		

LAUNCH DATE OCT 7 1965 FLIGHT TIME 80.00 ARRIVAL DATE DEC 26 1965

HELIOCENTRIC CONIC DISTANCE 168.470

RL	149.50	LAL	.00	LOL	13.52	VL	20,930	GAL	13.88	AZL	90.08	HCA	61.67	SMA	99.24	ECC	.54714	INC	.0797	VI	29.804
RP	107.80	LAP	-.07	LOP	75.19	VP	33.540	GAP	-32.84	AZP	90.04	TAL	167.88	TAP	229.55	RCA	44.94	APO	153.53	V2	35.155
RC	56.947	GL	-.15	GP	-4.99	ZAL	59.80	ZAP	21.88	ETS	164.23	ZAE	144.12	ETE	188.34	ZAC	22.16	ETC	116.51	CLP	21.33

PLANETOCENTRIC CONIC

C3 120.353 VHL 10.971 DLA -16.85 RAL 316.23 RAD 6570.3 VEL 15.546 PTH 2.77 VHP 19.389 DPA -29.44 RAP 277.09 ECC 2.9807

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 40 36	2089.85	-16.36	33.74	203.45	113.44	10 15 25	1489.9	-13.05	26.62
90.00	17 5 45	5840.57	26.14	279.45	216.43	101.30	18 43 5	5240.6	27.43	271.03
100.00	10 52 20	1858.36	-18.09	15.92	202.65	114.21	11 23 18	1258.4	-14.66	8.80
100.00	18 36 41	5547.30	27.99	258.29	216.84	100.95	20 9 9	4947.3	29.21	249.70
110.00	11 39 24	1710.94	-22.55	2.49	200.40	116.40	12 7 55	1110.9	-18.82	355.34
110.00	20 6 7	5267.49	32.84	238.08	217.88	100.07	21 33 55	4667.5	33.88	229.00

DIFFERENTIAL CORRECTIONS

TDE	-.5348	TRA	-1.7081	TC3	-.1540	BAU	.2494
RDE	-.8051	RRA	.3944	RC3	-.0172	FAU	.01366
FDE	.3118	FRA	.8071	FC3	-.0983	BSP	2907
BDE	.9665	BRA	1.7530	BC3	.1550	FSP	-101

MID-COURSE EXECUTION ACCURACY

SGT	1030.1	SGR	473.9	SG3	44.6		
RRT	-.1443	RRF	.1407	RTF	-.7199		
SGB	1133.8	R23	-.0100	R13	.7208		
SG1	1032.9	SG2	467.6	THA	175.22		

ORBIT DETERMINATION ACCURACY

ST	395.3	SR	425.4	SS	351.5		
CRT	.5910	CRS	.6715	CST	.9930		
LSA	615.8	MSA	285.2	SSA	14.8		
ELI	518.5	EL2	261.7	ALF	48.54		

LAUNCH DATE OCT 7 1965 FLIGHT TIME 82.00 ARRIVAL DATE DEC 28 1965

HELIOCENTRIC CONIC DISTANCE 174.802

RL	149.50	LAL	.00	LOL	13.52	VL	21.414	GAL	13.25	AZL	89.87	HCA	64.89	SMA	100.78	ECC	.52343	INC	.1325	VI	29.804
RP	107.76	LAP	.12	LOP	78.42	VP	33.856	GAP	-31.34	AZP	89.94	TAL	167.28	TAP	232.17	RCA	48.03	APO	153.53	V2	35.166
RC	55.125	GL	.27	GP	-5.19	ZAL	58.88	ZAP	20.52	ETS	162.78	ZAE	145.03	ETE	189.72	ZAC	23.25	ETC	120.06	CLP	19.88

PLANETOCENTRIC CONIC

C3 109.459 VHL 10.462 DLA -16.19 RAL 317.03 RAD 6570.1 VEL 15.192 PTH 2.73 VHP 18.598 DPA -29.64 RAP 279.13 ECC 2.8014

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 37 22	2095.17	-16.50	34.06	202.99	113.34	10 12 17	1495.2	-13.21	26.94
90.00	17 15 19	5796.73	26.69	276.36	215.55	99.84	18 51 55	5196.7	27.77	267.86
100.00	10 49 40	1861.90	-18.18	16.14	202.21	114.14	11 20 42	1261.9	-14.77	9.01
100.00	18 45 42	5505.24	28.50	255.27	215.90	99.43	20 17 27	4905.2	29.51	246.61
110.00	11 37 51	1710.93	-22.55	2.49	200.02	116.40	12 6 22	1110.9	-18.82	355.34
110.00	20 14 0	5228.97	33.26	235.16	216.77	98.39	21 41 9	4629.0	34.06	226.01

DIFFERENTIAL CORRECTIONS

TDE	-.5405	TRA	-1.7172	TC3	-.1599	BAU	.2361
RDE	-.7638	RRA	.3910	RC3	-.0211	FAU	.01393
FDE	.3312	FRA	.8371	FC3	-.1102	BSP	3089
BDE	.9357	BRA	1.7611	BC3	.1613	FSP	-111

MID-COURSE EXECUTION ACCURACY

SGT	1076.3	SGR	476.0	SG3	48.4		
RRT	-.1557	RRF	.1527	RTF	-.7362		
SGB	1176.9	R23	-.0114	R13	.7371		
SG1	1079.5	SG2	468.9	THA	175.14		

ORBIT DETERMINATION ACCURACY

ST	417.1	SR	423.6	SS	371.5		
CRT	.5895	CRS	.6768	CST	.9921		
LSA	638.5	MSA	289.0	SSA	15.0		
ELI	530.0	EL2	269.3	ALF	45.75		

LAUNCH DATE OCT 7 1965 FLIGHT TIME 84.00 ARRIVAL DATE DEC 30 1965

HELIOCENTRIC CONIC DISTANCE 181.198

RL	149.50	LAL	.00	LOL	13.52	VL	21.867	GAL	12.65	AZL	89.66	HCA	68.12	SMA	102.30	ECC	.50058	INC	.3358	VI	29.804
RP	107.73	LAP	.31	LOP	81.64	VP	34.155	GAP	-29.90	AZP	89.87	TAL	166.71	TAP	234.83	RCA	51.09	APO	153.51	V2	35.176
RC	53.365	GL	.72	GP	-5.41	ZAL	58.02	ZAP	19.18	ETS	161.08	ZAE	146.06	ETE	191.31	ZAC	24.45	ETC	123.29	CLP	18.43

PLANETOCENTRIC CONIC

C3 99.593 VHL 9.980 DLA -15.50 RAL 317.75 RAD 6569.9 VEL 14.864 PTH 2.68 VHP 17.835 DPA -29.83 RAP 281.18 ECC 2.6390

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 33 47	2100.26	-16.64	34.37	202.42	113.25	10 8 48	1500.3	-13.35	27.24
90.00	17 24 38	5751.89	27.17	273.17	214.51	98.31	19 0 30	5151.9	28.04	264.61
100.00	10 46 38	1865.25	-18.28	16.34	201.67	114.07	11 17 43	1265.3	-14.87	9.21
100.00	18 54 29	5462.13	28.94	252.14	214.79	97.84	20 25 31	4862.1	29.72	243.42
110.00	11 35 56	1710.78	-22.54	2.48	199.53	116.40	12 4 27	1110.8	-18.81	355.33
110.00	20 21 39	5189.37	33.61	232.12	215.49	96.62	21 48 9	4589.4	34.16	222.92

DIFFERENTIAL CORRECTIONS

TDE	-.5454	TRA	-1.7255	TC3	-.1651	BAU	.2224
RDE	-.7230	RRA	.3870	RC3	-.0256	FAU	.01424
FDE	.3514	FRA	.8682	FC3	-.1238	BSP	3282
BDE	.9056	BRA	1.7684	BC3	.1670	FSP	-123

MID-COURSE EXECUTION ACCURACY

SGT	1124.1	SGR	477.6	SG3	52.5		
RRT	-.1682	RRF	.1659	RTF	-.7517		
SGB	1221.3	R23	-.0129	R13	.7527		
SG1	1127.5	SG2	469.3	THA	175.05		

ORBIT DETERMINATION ACCURACY

ST	439.6	SR	420.8	SS	392.4		
CRT	.5873	CRS	.6813	CST	.9912		
LSA	662.4	MSA	292.1	SSA	15.2		
ELI	542.3	EL2	276.1	ALF	42.87		

LAUNCH DATE OCT 7 1965 FLIGHT TIME 86.00 ARRIVAL DATE JAN 1 1966

HELIOCENTRIC CONIC DISTANCE 187.654

RL	149.50	LAL	.00	LOL	13.52	VL	22.290	GAL	12.06	AZL	89.47	HCA	71.35	SMA	103.80	ECC	.47859	INC	.5297	V1	29.804
RP	107.70	LAP	.50	LOP	84.87	VP	34.438	GAP	-28.52	AZP	89.83	TAL	166.18	TAP	237.52	RCA	54.12	APO	153.48	V2	35.186
RC	51.675	GL	1.21	GP	-5.65	ZAL	57.22	ZAP	17.88	ETS	159.06	ZAE	147.19	ETE	193.13	ZAC	25.74	ETC	126.21	CLP	17.00

PLANETOCENTRIC CONIC

C3	90.658	VHL	9.521	DLA	-14.79	RAL	318.39	RAD	6569.8	VEL	14,560	PTH	2.64	VHP	17.097	DPA	-30.02	RAP	283.25	ECC	2.4920

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 29 50	2105.26	-16.77	34.68	201.76	113.15	10 4 55	1505.3	-13.50	27.53
90.00	17 33 44	5706.01	27.58	269.87	213.30	96.71	19 8 50	5106.0	28.22	261.27
100.00	10 43 12	1868.55	-18.37	16.54	201.03	114.00	11 14 20	1268.5	-14.97	9.40
100.00	19 3 3	5417.96	29.30	248.91	213.52	96.18	20 33 21	4818.0	29.85	240.15
110.00	11 33 38	1710.59	-22.54	2.47	198.93	116.41	12 2 8	1110.6	-18.81	355.32
110.00	20 29 6	5148.68	33.89	228.97	214.04	94.78	21 54 55	4548.7	34.18	219.74

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-.5498	TRA	-1.7332	TC3	-.1694	BAU	.2087	SGT	1173.5	SGR	478.5	SG3	57.0	ST	462.9	SR	417.0	SS	414.2
RDE	-.6828	RRA	.3828	RC3	-.0308	FAU	.01459	RRT	-.1819	RRF	.1804	RTF	-.7666	CRT	.5844	CRS	.6851	CST	.9902
FDE	.3727	FRA	.9005	FC3	-.1393	BSP	3478	SGB	1267.3	R23	-.0147	R13	.7676	LSA	687.7	MSA	294.3	SSA	15.3
BDE	.8766	BRA	1.7750	BC3	.1722	FSP	-135	SG1	1177.4	SG2	469.0	THA	174.96	EL1	555.6	EL2	281.9	ALF	39.93

LAUNCH DATE OCT 7 1965 FLIGHT TIME 88.00 ARRIVAL DATE JAN 3 1966

HELIOCENTRIC CONIC DISTANCE 194.164

RL	149.50	LAL	.00	LOL	13.52	VL	22.686	GAL	11.49	AZL	89.28	HCA	74.58	SMA	105.26	ECC	.45748	INC	.7162	V1	29.804
RP	107.67	LAP	.69	LOP	88.10	VP	34.705	GAP	-27.20	AZP	89.81	TAL	165.68	TAP	240.26	RCA	57.11	APO	153.42	V2	35.196
RC	50.062	GL	1.75	GP	-5.91	ZAL	56.48	ZAP	16.62	ETS	156.67	ZAE	148.42	ETE	195.25	ZAC	27.11	ETC	128.84	CLP	15.57

PLANETOCENTRIC CONIC

C3	82.568	VHL	9.087	DLA	-14.06	RAL	318.96	RAD	6569.6	VEL	14,280	PTH	2.60	VHP	16.384	DPA	-30.20	RAP	285.34	ECC	2.3589

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 25 28	2110.34	-16.91	34.99	200.99	113.06	10 0 39	1510.3	-13.64	27.83
90.00	17 42 37	5659.07	27.90	266.48	211.94	95.04	19 16 57	5059.1	28.31	257.83
100.00	10 39 22	1871.94	-18.46	16.75	200.29	113.93	11 10 34	1271.9	-15.07	9.60
100.00	19 11 25	5372.71	29.59	245.57	212.10	94.45	20 40 58	4772.7	29.89	236.78
110.00	11 30 54	1710.51	-22.53	2.46	198.24	116.41	11 59 25	1110.5	-18.80	355.32
110.00	20 36 22	5106.90	34.08	225.73	212.44	92.87	22 1 29	4506.9	34.10	216.48

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-.5537	TRA	-1.7401	TC3	-.1726	BAU	.1949	SGT	1224.6	SGR	478.9	SG3	61.8	ST	486.9	SR	412.2	SS	437.1
RDE	-.6431	RRA	.3783	RC3	-.0369	FAU	.01497	RRT	-.1969	RRF	.1966	RTF	-.7808	CRT	.5808	CRS	.6882	CST	.9891
FDE	.3952	FRA	.9342	FC3	-.1570	BSP	3681	SGB	1314.9	R23	-.0168	R13	.7819	LSA	714.4	MSA	295.7	SSA	15.5
BDE	.8486	BRA	1.7808	BC3	.1765	FSP	-149	SG1	1228.9	SG2	467.9	THA	174.85	EL1	569.9	EL2	286.7	ALF	36.95

LAUNCH DATE OCT 7 1965 FLIGHT TIME 90.00 ARRIVAL DATE JAN 5 1966

HELIOCENTRIC CONIC DISTANCE 200.723

RL	149.50	LAL	.00	LOL	13.52	VL	23.055	GAL	10.94	AZL	89.10	HCA	77.81	SMA	106.69	ECC	.43727	INC	.8971	V1	29.804
RP	107.64	LAP	.88	LOP	91.33	VP	34.956	GAP	-25.92	AZP	89.81	TAL	165.21	TAP	243.03	RCA	60.04	APO	153.35	V2	35.204
RC	48.537	GL	2.34	GP	-6.20	ZAL	55.81	ZAP	15.41	ETS	153.80	ZAE	149.75	ETE	197.71	ZAC	28.55	ETC	131.20	CLP	14.14

PLANETOCENTRIC CONIC

C3	75.245	VHL	8.674	DLA	-13.29	RAL	319.45	RAD	6569.5	VEL	14.021	PTH	2.56	VHP	15.695	DPA	-30.37	RAP	287.44	ECC	2.2384

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 20 40	2115.69	-17.05	35.32	200.14	112.95	9 55 56	1515.7	-13.80	28.15
90.00	17 51 20	5611.05	28.14	262.98	210.43	93.30	19 24 51	5011.1	28.30	254.32
100.00	10 35 5	1875.61	-18.56	16.98	199.45	113.86	11 6 21	1275.6	-15.18	9.82
100.00	19 19 37	5326.36	29.79	242.14	210.53	92.65	20 48 23	4726.4	29.84	233.34
110.00	11 27 44	1710.70	-22.54	2.48	197.46	116.41	11 56 15	1110.7	-18.81	355.33
110.00	20 43 27	5064.04	34.17	222.38	210.69	90.89	22 7 51	4464.0	33.92	213.15

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-.5597	TRA	-1.7487	TC3	-.1760	BAU	.1824	SGT	1280.0	SGR	478.8	SG3	67.2	ST	513.4	SR	406.1	SS	461.5
RDE	-.6039	RRA	.3737	RC3	-.0438	FAU	.01538	RRT	-.2126	RRF	.2143	RTF	-.7939	CRT	.5776	CRS	.6907	CST	.9882
FDE	.4194	FRA	.9698	FC3	-.1769	BSP	3826	SGB	1366.6	R23	-.0202	R13	.7950	LSA	744.0	MSA	296.0	SSA	15.6
BDE	.8234	BRA	1.7882	BC3	.1814	FSP	-163	SG1	1284.7	SG2	466.1	THA	174.76	EL1	586.8	EL2	290.0	ALF	33.87

LAUNCH DATE OCT 7 1965 FLIGHT TIME 92.00 ARRIVAL DATE JAN 7 1966

HELIOCENTRIC CONIC DISTANCE 207.325

RL	149.50	LAL	.00	LOL	13.52	VL	23.401	GAL	10.41	AZL	88.93	HCA	81.05	SMA	108.09	ECC	.41794	INC	1.0738	V1	29.804
RP	107.62	LAP	1.06	LOP	94.57	VP	35.193	GAP	-24.70	AZP	89.83	TAL	164.79	TAP	245.84	RCA	62.91	APO	153.26	V2	35.213
RC	47.108	GL	2.99	GP	-6.52	ZAL	55.20	ZAP	14.26	ETS	150.35	ZAE	151.16	ETE	200.61	ZAC	30.05	ETC	133.31	CLP	12.71

PLANETOCENTRIC CONIC

C3	68.621	VHL	8.284	DLA	-12.48	RAL	319.86	RAD	6569.3	VEL	13.783	PTH	2.52	VHP	15.030	DPA	-30.55	RAP	289.55	ECC	2.1293

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 15 25	2121.49	-17.21	35.67	199.20	112.84	9 50 46	1521.5	-13.96	28.50
90.00	17 59 54	5561.93	28.28	259.40	208.78	91.51	19 32 36	4961.9	28.19	250.73
100.00	10 30 20	1879.75	-18.68	17.23	198.54	113.77	11 1 40	1279.7	-15.31	10.06
100.00	19 27 39	5278.91	29.88	238.62	208.82	90.80	20 55 38	4678.9	29.67	229.82
110.00	11 24 7	1711.33	-22.56	2.52	196.60	116.39	11 52 38	1111.3	-18.83	355.36
110.00	20 50 22	5020.09	34.17	218.95	208.81	88.86	22 14 2	4420.1	33.63	209.75

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-.5631	TRA	-1.7539	TC3	-.1767	BAU	.1689	SGT	1334.6	SGR	478.2	SG3	73.0	ST	539.2	SR	398.9	SS	486.8
RDE	-.5654	RRA	.3691	RC3	-.0518	FAU	.01584	RRT	-.2310	RRF	.2342	RTF	-.8066	CRT	.5724	CRS	.6923	CST	.9870
FDE	.4449	FRA	1.0067	FC3	-.1999	BSP	4032	SGB	1417.7	R23	-.0230	R13	.8078	LSA	774.1	MSA	295.6	SSA	15.8
BDE	.7980	BRA	1.7923	BC3	.1842	FSP	-180	SG1	1339.8	SG2	463.5	THA	174.62	EL1	603.7	EL2	292.1	ALF	30.94

LAUNCH DATE OCT 7 1965 FLIGHT TIME 94.00 ARRIVAL DATE JAN 9 1966

HELIOCENTRIC CONIC DISTANCE 213.967

RL	149.50	LAL	.00	LOL	13.52	VL	23.723	GAL	9.90	AZL	88.75	HCA	84.28	SMA	109.44	ECC	.39950	INC	1.2474	VI	29.804
RP	107.60	LAP	1.24	LOP	97.80	VP	35.416	GAP	-23.53	AZP	89.88	TAL	164.41	TAP	248.69	RCA	65.72	APO	153.16	V2	35.220
RC	45.785	GL	3.69	GP	-6.87	ZAL	54.67	ZAP	13.18	ETS	146.18	ZAE	152.62	ETE	204.02	ZAC	31.60	ETC	135.20	CLP	11.28

PLANETOCENTRIC CONIC

C3	62.633	VHL	7.914	DLA	-11.64	RAL	320.20	RAD	6569.2	VEL	13.564	PTH	2.48	VHP	14.387	DPA	-30.74	RAP	291.67	ECC	2.0308

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 9 39	2127.97	-17.38	36.07	198.19	112.72	9 45 7	1528.0	-14.15	28.88
90.00	18 8 19	5511.69	28.32	255.72	207.01	89.67	19 40 10	4911.7	27.97	247.07
100.00	10 25 6	1884.56	-18.81	17.53	197.54	113.67	10 56 30	1284.6	-15.45	10.35
100.00	19 35 33	5230.33	29.87	235.01	206.99	88.90	21 2 43	4630.3	29.40	226.23
110.00	11 20 0	1712.61	-22.60	2.59	195.65	116.36	11 48 33	1112.6	-18.87	355.44
110.00	20 57 8	4975.05	34.05	215.44	206.80	86.78	22 20 3	4375.0	33.23	206.29

DIFFERENTIAL CORRECTIONS

TDE	-.5662	TRA	-1.7580	TC3	-.1755	BAU	.1556												
RDE	-.5274	RRA	.3646	RC3	-.0610	FAU	.01636												
FDE	.4721	FRA	1.0455	FC3	-.2262	BSP	4239												
BDE	.7738	BRA	1.7954	BC3	.1858	FSP	-198												

MID-COURSE EXECUTION ACCURACY

SGT	1390.6	SGR	477.3	SG3	79.3						
RRT	-.2515	RRF	.2566	RTF	-.8187						
SGB	1470.3	R23	-.0262	R13	.8200						
SG1	1396.4	SG2	460.0	THA	174.46						

ORBIT DETERMINATION ACCURACY

ST	565.7	SR	390.3	SS	513.6						
CRT	.5661	CRS	.6929	CST	.9857						
LSA	805.8	MSA	294.3	SSA	15.9						
EL1	621.9	EL2	292.7	ALF	28.07						

LAUNCH DATE OCT 7 1965 FLIGHT TIME 96.00 ARRIVAL DATE JAN 11 1966

HELIOCENTRIC CONIC DISTANCE 220.642

RL	149.50	LAL	.00	LOL	13.52	VL	24.023	GAL	9.41	AZL	88.58	HCA	87.52	SMA	110.75	ECC	.38193	INC	1.4192	VI	29.804
RP	107.57	LAP	1.42	LOP	101.04	VP	35.625	GAP	-22.40	AZP	89.94	TAL	164.07	TAP	251.59	RCA	68.45	APO	153.05	V2	35.227
RC	44.580	GL	4.45	GP	-7.25	ZAL	54.20	ZAP	12.21	ETS	141.15	ZAE	154.09	ETE	208.07	ZAC	33.21	ETC	136.88	CLP	9.85

PLANETOCENTRIC CONIC

C3	57.226	VHL	7.565	DLA	-10.76	RAL	320.45	RAD	6569.0	VEL	13.364	PTH	2.44	VHP	13.766	DPA	-30.93	RAP	293.79	ECC	1.9418

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 3 21	2135.39	-17.57	36.53	197.09	112.57	9 38 56	1535.4	-14.36	29.32
90.00	18 16 38	5460.29	28.24	251.97	205.12	87.78	19 47 38	4860.3	27.63	243.35
100.00	10 19 19	1890.30	-18.97	17.88	196.47	113.55	10 50 49	1290.3	-15.62	10.69
100.00	19 43 21	5180.62	29.75	231.32	205.04	86.96	21 9 41	4580.6	29.01	222.59
110.00	11 15 22	1714.76	-22.66	2.73	194.63	116.30	11 43 57	1114.8	-18.94	355.57
110.00	21 3 47	4928.92	33.82	211.85	204.69	84.67	22 25 56	4328.9	32.71	202.79

DIFFERENTIAL CORRECTIONS

TDE	-.5691	TRA	-1.7610	TC3	-.1723	BAU	.1427												
RDE	-.4899	RRA	.3605	RC3	-.0716	FAU	.01694												
FDE	.5015	FRA	1.0864	FC3	-.2562	BSP	4456												
BDE	.7510	BRA	1.7975	BC3	.1865	FSP	-218												

MID-COURSE EXECUTION ACCURACY

SGT	1448.1	SGR	476.1	SG3	86.2						
RRT	-.2744	RRF	.2816	RTF	-.8302						
SGB	1524.3	R23	-.0299	R13	.8316						
SG1	1454.6	SG2	455.8	THA	174.28						

ORBIT DETERMINATION ACCURACY

ST	593.1	SR	380.3	SS	541.9						
CRT	.5587	CRS	.6923	CST	.9844						
LSA	839.3	MSA	292.1	SSA	16.0						
EL1	641.3	EL2	291.7	ALF	25.29						

LAUNCH DATE OCT 7 1965 FLIGHT TIME 98.00 ARRIVAL DATE JAN 13 1966

HELIOCENTRIC CONIC DISTANCE 227.347

RL	149.50	LAL	.00	LOL	13.52	VL	24.303	GAL	8.93	AZL	88.41	HCA	90.76	SMA	112.02	ECC	.36524	INC	1.5901	VI	29.804
RP	107.55	LAP	1.59	LOP	104.28	VP	35.820	GAP	-21.31	AZP	90.02	TAL	163.77	TAP	254.53	RCA	71.10	APO	152.93	V2	35.234
RC	43.503	GL	5.28	GP	-7.68	ZAL	53.81	ZAP	11.37	ETS	135.12	ZAE	155.53	ETE	212.88	ZAC	34.86	ETC	138.37	CLP	8.41

PLANETOCENTRIC CONIC

C3	52.349	VHL	7.235	DLA	-9.83	RAL	320.62	RAD	6568.9	VEL	13.180	PTH	2.41	VHP	13.167	DPA	-31.14	RAP	295.92	ECC	1.8615

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 56 28	2144.01	-17.80	37.06	195.94	112.40	9 32 12	1544.0	-14.61	29.84
90.00	18 24 52	5407.72	28.04	248.13	203.13	85.87	19 55 0	4807.7	27.17	239.57
100.00	10 12 58	1897.22	-19.15	18.31	195.34	113.40	10 44 35	1297.2	-15.83	11.10
100.00	19 51 3	5129.75	29.51	227.55	203.00	85.00	21 16 33	4529.7	28.50	218.89
110.00	11 10 12	1718.02	-22.76	2.93	193.55	116.22	11 38 50	1118.0	-19.05	355.76
110.00	21 10 19	4881.71	33.46	208.22	202.49	82.55	22 31 41	4281.7	32.07	199.26

DIFFERENTIAL CORRECTIONS

TDE	-.5722	TRA	-1.7628	TC3	-.1665	BAU	.1304												
RDE	-.4529	RRA	.3569	RC3	-.0836	FAU	.01757												
FDE	.5335	FRA	1.1297	FC3	-.2905	BSP	4677												
BDE	.7297	BRA	1.7985	BC3	.1863	FSP	-240												

MID-COURSE EXECUTION ACCURACY

SGT	1506.8	SGR	474.9	SG3	93.8						
RRT	-.3001	RRF	.3097	RTF	-.8411						
SGB	1579.9	R23	-.0341	R13	.8425						
SG1	1514.2	SG2	450.8	THA	174.07						

ORBIT DETERMINATION ACCURACY

ST	621.3	SR	368.8	SS	572.0						
CRT	.5497	CRS	.6904	CST	.9830						
LSA	874.9	MSA	289.1	SSA	16.1						
EL1	662.1	EL2	289.1	ALF	22.61						

LAUNCH DATE OCT 7 1965 FLIGHT TIME 100.00 ARRIVAL DATE JAN 15 1966

HELIOCENTRIC CONIC DISTANCE 234.078

RL	149.50	LAL	.00	LOL	13.52	VL	24.565	GAL	8.48	AZL	88.24	HCA	94.00	SMA	113.24	ECC	.34940	INC	1.7614	VI	29.804
RP	107.54	LAP	1.76	LOP	107.52	VP	36.004	GAP	-20.25	AZP	90.12	TAL	163.52	TAP	257.51	RCA	73.67	APO	152.80	V2	35.239
RC	42.563	GL	6.19	GP	-8.15	ZAL	53.49	ZAP	10.70	ETS	128.01	ZAE	156.88	ETE	218.56	ZAC	36.54	ETC	139.69	CLP	6.96

PLANETOCENTRIC CONIC

C3	47.957	VHL	6.925	DLA	-8.85	RAL	320.71	RAD	6568.8	VEL	13.012	PTH	2.37	VHP	12.588	DPA	-31.36	RAP	298.06	ECC	1.7893

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 48 59	2154.12	-18.06	37.69	194.73	112.19	9 24 53	1554.1	-14.89	30.44
90.00	18 33 3	5353.95	27.71	244.23	201.06	83.94	20 2 17	4753.9	26.59	235.75
100.00	10 6 1	1905.60	-19.38	18.83	194.15	113.21	10 37 46	1305.6	-16.07	11.60
100.00	19 58 42	5077.70	29.14	223.73	200.88	83.02	21 23 20	4477.7	27.87	215.16
110.00	11 4 26	1722.66	-22.90	3.22	192.41	116.10	11 33 9	1122.7	-19.20	356.03
110.00	21 16 46	4833.41	32.97	204.53	200.23	80.42	22 37 20	4233.4	31.30	195.71

DIFFERENTIAL CORRECTIONS

TDE	-.5754	TRA	-1.7633	TC3	-.1580	BAU	.1189												
RDE	-.4162	RRA	.3539	RC3	-.0972	FAU	.01826												
FDE	.5684	FRA	1.1756	FC3	-.3297	BSP	4898												
BDE	.7101	BRA	1.7984	BC3	.1855	FSP	-264												

MID-COURSE EXECUTION ACCURACY

SGT	1566.6	SGR	473.8	SG3	102.2						
RRT	-.3289	RRF	.3413	RTF	-.8513						
SGB	1636.7	R23	-.0389	R13	.8529						
SG1	1575.0	SG2	445.0	THA	173.83						

ORBIT DETERMINATION ACCURACY

ST	650.3	SR	355.6	SS	604.1						
CRT	.5386	CRS	.6865	CST	.9817						
LSA	912.5	MSA	285.2	SSA	16.2						
EL1	684.3	EL2	284.7	ALF	20.03						

LAUNCH DATE OCT 7 1965 FLIGHT TIME 102.00 ARRIVAL DATE JAN 17 1966

HELIOCENTRIC CONIC DISTANCE 240.829

RL	149.50	LAL	.00	LOL	13.52	VL	24.808	GAL	8.04	AZL	88.07	HCA	97.24	SMA	114.41	ECC	.33440	INC	1.9341	VI	29.804
RP	107.52	LAP	1.92	LOP	110.76	VP	36.175	GAP	-19.24	AZP	90.24	TAL	163.31	TAP	260.54	RCA	76.15	APO	152.67	V2	35.244
RC	41.769	GL	7.18	GP	-8.67	ZAL	53.25	ZAP	10.25	ETS	119.87	ZAE	158.04	ETE	225.19	ZAC	38.27	ETC	140.85	CLP	5.49

PLANETOCENTRIC CONIC

C3	44.011	VHL	6.634	DLA	-7.81	RAL	320.71	RAD	6568.7	VEL	12.860	PTH	2.34	VHP	12.031	DPA	-31.62	RAP	300.19	ECC	1.7243

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 40 49	2166.03	-18.36	38.43	193.48	111.94	9 16 55	1566.0	-15.22	31.16
90.00	18 41 14	5298.92	27.26	240.27	198.92	82.01	20 9 33	4698.9	25.87	231.88
100.00	9 58 24	1915.75	-19.65	19.46	192.91	112.99	10 30 20	1315.8	-16.37	12.21
100.00	20 6 21	5024.44	28.64	219.85	198.69	81.03	21 30 5	4424.4	27.10	211.39
110.00	10 58 4	1728.95	-23.09	3.61	191.23	115.94	11 26 52	1128.9	-19.41	356.40
110.00	21 23 10	4784.01	32.35	200.81	197.90	78.30	22 42 54	4184.0	30.40	192.14

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY				ORBIT DETERMINATION ACCURACY			
TDE	-.5790	TRA	-1.7625	TC3	-.1464	BAU	.1087	SGT	1627.4	SGR	473.2	SG3	111.3	ST	680.1	SR	340.6	SS	638.5
RDE	-.3797	RRA	.3518	RC3	-.1126	FAU	.01903	RRT	-.3612	RRF	.3768	RTF	-.8610	CRT	.5249	CRS	.6801	CST	.9803
FDE	.6067	FRA	1.2244	FC3	-.3744	BSP	5119	SGB	1694.8	R23	-.0444	R13	.8627	LSA	952.5	MSA	280.5	SSA	16.3
BDE	.6924	BRA	1.7973	BC3	.1847	FSP	-291	SG1	1637.1	SG2	438.6	THA	173.54	EL1	707.8	EL2	278.6	ALF	17.53

LAUNCH DATE OCT 7 1965 FLIGHT TIME 104.00 ARRIVAL DATE JAN 19 1966

HELIOCENTRIC CONIC DISTANCE 247.596

RL	149.50	LAL	.00	LOL	13.52	VL	25.034	GAL	7.63	AZL	87.89	HCA	100.48	SMA	115.53	ECC	.32023	INC	2.1093	VI	29.804
RP	107.51	LAP	2.07	LOP	114.01	VP	36.335	GAP	-18.26	AZP	90.38	TAL	163.14	TAP	263.62	RCA	78.53	APO	152.53	V2	35.249
RC	41.131	GL	8.25	GP	-9.26	ZAL	53.10	ZAP	10.08	ETS	110.97	ZAE	158.91	ETE	232.77	ZAC	40.02	ETC	141.87	CLP	4.01

PLANETOCENTRIC CONIC

C3	40.472	VHL	6.362	DLA	-6.70	RAL	320.63	RAD	6568.6	VEL	12.722	PTH	2.31	VHP	11.494	DPA	-31.90	RAP	302.33	ECC	1.6661

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 31 56	2180.08	-18.72	39.31	192.19	111.64	9 8 16	1580.1	-15.61	32.01
90.00	18 49 28	5242.61	26.66	236.26	196.73	80.08	20 16 50	4642.6	25.02	227.97
100.00	9 50 5	1927.99	-19.97	20.23	191.64	112.71	10 22 13	1328.0	-16.72	12.94
100.00	20 14 0	4969.94	27.99	215.93	196.46	79.06	21 36 50	4369.9	26.20	207.59
110.00	10 51 1	1737.20	-23.33	4.13	190.02	115.72	11 19 58	1137.2	-19.68	356.89
110.00	21 29 33	4733.49	31.59	197.07	195.55	76.20	22 48 27	4133.5	29.37	188.56

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY				ORBIT DETERMINATION ACCURACY			
TDE	-.5837	TRA	-1.7607	TC3	-.1315	BAU	.1001	SGT	1689.2	SGR	473.5	SG3	121.4	ST	711.2	SR	323.6	SS	675.6
RDE	-.3433	RRA	.3508	RC3	-.1301	FAU	.01987	RRT	-.3972	RRF	.4164	RTF	-.8700	CRT	.5077	CRS	.6703	CST	.9790
FDE	.6492	FRA	1.2765	FC3	-.4251	BSP	5340	SGB	1754.3	R23	-.0508	R13	.8720	LSA	995.5	MSA	275.0	SSA	16.4
BDE	.6772	BRA	1.7953	BC3	.1850	FSP	-321	SG1	1700.4	SG2	431.7	THA	173.21	EL1	733.0	EL2	270.5	ALF	15.11

LAUNCH DATE OCT 7 1965 FLIGHT TIME 106.00 ARRIVAL DATE JAN 21 1966

HELIOCENTRIC CONIC DISTANCE 254.377

RL	149.50	LAL	.00	LOL	13.52	VL	25.244	GAL	7.23	AZL	87.71	HCA	103.72	SMA	116.60	ECC	.30686	INC	2.2883	VI	29.804
RP	107.50	LAP	2.22	LOP	117.25	VP	36.483	GAP	-17.32	AZP	90.54	TAL	163.03	TAP	266.75	RCA	80.82	APO	152.38	V2	35.252
RC	40.657	GL	9.42	GP	-9.91	ZAL	53.03	ZAP	10.22	ETS	101.78	ZAE	159.41	ETE	241.14	ZAC	41.81	ETC	142.76	CLP	2.51

PLANETOCENTRIC CONIC

C3	37.309	VHL	6.108	DLA	-5.53	RAL	320.46	RAD	6568.5	VEL	12.597	PTH	2.28	VHP	10.977	DPA	-32.23	RAP	304.47	ECC	1.6140

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 22 17	2196.63	-19.13	40.35	190.88	111.29	8 58 54	1596.6	-16.07	33.01
90.00	18 57 45	5184.94	25.92	232.20	194.51	78.17	20 24 10	4584.9	24.03	224.04
100.00	9 41 1	1942.66	-20.36	21.15	190.35	112.37	10 13 24	1342.7	-17.15	13.83
100.00	20 21 43	4914.15	27.21	211.97	194.20	77.12	21 43 37	4314.2	25.16	203.76
110.00	10 43 17	1747.73	-23.64	4.79	188.78	115.44	11 12 24	1147.7	-20.02	357.52
110.00	21 35 56	4681.84	30.69	193.31	193.18	74.15	22 53 58	4081.8	28.21	184.99

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY				ORBIT DETERMINATION ACCURACY			
TDE	-.5891	TRA	-1.7576	TC3	-.1126	BAU	.0935	SGT	1751.5	SGR	475.1	SG3	132.5	ST	743.2	SR	304.4	SS	715.5
RDE	-.3067	RRA	.3512	RC3	-.1498	FAU	.02079	RRT	-.4374	RRF	.4604	RTF	-.8787	CRT	.4847	CRS	.6553	CST	.9777
FDE	.6966	FRA	1.3322	FC3	-.4825	BSP	5564	SGB	1814.8	R23	-.0579	R13	.8808	LSA	1041.3	MSA	268.8	SSA	16.4
BDE	.6641	BRA	1.7923	BC3	.1874	FSP	-353	SG1	1764.6	SG2	424.1	THA	172.82	EL1	759.7	EL2	260.4	ALF	12.75

LAUNCH DATE OCT 7 1965 FLIGHT TIME 108.00 ARRIVAL DATE JAN 23 1966

HELIOCENTRIC CONIC DISTANCE 261.167

RL	149.50	LAL	.00	LOL	13.52	VL	25.439	GAL	6.85	AZL	87.53	HCA	106.96	SMA	117.63	ECC	.29427	INC	2.4723	VI	29.804
RP	107.49	LAP	2.36	LOP	120.50	VP	36.621	GAP	-16.40	AZP	90.72	TAL	162.95	TAP	269.91	RCA	83.01	APO	152.24	V2	35.255
RC	40.351	GL	10.69	GP	-10.64	ZAL	53.05	ZAP	10.69	ETS	92.89	ZAE	159.45	ETE	249.92	ZAC	43.62	ETC	143.51	CLP	.99

PLANETOCENTRIC CONIC

C3	34.493	VHL	5.873	DLA	-4.28	RAL	320.20	RAD	6568.4	VEL	12.485	PTH	2.26	VHP	10.481	DPA	-32.62	RAP	306.61	ECC	1.5677

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 11 48	2216.06	-19.60	41.57	189.56	110.85	8 48 44	1616.1	-16.59	34.19
90.00	19 6 11	5125.86	25.03	228.10	192.28	76.30	20 31 37	4525.9	22.90	220.08
100.00	9 31 9	1960.13	-20.81	22.25	189.06	111.96	10 3 49	1360.1	-17.64	14.89
100.00	20 29 32	4857.02	26.28	207.98	191.93	75.22	21 50 29	4257.0	23.99	199.92
110.00	10 34 47	1760.89	-24.02	5.62	187.54	115.08	11 4 8	1160.9	-20.44	358.30
110.00	21 42 23	4629.03	29.65	189.55	190.81	72.15	22 59 32	4029.0	26.92	181.42

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY				ORBIT DETERMINATION ACCURACY			
TDE	-.5955	TRA	-1.7546	TC3	-.0964	BAU	.0909	SGT	1815.7	SGR	479.0	SG3	144.6	ST	776.4	SR	282.8	SS	758.6
RDE	-.2697	RRA	.3532	RC3	-.1720	FAU	.02180	RRT	-.4799	RRF	.5088	RTF	-.8849	CRT	.4531	CRS	.6327	CST	.9764
FDE	.7495	FRA	1.3916	FC3	-.5471	BSP	5387	SGB	1877.8	R23	-.0689	R13	.8874	LSA	1090.5	MSA	262.2	SSA	16.6
BDE	.6537	BRA	1.7898	BC3	.1972	FSP	-390	SG1	1831.0	SG2	416.7	THA	172.39	EL1	788.1	EL2	248.4	ALF	10.42

LAUNCH DATE OCT 7 1965 FLIGHT TIME 110.00 ARRIVAL DATE JAN 25 1966

HELIOCENTRIC CONIC DISTANCE 267.963

RL 149.50 LAL .00 LOL 13.52 VL 25.621 GAL 6.48 AZL 87.34 HCA 110.20 SMA 118.60 ECC .28244 INC 2.6628 V1 29.804
RP 107.48 LAP 2.50 LOP 123.75 VP 36.749 GAP -15.52 AZP 90.92 TAL 162.92 TAP 273.13 RCA 85.10 APO 152.10 V2 35.257
RC 40.219 GL 12.07 GP -11.46 ZAL 53.18 ZAP 11.48 ETS 84.79 ZAE 158.99 ETE 258.65 ZAC 45.46 ETC 144.15 CLP -.56

PLANETOCENTRIC CONIC

C3 31.997 VHL 5.657 DLA -2.94 RAL 319.85 RAD 6568.3 VEL 12.384 PTH 2.24 VHP 10.004 DPA -33.08 RAP 308.75 ECC 1.5266

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 0 25	2238.78	-20.15	43.02	188.24	110.33	8 37 44	1638.8	-17.20	35.59
90.00	19 14 48	5065.26	23.99	223.97	190.05	74.48	20 39 13	4465.3	21.63	216.09
100.00	9 20 24	1980.81	-21.33	23.57	187.76	111.46	9 53 24	1380.8	-18.22	16.15
100.00	20 37 31	4798.47	25.20	203.96	189.67	73.37	21 57 29	4198.5	22.68	196.07
110.00	10 25 29	1777.03	-24.49	6.64	186.30	114.63	10 55 6	1177.0	-20.96	359.28
110.00	21 48 54	4575.01	28.46	185.80	188.47	70.21	23 5 9	3975.0	25.50	177.87

DIFFERENTIAL CORRECTIONS

TDE -.6029 TRA-1.7467 TC3 -.0635 BAU .0884
RDE -.2318 RRA .3573 RC3 -.1966 FAU .02288
FDE .8093 FRA 1.4554 FC3 -.6192 BSP 6022
BDE .6460 BRA 1.7829 BC3 .2066 FSP -429

MID-COURSE EXECUTION ACCURACY

SGT 1875.3 SGR 485.7 SG3 157.9
RRT -.5298 RRF .5611 RTF -.8942
SGB 1937.2 R23 -.0752 R13 .8970
SG1 1893.7 SG2 407.9 THA 171.80

ORBIT DETERMINATION ACCURACY

ST 809.6 SR 258.8 SS 805.6
CRT .4086 CRS .5978 CST .9754
LSA 1142.9 MSA 254.8 SSA 16.4
EL1 817.1 EL2 234.1 ALF 8.11

LAUNCH DATE OCT 7 1965 FLIGHT TIME 112.00 ARRIVAL DATE JAN 27 1966

HELIOCENTRIC CONIC DISTANCE 274.761

RL 149.50 LAL .00 LOL 13.52 VL 25.788 GAL 6.14 AZL 87.14 HCA 113.45 SMA 119.52 ECC .27135 INC 2.8615 V1 29.804
RP 107.48 LAP 2.62 LOP 127.00 VP 36.868 GAP -14.67 AZP 91.14 TAL 162.94 TAP 276.38 RCA 87.09 APO 151.95 V2 35.259
RC 40.263 GL 13.56 GP -12.39 ZAL 53.40 ZAP 12.57 ETS 77.78 ZAE 158.02 ETE 266.82 ZAC 47.33 ETC 144.67 CLP -2.14

PLANETOCENTRIC CONIC

C3 29.799 VHL 5.459 DLA -1.51 RAL 319.42 RAD 6568.2 VEL 12.295 PTH 2.21 VHP 9.548 DPA -33.62 RAP 310.90 ECC 1.4904

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 48 4	2265.25	-20.77	44.72	186.95	109.70	8 25 49	1665.2	-17.89	37.22
90.00	19 23 40	5003.06	22.79	219.80	187.85	72.73	20 47 3	4403.1	20.21	212.07
100.00	9 8 42	2005.13	-21.92	25.13	186.49	110.84	9 42 7	1405.1	-18.89	17.64
100.00	20 45 43	4738.41	23.97	199.92	187.44	71.58	22 4 42	4138.4	21.23	192.20
110.00	10 15 20	1796.56	-25.03	7.90	185.09	114.07	10 45 17	1196.6	-21.57	.46
110.00	21 55 35	4519.75	27.13	182.05	186.16	68.36	23 10 54	3919.7	23.95	174.33

DIFFERENTIAL CORRECTIONS

TDE -.6130 TRA-1.7399 TC3 -.0329 BAU .0903
RDE -.1927 RRA .3638 RC3 -.2242 FAU .02407
FDE .8770 FRA 1.5237 FC3 -.6993 BSP 6248
BDE .6426 BRA 1.7775 BC3 .2266 FSP -473

MID-COURSE EXECUTION ACCURACY

SGT 1937.2 SGR 496.7 SG3 172.6
RRT -.5808 RRF .6166 RTF -.9013
SGB 1999.8 R23 -.0858 R13 .9045
SG1 1959.5 SG2 399.8 THA 171.16

ORBIT DETERMINATION ACCURACY

ST 845.2 SR 232.6 SS 856.6
CRT .3426 CRS .5425 CST .9745
LSA 1200.4 MSA 247.2 SSA 16.4
EL1 849.2 EL2 217.5 ALF 5.77

LAUNCH DATE OCT 7 1965 FLIGHT TIME 114.00 ARRIVAL DATE JAN 29 1966

HELIOCENTRIC CONIC DISTANCE 281.559

RL 149.50 LAL .00 LOL 13.52 VL 25.944 GAL 5.81 AZL 86.93 HCA 116.69 SMA 120.39 ECC .26097 INC 3.0701 V1 29.804
RP 107.48 LAP 2.74 LOP 130.24 VP 36.977 GAP -13.84 AZP 91.38 TAL 162.99 TAP 279.68 RCA 88.97 APO 151.81 V2 35.259
RC 40.482 GL 15.18 GP -13.44 ZAL 53.73 ZAP 13.94 ETS 71.94 ZAE 156.61 ETE 274.06 ZAC 49.23 ETC 145.08 CLP -3.76

PLANETOCENTRIC CONIC

C3 27.881 VHL 5.280 DLA .01 RAL 318.89 RAD 6568.1 VEL 12.217 PTH 2.20 VHP 9.113 DPA -34.26 RAP 313.06 ECC 1.4589

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 34 39	2295.94	-21.46	46.70	185.70	108.93	8 12 55	1695.9	-18.68	39.13
90.00	19 32 53	4939.11	21.44	215.60	185.69	71.04	20 55 12	4339.1	18.65	208.03
100.00	8 56 0	2033.54	-22.60	26.97	185.26	110.10	9 29 53	1433.5	-19.66	19.41
100.00	20 54 13	4676.74	22.58	195.87	185.26	69.88	22 12 10	4076.7	19.64	188.31
110.00	10 4 15	1819.87	-25.67	9.41	183.92	113.39	10 34 35	1219.9	-22.29	1.89
110.00	22 2 27	4463.17	25.65	178.31	183.91	66.59	23 16 50	3863.2	22.26	170.80

DIFFERENTIAL CORRECTIONS

TDE -.6250 TRA-1.7315 TC3 .0016 BAU .0950
RDE -.1517 RRA .3732 RC3 -.2548 FAU .02535
FDE .9541 FRA 1.5968 FC3 -.7871 BSP 6472
BDE .6432 BRA 1.7712 BC3 .2548 FSP -521

MID-COURSE EXECUTION ACCURACY

SGT 1997.5 SGR 513.3 SG3 188.6
RRT -.6335 RRF .6737 RTF -.9080
SGB 2062.4 R23 -.0975 R13 .9116
SG1 2024.8 SG2 391.8 THA 170.39

ORBIT DETERMINATION ACCURACY

ST 881.9 SR 204.8 SS 912.3
CRT .2392 CRS .4514 CST .9739
LSA 1262.6 MSA 239.5 SSA 16.2
EL1 883.3 EL2 198.5 ALF 3.35

LAUNCH DATE OCT 7 1965 FLIGHT TIME 116.00 ARRIVAL DATE JAN 31 1966

HELIOCENTRIC CONIC DISTANCE 288.353

RL 149.50 LAL .00 LOL 13.52 VL 26.087 GAL 5.50 AZL 86.71 HCA 119.93 SMA 121.21 ECC .25128 INC 3.2911 V1 29.804
RP 107.48 LAP 2.85 LOP 133.49 VP 37.078 GAP -13.05 AZP 91.64 TAL 163.09 TAP 283.02 RCA 90.76 APO 151.67 V2 35.259
RC 40.875 GL 16.92 GP -14.62 ZAL 54.18 ZAP 15.58 ETS 67.20 ZAE 154.83 ETE 280.20 ZAC 51.17 ETC 145.39 CLP -5.42

PLANETOCENTRIC CONIC

C3 26.227 VHL 5.121 DLA 1.65 RAL 318.27 RAD 6568.1 VEL 12.149 PTH 2.18 VHP 8.699 DPA -35.02 RAP 315.24 ECC 1.4316

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 20 4	2331.40	-22.22	49.02	184.51	108.02	7 58 55	1731.4	-19.55	41.36
90.00	19 42 32	4873.25	19.92	211.36	183.60	69.45	21 3 45	4273.3	16.95	203.95
100.00	8 42 10	2066.55	-23.36	29.13	184.10	109.20	9 16 37	1466.6	-20.52	21.48
100.00	21 3 6	4613.33	21.04	191.79	183.14	68.26	22 20 0	4013.3	17.90	184.40
110.00	9 52 11	1847.44	-26.40	11.21	182.82	112.54	10 22 58	1247.4	-23.12	3.60
110.00	22 9 36	4405.21	24.03	174.59	181.74	64.93	23 23 1	3805.2	20.45	167.28

DIFFERENTIAL CORRECTIONS

TDE -.6374 TRA-1.7195 TC3 .0429 BAU .1024
RDE -.1082 RRA .3859 RC3 -.2889 FAU .02677
FDE 1.0410 FRA 1.6735 FC3 -.8836 BSP 6755
BDE .6465 BRA 1.7623 BC3 .2921 FSP -576

MID-COURSE EXECUTION ACCURACY

SGT 2052.9 SGR 537.4 SG3 206.0
RRT -.6870 RRF .7304 RTF -.9144
SGB 2122.1 R23 -.1092 R13 .9186
SG1 2087.0 SG2 384.1 THA 169.44

ORBIT DETERMINATION ACCURACY

ST 917.5 SR 177.6 SS 972.2
CRT .0707 CRS .2960 CST .9732
LSA 1328.3 MSA 232.2 SSA 15.9
EL1 917.6 EL2 177.1 ALF .81

LAUNCH DATE OCT 7 1965 FLIGHT TIME 118.00 ARRIVAL DATE FEB 2 1966

HELIOCENTRIC CONIC DISTANCE 295.142

RL 149.50 LAL .00 LOL 13.52 VL 26.220 GAL 5.20 AZL 86.47 HCA 123.17 SMA 121.99 ECC .24226 INC 3.5269 V1 29.804
RP 107.48 LAP 2.95 LOP 136.75 VP 37.170 GAP -12.27 AZP 91.93 TAL 163.22 TAP 286.39 RCA 92.43 APO 151.54 V2 35.258
RC 41.437 GL 18.81 GP -15.98 ZAL 54.74 ZAP 17.46 ETS 63.43 ZAE 152.76 ETE 285.22 ZAC 53.15 ETC 145.58 CLP -7.13

PLANETOCENTRIC CONIC

C3 24.825 VHL 4.983 DLA 3.40 RAL 317.56 RAD 6568.0 VEL 12.091 PTH 2.16 VHP 8.308 DPA -35.93 RAP 317.44 ECC 1.4086

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 4 12	2372.23	-23.06	51.72	183.41	106.91	7 43 44	1772.2	-20.52	43.97
90.00	19 52 44	4805.30	18.24	207.09	181.60	67.96	21 12 49	4205.3	15.09	199.83
100.00	8 27 8	2104.74	-24.19	31.66	183.02	108.12	9 2 13	1504.7	-21.49	23.91
100.00	21 12 29	4548.03	19.34	187.69	181.11	66.75	22 28 17	3948.0	16.03	180.46
110.00	9 39 1	1879.74	-27.23	13.36	181.80	111.51	10 10 21	1279.7	-24.06	5.63
110.00	22 17 5	4345.79	22.27	170.88	179.66	63.37	23 29 31	3745.8	18.51	163.76

DIFFERENTIAL CORRECTIONS

TDE -.6558 TRA-1.7091 TC3 .0831 BAU .1116
RDE -.0608 RRA .4029 RC3 -.3259 FAU .02821
FDE 1.1420 FRA 1.7563 FC3 -.9837 BSP 6967
BDE .6586 BRA 1.7560 BC3 .3363 FSP -634

MID-COURSE EXECUTION ACCURACY

SGT 2110.0 SGR 570.8 SG3 225.0
RRT -.7373 RRF .7843 RTF -.9202
SGB 2185.8 R23 -.1233 R13 .9252
SG1 2152.9 SG2 377.9 THA 168.36

ORBIT DETERMINATION ACCURACY

ST 957.9 SR 156.1 SS 1038.7
CRT -.1974 CRS .0312 CST .3732
LSA 1403.5 MSA 225.0 SSA 15.6
EL1 958.4 EL2 153.0 ALF 178.11

LAUNCH DATE OCT 7 1965 FLIGHT TIME 120.00 ARRIVAL DATE FEB 4 1966

HELIOCENTRIC CONIC DISTANCE 301.923

RL 149.50 LAL .00 LOL 13.52 VL 26.342 GAL 4.93 AZL 86.22 HCA 126.41 SMA 122.71 ECC .23388 INC 3.7808 V1 29.804
RP 107.49 LAP 3.04 LOP 140.00 VP 37.255 GAP -11.53 AZP 92.25 TAL 163.38 TAP 289.79 RCA 94.01 APO 151.41 V2 35.256
RC 42.162 GL 20.84 GP -17.52 ZAL 55.42 ZAP 19.58 ETS 60.48 ZAE 150.46 ETE 289.17 ZAC 55.18 ETC 145.67 CLP -8.88

PLANETOCENTRIC CONIC

C3 23.669 VHL 4.865 DLA 5.27 RAL 316.76 RAD 6568.0 VEL 12.044 PTH 2.15 VHP 7.940 DPA -37.01 RAP 319.68 ECC 1.3895

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 46 54	2419.14	-23.95	54.87	182.42	105.58	7 27 14	1819.1	-21.58	47.00
90.00	20 3 37	4735.00	16.39	202.76	179.70	66.58	21 22 32	4135.0	13.08	195.64
100.00	8 10 44	2148.75	-25.09	34.62	182.05	106.81	8 46 33	1548.7	-22.55	26.74
100.00	21 22 28	4480.62	17.47	183.55	179.20	65.35	22 37 9	3880.6	14.00	176.47
110.00	9 24 41	1917.33	-28.14	15.91	180.91	110.26	9 56 38	1317.3	-25.12	8.03
110.00	22 25 1	4284.80	20.36	167.18	177.69	61.93	23 36 26	3684.8	16.45	160.24

DIFFERENTIAL CORRECTIONS

TDE -.6781 TRA-1.6978 TC3 .1244 BAU .1224
RDE -.0083 RRA .4249 RC3 -.3661 FAU .02970
FDE 1.2579 FRA 1.8433 FC3-1.0865 BSP 7185
BDE .6781 BRA 1.7501 BC3 .3867 FSP -696

MID-COURSE EXECUTION ACCURACY

SGT 2164.3 SGR 616.1 SG3 245.4
RRT -.7832 RRF .8331 RTF -.9255
SGB 2250.3 R23 -.1382 R13 .9315
SG1 2219.0 SG2 373.6 THA 167.06

ORBIT DETERMINATION ACCURACY

ST 1000.3 SR 151.5 SS 1111.1
CRT -.5481 CRS -.3442 CST .9734
LSA 1486.7 MSA 218.3 SSA 15.1
EL1 1003.8 EL2 126.2 ALF 175.18

LAUNCH DATE OCT 7 1965 FLIGHT TIME 122.00 ARRIVAL DATE FEB 6 1966

HELIOCENTRIC CONIC DISTANCE 308.693

RL 149.50 LAL .00 LOL 13.52 VL 26.454 GAL 4.67 AZL 85.94 HCA 129.65 SMA 123.39 ECC .22611 INC 4.0568 V1 29.804
RP 107.49 LAP 3.12 LOP 143.25 VP 37.332 GAP -10.80 AZP 92.59 TAL 163.57 TAP 293.23 RCA 95.49 APO 151.29 V2 35.254
RC 43.042 GL 23.02 GP -19.29 ZAL 56.24 ZAP 21.96 ETS 58.20 ZAE 147.97 ETE 292.18 ZAC 57.28 ETC 145.66 CLP -10.70

PLANETOCENTRIC CONIC

C3 22.756 VHL 4.770 DLA 7.28 RAL 315.86 RAD 6567.9 VEL 12.006 PTH 2.14 VHP 7.597 DPA -38.29 RAP 321.99 ECC 1.3745

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 27 59	2472.94	-24.88	58.53	181.57	103.97	7 9 12	1872.9	-22.72	50.53
90.00	20 15 23	4662.01	14.36	198.36	177.95	65.33	21 33 5	4062.0	10.92	191.37
100.00	7 52 49	2199.34	-26.04	38.08	181.23	105.22	8 29 29	1599.3	-23.70	30.06
100.00	21 33 14	4410.85	15.44	179.36	177.42	64.08	22 46 45	3810.8	11.83	172.43
110.00	9 9 2	1960.83	-29.13	18.91	180.17	108.73	9 41 43	1360.8	-26.30	10.87
110.00	22 33 31	4222.12	18.31	163.47	175.85	60.62	23 43 53	3622.1	14.25	156.70

DIFFERENTIAL CORRECTIONS

TDE -.7046 TRA-1.6851 TC3 .1653 BAU .1343
RDE .0511 RRA .4528 RC3 -.4093 FAU .03122
FDE 1.3908 FRA 1.9336 FC3-1.1877 BSP 7403
BDE .7065 BRA 1.7449 BC3 .4414 FSP -763

MID-COURSE EXECUTION ACCURACY

SGT 2214.6 SGR 675.9 SG3 267.1
RRT -.8232 RRF .8752 RTF -.9304
SGB 2315.4 R23 -.1532 R13 .9377
SG1 2285.4 SG2 371.8 THA 165.50

ORBIT DETERMINATION ACCURACY

ST 1044.5 SR 176.0 SS 1189.7
CRT -.8310 CRS -.6852 CST .9740
LSA 1578.6 MSA 212.4 SSA 14.4
EL1 1054.8 EL2 96.9 ALF 171.96

LAUNCH DATE OCT 7 1965 FLIGHT TIME 124.00 ARRIVAL DATE FEB 8 1966

HELIOCENTRIC CONIC DISTANCE 315.451

RL 149.50 LAL .00 LOL 13.52 VL 26.557 GAL 4.43 AZL 85.64 HCA 132.89 SMA 124.02 ECC .21894 INC 4.3599 V1 29.804
RP 107.50 LAP 3.19 LOP 146.50 VP 37.402 GAP -10.10 AZP 92.97 TAL 163.79 TAP 296.68 RCA 96.86 APO 151.17 V2 35.250
RC 44.068 GL 25.36 GP -21.32 ZAL 57.18 ZAP 24.61 ETS 56.49 ZAE 145.33 ETE 294.36 ZAC 59.45 ETC 145.55 CLP -12.57

PLANETOCENTRIC CONIC

C3 22.092 VHL 4.700 DLA 9.42 RAL 314.87 RAD 6567.9 VEL 11.978 PTH 2.13 VHP 7.283 DPA -39.82 RAP 324.38 ECC 1.3636

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 7 12	2534.67	-25.83	62.81	180.89	102.03	6 49 27	1934.7	-23.91	54.66
90.00	20 28 16	4585.89	12.16	193.86	176.36	64.23	21 44 42	3985.9	8.59	186.99
100.00	7 33 10	2257.42	-27.01	42.12	180.59	103.31	8 10 47	1657.4	-24.91	33.95
100.00	21 44 59	4338.37	13.24	175.11	175.81	62.95	22 57 18	3738.4	9.51	168.30
110.00	8 51 55	2010.98	-30.18	22.44	179.62	106.88	9 25 26	1411.0	-27.57	14.21
110.00	22 42 43	4157.58	16.11	159.76	174.18	59.44	23 52 1	3557.6	11.94	153.14

DIFFERENTIAL CORRECTIONS

TDE -.7365 TRA-1.6716 TC3 .2044 BAU .1473
RDE .1200 RRA .4878 RC3 -.4548 FAU .03270
FDE 1.5428 FRA 2.0253 FC3-1.2814 BSP 7614
BDE .7463 BRA 1.7413 BC3 .4986 FSP -832

MID-COURSE EXECUTION ACCURACY

SGT 2260.5 SGR 753.3 SG3 289.8
RRT -.8565 RRF .9097 RTF -.9350
SGB 2382.7 R23 -.1671 R13 .9438
SG1 2353.2 SG2 373.4 THA 163.65

ORBIT DETERMINATION ACCURACY

ST 1091.0 SR 233.0 SS 1274.5
CRT -.9581 CRS -.8719 CST .9749
LSA 1680.9 MSA 207.6 SSA 13.6
EL1 1113.6 EL2 65.4 ALF 168.40

LAUNCH DATE OCT 7 1965 FLIGHT TIME 126.00 ARRIVAL DATE FEB 10 1966

HELIOCENTRIC CONIC DISTANCE 322.194

RL 149.50 LAL .00 LOL 13.52 VL 26.652 GAL 4.20 AZL 85.30 HCA 136.13 SMA 124.60 ECC .21233 INC 4.6966 V1 29.804
RP 107.51 LAP 3.25 LOP 149.75 VP 37.465 GAP -9.42 AZP 93.39 TAL 164.03 TAP 300.16 RCA 98.14 APO 151.06 V2 35.247
RC 45.230 GL 27.86 GP -23.67 ZAL 58.27 ZAP 27.54 ETS 55.22 ZAE 142.53 ETE 295.81 ZAC 61.73 ETC 145.33 CLP -14.51

PLANETOCENTRIC CONIC

C3 21.687 VHL 4.657 DLA 11.70 RAL 313.78 RAD 6567.9 VEL 11.961 PTH 2.13 VHP 7.001 DPA -41.63 RAP 326.91 ECC 1.3569

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 44 12	2605.64	-26.74	67.80	180.41	99.68	6 27 37	2005.6	-25.13	59.51
90.00	20 42 35	4506.00	9.75	189.22	174.98	63.28	21 57 41	3906.0	6.09	182.46
100.00	7 11 28	2324.17	-27.97	46.85	180.16	101.00	7 50 12	1724.2	-26.17	38.51
100.00	21 58 0	4262.71	10.86	170.75	174.40	61.98	23 9 3	3662.7	7.03	164.06
110.00	8 33 8	2068.64	-31.24	26.59	179.30	104.64	9 7 37	1468.6	-28.92	18.16
110.00	22 52 50	4090.99	13.77	156.02	172.69	58.40	24 1 1	3491.0	9.49	149.53

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.7718 TRA-1.6549 TC3 .2439 BAU .1619 SGT 2297.1 SGR 851.4 SG3 312.8 ST 1136.1 SR 318.6 SS 1363.1
RDE .2012 RRA .5308 RC3 -.5023 FAU .03415 RRT -.8835 RRF .9365 RTF -.9393 CRT -.9944 CRS -.9494 CST .9759
FDE 1.7130 FRA 2.1133 FC3-1.3633 BSP 7900 SGB 2449.8 R23 -.1780 R13 .9500 LSA 1791.2 MSA 204.2 SSA 12.7
BDE .7976 BRA 1.7379 BC3 .5584 FSP -908 SG1 2420.4 SG2 378.5 THA 161.40 EL1 1179.5 EL2 32.4 ALF 164.41

LAUNCH DATE OCT 7 1965 FLIGHT TIME 128.00 ARRIVAL DATE FEB 12 1966

HELIOCENTRIC CONIC DISTANCE 328.921

RL 149.50 LAL .00 LOL 13.52 VL 26.738 GAL 3.99 AZL 84.92 HCA 139.37 SMA 125.14 ECC .20626 INC 5.0753 V1 29.804
RP 107.53 LAP 3.30 LOP 153.00 VP 37.523 GAP -8.76 AZP 93.86 TAL 164.28 TAP 303.65 RCA 99.33 APO 150.95 V2 35.242
RC 46.516 GL 30.54 GP -26.37 ZAL 59.49 ZAP 30.80 ETS 54.32 ZAE 139.56 ETE 296.64 ZAC 64.14 ETC 145.03 CLP -16.52

PLANETOCENTRIC CONIC

C3 21.570 VHL 4.644 DLA 14.14 RAL 312.59 RAD 6567.9 VEL 11.956 PTH 2.13 VHP 6.756 DPA -43.77 RAP 329.63 ECC 1.3550

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 18 29	2687.66	-27.54	73.67	180.17	96.85	6 3 16	2087.7	-26.31	65.22
90.00	20 58 49	4421.36	7.12	184.39	173.87	62.52	22 12 30	3821.4	3.39	177.70
100.00	6 47 20	2401.12	-28.85	52.40	179.98	98.20	7 27 21	1801.1	-27.41	43.89
100.00	22 12 39	4183.13	8.28	166.25	173.24	61.17	23 22 22	3583.1	4.37	159.65
110.00	8 12 24	2134.94	-32.28	31.48	179.27	101.91	8 47 59	1534.9	-30.30	22.82
110.00	23 4 4	4022.07	11.28	152.23	171.44	57.52	24 11 6	3422.1	6.91	145.86

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.8172 TRA-1.6403 TC3 .2714 BAU .1766 SGT 2331.2 SGR 974.0 SG3 335.4 ST 1186.8 SR 432.1 SS 1457.5
RDE .2998 RRA .5840 RC3 -.5489 FAU .03527 RRT -.9036 RRF .9565 RTF -.9431 CRT -.9995 CRS -.9799 CST .9773
FDE 1.9060 FRA 2.1969 FC3-1.4157 BSP 8133 SGB 2526.5 R23 -.1860 R13 .9561 LSA 1918.0 MSA 201.7 SSA 11.6
BDE .8705 BRA 1.7412 BC3 .6124 FSP -980 SG1 2496.3 SG2 389.7 THA 158.78 EL1 1262.9 EL2 13.0 ALF 160.00

LAUNCH DATE OCT 7 1965 FLIGHT TIME 130.00 ARRIVAL DATE FEB 14 1966

HELIOCENTRIC CONIC DISTANCE 335.630

RL 149.50 LAL .00 LOL 13.52 VL 26.817 GAL 3.79 AZL 84.49 HCA 142.60 SMA 125.64 ECC .20072 INC 5.5072 V1 29.804
RP 107.55 LAP 3.34 LOP 156.25 VP 37.574 GAP -8.12 AZP 94.38 TAL 164.54 TAP 307.14 RCA 100.42 APO 150.86 V2 35.236
RC 47.916 GL 33.38 GP -29.49 ZAL 60.86 ZAP 34.41 ETS 53.71 ZAE 136.37 ETE 296.93 ZAC 66.71 ETC 144.65 CLP -18.60

PLANETOCENTRIC CONIC

C3 21.781 VHL 4.667 DLA 16.72 RAL 311.30 RAD 6567.9 VEL 11.965 PTH 2.13 VHP 6.556 DPA -46.27 RAP 332.63 ECC 1.3585

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 49 17	2783.37	-28.13	80.61	180.19	93.42	5 35 40	2183.4	-27.36	72.03
90.00	21 17 40	4330.36	4.23	179.26	173.08	61.98	22 29 50	3730.4	.45	172.62
100.00	6 20 7	2490.44	-29.54	58.95	180.08	94.82	7 1 37	1890.4	-28.55	50.28
100.00	22 29 31	4098.51	5.47	161.54	172.40	60.57	23 37 50	3498.5	1.51	154.99
110.00	7 49 19	2211.34	-33.21	37.25	179.57	98.62	8 26 10	1611.3	-31.66	28.36
110.00	23 16 48	3950.38	8.63	148.37	170.47	56.80	24 22 39	3350.4	4.20	142.08

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.8709 TRA-1.6253 TC3 .2893 BAU .1919 SGT 2357.3 SGR 1124.5 SG3 356.0 ST 1238.5 SR 574.6 SS 1553.4
RDE .4214 RRA .6486 RC3 -.5923 FAU .03596 RRT -.9185 RRF .9707 RTF -.9464 CRT -.9966 CRS -.9920 CST .9789
FDE 2.1176 FRA 2.2668 FC3-1.4292 BSP 8383 SGB 2611.8 R23 -.1887 R13 .9623 LSA 2058.3 MSA 200.3 SSA 10.5
BDE .9675 BRA 1.7500 BC3 .6591 FSP -1046 SG1 2580.0 SG2 406.4 THA 155.70 EL1 1364.6 EL2 43.1 ALF 155.16

LAUNCH DATE OCT 7 1965 FLIGHT TIME 132.00 ARRIVAL DATE FEB 16 1966

HELIOCENTRIC CONIC DISTANCE 342.320

RL 149.50 LAL .00 LOL 13.52 VL 26.888 GAL 3.62 AZL 83.99 HCA 145.83 SMA 126.10 ECC .19566 INC 6.0078 V1 29.804
RP 107.56 LAP 3.37 LOP 159.50 VP 37.619 GAP -7.50 AZP 94.98 TAL 164.81 TAP 310.64 RCA 101.43 APO 150.77 V2 35.230
RC 49.420 GL 36.41 GP -33.08 ZAL 62.38 ZAP 38.40 ETS 53.31 ZAE 132.90 ETE 296.77 ZAC 69.49 ETC 144.22 CLP -20.74

PLANETOCENTRIC CONIC

C3 22.391 VHL 4.732 DLA 19.46 RAL 309.88 RAD 6567.9 VEL 11.990 PTH 2.14 VHP 6.412 DPA -49.18 RAP 336.07 ECC 1.3685

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 15 19	2897.02	-28.31	88.92	180.46	89.26	5 3 36	2297.0	-28.11	80.26
90.00	21 40 21	4230.07	1.01	173.66	172.74	61.70	22 50 51	3630.1	-2.78	167.03
100.00	5 48 50	2595.48	-29.88	66.74	180.46	90.74	6 32 5	1995.5	-29.46	57.96
100.00	22 49 31	4006.84	2.39	156.48	171.98	60.19	23 56 18	3406.8	-1.60	149.96
110.00	7 23 19	2299.85	-33.90	44.06	180.24	94.65	8 1 39	1699.8	-32.89	34.97
110.00	23 31 31	3875.24	5.81	144.38	169.85	56.25	24 36 6	3275.2	1.34	138.15

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.9353 TRA-1.6108 TC3 .2954 BAU .2079 SGT 2374.8 SGR 1306.6 SG3 372.7 ST 1291.4 SR 749.6 SS 1647.0
RDE .5741 RRA .7264 RC3 -.6285 FAU .03600 RRT -.9292 RRF .9806 RTF -.9495 CRT -.9928 CRS -.9969 CST .9807
FDE 2.3422 FRA 2.3136 FC3-1.3919 BSP 8666 SGB 2710.5 R23 -.1851 R13 .9685 LSA 2214.0 MSA 199.7 SSA 9.3
BDE 1.0974 BRA 1.7670 BC3 .6945 FSP -1101 SG1 2676.5 SG2 428.5 THA 152.15 EL1 1491.1 EL2 77.6 ALF 149.96

LAUNCH DATE OCT 7 1965 FLIGHT TIME 134.00 ARRIVAL DATE FEB 18 1966

HELIOCENTRIC CONIC DISTANCE 348.988

RL	149.50	LAL	.00	LOL	13.52	VL	26.953	GAL	3.45	AZL	83.40	HCA	149.06	SMA	126.52	ECC	.19107	INC	6.5991	VI	29.804
RP	107.58	LAP	3.39	LOP	162.75	VP	37.659	GAP	-6.90	AZP	95.67	TAL	165.08	TAP	314.14	RCA	102.34	APO	150.69	V2	35.224
RC	51.018	GL	39.62	GP	-37.20	ZAL	64.06	ZAP	42.80	ETS	53.05	ZAE	129.08	ETE	296.26	ZAC	72.51	ETC	143.78	CLP	-22.92

PLANETOCENTRIC CONIC

C3	23.512	VHL	4.849	DLA	22.36	RAL	308.33	RAD	6568.0	VEL	12.037	PTH	2.15	VHP	6,337	DPA	-52.50	RAP	340.17	ECC	1.3869

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	3 34 7	3036.67	-27.76	99.09	180.89	84.19	4 24 43	2436.7	-28.28	90.46
90.00	22 9 12	4114.20	-2.73	167.19	173.03	61.80	23 17 46	3514.2	-6.48	160.52
100.00	5 11 43	2721.96	-29.62	76.12	181.07	85.81	5 57 5	2122.0	-29.89	67.33
100.00	23 14 17	3904.14	-1.10	150.85	172.12	60.13	24 19 21	3304.1	-5.06	144.31
110.00	6 53 31	2403.45	-34.18	52.13	181.27	89.88	7 33 35	1803.4	-33.82	42.91
110.00	23 48 58	3795.42	2.78	140.19	169.70	55.92	24 52 13	3195.4	-1.72	133.99

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY				ORBIT DETERMINATION ACCURACY			
TDE-1.0104	TRA-1.5952	TC3	.2926	BAU	.2251	SGT 2379.1	SGR 1521.8	SG3	382.3	ST 1341.4	SR 960.0	SS	1730.1
RDE .7677	RRA .8175	RC3	-.6536	FAU	.03526	RRT -.9369	RRF .9872	RTF	-.9522	CRT -.9900	CRS -.9989	CST	.9824
FDE 2.5657	FRA 2.3217	FC3	-1.2983	BSP	9062	SGB 2824.2	R23 -.1747	R13	.9748	LSA 2382.1	MSA 199.9	SSA	8.1
BDE 1.2690	BRA 1.7925	BC3	.7161	FSP	-1144	SG1 2787.4	SG2 454.2	THA	148.12	EL1 1645.8	EL2 110.2	ALF	144.50

LAUNCH DATE OCT 7 1965 FLIGHT TIME 136.00 ARRIVAL DATE FEB 20 1966

HELIOCENTRIC CONIC DISTANCE 355.633

RL	149.50	LAL	.00	LOL	13.52	VL	27.011	GAL	3.31	AZL	82.69	HCA	152.28	SMA	126.90	ECC	.18693	INC	7.3125	VI	29.804
RP	107.61	LAP	3.39	LOP	165.99	VP	37.694	GAP	-6.32	AZP	96.48	TAL	165.34	TAP	317.62	RCA	103.18	APO	150.62	V2	35.216
RC	52.701	GL	43.00	GP	-41.89	ZAL	65.89	ZAP	47.62	ETS	52.87	ZAE	124.83	ETE	295.53	ZAC	75.83	ETC	143.40	CLP	-25.11

PLANETOCENTRIC CONIC

C3	25.328	VHL	5.033	DLA	25.41	RAL	306.63	RAD	6568.0	VEL	12.112	PTH	2.17	VHP	6.356	DPA	-56.21	RAP	345.31	ECC	1.4168

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	2 39 14	3222.82	-25.77	112.34	181.16	77.85	3 32 57	2622.8	-27.19	103.96
90.00	22 50 30	3964.60	-7.49	158.77	174.34	62.61	23 56 34	3364.6	-11.10	151.96
100.00	4 24 57	2882.03	-28.25	87.81	181.71	79.81	5 12 59	2282.0	-29.37	79.19
100.00	23 47 28	3780.61	-5.26	144.05	173.12	60.53	24 50 29	3180.6	-9.15	137.42
110.00	6 18 26	2526.97	-33.75	61.75	182.61	84.21	7 0 33	1927.0	-34.18	52.53
110.00	0 14 25	3708.44	-.55	135.65	170.20	55.82	1 16 13	3108.4	-5.03	129.44

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY				ORBIT DETERMINATION ACCURACY			
TDE-1.1059	TRA-1.5859	TC3	.2689	BAU	.2403	SGT 2377.7	SGR 1771.9	SG3	382.1	ST 1394.5	SR 1211.3	SS	1798.6
RDE 1.0186	RRA .9246	RC3	-.6568	FAU	.03312	RRT -.9418	RRF .9915	RTF	-.9545	CRT -.9885	CRS -.9996	CST	.9842
FDE 2.7751	FRA 2.2833	FC3	-1.1320	BSP	9437	SGB 2965.3	R23 -.1585	R13	.9807	LSA 2570.4	MSA 200.4	SSA	6.9
BDE 1.5035	BRA 1.8357	BC3	.7097	FSP	-1149	SG1 2925.6	SG2 483.9	THA	143.79	EL1 1841.9	EL2 138.9	ALF	139.07

LAUNCH DATE OCT 7 1965 FLIGHT TIME 138.00 ARRIVAL DATE FEB 22 1966

HELIOCENTRIC CONIC DISTANCE 362.253

RL	149.50	LAL	.00	LOL	13.52	VL	27.064	GAL	3.17	AZL	81.80	HCA	155.49	SMA	127.24	ECC	.18321	INC	8.1967	VI	29.804
RP	107.63	LAP	3.39	LOP	169.24	VP	37.724	GAP	-5.75	AZP	97.47	TAL	165.58	TAP	321.08	RCA	103.93	APO	150.56	V2	35.208
RC	54.462	GL	46.56	GP	-47.18	ZAL	67.90	ZAP	52.82	ETS	52.75	ZAE	120.10	ETE	294.72	ZAC	79.49	ETC	143.20	CLP	-27.23

PLANETOCENTRIC CONIC

C3	28.156	VHL	5.306	DLA	28.59	RAL	304.74	RAD	6568.1	VEL	12.228	PTH	2.20	VHP	6.500	DPA	-60.20	RAP	352.09	ECC	1.4634

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
85.91	0 5 12	3730.42	-17.69	146.62	178.94	67.17	1 7 22	3130.4	-20.63	139.16
94.09	1 13 24	3509.51	-17.67	130.43	178.93	67.16	2 11 53	2909.5	-20.62	122.97
100.00	3 14 43	3119.03	-24.30	104.29	181.57	72.03	4 6 42	2519.0	-26.52	96.20
100.00	0 46 33	3596.14	-11.31	133.69	175.82	62.14	1 46 29	2996.1	-14.95	126.79
110.00	5 35 4	2679.66	-32.09	73.34	183.97	77.54	6 19 44	2079.7	-33.47	64.38
110.00	0 42 42	3608.27	-4.37	130.42	171.63	56.06	1 42 50	3008.3	-8.80	124.13

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY				ORBIT DETERMINATION ACCURACY			
TDE-1.2234	TRA-1.5802	TC3	.2372	BAU	.2548	SGT 2363.1	SGR 2051.0	SG3	368.4	ST 1443.9	SR 1501.5	SS	1838.0
RDE 1.3439	RRA 1.0441	RC3	-.6340	FAU	.02969	RRT -.9452	RRF .9942	RTF	-.9568	CRT -.9878	CRS -.9999	CST	.9860
FDE 2.9379	FRA 2.1786	FC3	-.9129	BSP	9968	SGB 3129.1	R23 -.1371	R13	.9861	LSA 2770.8	MSA 201.2	SSA	5.7
BDE 1.8173	BRA 1.8940	BC3	.6769	FSP	-1123	SG1 3086.8	SG2 512.8	THA	139.28	EL1 2076.8	EL2 162.6	ALF	133.87

LAUNCH DATE OCT 7 1965 FLIGHT TIME 140.00 ARRIVAL DATE FEB 24 1966

HELIOCENTRIC CONIC DISTANCE 368.844

RL	149.50	LAL	.00	LOL	13.52	VL	27.111	GAL	3.06	AZL	80.67	HCA	158.70	SMA	127.56	ECC	.17990	INC	9.3284	VI	29.804
RP	107.66	LAP	3.38	LOP	172.48	VP	37.750	GAP	-5.21	AZP	98.70	TAL	165.80	TAP	324.51	RCA	104.61	APO	150.50	V2	35.200
RC	56.291	GL	50.26	GP	-53.06	ZAL	70.07	ZAP	58.33	ETS	52.72	ZAE	114.84	ETE	294.06	ZAC	83.52	ETC	143.38	CLP	-29.14

PLANETOCENTRIC CONIC

C3	32.562	VHL	5.706	DLA	31.87	RAL	302.62	RAD	6568.3	VEL	12.407	PTH	2.24	VHP	6.824	DPA	-64.19	RAP	1.53	ECC	1.5359

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
74.72	22 27 34	4038.96	-18.50	169.96	180.08	63.57	23 34 53	3439.0	-21.90	162.65
105.28	2 30 10	3273.91	-18.49	113.32	180.07	63.56	3 24 43	2673.9	-21.89	106.02
74.72	22 27 34	4038.96	-18.50	169.96	180.08	63.57	23 34 53	3439.0	-21.90	162.65
105.28	2 30 10	3273.91	-18.49	113.32	180.07	63.56	3 24 43	2673.9	-21.89	106.02
110.00	4 35 4	2886.94	-28.08	88.13	184.58	69.65	5 23 11	2286.9	-30.58	79.83
110.00	1 25 46	3473.93	-9.42	123.30	174.75	56.99	2 23 40	2873.9	-13.71	116.82

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY				ORBIT DETERMINATION ACCURACY			
TDE-1.3820	TRA-1.5887	TC3	.1914	BAU	.2631	SGT 2345.5	SGR 2350.1	SG3	339.4	ST 1497.7	SR 1827.8	SS	1841.5
RDE 1.7724	RRA 1.1744	RC3	-.5734	FAU	.02459	RRT -.9471	RRF .9959	RTF	-.9592	CRT -.9879	CRS-1.0000	CST	.9879
FDE 3.0290	FRA 2.0053	FC3	-.6537	BSP	10564	SGB 3320.3	R23 -.1124	R13	.9908	LSA 2989.0	MSA 202.0	SSA	4.7
BDE 2.2475	BRA 1.9756	BC3	.6045	FSP	-1049	SG1 3276.1	SG2 540.2	THA	134.94	EL1 2356.1	EL2 180.5	ALF	129.26

LAUNCH DATE OCT 7 1965 FLIGHT TIME 142.00 ARRIVAL DATE FEB 26 1966

HELIOCENTRIC CONIC DISTANCE 375.402

RL 149.50 LAL .00 LOL 13.52 VL 27.152 GAL 2.96 AZL 79.16 HCA 161.90 SMA 127.83 ECC .17698 INC10.8386 V1 29.804
RP 107.69 LAP 3.35 LOP 175.72 VP 37.771 GAP -4.68 AZP 100.31 TAL 166.00 TAP 327.90 RCA 105.21 APO 150.46 V2 35.191
RC 58.184 GL 54.08 GP -59.46 ZAL 72.44 ZAP 64.03 ETS 53.00 ZAE 109.03 ETE 293.96 ZAC 87.95 ETC 144.34 CLP -30.47

PLANETOCENTRIC CONIC

C3 39.645 VHL 6.296 DLA 35.20 RAL 300.20 RAD 6568.5 VEL 12.689 PTH 2.31 VHP 7.412 DPA -67.66 RAP 15.04 ECC 1.6525

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
68.16	21 36 57	4214.51	-18.58	183.59	181.76	59.55	22 47 12	3614.5	-22.48	176.55
111.84	3 1 27	3197.75	-18.56	107.47	181.75	59.54	3 54 45	2597.7	-22.47	100.43
68.16	21 36 57	4214.51	-18.58	183.59	181.76	59.55	22 47 12	3614.5	-22.48	176.55
111.84	3 1 27	3197.75	-18.56	107.47	181.75	59.54	3 54 45	2597.7	-22.47	100.43
68.16	21 36 57	4214.51	-18.58	183.59	181.76	59.55	22 47 12	3614.5	-22.48	176.55
111.84	3 1 27	3197.75	-18.56	107.47	181.75	59.54	3 54 45	2597.7	-22.47	100.43

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TOE-1.6107 TRA-1.6229 TC3 .1426 BAU .2620 SGT 2333.8 SGR 2643.7 SG3 294.9 ST 1562.8 SR 2171.4 SS 1798.2
RDE 2.3377 RRA 1.3040 RC3 -.4733 FAU .01823 RRT -.9481 RRF .9966 RTF -.9623 CRT -.9884 CRS-1.0000 CST .9838
FDE 3.0168 FRA 1.7645 FC3 -.3981 BSP 11347 SGB 3526.4 R23 -.0857 R13 .9944 LSA 3217.1 MSA 203.0 SSA 3.7
BDE 2.8388 BRA 2.0819 BC3 .4943 FSP -935 SG1 3481.1 SG2 563.8 THA 131.24 EL1 2668.4 EL2 193.0 ALF 125.64

LAUNCH DATE OCT 7 1965 FLIGHT TIME 144.00 ARRIVAL DATE FEB 28 1966

HELIOCENTRIC CONIC DISTANCE 381.918

RL 149.50 LAL .00 LOL 13.52 VL 27.189 GAL 2.88 AZL 77.03 HCA 165.08 SMA 128.08 ECC .17442 INC12.9677 V1 29.804
RP 107.72 LAP 3.31 LOP 178.96 VP 37.789 GAP -4.17 AZP 102.54 TAL 166.15 TAP 331.22 RCA 105.74 APO 150.42 V2 35.181
RC 60.133 GL 57.90 GP -66.30 ZAL 74.99 ZAP 69.70 ETS 54.43 ZAE 102.65 ETE 295.36 ZAC 92.82 ETC 147.05 CLP -30.36

PLANETOCENTRIC CONIC

C3 51.745 VHL 7.193 DLA 38.45 RAL 297.39 RAD 6568.9 VEL 13.157 PTH 2.40 VHP 8.421 DPA -69.65 RAP 33.57 ECC 1.8516

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
62.83	20 57 35	4364.49	-17.55	195.01	183.94	55.22	22 10 20	3764.5	-21.98	188.35
117.17	3 18 25	3181.49	-17.53	105.46	183.93	55.22	4 11 27	2581.5	-21.96	98.80
62.83	20 57 35	4364.49	-17.55	195.01	183.94	55.22	22 10 20	3764.5	-21.98	188.35
117.17	3 18 25	3181.49	-17.53	105.46	183.93	55.22	4 11 27	2581.5	-21.96	98.80
62.83	20 57 35	4364.49	-17.55	195.01	183.94	55.22	22 10 20	3764.5	-21.98	188.35
117.17	3 18 25	3181.49	-17.53	105.46	183.93	55.22	4 11 27	2581.5	-21.96	98.80

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TOE-2.0047 TRA-1.7161 TC3 .0970 BAU .2423 SGT 2369.7 SGR 2877.8 SG3 238.7 ST 1680.4 SR 2489.0 SS 1708.0
RDE 3.0783 RRA 1.4028 RC3 -.3366 FAU .01116 RRT -.9492 RRF .9962 RTF -.9677 CRT -.9896 CRS -.9998 CST .9923
FDE 2.8926 FRA 1.4750 FC3 -.1867 BSP 12482 SGB 3727.9 R23 -.0577 R13 .9970 LSA 3448.9 MSA 203.8 SSA 2.9
BDE 3.6735 BRA 2.2165 BC3 .3703 FSP -798 SG1 3682.0 SG2 583.0 THA 129.18 EL1 2996.5 EL2 200.4 ALF 123.92

LAUNCH DATE OCT 7 1965 FLIGHT TIME 146.00 ARRIVAL DATE MAR 2 1966

HELIOCENTRIC CONIC DISTANCE 388.384

RL 149.50 LAL .00 LOL 13.52 VL 27.221 GAL 2.82 AZL 73.79 HCA 168.22 SMA 128.30 ECC .17224 INC16.2079 V1 29.804
RP 107.75 LAP 3.27 LOP 182.20 VP 37.802 GAP -3.68 AZP 105.88 TAL 166.23 TAP 334.45 RCA 106.20 APO 150.40 V2 35.171
RC 62.133 GL 61.48 GP -73.39 ZAL 77.72 ZAP 75.12 ETS 60.35 ZAE 95.65 ETE 301.70 ZAC 98.28 ETC 154.99 CLP -26.05

PLANETOCENTRIC CONIC

C3 74.597 VHL 8.637 DLA 41.34 RAL 294.11 RAD 6569.5 VEL 13.998 PTH 2.55 VHP 10.162 DPA -69.00 RAP 54.96 ECC 2.2277

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
58.52	20 24 38	4508.99	-14.95	205.19	186.46	50.99	21 39 47	3909.0	-19.88	199.00
121.48	3 25 11	3213.72	-14.93	106.15	186.45	50.99	4 18 45	2613.7	-19.87	99.97
58.52	20 24 38	4508.99	-14.95	205.19	186.46	50.99	21 39 47	3909.0	-19.88	199.00
121.48	3 25 11	3213.72	-14.93	106.15	186.45	50.99	4 18 45	2613.7	-19.87	99.97
58.52	20 24 38	4508.99	-14.95	205.19	186.46	50.99	21 39 47	3909.0	-19.88	199.00
121.48	3 25 11	3213.72	-14.93	106.15	186.45	50.99	4 18 45	2613.7	-19.87	99.97

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TOE-3.0434 TRA-2.0684 TC3 .0075 BAU .1494 SGT 2723.3 SGR 2923.1 SG3 182.3 ST 2092.0 SR 2662.3 SS 1616.1
RDE 3.9741 RRA 1.3988 RC3 -.1496 FAU .00172 RRT -.9528 RRF .9924 RTF -.9805 CRT -.9921 CRS -.9993 CST .9961
FDE 2.7312 FRA 1.2239 FC3 -.0200 BSP 11885 SGB 3995.1 R23 -.0277 R13 .9987 LSA 3746.1 MSA 206.8 SSA 2.3
BDE 5.0056 BRA 2.4970 BC3 .1498 FSP -560 SG1 3947.9 SG2 612.2 THA 132.87 EL1 3379.6 EL2 206.2 ALF 128.11

LAUNCH DATE OCT 7 1965 FLIGHT TIME 148.00 ARRIVAL DATE MAR 4 1966

HELIOCENTRIC CONIC DISTANCE 394.750

RL 149.50 LAL .00 LOL 13.52 VL 27.249 GAL 2.78 AZL 68.27 HCA 171.30 SMA 128.49 ECC .17043 INC21.7294 V1 29.804
RP 107.78 LAP 3.21 LOP 185.44 VP 37.813 GAP -3.22 AZP 111.50 TAL 166.23 TAP 337.53 RCA 106.59 APO 150.38 V2 35.160
RC 64.180 GL 64.20 GP -79.96 ZAL 80.63 ZAP 80.01 ETS 91.02 ZAE 87.65 ETE 333.14 ZAC 104.77 ETC 188.52 CLP -5.58

PLANETOCENTRIC CONIC

C3 125.255 VHL 11.192 DLA 43.24 RAL 290.29 RAD 6570.3 VEL 15.703 PTH 2.79 VHP 13.361 DPA -64.93 RAP 73.93 ECC 3.0614

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
55.85	19 58 13	4651.21	-10.47	213.73	188.97	47.80	21 15 44	4051.2	-15.77	208.00
124.15	3 21 7	3294.99	-10.45	109.34	188.96	47.80	4 16 2	2695.0	-15.76	103.61
55.85	19 58 13	4651.21	-10.47	213.73	188.97	47.80	21 15 44	4051.2	-15.77	208.00
124.15	3 21 7	3294.99	-10.45	109.34	188.96	47.80	4 16 2	2695.0	-15.76	103.61
55.85	19 58 13	4651.21	-10.47	213.73	188.97	47.80	21 15 44	4051.2	-15.77	208.00
124.15	3 21 7	3294.99	-10.45	109.34	188.96	47.80	4 16 2	2695.0	-15.76	103.61

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TOE-6.8797 TRA-2.8757 TC3 -.0713 BAU .1285 SGT 4063.8 SGR 881.6 SG3 128.0 ST 3573.9 SR 878.9 SS 1524.3
RDE 1.7166 RRA .0408 RC3 -.0282 FAU-.00660 RRT -.8774 RRF .8876 RTF -.9991 CRT -.9871 CRS -.9889 CST .9999
FDE 2.5467 FRA .9912 FC3 .0456 BSP 12728 SGB 4158.3 R23 -.0036 R13 .9994 LSA 3981.2 MSA 136.7 SSA 1.8
BDE 7.0907 BRA 2.8760 BC3 .0767 FSP -410 SG1 4137.5 SG2 415.4 THA 169.11 EL1 3677.8 EL2 136.7 ALF 166.34

LAUNCH DATE OCT 7 1965 FLIGHT TIME 150.00 ARRIVAL DATE MAR 6 1966

HELIOCENTRIC CONIC DISTANCE 400.907

RL	149.50	LAL	.00	LOL	13.52	VL	27.273	GAL	2.80	AZL	57.03	HCA	174.22	SMA	128.65	ECC	.16909	INC	32.9693	VI	29.804
RP	107.81	LAP	3.14	LOP	188.67	VP	37.820	GAP	-2.82	AZP	122.84	TAL	166.02	TAP	340.24	RCA	106.90	APO	150.40	V2	35.149
RC	66.268	GL	64.15	GP	-79.66	ZAL	83.63	ZAP	84.11	ETS	164.69	ZAE	77.33	ETE	47.51	ZAC	113.80	ETC	266.12	CLP	55.11

PLANETOCENTRIC CONIC

C3	271.350	VHL	16.473	DLA	42.29	RAL	286.21	RAD	6571.6	VEL	19.816	PTH	3.13	VHP	20.091	DPA	-56.47	RAP	87.64	ECC	5.4657		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
57.18	19 47 25	4761.64	-4.61	218.15	191.15	47.92	21 6 47	4161.6	-9.93	212.55
122.82	2 59 24	3434.96	-4.59	116.37	191.13	47.92	3 56 39	2835.0	-9.92	110.77
57.18	19 47 25	4761.64	-4.61	218.15	191.15	47.92	21 6 47	4161.6	-9.93	212.55
122.82	2 59 24	3434.96	-4.59	116.37	191.13	47.92	3 56 39	2835.0	-9.92	110.77
57.18	19 47 25	4761.64	-4.61	218.15	191.15	47.92	21 6 47	4161.6	-9.93	212.55
122.82	2 59 24	3434.96	-4.59	116.37	191.13	47.92	3 56 39	2835.0	-9.92	110.77

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-4.8173	TRA	-.7827	TC3	-.1056	BAU	.7785	SGT	1750.5	SGR	3865.8	SG3	88.2	ST	1679.2	SR	3442.7	SS	1583.7				
RDE	-9.7850	RRA	-3.6730	RC3	-.1868	FAU	-.01926	RRT	.9683	RRF	-.9989	RTF	-.9747	CRT	.9964	CRS	1.0000	CST	.9971				
FDE	2.5963	FRA	.9189	FC3	.0615	BSP	13052	SGB	4243.7	R23	-.0122	R13	-.9993	LSA	4142.9	MSA	129.1	SSA	1.8				
BDE	10.9066	BRA	3.7555	BC3	.2146	FSP	-286	SG1	4224.8	SG2	400.1	THA	66.10	EL1	3828.3	EL2	128.6	ALF	64.05				

LAUNCH DATE OCT 7 1965 FLIGHT TIME 152.00 ARRIVAL DATE MAR 8 1966

HELIOCENTRIC CONIC DISTANCE 406.351

RL	149.50	LAL	.00	LOL	13.52	VL	27.293	GAL	2.95	AZL	27.88	HCA	176.53	SMA	128.79	ECC	.16868	INC	62.1152	VI	29.804
RP	107.85	LAP	3.06	LOP	191.90	VP	37.824	GAP	-2.61	AZP	152.07	TAL	165.18	TAP	341.72	RCA	107.06	APO	150.51	V2	35.138
RC	68.394	GL	54.54	GP	-63.09	ZAL	86.31	ZAP	87.00	ETS	180.89	ZAE	59.72	ETE	62.09	ZAC	130.64	ETC	289.41	CLP	83.36

PLANETOCENTRIC CONIC

C3	874.838	VHL	29.578	DLA	32.02	RAL	283.46	RAD	6572.9	VEL	31.561	PTH	3.47	VHP	36.918	DPA	-38.65	RAP	96.78	ECC	15.3976		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
74.38	21 8 48	4588.26	-.02	200.77	193.45	57.98	22 25 17	3988.3	-4.25	194.39
105.62	1 16 3	3808.65	-.00	143.02	193.43	57.98	2 19 32	3208.7	-4.24	136.64
74.38	21 8 48	4588.26	-.02	200.77	193.45	57.98	22 25 17	3988.3	-4.25	194.39
105.62	1 16 3	3808.65	-.00	143.02	193.43	57.98	2 19 32	3208.7	-4.24	136.64
110.00	3 15 29	3439.04	-10.71	121.42	200.23	57.34	4 12 48	2839.0	-14.94	114.87
110.00	0 12 29	4005.87	10.69	151.35	186.65	57.34	1 19 15	3405.9	6.30	145.00

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-5.5185	TRA	.5454	TC3	-.0999	BAU	3.3612	SGT	1227.7	SGR	3783.6	SG3	67.8	ST	1069.8	SR	3147.4	SS	2051.6				
RD	-16.0935	RRA	-6.2756	RC3	-.2695	FAU	-.05913	RRT	.8817	RRF	-.9997	RTF	-.8794	CRT	.9852	CRS	1.0000	CST	.9845				
FDE	3.2868	FRA	1.3204	FC3	.0585	BSP	12412	SGB	3977.8	R23	-.0456	R13	-.9987	LSA	3902.3	MSA	177.7	SSA	1.7				
BDE	17.0133	BRA	6.2993	BC3	.2674	FSP	-221	SG1	3938.7	SG2	556.5	THA	73.70	EL1	3319.7	EL2	173.7	ALF	71.43				

LAUNCH DATE OCT 7 1965 FLIGHT TIME 154.00 ARRIVAL DATE MAR 10 1966

HELIOCENTRIC CONIC DISTANCE 416.958

RL	149.50	LAL	.00	LOL	13.52	VL	27.310	GAL	2.17	AZL	151.69	HCA	183.38	SMA	128.90	ECC	.16412	INC	61.6932	VI	29.804
RP	107.89	LAP	2.98	LOP	195.13	VP	37.825	GAP	-1.09	AZP	28.35	TAL	168.85	TAP	352.23	RCA	107.75	APO	150.06	V2	35.126
RC	70.553	GL	-54.83	GP	61.75	ZAL	87.02	ZAP	88.60	ETS	189.36	ZAE	71.41	ETE	302.10	ZAC	102.87	ETC	80.13	CLP	87.05

PLANETOCENTRIC CONIC

C3	863.885	VHL	29.392	DLA	-75.25	RAL	316.51	RAD	6572.9	VEL	31.387	PTH	3.47	VHP	38.346	DPA	85.65	RAP	129.64	ECC	15.2174		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
16.81	7 57 45	2444.36	.06	81.07	226.48	165.25	8 38 29	1844.4	7.80	79.44
163.19	18 50 48	663.22	.07	284.83	226.50	165.25	19 1 51	63.2	7.80	283.19
16.81	7 57 45	2444.36	.06	81.07	226.48	165.25	8 38 29	1844.4	7.80	79.44
163.19	18 50 48	663.22	.07	284.83	226.50	165.25	19 1 51	63.2	7.80	283.19
16.81	7 57 45	2444.36	.06	81.07	226.48	165.25	8 38 29	1844.4	7.80	79.44
163.19	18 50 48	663.22	.07	284.83	226.50	165.25	19 1 51	63.2	7.80	283.19

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	6.7925	TRA	-1.4579	TC3	-.1439	BAU	3.4227	SGT	1927.3	SGR	3545.4	SG3	70.3	ST	1366.0	SR	1611.2	SS	1342.6				
RDE	-6.9523	RRA	3.7891	RC3	.2591	FAU	-.05745	RRT	-.9249	RRF	.9982	RTF	-.9447	CRT	-.9482	CRS	-.9976	CST	.9681				
FDE	-1.8229	FRA	.8470	FC3	.0576	BSP	12220	SGB	4035.4	R23	-.0287	R13	.9994	LSA	2479.3	MSA	342.8	SSA	1.6				
BDE	9.7197	BRA	4.0599	BC3	.2964	FSP	-218	SG1	3982.3	SG2	652.2	THA	117.49	EL1	2085.6	EL2	335.2	ALF	130.04				

LAUNCH DATE OCT 7 1965 FLIGHT TIME 156.00 ARRIVAL DATE MAR 12 1966

HELIOCENTRIC CONIC DISTANCE 422.286

RL	149.50	LAL	.00	LOL	13.52	VL	27.324	GAL	2.36	AZL	120.86	HCA	185.62	SMA	128.99	ECC	.16411	INC	30.8602	VI	29.804
RP	107.92	LAP	2.88	LOP	198.35	VP	37.823	GAP	-.92	AZP	59.26	TAL	167.82	TAP	353.45	RCA	107.82	APO	150.16	V2	35.114
RC	72.741	GL	-64.87	GP	80.69	ZAL	83.98	ZAP	87.70	ETS	215.62	ZAE	89.16	ETE	324.85	ZAC	84.98	ETC	103.12	CLP	75.62

PLANETOCENTRIC CONIC

C3	239.248	VHL	15.468	DLA	-78.53	RAL	4.51	RAD	6571.4	VEL	18.988	PTH	3.08	VHP	20.611	DPA	74.83	RAP	280.08	ECC	4.9374		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
13.06	11 1 45	2334.31	7.82	81.83	272.90	168.42	11 40 39	1734.3	15.66	80.58
166.94	22 9 46	5828.71	7.83	259.78	272.92	168.42	23 46 54	5228.7	15.66	258.54
13.06	11 1 45	2334.31	7.82	81.83	272.90	168.42	11 40 39	1734.3	15.66	80.58
166.94	22 9 46	5828.71	7.83	259.78	272.92	168.42	23 46 54	5228.7	15.66	258.54
13.06	11 1 45	2334.31	7.82	81.83	272.90	168.42	11 40 39	1734.3	15.66	80.58
166.94	22 9 46	5828.71	7.83	259.78	272.92	168.42	23 46 54	5228.7	15.66	258.54

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-1.3829	TRA	-1.8071	TC3	-.1586	BAU	.6927	SGT	3439.7	SGR	2992.2	SG3	93.6	ST	1132.3	SR	1443.4	SS	781.2				
RDE	3.2218	RRA	1.4527	RC3	.1474	FAU	-.01240	RRT	-.9660	RRF	.9925	RTF	-.9898	CRT	-.8757	CRS	-.9833	CST	.9483				
FDE	.8416	FRA	.5523	FC3	.0449	BSP	14313	SGB	4559.0	R23	-.0288	R13	.9994	LSA	1944.0	MSA	443.4	SSA	1.2				
BDE	3.5060	BRA	2.3186	BC3	.2166	FSP	-301	SG1	4520.8	SG2	588.9	THA	139.12	EL1	1780.1	EL2	443.4	ALF	127.18				

LAUNCH DATE OCT 7 1965 FLIGHT TIME 158.00 ARRIVAL DATE MAR 14 1966

HELIOCENTRIC CONIC DISTANCE 428.335

RL 149.50 LAL .00 LOL 13.52 VL 27.334 GAL 2.43 AZL 109.09 HCA 188.51 SMA 129.06 ECC .16380 INC19.0860 V1 29.804
RP 107.96 LAP 2.77 LOP 201.57 VP 37.819 GAP -.57 AZP 71.11 TAL 167.42 TAP 355.94 RCA 107.92 APO 150.20 V2 35.101
RC 74.954 GL -64.17 GP 87.25 ZAL 80.38 ZAP 87.44 ETS 299.22 ZAE 98.45 ETE 46.47 ZAC 76.00 ETC 182.38 CLP -21.85

PLANETOCENTRIC CONIC

C3 98.425 VHL 9.921 DLA -75.00 RAL 7.77 RAD 6569.9 VEL 14.825 PTH 2.68 VHP 13.473 DPA 65.04 RAP 284.47 ECC 2.6198

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
17.10	11 22 49	2169.55	18.07	77.07	272.74	164.20	11 58 58	1569.5	25.76	75.08
162.90	22 14 42	5677.54	18.08	259.02	272.77	164.20	23 49 20	5077.5	25.76	257.03
17.10	11 22 49	2169.55	18.07	77.07	272.74	164.20	11 58 58	1569.5	25.76	75.08
162.90	22 14 42	5677.54	18.08	259.02	272.77	164.20	23 49 20	5077.5	25.76	257.03
17.10	11 22 49	2169.55	18.07	77.07	272.74	164.20	11 58 58	1569.5	25.76	75.08
162.90	22 14 42	5677.54	18.08	259.02	272.77	164.20	23 49 20	5077.5	25.76	257.03

DIFFERENTIAL CORRECTIONS
TDE-2.4675 TRA-1.3297 TC3 -.0292 BAU .0791
RDE-1.3091 RRA-1.4773 RC3 .0526 FAU .00330
FDE .9725 FRA .6679 FC3 -.0291 BSP 14700
BDE 2.7932 BRA 1.9876 BC3 .0601 FSP -440

MID-COURSE EXECUTION ACCURACY
SGT 3291.3 SGR 3382.5 SG3 137.7
RRT .9742 RRF -.9909 RTF -.9947
SGB 4719.5 R23 .0201 R13 -.9992
SG1 4689.0 SG2 535.6 THA 45.80

ORBIT DETERMINATION ACCURACY
ST 1680.1 SR 1244.5 SS 835.6
CRT .9360 CRS .9700 CST .9935
LSA 2223.0 MSA 357.4 SSA 1.8
EL1 2060.0 EL2 357.3 ALF 35.99

LAUNCH DATE OCT 7 1965 FLIGHT TIME 160.00 ARRIVAL DATE MAR 16 1966

HELIOCENTRIC CONIC DISTANCE 434.559

RL 149.50 LAL .00 LOL 13.52 VL 27.341 GAL 2.48 AZL 103.37 HCA 191.58 SMA 129.12 ECC .16356 INC13.3738 V1 29.804
RP 108.00 LAP 2.66 LOP 204.79 VP 37.813 GAP -.18 AZP 76.89 TAL 167.15 TAP 358.73 RCA 108.00 APO 150.23 V2 35.089
RC 77.191 GL -60.08 GP 81.74 ZAL 76.67 ZAP 88.02 ETS 335.42 ZAE 104.73 ETE 81.18 ZAC 69.84 ETC 214.15 CLP -76.10

PLANETOCENTRIC CONIC

C3 53.145 VHL 7.290 DLA -70.88 RAL 359.94 RAD 6568.9 VEL 13.210 PTH 2.41 VHP 10.030 DPA 58.22 RAP 286.15 ECC 1.8746

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
21.84	11 1 23	2014.99	26.83	70.17	259.83	158.47	11 34 58	1415.0	34.23	67.05
158.16	21 33 37	5544.22	26.84	256.96	259.85	158.46	23 6 2	4944.2	34.23	253.83
21.84	11 1 23	2014.99	26.83	70.17	259.83	158.47	11 34 58	1415.0	34.23	67.05
158.16	21 33 37	5544.22	26.84	256.96	259.85	158.46	23 6 2	4944.2	34.23	253.83
21.84	11 1 23	2014.99	26.83	70.17	259.83	158.47	11 34 58	1415.0	34.23	67.05
158.16	21 33 37	5544.22	26.84	256.96	259.85	158.46	23 6 2	4944.2	34.23	253.83

DIFFERENTIAL CORRECTIONS
TDE -.8769 TRA -.2014 TC3 -.0542 BAU .2778
RDE-1.1821 RRA-1.9078 RC3 .3872 FAU .01447
FDE .7342 FRA .9164 FC3 -.2358 BSP 14881
BDE 1.4719 BRA 1.9184 BC3 .3910 FSP -636

MID-COURSE EXECUTION ACCURACY
SGT 845.5 SGR 4705.1 SG3 198.7
RRT .7059 RRF -.9980 RTF -.7373
SGB 4780.5 R23 .0302 R13 -.9986
SG1 4743.5 SG2 594.0 THA 82.65

ORBIT DETERMINATION ACCURACY
ST 704.3 SR 1658.2 SS 759.6
CRT .7188 CRS .9923 CST .7991
LSA 1898.5 MSA 467.3 SSA 2.5
EL1 1740.1 EL2 466.6 ALF 71.66

LAUNCH DATE OCT 7 1965 FLIGHT TIME 162.00 ARRIVAL DATE MAR 18 1966

HELIOCENTRIC CONIC DISTANCE 440.833

RL 149.50 LAL .00 LOL 13.52 VL 27.346 GAL 2.52 AZL 100.05 HCA 194.70 SMA 129.15 ECC .16349 INC10.0481 V1 29.804
RP 108.04 LAP 2.54 LOP 208.01 VP 37.804 GAP .22 AZP 80.27 TAL 166.89 TAP 1.60 RCA 108.03 APO 150.26 V2 35.076
RC 79.446 GL -54.80 GP 76.34 ZAL 73.03 ZAP 89.41 ETS 348.80 ZAE 109.63 ETE 93.59 ZAC 64.77 ETC 223.24 CLP -87.50

PLANETOCENTRIC CONIC

C3 34.027 VHL 5.833 DLA -66.18 RAL 352.08 RAD 6568.3 VEL 12.466 PTH 2.25 VHP 8.075 DPA 52.62 RAP 286.79 ECC 1.5600

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
27.31	10 42 0	1886.79	32.67	61.36	245.62	151.33	11 13 27	1286.8	39.60	56.81
152.69	20 50 19	5448.26	32.68	254.00	245.64	151.32	22 21 7	4848.3	39.60	249.45
27.31	10 42 0	1886.79	32.67	61.36	245.62	151.33	11 13 27	1286.8	39.60	56.81
152.69	20 50 19	5448.26	32.68	254.00	245.64	151.32	22 21 7	4848.3	39.60	249.45
27.31	10 42 0	1886.79	32.67	61.36	245.62	151.33	11 13 27	1286.8	39.60	56.81
152.69	20 50 19	5448.26	32.68	254.00	245.64	151.32	22 21 7	4848.3	39.60	249.45

DIFFERENTIAL CORRECTIONS
TDE -.5080 TRA .2050 TC3 -.2400 BAU .3854
RDE -.5680 RRA-1.8924 RC3 .8125 FAU .02525
FDE .5090 FRA 1.2401 FC3 -.6424 BSP 15068
BDE .7620 BRA 1.9035 BC3 .8472 FSP -883

MID-COURSE EXECUTION ACCURACY
SGT 758.8 SGR 4731.9 SG3 271.9
RRT -.6353 RRF -.9983 RTF .6128
SGB 4792.4 R23 .0404 R13 -.9979
SG1 4756.8 SG2 583.0 THA 95.91

ORBIT DETERMINATION ACCURACY
ST 521.0 SR 1489.4 SS 721.4
CRT .0924 CRS .9927 CST .2116
LSA 1654.3 MSA 523.0 SSA 3.2
EL1 1490.3 EL2 518.4 ALF 87.89

LAUNCH DATE OCT 7 1965 FLIGHT TIME 164.00 ARRIVAL DATE MAR 20 1966

HELIOCENTRIC CONIC DISTANCE 447.121

RL 149.50 LAL .00 LOL 13.52 VL 27.349 GAL 2.58 AZL 97.87 HCA 197.86 SMA 129.17 ECC .16359 INC 7.8740 V1 29.804
RP 108.08 LAP 2.41 LOP 211.22 VP 37.794 GAP .63 AZP 82.50 TAL 166.62 TAP 4.48 RCA 108.03 APO 150.30 V2 35.063
RC 81.719 GL -49.15 GP 71.48 ZAL 69.56 ZAP 91.51 ETS 357.21 ZAE 113.67 ETE 101.62 ZAC 60.20 ETC 227.56 CLP -94.77

PLANETOCENTRIC CONIC

C3 24.486 VHL 4.948 DLA -61.09 RAL 345.93 RAD 6568.0 VEL 12.077 PTH 2.16 VHP 6.847 DPA 47.63 RAP 286.86 ECC 1.4030

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
33.31	10 31 38	1781.48	35.66	51.36	232.58	143.49	11 1 19	1181.5	41.93	45.39
146.69	20 11 39	5389.27	35.67	250.90	232.59	143.49	21 41 28	4789.3	41.94	244.93
33.31	10 31 38	1781.48	35.66	51.36	232.58	143.49	11 1 19	1181.5	41.93	45.39
146.69	20 11 39	5389.27	35.67	250.90	232.59	143.49	21 41 28	4789.3	41.94	244.93
33.31	10 31 38	1781.48	35.66	51.36	232.58	143.49	11 1 19	1181.5	41.93	45.39
146.69	20 11 39	5389.27	35.67	250.90	232.59	143.49	21 41 28	4789.3	41.94	244.93

DIFFERENTIAL CORRECTIONS
TDE -.3849 TRA .4682 TC3 -.5452 BAU .4405
RDE -.2639 RRA-1.8550 RC3 1.2302 FAU .03568
FDE .3756 FRA 1.6198 FC3-1.2616 BSP 15015
BDE .4667 BRA 1.9132 BC3 1.3456 FSP -1148

MID-COURSE EXECUTION ACCURACY
SGT 1321.9 SGR 4617.2 SG3 354.2
RRT -.9017 RRF -.9982 RTF .8916
SGB 4802.7 R23 .0501 R13 -.9972
SG1 4770.7 SG2 553.0 THA 104.68

ORBIT DETERMINATION ACCURACY
ST 558.6 SR 1368.0 SS 735.4
CRT -.4094 CRS .9913 CST -.2857
LSA 1567.2 MSA 517.8 SSA 4.0
EL1 1390.0 EL2 501.6 ALF 100.93

LAUNCH DATE OCT 7 1965 FLIGHT TIME 166.00 ARRIVAL DATE MAR 22 1966

HELIOCENTRIC CONIC DISTANCE 453.404

RL	149.50	LAL	.00	LOL	13.52	VL	27.349	GAL	2.64	AZL	96.34	HCA	201.03	SMA	129.17	ECC	.16389	INC	6.3375	VI	29.804
RP	108.12	LAP	2.27	LOP	214.43	VP	37.782	GAP	1.03	AZP	84.08	TAL	166.31	TAP	7.34	RCA	108.00	APO	150.33	V2	35.050
RC	84.008	GL	-43.50	GP	66.95	ZAL	66.34	ZAP	94.23	ETS	3.65	ZAE	117.05	ETE	108.31	ZAC	55.89	ETC	230.14	CLP	-100.86

PLANETOCENTRIC CONIC

C3	19.195	VHL	4.381	DLA	-55.89	RAL	341.38	RAD	6567.8	VEL	11.856	PTH	2.10	VHP	6.027	DPA	43.00	RAP	286.59	ECC	1.3159

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
39.57	10 29 47	1691.31	36.37	41.05	221.43	135.85	10 57 59	1091.3	41.89	33.99
140.43	19 37 9	5362.00	36.39	248.52	221.45	135.84	21 6 31	4762.0	41.90	241.45
39.57	10 29 47	1691.31	36.37	41.05	221.43	135.85	10 57 59	1091.3	41.89	33.99
140.43	19 37 9	5362.00	36.39	248.52	221.45	135.84	21 6 31	4762.0	41.90	241.45
39.57	10 29 47	1691.31	36.37	41.05	221.43	135.85	10 57 59	1091.3	41.89	33.99
140.43	19 37 9	5362.00	36.39	248.52	221.45	135.84	21 6 31	4762.0	41.90	241.45

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-.3143	TRA	.6899	TC3	-.9438	BAU	.4758	SGT	1855.0	SGR	4426.1	SG3	438.4	ST	634.4	SR	1272.9	SS	772.0
RDE	-.1423	RRA	-1.7991	RC3	1.5961	FAU	.04589	RRT	-.9536	RRF	-.9980	RTF	.9468	CRT	-.6588	CRS	.9884	CST	-.5370
FDE	.3341	FRA	2.0235	FC3	-2.0698	BSP	15021	SGB	4799.1	R23	.0601	R13	-.9963	LSA	1543.7	MSA	485.7	SSA	4.8
BDE	.3450	BRA	1.9269	BC3	1.8543	FSP	-1430	SG1	4771.1	SG2	518.2	THA	112.06	EL1	1349.1	EL2	450.3	ALF	110.57

LAUNCH DATE OCT 7 1965 FLIGHT TIME 168.00 ARRIVAL DATE MAR 24 1966

HELIOCENTRIC CONIC DISTANCE 459.676

RL	149.50	LAL	.00	LOL	13.52	VL	27.347	GAL	2.71	AZL	95.19	HCA	204.21	SMA	129.15	ECC	.16437	INC	5.1893	VI	29.804
RP	108.16	LAP	2.13	LOP	217.64	VP	37.768	GAP	1.43	AZP	85.26	TAL	165.97	TAP	10.17	RCA	107.92	APO	150.38	V2	35.036
RC	86.309	GL	-38.06	GP	62.65	ZAL	63.42	ZAP	97.43	ETS	8.93	ZAE	119.88	ETE	114.47	ZAC	51.75	ETC	231.77	CLP	-106.35

PLANETOCENTRIC CONIC

C3	16.060	VHL	4.007	DLA	-50.77	RAL	338.03	RAD	6567.6	VEL	11.724	PTH	2.07	VHP	5.462	DPA	38.61	RAP	286.13	ECC	1.2643

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
45.93	10 35 10	1608.66	35.50	31.01	212.39	129.02	11 1 58	1008.7	40.27	23.28
134.07	19 5 4	5361.86	35.51	247.52	212.41	129.01	20 34 26	4761.9	40.28	239.79
45.93	10 35 10	1608.66	35.50	31.01	212.39	129.02	11 1 58	1008.7	40.27	23.28
134.07	19 5 4	5361.86	35.51	247.52	212.41	129.01	20 34 26	4761.9	40.28	239.79
45.93	10 35 10	1608.66	35.50	31.01	212.39	129.02	11 1 58	1008.7	40.27	23.28
134.07	19 5 4	5361.86	35.51	247.52	212.41	129.01	20 34 26	4761.9	40.28	239.79

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-.2489	TRA	.8934	TC3	-1.4049	BAU	.5017	SGT	2339.4	SGR	4189.9	SG3	519.6	ST	703.4	SR	1184.7	SS	818.0
RDE	-.1115	RRA	-1.7298	RC3	1.8673	FAU	.05535	RRT	-.9718	RRF	-.9977	RTF	.9662	CRT	-.7866	CRS	.9841	CST	-.6644
FDE	.3741	FRA	2.4293	FC3	-2.9836	BSP	15014	SGB	4798.8	R23	.0696	R13	-.9954	LSA	1537.8	MSA	450.2	SSA	5.7
BDE	.2727	BRA	1.9469	BC3	2.3768	FSP	-1704	SG1	4774.3	SG2	484.4	THA	118.81	EL1	1321.6	EL2	389.4	ALF	117.64

LAUNCH DATE OCT 7 1965 FLIGHT TIME 170.00 ARRIVAL DATE MAR 26 1966

HELIOCENTRIC CONIC DISTANCE 465.933

RL	149.50	LAL	.00	LOL	13.52	VL	27.342	GAL	2.80	AZL	94.29	HCA	207.39	SMA	129.12	ECC	.16504	INC	4.2942	VI	29.804
RP	108.20	LAP	1.97	LOP	220.85	VP	37.752	GAP	1.83	AZP	86.19	TAL	165.58	TAP	12.97	RCA	107.81	APO	150.43	V2	35.023
RC	88.623	GL	-32.95	GP	58.52	ZAL	60.80	ZAP	101.00	ETS	13.33	ZAE	122.19	ETE	120.33	ZAC	47.77	ETC	232.70	CLP	-111.43

PLANETOCENTRIC CONIC

C3	14.134	VHL	3.760	DLA	-45.87	RAL	335.57	RAD	6567.6	VEL	11.641	PTH	2.04	VHP	5.067	DPA	34.40	RAP	285.59	ECC	1.2326

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
52.27	10 46 55	1527.22	33.64	21.37	205.35	123.25	11 12 22	927.2	37.74	13.32
127.73	18 33 39	5386.17	33.65	248.25	205.36	123.24	20 3 25	4786.2	37.75	240.20
52.27	10 46 55	1527.22	33.64	21.37	205.35	123.25	11 12 22	927.2	37.74	13.32
127.73	18 33 39	5386.17	33.65	248.25	205.36	123.24	20 3 25	4786.2	37.75	240.20
52.27	10 46 55	1527.22	33.64	21.37	205.35	123.25	11 12 22	927.2	37.74	13.32
127.73	18 33 39	5386.17	33.65	248.25	205.36	123.24	20 3 25	4786.2	37.75	240.20

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-.1743	TRA	1.0865	TC3	-1.8875	BAU	.5228	SGT	2782.0	SGR	3922.4	SG3	592.5	ST	762.4	SR	1099.7	SS	870.5
RDE	-.1207	RRA	-1.6497	RC3	2.0226	FAU	.06351	RRT	-.9802	RRF	-.9972	RTF	.9752	CRT	-.8657	CRS	.9786	CST	-.7443
FDE	.4783	FRA	2.8142	FC3	-3.8902	BSP	15026	SGB	4808.8	R23	.0776	R13	-.9943	LSA	1541.2	MSA	416.1	SSA	6.7
BDE	.2120	BRA	1.9754	BC3	2.7665	FSP	-1953	SG1	4787.6	SG2	451.3	THA	125.17	EL1	1298.6	EL2	323.2	ALF	123.30

LAUNCH DATE OCT 7 1965 FLIGHT TIME 172.00 ARRIVAL DATE MAR 28 1966

HELIOCENTRIC CONIC DISTANCE 472.172

RL	149.50	LAL	.00	LOL	13.52	VL	27.336	GAL	2.90	AZL	93.57	HCA	210.57	SMA	129.08	ECC	.16589	INC	3.5733	VI	29.804
RP	108.24	LAP	1.82	LOP	224.05	VP	37.736	GAP	2.22	AZP	86.92	TAL	165.15	TAP	15.73	RCA	107.67	APO	150.49	V2	35.010
RC	90.946	GL	-28.23	GP	54.56	ZAL	58.49	ZAP	104.80	ETS	17.01	ZAE	123.99	ETE	125.94	ZAC	43.97	ETC	232.98	CLP	-116.14

PLANETOCENTRIC CONIC

C3	12.942	VHL	3.598	DLA	-41.28	RAL	333.75	RAD	6567.5	VEL	11.590	PTH	2.03	VHP	4.794	DPA	30.37	RAP	285.07	ECC	1.2130

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
58.62	11 5 1	1440.31	31.24	11.87	200.03	118.49	11 29 2	840.3	34.77	3.73
121.38	18 1 3	5434.69	31.25	250.90	200.04	118.47	19 31 38	4834.7	34.78	242.75
58.62	11 5 1	1440.31	31.24	11.87	200.03	118.49	11 29 2	840.3	34.77	3.73
121.38	18 1 3	5434.69	31.25	250.90	200.04	118.47	19 31 38	4834.7	34.78	242.75
58.62	11 5 1	1440.31	31.24	11.87	200.03	118.49	11 29 2	840.3	34.77	3.73
121.38	18 1 3	5434.69	31.25	250.90	200.04	118.47	19 31 38	4834.7	34.78	242.75

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-.0892	TRA	1.2708	TC3	-2.3576	BAU	.5428	SGT	3185.9	SGR	3636.1	SG3	653.2	ST	821.9	SR	1019.0	SS	928.5
RDE	-.1414	RRA	-1.5617	RC3	2.0699	FAU	.07013	RRT	-.9847	RRF	-.9966	RTF	.9801	CRT	-.9222	CRS	.9723	CST	-.8067
FDE	.6229	FRA	3.1577	FC3	-4.6912	BSP	15125	SGB	4834.4	R23	.0830	R13	-.9932	LSA	1558.5	MSA	383.3	SSA	7.8
BDE	.1672	BRA	2.0134	BC3	3.1373	FSP	-2171	SG1	4816.2	SG2	419.5	THA	131.17	EL1	1284.7	EL2	252.0	ALF	128.39

LAUNCH DATE OCT 7 1965 FLIGHT TIME 174.00 ARRIVAL DATE MAR 30 1966

DISTANCE 478.392

HELIOCENTRIC CONIC
RL 149.50 LAL .00 LOL 13.52 VL 27.329 GAL 3.01 AZL 92.98 HCA 213.76 SMA 129.03 ECC .16693 INC 2.9769 V1 29.804
RP 108.29 LAP 1.65 LOP 227.24 VP 37.718 GAP 2.61 AZP 87.52 TAL 164.68 TAP 18.44 RCA 107.49 APO 150.57 V2 34.996
RC 93.279 GL -23.91 GP 50.76 ZAL 56.44 ZAP 108.73 ETS 20.07 ZAE 125.32 ETE 131.27 ZAC 40.39 ETC 232.63 CLP-120.51

PLANETOCENTRIC CONIC
C3 12.226 VHL 3.497 DLA -37.02 RAL 332.42 RAD 6567.5 VEL 11.559 PTH 2.02 VHP 4.612 DPA 26.53 RAP 284.61 ECC 1.2012

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
65.08	11 30 32	1340.04	28.59	1.98	196.12	114.59	11 52 52	740.0	31.65	353.85
114.92	17 24 56	5510.64	28.61	255.72	196.13	114.57	18 56 47	4910.6	31.66	247.58
65.08	11 30 32	1340.04	28.59	1.98	196.12	114.59	11 52 52	740.0	31.65	353.85
114.92	17 24 56	5510.64	28.61	255.72	196.13	114.57	18 56 47	4910.6	31.66	247.58
65.08	11 30 32	1340.04	28.59	1.98	196.12	114.59	11 52 52	740.0	31.65	353.85
114.92	17 24 56	5510.64	28.61	255.72	196.13	114.57	18 56 47	4910.6	31.66	247.58

DIFFERENTIAL CORRECTIONS
TDE .0085 TRA 1.4508 TC3-2.7787 BAU .5611
RDE -.1652 RRA-1.4725 RC3 2.0152 FAU .07459
FDE .7980 FRA 3.4532 FC3-5.2820 BSP 15184
BDE .1654 BRA 2.0671 BC3 3.4325 FSP -2326

MID-COURSE EXECUTION ACCURACY
SGT 3555.6 SGR 3345.5 SG3 699.7
RRT -.9870 RRF -.9958 RTF .9828
SGB 4882.1 R23 .0853 R13 -.9921
SG1 4866.3 SG2 392.6 THA 136.77

ORBIT DETERMINATION ACCURACY
ST 895.3 SR 947.1 SS 995.7
CRT -.9625 CRS .9661 CST -.8601
LSA 1601.8 MSA 352.5 SSA 9.1
EL1 1291.1 EL2 178.3 ALF 133.32

LAUNCH DATE OCT 7 1965 FLIGHT TIME 176.00 ARRIVAL DATE APR 1 1966

DISTANCE 484.590

HELIOCENTRIC CONIC
RL 149.50 LAL .00 LOL 13.52 VL 27.319 GAL 3.13 AZL 92.47 HCA 216.94 SMA 128.96 ECC .16814 INC 2.4726 V1 29.804
RP 108.33 LAP 1.49 LOP 230.44 VP 37.699 GAP 3.00 AZP 88.02 TAL 164.16 TAP 21.11 RCA 107.28 APO 150.65 V2 34.983
RC 95.621 GL -20.00 GP 47.16 ZAL 54.64 ZAP 112.69 ETS 22.59 ZAE 126.23 ETE 136.26 ZAC 37.08 ETC 231.63 CLP-124.56

PLANETOCENTRIC CONIC
C3 11.837 VHL 3.441 DLA -33.12 RAL 331.46 RAD 6567.5 VEL 11.542 PTH 2.01 VHP 4.501 DPA 22.90 RAP 284.28 ECC 1.1948

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
72.07	12 7 0	1211.68	25.91	350.57	193.32	111.39	12 27 12	611.7	28.58	342.50
107.93	16 40 51	5625.38	25.92	263.49	193.32	111.37	18 14 36	5025.4	28.59	255.42
72.07	12 7 0	1211.68	25.91	350.57	193.32	111.39	12 27 12	611.7	28.58	342.50
107.93	16 40 51	5625.38	25.92	263.49	193.32	111.37	18 14 36	5025.4	28.59	255.42
110.00	15 49 0	5784.70	21.00	273.37	190.88	117.61	17 25 25	5184.7	24.52	266.00
110.00	17 58 1	5388.40	31.04	247.05	195.24	105.09	19 27 50	4788.4	32.80	238.27

DIFFERENTIAL CORRECTIONS
TDE .1129 TRA 1.6230 TC3-3.1446 BAU .5819
RDE -.1800 RRA-1.3800 RC3 1.9058 FAU .07757
FDE .9718 FRA 3.6800 FC3-5.6735 BSP 15420
BDE .2125 BRA 2.1304 BC3 3.6771 FSP -2449

MID-COURSE EXECUTION ACCURACY
SGT 3889.9 SGR 3055.8 SG3 730.1
RRT -.9883 RRF -.9946 RTF .9846
SGB 4946.6 R23 .0832 R13 -.9912
SG1 4933.0 SG2 366.7 THA 141.93

ORBIT DETERMINATION ACCURACY
ST 988.3 SR 876.9 SS 1061.4
CRT -.9875 CRS .9594 CST -.9033
LSA 1663.6 MSA 323.6 SSA 10.3
EL1 1317.2 EL2 103.9 ALF 138.46

LAUNCH DATE OCT 7 1965 FLIGHT TIME 178.00 ARRIVAL DATE APR 3 1966

DISTANCE 490.767

HELIOCENTRIC CONIC
RL 149.50 LAL .00 LOL 13.52 VL 27.309 GAL 3.27 AZL 92.04 HCA 220.13 SMA 128.89 ECC .16954 INC 2.0381 V1 29.804
RP 108.37 LAP 1.31 LOP 233.63 VP 37.679 GAP 3.38 AZP 88.44 TAL 163.61 TAP 23.73 RCA 107.04 APO 150.74 V2 34.970
RC 97.969 GL -16.48 GP 43.77 ZAL 53.03 ZAP 116.60 ETS 24.66 ZAE 126.75 ETE 140.87 ZAC 34.08 ETC 229.96 CLP-128.32

PLANETOCENTRIC CONIC
C3 11.687 VHL 3.419 DLA -29.55 RAL 330.80 RAD 6567.4 VEL 11.536 PTH 2.01 VHP 4.445 DPA 19.49 RAP 284.09 ECC 1.1923

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
81.18	13 8 57	1005.42	23.29	333.98	191.39	108.72	13 25 43	405.4	25.63	325.99
98.82	15 33 37	5826.31	23.30	277.57	191.40	108.71	17 10 44	5226.3	25.64	269.58
100.00	15 4 36	631.14	20.64	305.49	190.33	112.11	15 15 7	31.1	23.46	297.83
100.00	16 20 40	5675.81	26.00	267.32	192.30	105.30	17 55 15	5075.8	27.84	259.00
110.00	14 37 35	716.30	13.57	308.15	186.58	121.68	14 49 31	116.3	17.66	301.43
110.00	19 4 10	5163.42	33.80	230.12	193.95	95.45	20 30 13	4563.4	34.18	220.89

DIFFERENTIAL CORRECTIONS
TDE .2245 TRA 1.7917 TC3-3.4380 BAU .6028
RDE -.1879 RRA-1.2908 RC3 1.7510 FAU .07867
FDE 1.1399 FRA 3.8464 FC3-5.8273 BSP 15686
BDE .2928 BRA 2.2082 BC3 3.8582 FSP -2517

MID-COURSE EXECUTION ACCURACY
SGT 4193.0 SGR 2778.0 SG3 745.4
RRT -.9887 RRF -.9930 RTF .9858
SGB 5029.8 R23 .0773 R13 -.9904
SG1 5017.8 SG2 347.6 THA 146.59

ORBIT DETERMINATION ACCURACY
ST 1104.0 SR 810.6 SS 1126.5
CRT -.9985 CRS .9523 CST -.9354
LSA 1748.0 MSA 299.0 SSA 11.4
EL1 1369.2 EL2 35.6 ALF 143.72

LAUNCH DATE OCT 7 1965 FLIGHT TIME 180.00 ARRIVAL DATE APR 5 1966

DISTANCE 496.922

HELIOCENTRIC CONIC
RL 149.50 LAL .00 LOL 13.52 VL 27.296 GAL 3.42 AZL 91.66 HCA 223.31 SMA 128.81 ECC .17113 INC 1.6577 V1 29.804
RP 108.41 LAP 1.14 LOP 236.82 VP 37.658 GAP 3.76 AZP 88.79 TAL 163.01 TAP 26.32 RCA 106.76 APO 150.85 V2 34.957
RC 100.323 GL -13.31 GP 40.61 ZAL 51.58 ZAP 120.39 ETS 26.36 ZAE 126.95 ETE 145.05 ZAC 31.44 ETC 227.61 CLP-131.80

PLANETOCENTRIC CONIC
C3 11.721 VHL 3.424 DLA -26.30 RAL 330.38 RAD 6567.4 VEL 11.537 PTH 2.01 VHP 4.434 DPA 16.33 RAP 284.07 ECC 1.1929

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 46 0	1079.59	14.70	335.80	187.77	114.47	13 4 0	479.6	17.89	328.57
90.00	15 53 10	5753.34	27.15	273.27	191.69	98.36	17 29 4	5153.3	28.03	264.71
100.00	13 38 28	910.16	12.63	322.32	186.74	117.32	13 53 38	310.2	16.19	315.34
100.00	17 43 24	5398.00	29.44	247.44	192.00	95.42	19 13 22	4798.0	29.88	238.66
110.00	13 56 27	853.71	8.54	315.62	184.31	123.23	14 10 41	253.7	12.85	309.18
110.00	19 41 54	5027.21	34.17	219.51	192.23	89.19	21 5 41	4427.2	33.68	210.30

DIFFERENTIAL CORRECTIONS
TDE .3410 TRA 1.9570 TC3-3.6594 BAU .6244
RDE -.1879 RRA-1.2059 RC3 1.5765 FAU .07824
FDE 1.2897 FRA 3.9527 FC3-5.7789 BSP 16016
BDE .3893 BRA 2.2987 BC3 3.9845 FSP -2542

MID-COURSE EXECUTION ACCURACY
SGT 4466.6 SGR 2516.4 SG3 747.1
RRT -.9883 RRF -.9910 RTF .9866
SGB 5126.7 R23 .0681 R13 -.9898
SG1 5115.8 SG2 334.5 THA 150.75

ORBIT DETERMINATION ACCURACY
ST 1237.9 SR 745.7 SS 1185.3
CRT -.9989 CRS .9438 CST -.9573
LSA 1848.0 MSA 279.4 SSA 12.4
EL1 1444.9 EL2 30.3 ALF 148.95

LAUNCH DATE OCT 7 1965 FLIGHT TIME 182.00 ARRIVAL DATE APR 7 1966

HELIOCENTRIC CONIC DISTANCE 503.054

RL 149.50 LAL .00 LOL 13.52 VL 27.283 GAL 3.59 AZL 91.32 HCA 226.49 SMA 128.71 ECC .17291 INC 1.3199 V1 29.804
RP 108.44 LAP .96 LOP 240.01 VP 37.637 GAP 4.15 AZP 89.09 TAL 162.37 TAP 28.86 RCA 106.46 APO 150.97 V2 34.945
RC 102.682 GL -10.47 GP 37.69 ZAL 50.26 ZAP 124.03 ETS 27.77 ZAE 126.90 ETE 148.78 ZAC 29.19 ETC 224.58 CLP-135.01

PLANETOCENTRIC CONIC

C3 11.904 VHL 3.450 DLA -23.35 RAL 330.14 RAD 6567.5 VEL 11.545 PTH 2.02 VHP 4.460 DPA 13.41 RAP 284.22 ECC 1.1959

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 52 3	1265.15	9.21	346.66	185.88	116.90	12 13 8	665.2	12.75	339.77
90.00	16 45 15	5574.26	28.25	260.30	191.03	91.96	18 18 10	4974.3	28.23	251.63
100.00	12 55 10	1061.42	7.76	330.91	185.10	118.96	13 12 51	461.4	11.57	324.19
100.00	18 24 50	5253.23	29.89	236.71	191.05	89.80	19 52 23	4653.2	29.54	227.92
110.00	13 26 40	962.63	4.43	321.38	183.06	123.93	13 42 43	362.6	8.86	315.09
110.00	20 9 49	4924.78	33.79	211.53	190.83	84.49	21 31 53	4324.8	32.66	202.48

DIFFERENTIAL CORRECTIONS
TDE .4619 TRA 2.1210 TC3-3.8108 BAU .6459
RDE -.1821 RRA-1.1278 RC3 1.3960 FAU .07646
FDE 1.4199 FRA 4.0100 FC3-5.5606 BSP 16376
BDE .4965 BRA 2.4022 BC3 4.0585 FSP -2525

MID-COURSE EXECUTION ACCURACY
SGT 4714.1 SGR 2276.1 SG3 737.7
RRT -.9871 RRF -.9883 RTF .9870
SGB 5234.8 R23 .0575 R13 -.9892
SG1 5224.5 SG2 328.8 THA 154.41

ORBIT DETERMINATION ACCURACY
ST 1385.4 SR 683.2 SS 1237.2
CRT -.9916 CRS .9336 CST -.9717
LSA 1961.2 MSA 264.8 SSA 13.2
EL1 1542.7 EL2 79.3 ALF 153.87

LAUNCH DATE OCT 7 1965 FLIGHT TIME 184.00 ARRIVAL DATE APR 9 1966

HELIOCENTRIC CONIC DISTANCE 509.163

RL 149.50 LAL .00 LOL 13.52 VL 27.268 GAL 3.77 AZL 91.02 HCA 229.68 SMA 128.61 ECC .17487 INC 1.0162 V1 29.804
RP 108.48 LAP .77 LOP 243.19 VP 37.615 GAP 4.53 AZP 89.34 TAL 161.69 TAP 31.37 RCA 106.12 APO 151.11 V2 34.932
RC 105.043 GL -7.94 GP 35.01 ZAL 49.05 ZAP 127.49 ETS 28.94 ZAE 126.66 ETE 152.07 ZAC 27.36 ETC 220.91 CLP-138.00

PLANETOCENTRIC CONIC

C3 12.214 VHL 3.495 DLA -20.67 RAL 330.07 RAD 6567.5 VEL 11.559 PTH 2.02 VHP 4.517 DPA 10.74 RAP 284.54 ECC 1.2010

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 16 36	1396.81	5.08	354.13	185.01	117.90	11 39 53	796.8	8.77	347.40
90.00	17 20 6	5453.45	28.22	251.47	190.42	87.53	18 50 59	4853.4	27.58	242.86
100.00	12 24 17	1178.36	3.86	337.40	184.34	119.67	12 43 56	578.4	7.78	330.81
100.00	18 55 5	5147.13	29.61	228.84	190.33	85.67	20 20 52	4547.1	28.69	220.15
110.00	13 3 31	1055.41	.89	326.23	182.49	124.17	13 21 7	455.4	5.37	320.01
110.00	20 32 21	4842.85	33.08	205.25	189.85	80.83	21 53 4	4242.9	31.46	196.40

DIFFERENTIAL CORRECTIONS
TDE .5879 TRA 2.2870 TC3-3.8918 BAU .6658
RDE -.1723 RRA-1.0577 RC3 1.2173 FAU .07342
FDE 1.5311 FRA 4.0299 FC3-5.2042 BSP 16715
BDE .6126 BRA 2.5198 BC3 4.0777 FSP -2468

MID-COURSE EXECUTION ACCURACY
SGT 4938.4 SGR 2058.7 SG3 719.7
RRT -.9849 RRF -.9849 RTF .9872
SGB 5350.4 R23 .0475 R13 -.9887
SG1 5340.2 SG2 329.3 THA 157.59

ORBIT DETERMINATION ACCURACY
ST 1543.1 SR 624.1 SS 1282.6
CRT -.9789 CRS .9212 CST -.9811
LSA 2085.8 MSA 254.5 SSA 13.8
EL1 1660.3 EL2 118.6 ALF 158.28

LAUNCH DATE OCT 7 1965 FLIGHT TIME 186.00 ARRIVAL DATE APR 11 1966

HELIOCENTRIC CONIC DISTANCE 515.247

RL 149.50 LAL .00 LOL 13.52 VL 27.252 GAL 3.96 AZL 90.74 HCA 232.86 SMA 128.51 ECC .17704 INC .7400 V1 29.804
RP 108.52 LAP .59 LOP 246.37 VP 37.592 GAP 4.91 AZP 89.55 TAL 160.98 TAP 33.83 RCA 105.76 APO 151.26 V2 34.920
RC 107.406 GL -5.67 GP 32.56 ZAL 47.92 ZAP 130.76 ETS 29.94 ZAE 126.28 ETE 154.95 ZAC 25.97 ETC 216.72 CLP-140.77

PLANETOCENTRIC CONIC

C3 12.638 VHL 3.555 DLA -18.23 RAL 330.12 RAD 6567.5 VEL 11.577 PTH 2.02 VHP 4.600 DPA 8.31 RAP 285.04 ECC 1.2080

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 49 53	1504.21	1.63	.14	184.77	118.27	11 14 57	904.2	5.40	353.49
90.00	17 47 15	5360.57	27.76	244.71	190.09	84.18	19 16 35	4760.6	26.66	236.22
100.00	12 0 21	1276.80	.53	342.81	184.16	119.89	12 21 38	676.8	4.50	336.28
100.00	19 19 27	5063.22	29.01	222.67	189.92	82.47	20 43 51	4463.2	27.67	214.13
110.00	12 44 52	1137.32	-2.24	330.50	182.43	124.12	13 3 49	537.3	2.25	324.30
110.00	20 51 26	4775.46	32.23	200.17	189.27	77.94	22 11 1	4175.5	30.23	191.53

DIFFERENTIAL CORRECTIONS
TDE .7143 TRA 2.4516 TC3-3.9248 BAU .6867
RDE -.1572 RRA -.9934 RC3 1.0571 FAU .06996
FDE 1.6138 FRA 4.0115 FC3-4.7926 BSP 17127
BDE .7314 BRA 2.6452 BC3 4.0647 FSP -2399

MID-COURSE EXECUTION ACCURACY
SGT 5139.9 SGR 1862.9 SG3 695.0
RRT -.9818 RRF -.9805 RTF .9873
SGB 5467.1 R23 .0374 R13 -.9883
SG1 5456.9 SG2 332.8 THA 160.34

ORBIT DETERMINATION ACCURACY
ST 1700.0 SR 566.1 SS 1315.0
CRT -.9609 CRS .9045 CST -.9871
LSA 2208.7 MSA 247.6 SSA 14.1
EL1 1785.6 EL2 149.2 ALF 162.13

LAUNCH DATE OCT 7 1965 FLIGHT TIME 188.00 ARRIVAL DATE APR 13 1966

HELIOCENTRIC CONIC DISTANCE 521.306

RL 149.50 LAL .00 LOL 13.52 VL 27.236 GAL 4.18 AZL 90.49 HCA 236.03 SMA 128.39 ECC .17941 INC .4864 V1 29.804
RP 108.56 LAP .40 LOP 249.55 VP 37.569 GAP 5.30 AZP 89.73 TAL 160.23 TAP 36.26 RCA 105.36 APO 151.43 V2 34.909
RC 109.770 GL -3.64 GP 30.33 ZAL 46.86 ZAP 133.83 ETS 30.81 ZAE 125.80 ETE 157.45 ZAC 25.01 ETC 212.14 CLP-143.35

PLANETOCENTRIC CONIC

C3 13.168 VHL 3.629 DLA -16.01 RAL 330.28 RAD 6567.5 VEL 11.600 PTH 2.03 VHP 4.706 DPA 6.12 RAP 285.70 ECC 1.2167

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 28 36	1596.84	-1.36	5.31	184.99	118.29	10 55 13	996.8	2.43	358.68
90.00	18 9 50	5285.64	27.13	239.32	190.04	81.55	19 37 56	4685.6	25.68	230.95
100.00	11 41 2	1363.12	-2.40	347.55	184.41	119.81	12 3 45	763.1	1.59	341.03
100.00	19 40 5	4994.59	28.30	217.70	189.83	79.95	21 3 20	4394.6	26.62	209.30
110.00	12 29 31	1211.24	-5.05	334.38	182.76	123.85	12 49 42	611.2	-.57	328.16
110.00	21 8 6	4719.23	31.35	196.02	189.07	75.63	22 26 45	4119.2	29.06	187.57

DIFFERENTIAL CORRECTIONS
TDE .8430 TRA 2.6185 TC3-3.9099 BAU .7068
RDE -.1394 RRA -.9364 RC3 .9126 FAU .06601
FDE 1.6752 FRA 3.9696 FC3-4.3401 BSP 17540
BDE .8545 BRA 2.7809 BC3 4.0150 FSP -2312

MID-COURSE EXECUTION ACCURACY
SGT 5322.2 SGR 1689.1 SG3 666.1
RRT -.9776 RRF -.9751 RTF .9872
SGB 5583.8 R23 .0288 R13 -.9879
SG1 5573.5 SG2 339.3 THA 162.70

ORBIT DETERMINATION ACCURACY
ST 1855.9 SR 511.6 SS 1338.3
CRT -.9374 CRS .8829 CST -.9910
LSA 2331.8 MSA 243.3 SSA 14.3
EL1 1917.3 EL2 172.5 ALF 165.39

LAUNCH DATE OCT 7 1965 FLIGHT TIME 190.00 ARRIVAL DATE APR 15 1966

HELIOCENTRIC CONIC DISTANCE 527.339

RL 149.50 LAL .00 LOL 13.52 VL 27.218 GAL 4.40 AZL 90.25 HCA 239.21 SMA 128.27 ECC .18199 INC .2509 V1 29.804
RP 108.59 LAP .22 LOP 252.73 VP 37.545 GAP 5.68 AZP 89.87 TAL 159.45 TAP 38.66 RCA 104.93 APO 151.62 V2 34.897
RC 112.133 GL -1.84 GP 28.31 ZAL 45.85 ZAP 136.70 ETS 31.60 ZAE 125.28 ETE 159.61 ZAC 24.47 ETC 207.38 CLP-145.76

PLANETOCENTRIC CONIC

C3 13.803 VHL 3.715 DLA -14.00 RAL 330.54 RAD 6567.5 VEL 11.627 PTH 2.04 VHP 4.832 DPA 4.15 RAP 286.51 ECC 1.2272

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 11 8	1679.22	-4.01	9.91	185.56	118.06	10 39 7	1079.2	-.22	3.27
90.00	18 29 21	5223.74	26.43	234.92	190.28	79.45	19 56 25	4623.7	24.71	226.68
100.00	11 25 4	1440.68	-5.01	351.82	185.01	119.51	11 49 5	840.7	-1.04	345.28
100.00	19 58 7	4937.51	27.55	213.62	190.03	77.93	21 20 24	4337.5	25.61	205.36
110.00	12 16 42	1278.97	-7.61	337.96	183.41	123.43	12 38 1	679.0	-3.16	331.69
110.00	21 22 58	4671.99	30.50	192.60	189.18	73.77	22 40 50	4072.0	27.98	184.32

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE .9739 TRA 2.7886 TC3-3.8544 BAU .7258 SGT 5486.6 SGR 1535.4 SG3 634.5 ST 2007.8 SR 461.5 SS 1353.4
RDE -.1198 RRA -.8861 RC3 .7844 FAU .06174 RRT -.9721 RRF -.9685 RTF .9870 CRT -.9075 CRS .8550 CST -.9937
FDE 1.7186 FRA 3.9107 FC3-3.8726 BSP 17956 SGB 5697.3 R23 .0220 R13 -.9875 LSA 2453.1 MSA 240.6 SSA 14.4
BDE .9812 BRA 2.9260 BC3 3.9334 FSP -2215 SG1 5686.7 SG2 347.4 THA 164.72 EL1 2051.4 EL2 189.7 ALF 168.11

LAUNCH DATE OCT 7 1965 FLIGHT TIME 192.00 ARRIVAL DATE APR 17 1966

HELIOCENTRIC CONIC DISTANCE 533.345

RL 149.50 LAL .00 LOL 13.52 VL 27.199 GAL 4.65 AZL 90.03 HCA 242.38 SMA 128.15 ECC .18480 INC .0280 V1 29.804
RP 108.63 LAP .03 LOP 255.91 VP 37.522 GAP 6.08 AZP 89.99 TAL 158.64 TAP 41.02 RCA 104.47 APO 151.83 V2 34.886
RC 114.493 GL -.22 GP 26.48 ZAL 44.87 ZAP 139.39 ETS 32.34 ZAE 124.72 ETE 161.47 ZAC 24.34 ETC 202.62 CLP-148.01

PLANETOCENTRIC CONIC

C3 14.542 VHL 3.813 DLA -12.15 RAL 330.88 RAD 6567.6 VEL 11.659 PTH 2.05 VHP 4.975 DPA 2.39 RAP 287.47 ECC 1.2393

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 56 33	1753.95	-6.38	14.11	186.42	117.65	10 25 46	1153.9	-2.63	7.44
90.00	18 46 38	5172.01	25.73	231.30	190.77	77.76	20 12 50	4572.0	23.79	223.17
100.00	11 11 41	1511.54	-7.37	355.76	185.89	119.05	11 36 52	911.5	-3.44	349.17
100.00	20 14 11	4889.65	26.83	210.25	190.49	76.29	21 35 41	4289.6	24.67	202.11
110.00	12 5 54	1341.72	-9.94	341.31	184.32	122.87	12 28 16	741.7	-5.54	334.99
110.00	21 36 27	4632.23	29.71	189.78	189.57	72.27	22 53 39	4032.2	27.00	181.64

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE 1.1100 TRA 2.9666 TC3-3.7570 BAU .7419 SGT 5637.5 SGR 1401.0 SG3 602.3 ST 2158.7 SR 417.1 SS 1364.4
RDE -.1001 RRA -.8431 RC3 .6699 FAU .05711 RRT -.9652 RRF -.9605 RTF .9866 CRT -.8705 CRS .8204 CST -.9955
FDE 1.7514 FRA 3.8459 FC3-3.4000 BSP 18277 SGB 5809.0 R23 .0169 R13 -.9870 LSA 2576.5 MSA 239.0 SSA 14.5
BDE 1.1145 BRA 3.0841 BC3 3.8163 FSP -2100 SG1 5798.0 SG2 356.4 THA 166.46 EL1 2189.3 EL2 202.4 ALF 170.37

LAUNCH DATE OCT 7 1965 FLIGHT TIME 194.00 ARRIVAL DATE APR 19 1966

HELIOCENTRIC CONIC DISTANCE 539.322

RL 149.50 LAL .00 LOL 13.52 VL 27.180 GAL 4.91 AZL 89.82 HCA 245.56 SMA 128.02 ECC .18784 INC .1758 V1 29.804
RP 108.66 LAP -.16 LOP 259.08 VP 37.498 GAP 6.47 AZP 90.07 TAL 157.79 TAP 43.35 RCA 103.97 APO 152.07 V2 34.875
RC 116.852 GL 1.22 GP 24.84 ZAL 43.93 ZAP 141.89 ETS 33.06 ZAE 124.16 ETE 163.07 ZAC 24.56 ETC 198.07 CLP-150.12

PLANETOCENTRIC CONIC

C3 15.388 VHL 3.923 DLA -10.47 RAL 331.28 RAD 6567.6 VEL 11.695 PTH 2.06 VHP 5.134 DPA .83 RAP 288.56 ECC 1.2532

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 44 12	1822.70	-8.54	18.02	187.52	117.10	10 14 35	1222.7	-4.84	11.29
90.00	19 2 11	5128.55	25.07	228.28	191.48	76.39	20 27 40	4528.6	22.95	220.26
100.00	11 0 20	1577.07	-9.52	359.44	187.00	118.47	11 26 37	977.1	-5.64	352.79
100.00	20 28 44	4849.41	26.15	207.45	191.17	74.97	21 49 34	4249.4	23.83	199.42
110.00	11 56 45	1400.38	-12.09	344.50	185.46	122.22	12 20 6	800.4	-7.75	338.09
110.00	21 48 48	4598.86	29.00	187.44	190.19	71.05	23 5 27	3998.9	26.14	179.43

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE 1.2447 TRA 3.1458 TC3-3.6432 BAU .7587 SGT 5771.3 SGR 1282.1 SG3 569.2 ST 2297.3 SR 376.6 SS 1365.4
RDE -.0784 RRA -.8044 RC3 .5743 FAU .05276 RRT -.9567 RRF -.9510 RTF .9862 CRT -.8230 CRS .7750 CST -.9967
FDE 1.7656 FRA 3.7680 FC3-2.9685 BSP 18674 SGB 5912.0 R23 .0125 R13 -.9865 LSA 2688.2 MSA 238.2 SSA 14.5
BDE 1.2471 BRA 3.2470 BC3 3.6882 FSP -1996 SG1 5900.7 SG2 364.9 THA 167.95 EL1 2318.2 EL2 212.0 ALF 172.25

LAUNCH DATE OCT 7 1965 FLIGHT TIME 196.00 ARRIVAL DATE APR 21 1966

HELIOCENTRIC CONIC DISTANCE 545.270

RL 149.50 LAL .00 LOL 13.52 VL 27.160 GAL 5.19 AZL 89.63 HCA 248.73 SMA 127.88 ECC .19114 INC .3733 V1 29.804
RP 108.69 LAP -.35 LOP 262.25 VP 37.474 GAP 6.88 AZP 90.14 TAL 156.93 TAP 45.66 RCA 103.44 APO 152.33 V2 34.865
RC 119.206 GL 2.50 GP 23.35 ZAL 43.01 ZAP 144.24 ETS 33.79 ZAE 123.61 ETE 164.45 ZAC 25.10 ETC 193.85 CLP-152.11

PLANETOCENTRIC CONIC

C3 16.347 VHL 4.043 DLA -8.93 RAL 331.74 RAD 6567.7 VEL 11.736 PTH 2.07 VHP 5.308 DPA -.56 RAP 289.77 ECC 1.2690

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 33 40	1886.63	-10.50	21.69	188.82	116.45	10 5 7	1286.6	-6.86	14.90
90.00	19 16 23	5092.04	24.46	225.78	192.38	75.28	20 41 15	4492.0	22.20	217.84
100.00	10 50 39	1638.26	-11.48	2.92	188.31	117.79	11 17 58	1038.3	-7.68	356.20
100.00	20 42 5	4815.64	25.53	205.13	192.06	73.90	22 2 20	4215.6	23.08	197.19
110.00	11 48 59	1455.64	-14.08	347.55	186.79	121.48	12 13 14	855.6	-9.81	341.05
110.00	22 0 15	4571.03	28.37	185.52	191.02	70.08	23 16 26	3971.0	25.39	177.61

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE 1.3817 TRA 3.3313 TC3-3.5082 BAU .7742 SGT 5892.3 SGR 1177.9 SG3 536.7 ST 2428.3 SR 341.4 SS 1361.3
RDE -.0564 RRA -.7708 RC3 .4923 FAU .04850 RRT -.9466 RRF -.9398 RTF .9858 CRT -.7637 CRS .7181 CST -.9976
FDE 1.7696 FRA 3.6874 FC3-2.5688 BSP 19052 SGB 6008.9 R23 .0089 R13 -.9860 LSA 2794.6 MSA 237.8 SSA 14.4
BDE 1.3829 BRA 3.4193 BC3 3.5426 FSP -1892 SG1 5997.3 SG2 373.1 THA 169.24 EL1 2442.4 EL2 219.1 ALF 173.82

LAUNCH DATE OCT 7 1965 FLIGHT TIME 198.00 ARRIVAL DATE APR 23 1966

HELIOCENTRIC CONIC DISTANCE 551.186

RL	149.50	LAL	.00	LOL	13.52	VL	27.139	GAL	5.49	AZL	89.44	HCA	251.90	SMA	127.75	ECC	.19470	INC	.5621	V1	29.804
RP	108.72	LAP	-.53	LOP	265.42	VP	37.450	GAP	7.29	AZP	90.17	TAL	156.03	TAP	47.93	RCA	102.87	APO	152.62	V2	34.856
RC	121.557	GL	3.64	GP	22.00	ZAL	42.11	ZAP	146.43	ETS	34.56	ZAE	123.07	ETE	165.64	ZAC	25.91	ETC	190.06	CLP	-153.99

PLANETOCENTRIC CONIC

C3	17.427	VHL	4.175	DLA	-7.53	RAL	332.25	RAD	6567.7	VEL	11.782	PTH	2.08	VHP	5.496	DPA	-1.78	RAP	291.09	ECC	1.2868

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 24 39	1946.60	-12.29	25.18	190.30	115.71	9 57 5	1346.6	-8.74	18.31
90.00	19 29 27	5061.50	23.92	223.71	193.46	74.37	20 53 48	4461.5	21.54	215.84
100.00	10 42 22	1695.85	-13.29	6.24	189.79	117.02	11 10 38	1095.9	-9.56	359.43
100.00	20 54 24	4787.48	24.98	203.22	193.11	73.03	22 14 12	4187.5	22.42	195.35
110.00	11 42 22	1508.03	-15.92	350.49	188.30	120.66	12 7 30	908.0	-11.73	343.88
110.00	22 10 54	4548.08	27.83	183.96	192.03	69.29	23 26 42	3948.1	24.75	176.13

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	1.5217	TRA	3.5246	TC3	-3.3558	BAU	.7880	SGT	6001.8	SGR	1086.6	SG3	505.3	ST	2551.8	SR	311.9	SS	1353.8
RDE	-.0345	RRA	-.7418	RC3	.4217	FAU	.04433	RRT	-.9348	RRF	-.9270	RTF	.9853	CRT	-.6921	CRS	.6490	CST	-.9982
FDE	1.7666	FRA	3.6074	FC3	-2.2022	BSP	19402	SGB	6099.4	R23	.0063	R13	-.9854	LSA	2895.7	MSA	237.6	SSA	14.3
BDE	1.5221	BRA	3.6018	BC3	3.3822	FSP	-1788	SG1	6087.5	SG2	380.6	THA	170.36	EL1	2561.0	EL2	224.3	ALF	175.13

LAUNCH DATE OCT 7 1965 FLIGHT TIME 200.00 ARRIVAL DATE APR 25 1966

HELIOCENTRIC CONIC DISTANCE 557.068

RL	149.50	LAL	.00	LOL	13.52	VL	27.118	GAL	5.82	AZL	89.26	HCA	255.07	SMA	127.60	ECC	.19854	INC	.7441	V1	29.804
RP	108.75	LAP	-.72	LOP	268.59	VP	37.426	GAP	7.71	AZP	90.19	TAL	155.12	TAP	50.19	RCA	102.27	APO	152.94	V2	34.846
RC	123.903	GL	4.66	GP	20.79	ZAL	41.24	ZAP	148.49	ETS	35.38	ZAE	122.56	ETE	166.67	ZAC	26.94	ETC	186.72	CLP	-155.77

PLANETOCENTRIC CONIC

C3	18.638	VHL	4.317	DLA	-6.24	RAL	332.79	RAD	6567.8	VEL	11.833	PTH	2.10	VHP	5.698	DPA	-2.85	RAP	292.51	ECC	1.3067

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 16 53	2003.27	-13.94	28.53	191.93	114.90	9 50 16	1403.3	-10.47	21.57
90.00	19 41 34	5036.18	23.44	222.01	194.69	73.65	21 5 30	4436.2	20.98	214.20
100.00	10 35 16	1750.42	-14.95	9.44	191.43	116.19	11 4 26	1150.4	-11.31	2.54
100.00	21 5 52	4764.27	24.51	201.65	194.33	72.34	22 25 17	4164.3	21.87	193.85
110.00	11 36 44	1557.97	-17.63	353.35	189.95	119.77	12 2 42	958.0	-13.54	346.63
110.00	22 20 54	4529.48	27.37	182.70	193.20	68.68	23 36 23	3929.5	24.23	174.95

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	1.6644	TRA	3.7260	TC3	-3.1908	BAU	.8001	SGT	6100.4	SGR	1006.2	SG3	475.2	ST	2667.1	SR	287.6	SS	1343.0
RDE	-.0126	RRA	-.7165	RC3	.3610	FAU	.04030	RRT	-.9211	RRF	-.9124	RTF	.9848	CRT	-.6073	CRS	.5671	CST	-.9987
FDE	1.7577	FRA	3.5290	FC3	-1.8718	BSP	19726	SGB	6182.8	R23	.0042	R13	-.9849	LSA	2990.5	MSA	237.4	SSA	14.2
BDE	1.6645	BRA	3.7943	BC3	3.2111	FSP	-1686	SG1	6170.6	SG2	387.3	THA	171.33	EL1	2672.8	EL2	228.0	ALF	176.23

LAUNCH DATE OCT 7 1965 FLIGHT TIME 202.00 ARRIVAL DATE APR 27 1966

HELIOCENTRIC CONIC DISTANCE 562.915

RL	149.50	LAL	.00	LOL	13.52	VL	27.096	GAL	6.16	AZL	89.08	HCA	258.23	SMA	127.46	ECC	.20269	INC	.9207	V1	29.804
RP	108.78	LAP	-.90	LOP	271.76	VP	37.402	GAP	8.14	AZP	90.19	TAL	154.19	TAP	52.42	RCA	101.62	APO	153.29	V2	34.838
RC	126.245	GL	5.56	GP	19.69	ZAL	40.38	ZAP	150.41	ETS	36.27	ZAE	122.07	ETE	167.56	ZAC	28.16	ETC	183.83	CLP	-157.46

PLANETOCENTRIC CONIC

C3	19.994	VHL	4.471	DLA	-5.05	RAL	333.37	RAD	6567.8	VEL	11.890	PTH	2.11	VHP	5.914	DPA	-3.78	RAP	294.02	ECC	1.3290

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 10 11	2057.14	-15.46	31.75	193.71	114.02	9 44 29	1457.1	-12.09	24.70
90.00	19 52 53	5015.51	23.04	220.63	196.05	73.07	21 16 28	4415.5	20.50	212.87
100.00	10 29 9	1802.42	-16.49	12.53	193.22	115.29	10 59 12	1202.4	-12.95	5.53
100.00	21 16 36	4745.47	24.12	200.39	195.68	71.78	22 35 41	4145.5	21.40	192.65
110.00	11 31 57	1605.83	-19.23	356.15	191.75	118.82	11 58 42	1005.8	-15.23	349.30
110.00	22 30 18	4514.81	27.00	181.72	194.51	68.20	23 45 33	3914.8	23.80	174.02

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	1.8138	TRA	3.9395	TC3	-3.0111	BAU	.8090	SGT	6191.4	SGR	935.5	SG3	447.0	ST	2778.4	SR	268.6	SS	1332.3
RDE	.0087	RRA	-.6950	RC3	.3080	FAU	.03631	RRT	-.9057	RRF	-.8962	RTF	.9842	CRT	-.5126	CRS	.4757	CST	-.9990
FDE	1.7481	FRA	3.4564	FC3	-1.5721	BSP	19959	SGB	6261.7	R23	.0027	R13	-.9843	LSA	3083.9	MSA	237.0	SSA	14.1
BDE	1.8138	BRA	4.0003	BC3	3.0268	FSP	-1582	SG1	6249.3	SG2	392.9	THA	172.18	EL1	2781.8	EL2	230.3	ALF	177.14

LAUNCH DATE OCT 7 1965 FLIGHT TIME 204.00 ARRIVAL DATE APR 29 1966

HELIOCENTRIC CONIC DISTANCE 568.723

RL	149.50	LAL	.00	LOL	13.52	VL	27.074	GAL	6.53	AZL	88.91	HCA	261.40	SMA	127.31	ECC	.20717	INC	1.0932	V1	29.804
RP	108.80	LAP	-1.08	LOP	274.92	VP	37.378	GAP	8.58	AZP	90.16	TAL	153.24	TAP	54.64	RCA	100.94	APO	153.69	V2	34.830
RC	128.581	GL	6.35	GP	18.70	ZAL	39.53	ZAP	152.22	ETS	37.25	ZAE	121.61	ETE	168.34	ZAC	29.53	ETC	181.35	CLP	-159.08

PLANETOCENTRIC CONIC

C3	21.508	VHL	4.638	DLA	-3.97	RAL	333.98	RAD	6567.9	VEL	11.954	PTH	2.13	VHP	6.144	DPA	-4.58	RAP	295.60	ECC	1.3540

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 4 26	2108.62	-16.86	34.88	195.61	113.09	9 39 34	1508.6	-13.59	27.73
90.00	20 3 28	4999.01	22.71	219.53	197.54	72.62	21 26 47	4399.0	20.12	211.82
100.00	10 23 55	1852.22	-17.91	15.54	195.12	114.34	10 54 47	1252.2	-14.48	8.44
100.00	21 26 40	4730.65	23.80	199.41	197.16	71.36	22 45 31	4130.6	21.03	191.70
110.00	11 27 54	1651.91	-20.71	358.89	193.67	117.82	11 55 26	1051.9	-16.83	351.92
110.00	22 39 10	4503.72	26.72	180.98	195.95	67.84	23 54 14	3903.7	23.48	173.32

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	1.9625	TRA	4.1590	TC3	-2.8337	BAU	.8183	SGT	6270.1	SGR	872.4	SG3	419.9	ST	2876.2	SR	253.9	SS	1316.8
RDE	.0307	RRA	-.6755	RC3	.2639	FAU	.03273	RRT	-.8884	RRF	-.8781	RTF	.9837	CRT	-.4059	CRS	.3726	CST	-.9993
FDE	1.7308	FRA	3.3836	FC3	-1.3175	BSP	20264	SGB	6330.5	R23	.0013	R13	-.9837	LSA	3164.6	MSA	236.6	SSA	14.0
BDE	1.9628	BRA	4.2135	BC3	2.8459	FSP	-1492	SG1	6318.1	SG2	397.4	THA	172.93	EL1	2878.0	EL2	231.9	ALF	177.93

LAUNCH DATE OCT 7 1965 FLIGHT TIME 206.00 ARRIVAL DATE MAY 1 1966

DISTANCE 574.488

HELIOCENTRIC CONIC

RL 149.50 LAL .00 LOL 13.52 VL 27.051 GAL 6.92 AZL 88.74 HCA 264.56 SMA 127.16 ECC .21201 INC 1.2627 V1 29.804
RP 108.82 LAP -1.26 LOP 278.09 VP 37.355 GAP 9.04 AZP 90.12 TAL 152.27 TAP 56.84 RCA 100.20 APO 154.12 V2 34.822
RC 130.911 GL 7.06 GP 17.80 ZAL 38.70 ZAP 153.92 ETS 38.35 ZAE 121.17 ETE 169.02 ZAC 31.02 ETC 179.24 CLP-160.63

PLANETOCENTRIC CONIC

C3 23.200 VHL 4.817 DLA -2.97 RAL 334.60 RAD 6567.9 VEL 12.024 PTH 2.15 VHP 6.388 DPA -5.26 RAP 297.26 ECC 1.3818

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 59 28	2158.05	-18.16	37.93	197.62	112.11	9 35 26	1558.0	-15.00	30.68
90.00	20 13 25	4986.30	22.45	218.69	199.14	72.27	21 36 31	4386.3	19.81	211.01
100.00	10 19 26	1900.12	-19.23	18.49	197.15	113.33	10 51 6	1300.1	-15.91	11.27
100.00	21 36 9	4719.46	23.55	198.67	198.74	71.04	22 54 48	4119.5	20.75	190.99
110.00	11 24 29	1696.43	-22.10	1.60	195.71	116.76	11 52 46	1096.4	-18.33	354.49
110.00	22 47 34	4495.91	26.52	180.46	197.51	67.60	24 2 30	3895.9	23.25	172.83

DIFFERENTIAL CORRECTIONS

TDE 2.1159 TRA 4.3899 TC3-2.6518 BAU .8254
RDE .0525 RRA -.6582 RC3 .2258 FAU .02932
FDE 1.7122 FRA 3.3155 FC3-1.0941 BSP 20529
BDE 2.1166 BRA 4.4390 BC3 2.6614 FSP -1404

MID-COURSE EXECUTION ACCURACY

SGT 6340.7 SGR 816.1 SG3 394.6
RRT -.8694 RRF -.8582 RTF .9832
SGB 6393.0 R23 .0001 R13 -.9832
SG1 6380.4 SG2 400.8 THA 173.59

ORBIT DETERMINATION ACCURACY

ST 2966.8 SR 243.5 SS 1300.6
CRT -.2940 CRS .2645 CST -.9995
LSA 3239.9 MSA 235.9 SSA 13.9
EL1 2967.7 EL2 232.6 ALF 178.61

LAUNCH DATE OCT 7 1965 FLIGHT TIME 208.00 ARRIVAL DATE MAY 3 1966

DISTANCE 580.206

HELIOCENTRIC CONIC

RL 149.50 LAL .00 LOL 13.52 VL 27.028 GAL 7.34 AZL 88.57 HCA 267.73 SMA 127.01 ECC .21723 INC 1.4304 V1 29.804
RP 108.85 LAP -1.43 LOP 281.25 VP 37.332 GAP 9.51 AZP 90.06 TAL 151.29 TAP 59.02 RCA 99.42 APO 154.60 V2 34.816
RC 133.236 GL 7.68 GP 16.98 ZAL 37.88 ZAP 155.53 ETS 39.58 ZAE 120.76 ETE 169.62 ZAC 32.61 ETC 177.46 CLP-162.11

PLANETOCENTRIC CONIC

C3 25.090 VHL 5.009 DLA -2.05 RAL 335.24 RAD 6568.0 VEL 12.102 PTH 2.17 VHP 6.647 DPA -5.83 RAP 298.97 ECC 1.4129

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 55 13	2205.69	-19.35	40.92	199.74	111.08	9 31 59	1605.7	-16.31	33.56
90.00	20 22 47	4977.07	22.26	218.08	200.85	72.03	21 45 44	4377.1	19.59	210.42
100.00	10 15 36	1946.38	-20.45	21.38	199.27	112.29	10 48 2	1346.4	-17.25	14.05
100.00	21 45 5	4711.61	23.38	198.15	200.44	70.82	23 3 37	4111.6	20.55	190.50
110.00	11 21 39	1739.62	-23.40	4.28	197.86	115.66	11 50 39	1139.6	-19.76	357.03
110.00	22 55 32	4491.13	26.40	180.15	199.17	67.45	24 10 23	3891.1	23.11	172.53

DIFFERENTIAL CORRECTIONS

TDE 2.2739 TRA 4.6331 TC3-2.4681 BAU .8304
RDE .0742 RRA -.6428 RC3 .1928 FAU .02609
FDE 1.6929 FRA 3.2524 FC3 -.9002 BSP 20770
BDE 2.2751 BRA 4.6775 BC3 2.4756 FSP -1322

MID-COURSE EXECUTION ACCURACY

SGT 6403.2 SGR 765.4 SG3 370.8
RRT -.8485 RRF -.8367 RTF .9827
SGB 6448.7 R23 -.0008 R13 -.9827
SG1 6436.1 SG2 403.0 THA 174.19

ORBIT DETERMINATION ACCURACY

ST 3049.8 SR 236.6 SS 1283.9
CRT -.1813 CRS .1556 CST -.9996
LSA 3309.1 MSA 234.8 SSA 13.7
EL1 3050.1 EL2 232.6 ALF 179.19

LAUNCH DATE OCT 7 1965 FLIGHT TIME 210.00 ARRIVAL DATE MAY 5 1966

DISTANCE 585.874

HELIOCENTRIC CONIC

RL 149.50 LAL .00 LOL 13.52 VL 27.005 GAL 7.80 AZL 88.40 HCA 270.89 SMA 126.86 ECC .22288 INC 1.5973 V1 29.804
RP 108.87 LAP -1.60 LOP 284.41 VP 37.309 GAP 10.00 AZP 89.97 TAL 150.31 TAP 61.20 RCA 98.58 APO 155.13 V2 34.809
RC 135.553 GL 8.22 GP 16.24 ZAL 37.08 ZAP 157.04 ETS 40.96 ZAE 120.37 ETE 170.14 ZAC 34.28 ETC 175.96 CLP-163.55

PLANETOCENTRIC CONIC

C3 27.205 VHL 5.216 DLA -1.21 RAL 335.90 RAD 6568.1 VEL 12.189 PTH 2.19 VHP 6.922 DPA -6.29 RAP 300.74 ECC 1.4477

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 51 35	2251.78	-20.45	43.85	201.95	110.02	9 29 7	1651.8	-17.54	36.39
90.00	20 31 38	4971.04	22.13	217.69	202.64	71.87	21 54 29	4371.0	19.45	210.04
100.00	10 12 22	1991.21	-21.58	24.23	201.50	111.20	10 45 33	1391.2	-18.51	16.79
100.00	21 53 32	4706.85	23.27	197.84	202.22	70.69	23 11 59	4106.8	20.43	190.20
110.00	11 19 19	1781.64	-24.62	6.94	200.11	114.50	11 49 0	1181.6	-21.10	359.55
110.00	23 3 4	4489.18	26.35	180.02	200.92	67.39	24 17 54	3889.2	23.05	172.41

DIFFERENTIAL CORRECTIONS

TDE 2.4411 TRA 4.8933 TC3-2.2791 BAU .8310
RDE .0955 RRA -.6293 RC3 .1634 FAU .02288
FDE 1.6765 FRA 3.1975 FC3 -.7280 BSP 20901
BDE 2.4429 BRA 4.9336 BC3 2.2849 FSP -1237

MID-COURSE EXECUTION ACCURACY

SGT 6461.4 SGR 719.8 SG3 348.9
RRT -.8259 RRF -.8137 RTF .9823
SGB 6501.3 R23 -.0014 R13 -.9823
SG1 6488.8 SG2 404.1 THA 174.72

ORBIT DETERMINATION ACCURACY

ST 3130.0 SR 232.5 SS 1269.1
CRT -.0737 CRS .0518 CST -.9997
LSA 3377.5 MSA 233.3 SSA 13.6
EL1 3130.1 EL2 231.8 ALF 179.68

LAUNCH DATE OCT 7 1965 FLIGHT TIME 212.00 ARRIVAL DATE MAY 7 1966

DISTANCE 591.485

HELIOCENTRIC CONIC

RL 149.50 LAL .00 LOL 13.52 VL 26.981 GAL 8.28 AZL 88.24 HCA 274.05 SMA 126.70 ECC .22899 INC 1.7644 V1 29.804
RP 108.88 LAP -1.76 LOP 287.57 VP 37.287 GAP 10.52 AZP 89.88 TAL 149.32 TAP 63.37 RCA 97.69 APO 155.72 V2 34.804
RC 137.863 GL 8.69 GP 15.57 ZAL 36.30 ZAP 158.47 ETS 42.53 ZAE 120.00 ETE 170.61 ZAC 36.01 ETC 174.70 CLP-164.94

PLANETOCENTRIC CONIC

C3 29.575 VHL 5.438 DLA -.44 RAL 336.56 RAD 6568.2 VEL 12.286 PTH 2.21 VHP 7.215 DPA -6.66 RAP 302.55 ECC 1.4867

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 48 30	2296.50	-21.47	46.74	204.26	108.92	9 26 47	1696.5	-18.69	39.17
90.00	20 39 58	4968.01	22.06	217.49	204.52	71.79	22 2 46	4368.0	19.37	209.85
100.00	10 9 38	2034.78	-22.63	27.05	203.81	110.07	10 43 33	1434.8	-19.69	19.49
100.00	22 1 31	4704.97	23.23	197.71	204.09	70.64	23 19 56	4105.0	20.38	190.08
110.00	11 17 25	1822.64	-25.75	9.59	202.45	113.30	11 47 47	1222.6	-22.37	2.06
110.00	23 10 14	4489.87	26.36	180.06	202.77	67.41	24 25 4	3889.9	23.07	172.45

DIFFERENTIAL CORRECTIONS

TDE 2.6086 TRA 5.1627 TC3-2.0995 BAU .8319
RDE .1175 RRA -.6160 RC3 .1388 FAU .02006
FDE 1.6560 FRA 3.1439 FC3 -.9871 BSP 21130
BDE 2.6112 BRA 5.1994 BC3 2.1041 FSP -1166

MID-COURSE EXECUTION ACCURACY

SGT 6508.1 SGR 677.8 SG3 328.1
RRT -.8014 RRF -.7887 RTF .9820
SGB 6543.3 R23 -.0021 R13 -.9820
SG1 6530.8 SG2 404.0 THA 175.21

ORBIT DETERMINATION ACCURACY

ST 3197.0 SR 230.8 SS 1251.7
CRT .0302 CRS -.0485 CST -.9998
LSA 3433.2 MSA 231.7 SSA 13.4
EL1 3197.0 EL2 230.7 ALF .13

LAUNCH DATE OCT 7 1965 FLIGHT TIME 214.00 ARRIVAL DATE MAY 9 1966

HELIOCENTRIC CONIC DISTANCE 597.032

RL 149.50 LAL .00 LOL 13.52 VL 26.957 GAL 8.80 AZL 88.07 HCA 277.21 SMA 126.55 ECC .23562 INC 1.9328 VI 29.804
RP 108.90 LAP -1.92 LOP 290.74 VP 37.265 GAP 11.06 AZP 89.76 TAL 148.33 TAP 65.54 RCA 96.73 APO 156.36 V2 34.799
RC 140.164 GL 9.11 GP 14.96 ZAL 35.53 ZAP 159.82 ETS 44.30 ZAE 119.64 ETE 171.03 ZAC 37.79 ETC 173.63 CLP-166.29

PLANETOCENTRIC CONIC

C3 32.235 VHL 5.678 DLA .26 RAL 337.22 RAD 6568.3 VEL 12.394 PTH 2.24 VHP 7.526 DPA -6.94 RAP 304.39 ECC 1.5305

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 45 55	2340.00	-22.40	49.59	206.64	107.79	9 24 55	1740.0	-19.76	41.91
90.00	20 47 50	4967.78	22.06	217.47	206.47	71.78	22 10 38	4367.8	19.37	209.83
100.00	10 7 23	2077.22	-23.59	29.83	206.21	108.91	10 42 0	1477.2	-20.80	22.15
100.00	22 9 3	4705.79	23.25	197.77	206.04	70.66	23 27 29	4105.8	20.40	190.13
110.00	11 15 54	1862.73	-26.80	12.23	204.88	112.06	11 46 57	1262.7	-23.57	4.56
110.00	23 17 1	4493.04	26.45	180.27	204.69	67.51	24 31 54	3893.0	23.16	172.65

DIFFERENTIAL CORRECTIONS
TDE 2.7828 TRA 5.4482 TC3-1.9221 BAU .8299
RDE .1397 RRA -.6033 RC3 .1173 FAU .01737
FDE 1.6366 FRA 3.0958 FC3 -.4666 BSP 21331
BDE 2.7863 BRA 5.4815 BC3 1.9257 FSP -1098

MID-COURSE EXECUTION ACCURACY
SGT 6548.3 SGR 639.0 SG3 308.7
RRT -.7749 RRF -.7620 RTF .9817
SGB 6579.4 R23 -.0026 R13 -.9817
SG1 6567.1 SG2 402.8 THA 175.66

ORBIT DETERMINATION ACCURACY
ST 3257.6 SR 230.8 SS 1234.9
CRT .1256 CRS -.1406 CST -.9998
LSA 3483.8 MSA 229.6 SSA 13.2
EL1 3257.7 EL2 228.9 ALF .51

LAUNCH DATE OCT 7 1965 FLIGHT TIME 216.00 ARRIVAL DATE MAY 11 1966

HELIOCENTRIC CONIC DISTANCE 602.506

RL 149.50 LAL .00 LOL 13.52 VL 26.933 GAL 9.35 AZL 87.90 HCA 280.37 SMA 126.39 ECC .24281 INC 2.1035 VI 29.804
RP 108.91 LAP -2.07 LOP 293.90 VP 37.244 GAP 11.62 AZP 89.62 TAL 147.34 TAP 67.71 RCA 95.70 APO 157.08 V2 34.795
RC 142.456 GL 9.46 GP 14.40 ZAL 34.79 ZAP 161.09 ETS 46.32 ZAE 119.30 ETE 171.40 ZAC 39.61 ETC 172.74 CLP-167.61

PLANETOCENTRIC CONIC

C3 35.229 VHL 5.935 DLA .91 RAL 337.88 RAD 6568.4 VEL 12.514 PTH 2.27 VHP 7.859 DPA -7.14 RAP 306.26 ECC 1.5798

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 43 46	2382.40	-23.26	52.40	209.09	106.63	9 23 28	1782.4	-20.76	44.62
90.00	20 55 15	4970.17	22.11	217.63	208.50	71.84	22 18 5	4370.2	19.42	209.99
100.00	10 5 32	2118.66	-24.48	32.59	208.68	107.71	10 40 50	1518.7	-21.83	24.80
100.00	22 16 10	4709.15	23.32	197.99	208.05	70.76	23 34 39	4109.1	20.49	190.34
110.00	11 14 44	1902.02	-27.78	14.87	207.39	110.77	11 46 26	1302.0	-24.70	7.05
110.00	23 23 27	4498.55	26.59	180.64	206.69	67.68	24 38 25	3898.6	23.33	172.99

DIFFERENTIAL CORRECTIONS
TDE 2.9645 TRA 5.7510 TC3-1.7483 BAU .8247
RDE .1621 RRA -.5909 RC3 .0984 FAU .01482
FDE 1.6188 FRA 3.0535 FC3 -.3643 BSP 21502
BDE 2.9690 BRA 5.7813 BC3 1.7510 FSP -1034

MID-COURSE EXECUTION ACCURACY
SGT 6582.1 SGR 603.0 SG3 290.7
RRT -.7463 RRF -.7333 RTF .9816
SGB 6609.7 R23 -.0029 R13 -.9816
SG1 6597.6 SG2 400.4 THA 176.07

ORBIT DETERMINATION ACCURACY
ST 3311.8 SR 231.9 SS 1219.2
CRT .2117 CRS -.2237 CST -.9999
LSA 3529.4 MSA 227.0 SSA 12.9
EL1 3312.2 EL2 226.7 ALF .85

LAUNCH DATE OCT 7 1965 FLIGHT TIME 218.00 ARRIVAL DATE MAY 13 1966

HELIOCENTRIC CONIC DISTANCE 607.899

RL 149.50 LAL .00 LOL 13.52 VL 26.909 GAL 9.95 AZL 87.72 HCA 283.53 SMA 126.24 ECC .25062 INC 2.2776 VI 29.804
RP 108.92 LAP -2.21 LOP 297.06 VP 37.223 GAP 12.23 AZP 89.47 TAL 146.36 TAP 69.89 RCA 94.60 APO 157.87 V2 34.791
RC 144.737 GL 9.76 GP 13.89 ZAL 34.06 ZAP 162.29 ETS 48.62 ZAE 118.97 ETE 171.74 ZAC 41.47 ETC 171.98 CLP-168.91

PLANETOCENTRIC CONIC

C3 38.607 VHL 6.213 DLA 1.50 RAL 338.53 RAD 6568.5 VEL 12.648 PTH 2.30 VHP 8.214 DPA -7.26 RAP 308.16 ECC 1.6354

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 42 0	2423.81	-24.03	55.19	211.61	105.44	9 22 24	1823.8	-21.68	47.30
90.00	21 2 14	4975.06	22.21	217.95	210.59	71.97	22 25 9	4375.1	19.54	210.29
100.00	10 4 3	2159.18	-25.29	35.33	211.21	106.49	10 40 2	1559.2	-22.79	27.42
100.00	22 22 52	4714.91	23.45	198.37	210.14	70.92	23 41 27	4114.9	20.63	190.71
110.00	11 13 53	1940.58	-28.68	17.50	209.98	109.45	11 46 14	1340.6	-25.76	9.54
110.00	23 29 31	4506.28	26.79	181.15	208.76	67.93	24 44 37	3906.3	23.55	173.48

DIFFERENTIAL CORRECTIONS
TDE 3.1545 TRA 6.0733 TC3-1.5783 BAU .8157
RDE .1849 RRA -.5783 RC3 .0819 FAU .01240
FDE 1.6025 FRA 3.0170 FC3 -.2780 BSP 21647
BDE 3.1599 BRA 6.1007 BC3 1.5804 FSP -973

MID-COURSE EXECUTION ACCURACY
SGT 6610.1 SGR 569.2 SG3 273.9
RRT -.7155 RRF -.7026 RTF .9816
SGB 6634.5 R23 -.0032 R13 -.9816
SG1 6622.6 SG2 396.9 THA 176.46

ORBIT DETERMINATION ACCURACY
ST 3360.0 SR 233.9 SS 1204.6
CRT .2888 CRS -.2382 CST -.9999
LSA 3570.0 MSA 224.1 SSA 12.7
EL1 3360.7 EL2 223.9 ALF 1.16

LAUNCH DATE OCT 7 1965 FLIGHT TIME 220.00 ARRIVAL DATE MAY 15 1966

HELIOCENTRIC CONIC DISTANCE 613.198

RL 149.50 LAL .00 LOL 13.52 VL 26.885 GAL 10.59 AZL 87.54 HCA 286.68 SMA 126.08 ECC .25913 INC 2.4564 VI 29.804
RP 108.93 LAP -2.35 LOP 300.22 VP 37.203 GAP 12.86 AZP 89.29 TAL 145.40 TAP 72.08 RCA 93.41 APO 158.75 V2 34.788
RC 147.008 GL 10.01 GP 13.42 ZAL 33.35 ZAP 163.42 ETS 51.24 ZAE 118.65 ETE 172.05 ZAC 43.34 ETC 171.34 CLP-170.18

PLANETOCENTRIC CONIC

C3 42.432 VHL 6.514 DLA 2.03 RAL 339.18 RAD 6568.6 VEL 12.798 PTH 2.33 VHP 8.595 DPA -7.31 RAP 310.07 ECC 1.6983

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 40 36	2464.27	-24.74	57.94	214.18	104.23	9 21 41	1864.3	-22.54	49.96
90.00	21 8 47	4982.29	22.37	218.43	212.74	72.17	22 31 49	4382.3	19.72	210.75
100.00	10 2 54	2198.84	-26.03	38.05	213.80	105.24	10 39 32	1598.8	-23.68	30.03
100.00	22 29 10	4722.95	23.63	198.90	212.28	71.14	23 47 53	4122.9	20.84	191.22
110.00	11 13 19	1978.44	-29.51	20.14	212.63	108.09	11 46 17	1378.4	-26.75	12.03
110.00	23 35 15	4516.11	27.04	181.80	210.89	68.24	24 50 31	3916.1	23.84	174.10

DIFFERENTIAL CORRECTIONS
TDE 3.3570 TRA 6.4196 TC3-1.4105 BAU .8010
RDE .2080 RRA -.5653 RC3 .0672 FAU .00999
FDE 1.5901 FRA 2.9880 FC3 -.2039 BSP 21697
BDE 3.3634 BRA 6.4445 BC3 1.4121 FSP -913

MID-COURSE EXECUTION ACCURACY
SGT 6634.7 SGR 537.3 SG3 258.4
RRT -.6822 RRF -.6696 RTF .9817
SGB 6656.4 R23 -.0033 R13 -.9817
SG1 6644.8 SG2 392.2 THA 176.83

ORBIT DETERMINATION ACCURACY
ST 3405.1 SR 236.1 SS 1192.5
CRT .3570 CRS -.3642 CST -.9999
LSA 3608.9 MSA 220.6 SSA 12.5
EL1 3406.2 EL2 220.5 ALF 1.42

LAUNCH DATE OCT 8 1965 FLIGHT TIME 70.00 ARRIVAL DATE DEC 17 1965

HELIOCENTRIC CONIC DISTANCE 138.604

RL	149.46	LAL	.00	LOL	14.51	VL	18.107	GAL	16.75	AZL	91.27	HCA	46.21	SMA	91.65	ECC	.66927	INC	1.2715	V1	29.813
RP	107.96	LAP	-.92	LOP	60.71	VP	31.788	GAP	-40.97	AZP	90.88	TAL	171.24	TAP	217.45	RCA	30.31	APO	152.99	V2	35.101
RC	65.751	GL	-1.61	GP	-4.24	ZAL	65.39	ZAP	28.72	ETS	168.91	ZAE	141.72	ETE	183.88	ZAC	18.83	ETC	97.89	CLP	28.43

PLANETOCENTRIC CONIC

C3	188.461	VHL	13.728	DLA	-19.52	RAL	312.02	RAD	6571.0	VEL	17.601	PTH	2.97	VHP	23.509	DPA	-28.41	RAP	268.69	ECC	4.1016

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 47 33	2065.90	-15.71	32.28	204.63	113.87	10 21 59	1465.9	-12.35	25.21
90.00	16 17 16	737.81	23.05	314.23	218.72	106.92	16 29 34	137.8	25.15	306.19
100.00	10 56 40	1842.89	-17.65	14.98	203.71	114.52	11 27 23	1242.9	-14.20	7.89
100.00	17 50 51	5724.08	25.09	270.62	219.40	106.81	19 26 15	5124.1	27.15	262.42
110.00	11 38 32	1711.70	-22.57	2.54	201.22	116.38	12 7 3	1111.7	-18.84	355.39
110.00	19 25 28	5428.04	30.30	249.90	221.17	106.63	20 55 56	4828.0	32.28	241.24

DIFFERENTIAL CORRECTIONS

TDE	-.4929	TRA	-1.6364	TC3	-.1189	BAU	.3000														
RDE	-.3985	RRA	.4001	RC3	-.0057	FAU	.01279														
FDE	.2285	FRA	.6656	FC3	-.0587	BSP	2168														
BDE	1.1136	BRA	1.6846	BC3	.1191	FSP	-63														

MID-COURSE EXECUTION ACCURACY

SGT	821.0	SGR	453.1	SG3	30.2						
RRT	-.1009	RRF	.0950	RTF	-.6297						
SGB	937.7	R23	-.0042	R13	.6305						
SG1	822.8	SG2	449.8	THA	175.45						

ORBIT DETERMINATION ACCURACY

ST	299.4	SR	420.1	SS	264.3						
CRT	.5896	CRS	.6408	CST	.9954						
LSA	520.5	MSA	254.8	SSA	13.8						
EL1	468.0	EL2	217.1	ALF	60.17						

LAUNCH DATE OCT 8 1965 FLIGHT TIME 72.00 ARRIVAL DATE DEC 19 1965

HELIOCENTRIC CONIC DISTANCE 144.554

RL	149.46	LAL	.00	LOL	14.51	VL	18.778	GAL	16.06	AZL	90.96	HCA	49.42	SMA	93.24	ECC	.64200	INC	.9649	V1	29.813
RP	107.92	LAP	-.73	LOP	63.92	VP	32.189	GAP	-39.07	AZP	90.63	TAL	170.54	TAP	219.96	RCA	33.38	APO	153.11	V2	35.114
RC	63.722	GL	-1.33	GP	-4.37	ZAL	64.19	ZAP	27.23	ETS	168.16	ZAE	142.16	ETE	184.69	ZAC	19.35	ETC	102.69	CLP	26.90

PLANETOCENTRIC CONIC

C3	170.915	VHL	13.073	DLA	-18.94	RAL	313.15	RAD	6570.9	VEL	17.095	PTH	2.93	VHP	22.569	DPA	-28.65	RAP	270.60	ECC	3.8128

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 45 43	2073.61	-15.92	32.75	204.66	113.73	10 20 17	1473.6	-12.57	25.67
90.00	16 28 11	697.97	23.81	311.56	218.62	105.80	16 39 49	98.0	25.75	303.43
100.00	10 55 28	1848.52	-17.81	15.32	203.78	114.41	11 26 17	1248.5	-14.37	8.22
100.00	18 1 7	5686.33	25.81	268.04	219.24	105.63	19 35 53	5086.3	27.70	259.75
110.00	11 38 35	1713.46	-22.62	2.65	201.35	116.34	12 7 8	1113.5	-18.90	355.49
110.00	19 34 30	5394.15	30.94	247.47	220.85	105.32	21 4 24	4794.2	32.73	238.70

DIFFERENTIAL CORRECTIONS

TDE	-.5032	TRA	-1.6474	TC3	-.1264	BAU	.2893														
RDE	-.9554	RRA	.4001	RC3	-.0076	FAU	.01294														
FDE	.2449	FRA	.6917	FC3	-.0655	BSP	2280														
BDE	1.0799	BRA	1.6953	BC3	.1266	FSP	-69														

MID-COURSE EXECUTION ACCURACY

SGT	860.5	SGR	458.4	SG3	32.7						
RRT	-.1081	RRF	.1028	RTF	-.6492						
SGB	975.0	R23	-.0055	R13	.6500						
SG1	862.5	SG2	454.6	THA	175.44						

ORBIT DETERMINATION ACCURACY

ST	318.1	SR	422.4	SS	281.2						
CRT	.5926	CRS	.6501	CST	.9951						
LSA	538.5	MSA	261.8	SSA	14.1						
EL1	477.8	EL2	226.5	ALF	57.94						

LAUNCH DATE OCT 8 1965 FLIGHT TIME 74.00 ARRIVAL DATE DEC 21 1965

HELIOCENTRIC CONIC DISTANCE 150.595

RL	149.46	LAL	.00	LOL	14.51	VL	19.406	GAL	15.38	AZL	90.69	HCA	52.63	SMA	94.84	ECC	.61535	INC	.6862	V1	29.813
RP	107.89	LAP	-.55	LOP	67.14	VP	32.572	GAP	-37.27	AZP	90.42	TAL	169.85	TAP	222.49	RCA	36.48	APO	153.20	V2	35.126
RC	61.731	GL	-1.03	GP	-4.51	ZAL	63.05	ZAP	25.76	ETS	167.32	ZAE	142.69	ETE	185.60	ZAC	20.02	ETC	107.26	CLP	25.39

PLANETOCENTRIC CONIC

C3	155.082	VHL	12.453	DLA	-18.34	RAL	314.22	RAD	6570.7	VEL	16.626	PTH	2.89	VHP	21.663	DPA	-28.87	RAP	272.54	ECC	3.5523

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 43 37	2080.65	-16.11	33.18	204.59	113.61	10 18 17	1480.7	-12.78	26.08
90.00	16 38 47	657.28	24.54	308.80	218.35	104.60	16 49 44	57.3	26.30	300.58
100.00	10 53 59	1853.58	-17.95	15.63	203.74	114.31	11 24 52	1253.6	-14.52	8.52
100.00	18 11 6	5647.62	26.49	265.37	218.91	104.38	19 45 13	5047.6	28.21	256.99
110.00	11 38 17	1714.74	-22.66	2.73	201.36	116.30	12 6 52	1114.7	-18.94	355.57
110.00	19 43 17	5359.22	31.54	244.92	220.36	103.92	21 12 36	4759.2	33.13	236.05

DIFFERENTIAL CORRECTIONS

TDE	-.5109	TRA	-1.6565	TC3	-.1333	BAU	.2771														
RDE	-.9127	RRA	.3990	RC3	-.0097	FAU	.01312														
FDE	.2617	FRA	.7182	FC3	-.0732	BSP	2444														
BDE	1.0460	BRA	1.7039	BC3	.1337	FSP	-77														

MID-COURSE EXECUTION ACCURACY

SGT	900.1	SGR	463.0	SG3	35.5						
RRT	-.1165	RRF	.1114	RTF	-.6683						
SGB	1012.2	R23	-.0063	R13	.6691						
SG1	902.3	SG2	458.7	THA	175.37						

ORBIT DETERMINATION ACCURACY

ST	336.7	SR	423.9	SS	298.5						
CRT	.5937	CRS	.6581	CST	.9945						
LSA	556.8	MSA	268.2	SSA	14.3						
EL1	487.4	EL2	235.7	ALF	55.69						

LAUNCH DATE OCT 8 1965 FLIGHT TIME 76.00 ARRIVAL DATE DEC 23 1965

HELIOCENTRIC CONIC DISTANCE 156.722

RL	149.46	LAL	.00	LOL	14.51	VL	19.992	GAL	14.71	AZL	90.43	HCA	55.85	SMA	96.43	ECC	.58939	INC	.4302	V1	29.813
RP	107.85	LAP	-.36	LOP	70.36	VP	32.937	GAP	-35.55	AZP	90.24	TAL	169.19	TAP	225.04	RCA	39.60	APO	153.27	V2	35.138
RC	59.781	GL	-.70	GP	-4.67	ZAL	61.97	ZAP	24.32	ETS	166.35	ZAE	143.32	ETE	186.61	ZAC	20.83	ETC	111.54	CLP	23.90

PLANETOCENTRIC CONIC

C3	140.783	VHL	11.865	DLA	-17.72	RAL	315.21	RAD	6570.5	VEL	16.190	PTH	2.84	VHP	20.790	DPA	-29.08	RAP	274.50	ECC	3.3169

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 41 13	2087.09	-16.28	33.57	204.41	113.49	10 16 0	1487.1	-12.97	26.46
90.00	16 49 5	615.69	25.22	305.95	217.90	103.32	16 59 21	15.7	26.81	297.64
100.00	10 52 11	1858.11	-18.08	15.90	203.58	114.22	11 23 9	1258.1	-14.66	8.78
100.00	18 20 48	5607.95	27.13	262.59	218.40	103.06	19 54 16	5007.9	28.66	254.12
110.00	11 37 40	1715.58	-22.69	2.78	201.26	116.28	12 6 16	1115.6	-18.97	355.61
110.00	19 51 48	5323.24	32.10	242.26	219.69	102.44	21 20 31	4723.2	33.48	233.30

DIFFERENTIAL CORRECTIONS

TDE	-.5176	TRA	-1.6654	TC3	-.1400	BAU	.2644														
RDE	-.8704	RRA	.3971	RC3	-.0123	FAU	.01333														
FDE	.2789	FRA	.7454	FC3	-.0820	BSP	2620														
BDE	1.0126	BRA	1.7121	BC3	.1405	FSP	-85														

MID-COURSE EXECUTION ACCURACY

SGT	941.0	SGR	466.9	SG3	38.5						
RRT	-.1257	RRF	.1208	RTF	-.6867						
SGB	1050.5	R23	-.0071	R13	.6875						
SG1	943.5	SG2	462.1	THA	175.30						

ORBIT DETERMINATION ACCURACY

ST	356.0	SR	424.6	SS	316.4						
CRT	.5938	CRS	.6653	CST	.9939						
LSA	576.0	MSA	274.1	SSA	14.5						
EL1	497.2	EL2	244.6	ALF	53.31						

LAUNCH DATE OCT 8 1965 FLIGHT TIME 78.00 ARRIVAL DATE DEC 25 1965

HELIOCENTRIC CONIC DISTANCE 162.928

RL	149.46	LAL	.00	LOL	14.51	VL	20.540	GAL	14.07	AZL	90.19	HCA	59.07	SMA	98.01	ECC	.56419	INC	.1926	V1	29.813
RP	107.81	LAP	-.17	LOP	73.58	VP	33.285	GAP	-33.92	AZP	90.10	TAL	168.55	TAP	227.62	RCA	42.71	APO	153.31	V2	35.149
RC	57.879	GL	-.34	GP	-4.84	ZAL	60.95	ZAP	22.91	ETS	165.24	ZAE	144.07	ETE	187.76	ZAC	21.77	ETC	115.52	CLP	22.42

PLANETOCENTRIC CONIC

C3 127.858 VHL 11.307 DLA -17.08 RAL 316.12 RAD 6570.4 VEL 15.786 PTH 2.80 VHP 19.947 DPA -29.28 RAP 276.49 ECC 3.1042

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 38 30	2093.01	-16.45	33.93	204.12	113.38	10 13 23	1493.0	-13.14	26.81
90.00	16 59 6	5861.21	25.85	280.90	217.28	101.97	18 36 47	5261.2	27.25	272.51
100.00	10 50 3	1862.17	-18.19	16.15	203.31	114.14	11 21 5	1262.2	-14.78	9.02
100.00	18 30 14	5567.28	27.72	259.72	217.72	101.65	20 3 2	4967.3	29.05	251.16
110.00	11 36 42	1716.03	-22.70	2.81	201.05	116.27	12 5 18	1116.0	-18.99	355.64
110.00	20 0 5	5286.19	32.61	239.49	218.84	100.88	21 28 11	4686.2	33.76	230.45

DIFFERENTIAL CORRECTIONS

TDE	-.5261	TRA	-1.6766	TC3	-.1470	BAU	.2527
RDE	-.8285	RRA	.3945	RC3	-.0153	FAU	.01355
FDE	.2972	FRA	.7737	FC3	-.0917	BSP	2743
BDE	.9814	BRA	1.7224	BC3	.1478	FSP	-93

MID-COURSE EXECUTION ACCURACY

SGT	985.7	SGR	470.3	SG3	41.8		
RRT	-.1348	RRF	.1308	RTF	-.7041		
SGB	1092.1	R23	-.0088	R13	.7050		
SG1	988.3	SG2	464.8	THA	175.27		

ORBIT DETERMINATION ACCURACY

ST	377.2	SR	424.5	SS	335.3		
CRT	.5946	CRS	.6719	CST	.9933		
LSA	597.2	MSA	279.2	SSA	14.7		
EL1	508.2	EL2	253.3	ALF	50.63		

LAUNCH DATE OCT 8 1965 FLIGHT TIME 80.00 ARRIVAL DATE DEC 27 1965

HELIOCENTRIC CONIC DISTANCE 169.209

RL	149.46	LAL	.00	LOL	14.51	VL	21.052	GAL	13.44	AZL	89.97	HCA	62.29	SMA	99.58	ECC	.53979	INC	.0271	V1	29.813
RP	107.78	LAP	.03	LOP	76.80	VP	33.615	GAP	-32.36	AZP	89.99	TAL	167.94	TAP	230.23	RCA	45.83	APO	153.33	V2	35.160
RC	56.028	GL	.05	GP	-5.02	ZAL	59.99	ZAP	21.52	ETS	163.95	ZAE	144.92	ETE	189.06	ZAC	22.82	ETC	119.16	CLP	20.95

PLANETOCENTRIC CONIC

C3 116.168 VHL 10.778 DLA -16.43 RAL 316.97 RAD 6570.2 VEL 15.411 PTH 2.75 VHP 19.134 DPA -29.47 RAP 278.51 ECC 2.9118

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 35 29	2098.49	-16.59	34.26	203.72	113.28	10 10 27	1498.5	-13.30	27.13
90.00	17 8 50	5817.74	26.43	277.85	216.49	100.55	18 45 48	5217.7	27.62	269.38
100.00	10 47 35	1865.85	-18.29	16.38	202.93	114.06	11 18 41	1265.9	-14.89	9.24
100.00	18 39 25	5525.61	28.26	256.74	216.86	100.17	20 11 31	4925.6	29.37	248.11
110.00	11 35 22	1716.15	-22.70	2.81	200.72	116.27	12 3 58	1116.1	-18.99	355.65
110.00	20 8 7	5248.08	33.06	236.61	217.82	99.23	21 35 35	4648.1	33.98	227.49

DIFFERENTIAL CORRECTIONS

TDE	-.5319	TRA	-1.6855	TC3	-.1531	BAU	.2395
RDE	-.7871	RRA	.3912	RC3	-.0188	FAU	.01381
FDE	.3159	FRA	.8026	FC3	-.1029	BSP	2920
BDE	.9499	BRA	1.7303	BC3	.1542	FSP	-103

MID-COURSE EXECUTION ACCURACY

SGT	1030.3	SGR	473.0	SG3	45.3		
RRT	-.1454	RRF	.1419	RTF	-.7211		
SGB	1133.7	R23	-.0101	R13	.7220		
SG1	1033.1	SG2	466.7	THA	175.20		

ORBIT DETERMINATION ACCURACY

ST	398.2	SR	423.4	SS	354.7		
CRT	.5936	CRS	.6776	CST	.9925		
LSA	618.9	MSA	283.6	SSA	14.8		
EL1	519.2	EL2	261.4	ALF	47.95		

LAUNCH DATE OCT 8 1965 FLIGHT TIME 82.00 ARRIVAL DATE DEC 29 1965

HELIOCENTRIC CONIC DISTANCE 175.558

RL	149.46	LAL	.00	LOL	14.51	VL	21.530	GAL	12.83	AZL	89.76	HCA	65.52	SMA	101.12	ECC	.51623	INC	.2374	V1	29.813
RP	107.75	LAP	.22	LOP	80.03	VP	33.927	GAP	-30.87	AZP	89.90	TAL	167.35	TAP	232.87	RCA	48.92	APO	153.33	V2	35.171
RC	54.237	GL	.49	GP	-5.22	ZAL	59.09	ZAP	20.16	ETS	162.44	ZAE	145.88	ETE	190.54	ZAC	23.98	ETC	122.49	CLP	19.50

PLANETOCENTRIC CONIC

C3 105.592 VHL 10.276 DLA -15.75 RAL 317.73 RAD 6570.0 VEL 15.064 PTH 2.71 VHP 18.349 DPA -29.66 RAP 280.54 ECC 2.7378

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 32 7	2103.65	-16.73	34.58	203.21	113.18	10 7 10	1503.6	-13.45	27.44
90.00	17 18 19	5773.28	26.95	274.69	215.52	99.05	18 54 32	5173.3	27.92	266.16
100.00	10 44 45	1869.26	-18.39	16.59	202.45	113.99	11 15 55	1269.3	-14.99	9.44
100.00	18 48 21	5482.90	28.73	253.65	215.84	98.62	20 19 44	4882.9	29.63	244.96
110.00	11 33 40	1716.04	-22.70	2.81	200.29	116.27	12 2 16	1116.0	-18.99	355.64
110.00	20 15 56	5208.89	33.45	233.62	216.62	97.50	21 42 45	4608.9	34.12	224.44

DIFFERENTIAL CORRECTIONS

TDE	-.5369	TRA	-1.6938	TC3	-.1585	BAU	.2261
RDE	-.7462	RRA	.3874	RC3	-.0230	FAU	.01410
FDE	.3354	FRA	.8325	FC3	-.1156	BSP	3108
BDE	.9193	BRA	1.7375	BC3	.1602	FSP	-113

MID-COURSE EXECUTION ACCURACY

SGT	1076.4	SGR	475.1	SG3	49.2		
RRT	-.1570	RRF	.1541	RTF	-.7374		
SGB	1176.6	R23	-.0114	R13	.7384		
SG1	1079.6	SG2	467.8	THA	175.12		

ORBIT DETERMINATION ACCURACY

ST	420.0	SR	421.5	SS	375.0		
CRT	.5918	CRS	.6826	CST	.9916		
LSA	641.8	MSA	287.4	SSA	15.0		
EL1	530.8	EL2	268.8	ALF	45.17		

LAUNCH DATE OCT 8 1965 FLIGHT TIME 84.00 ARRIVAL DATE DEC 31 1965

HELIOCENTRIC CONIC DISTANCE 181.971

RL	149.46	LAL	.00	LOL	14.51	VL	21.977	GAL	12.24	AZL	89.56	HCA	68.75	SMA	102.65	ECC	.49353	INC	.4367	V1	29.813
RP	107.72	LAP	.41	LOP	83.26	VP	34.223	GAP	-29.45	AZP	89.84	TAL	166.80	TAP	235.55	RCA	51.99	APO	153.30	V2	35.181
RC	52.511	GL	.96	GP	-5.45	ZAL	58.25	ZAP	18.83	ETS	160.66	ZAE	146.96	ETE	192.25	ZAC	25.23	ETC	125.50	CLP	18.05

PLANETOCENTRIC CONIC

C3 96.021 VHL 9.799 DLA -15.05 RAL 318.42 RAD 6569.9 VEL 14.743 PTH 2.67 VHP 17.591 DPA -29.83 RAP 282.60 ECC 2.5803

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 28 23	2108.60	-16.86	34.88	202.60	113.09	10 3 31	1508.6	-13.59	27.73
90.00	17 27 33	5727.81	27.39	271.44	214.40	97.47	19 3 1	5127.8	28.14	262.86
100.00	10 41 33	1872.50	-18.48	16.79	201.86	113.92	11 12 46	1272.5	-15.09	9.63
100.00	18 57 3	5439.15	29.14	250.46	214.65	96.98	20 27 43	4839.1	29.80	241.72
110.00	11 31 35	1715.79	-22.69	2.79	199.75	116.28	12 0 11	1115.8	-18.98	355.63
110.00	20 23 31	5168.62	33.76	230.52	215.25	95.68	21 49 40	4568.6	34.18	221.30

DIFFERENTIAL CORRECTIONS

TDE	-.5414	TRA	-1.7013	TC3	-.1632	BAU	.2125
RDE	-.7059	RRA	.3831	RC3	-.0278	FAU	.01442
FDE	.3558	FRA	.8634	FC3	-.1300	BSP	3300
BDE	.8896	BRA	1.7439	BC3	.1655	FSP	-125

MID-COURSE EXECUTION ACCURACY

SGT	1124.1	SGR	476.6	SG3	53.4		
RRT	-.1697	RRF	.1675	RTF	-.7530		
SGB	1221.0	R23	-.0131	R13	.7540		
SG1	1127.6	SG2	468.2	THA	175.03		

ORBIT DETERMINATION ACCURACY

ST	442.5	SR	418.5	SS	396.1		
CRT	.5894	CRS	.6869	CST	.9906		
LSA	665.9	MSA	290.3	SSA	15.2		
EL1	543.3	EL2	275.4	ALF	42.30		

LAUNCH DATE OCT 8 1965 FLIGHT TIME 86.00 ARRIVAL DATE JAN 2 1966

DISTANCE 188.442

HELIOCENTRIC CONIC

RL 149.46 LAL .00 LOL 14.51 VL 22.395 GAL 11.66 AZL 89.37 HCA 71.98 SMA 104.14 ECC .47171 INC .6271 VI 29.813
RP 107.69 LAP .60 LOP 86.48 VP 34.503 GAP -28.08 AZP 89.81 TAL 166.29 TAP 238.26 RCA 55.02 APO 153.26 V2 35.191
RC 50.858 GL 1.47 GP -5.69 ZAL 57.48 ZAP 17.53 ETS 158.56 ZAE 148.13 ETE 194.22 ZAC 26.56 ETC 128.22 CLP 16.61

PLANETOCENTRIC CONIC

C3 87.361 VHL 9.347 DLA -14.33 RAL 319.03 RAD 6569.7 VEL 14.447 PTH 2.62 VHP 16.859 DPA -30.00 RAP 284.67 ECC 2.4377

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 24 15	2113.52	-16.99	35.18	201.88	113.00	9 59 29	1513.5	-13.74	28.02
90.00	17 36 34	5681.31	27.76	268.09	213.11	95.83	19 11 15	5081.3	28.28	259.46
100.00	10 37 57	1875.72	-18.57	16.98	201.17	113.86	11 9 13	1275.7	-15.19	9.82
100.00	19 5 33	5394.33	29.46	247.17	213.30	95.28	20 35 27	4794.3	29.88	238.39
110.00	11 29 6	1715.55	-22.69	2.78	199.11	116.28	11 57 41	1115.6	-18.97	355.61
110.00	20 30 54	5127.27	34.00	227.31	213.72	93.80	21 56 21	4527.3	34.15	218.07

DIFFERENTIAL CORRECTIONS

TDE -.5455 TRA-1.7084 TC3 -.1670 BAU .1988
RDE -.6661 RRA .3785 RC3 -.0333 FAU .01478
FDE .3773 FRA .8956 FC3 -.1465 BSP 3496
BDE .8609 BRA 1.7498 BC3 .1703 FSP -138

MID-COURSE EXECUTION ACCURACY

SGT 1173.6 SGR 477.4 SG3 57.9
RRT -.1836 RRF .1822 RTF -.7679
SGB 1267.0 R23 -.0149 R13 .7689
SG1 1177.5 SG2 467.8 THA 174.93

ORBIT DETERMINATION ACCURACY

ST 465.9 SR 414.6 SS 418.2
CRT .5863 CRS .6905 CST .9896
LSA 691.5 MSA 292.3 SSA 15.3
EL1 556.7 EL2 281.0 ALF 39.36

LAUNCH DATE OCT 8 1965 FLIGHT TIME 88.00 ARRIVAL DATE JAN 4 1966

DISTANCE 194.965

HELIOCENTRIC CONIC

RL 149.46 LAL .00 LOL 14.51 VL 22.785 GAL 11.11 AZL 89.19 HCA 75.21 SMA 105.60 ECC .45079 INC .8109 VI 29.813
RP 107.66 LAP .78 LOP 89.72 VP 34.767 GAP -26.77 AZP 89.79 TAL 165.81 TAP 241.02 RCA 58.00 APO 153.20 V2 35.200
RC 49.288 GL 2.03 GP -5.96 ZAL 56.77 ZAP 16.28 ETS 156.05 ZAE 149.41 ETE 196.51 ZAC 27.97 ETC 130.66 CLP 15.18

PLANETOCENTRIC CONIC

C3 79.528 VHL 8.918 DLA -13.57 RAL 319.57 RAD 6569.6 VEL 14.173 PTH 2.58 VHP 16.151 DPA -30.17 RAP 286.75 ECC 2.3088

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 19 43	2118.56	-17.13	35.49	201.08	112.90	9 55 2	1518.6	-13.88	28.32
90.00	17 45 23	5633.74	28.04	264.64	211.67	94.12	19 19 16	5033.7	28.32	255.98
100.00	10 33 56	1879.10	-18.66	17.19	200.38	113.79	11 5 15	1279.1	-15.29	10.02
100.00	19 13 51	5348.44	29.70	243.78	211.80	93.51	20 42 59	4748.4	29.87	234.98
110.00	11 26 11	1715.46	-22.68	2.77	198.37	116.29	11 54 46	1115.5	-18.97	355.61
110.00	20 38 5	5084.83	34.14	224.01	212.04	91.85	22 2 50	4484.8	34.02	214.76

DIFFERENTIAL CORRECTIONS

TDE -.5515 TRA-1.7169 TC3 -.1708 BAU .1864
RDE -.6268 RRA .3737 RC3 -.0398 FAU .01517
FDE .4004 FRA .9295 FC3 -.1651 BSP 3641
BDE .8349 BRA 1.7571 BC3 .1754 FSP -151

MID-COURSE EXECUTION ACCURACY

SGT 1227.2 SGR 477.7 SG3 62.9
RRT -.1979 RRF .1985 RTF -.7817
SGB 1316.9 R23 -.0180 R13 .7827
SG1 1231.5 SG2 466.7 THA 174.85

ORBIT DETERMINATION ACCURACY

ST 491.4 SR 409.5 SS 441.7
CRT .5838 CRS .6936 CST .9886
LSA 719.7 MSA 293.4 SSA 15.5
EL1 572.5 EL2 285.4 ALF 36.28

LAUNCH DATE OCT 8 1965 FLIGHT TIME 90.00 ARRIVAL DATE JAN 6 1966

DISTANCE 201.536

HELIOCENTRIC CONIC

RL 149.46 LAL .00 LOL 14.51 VL 23.150 GAL 10.57 AZL 89.01 HCA 78.44 SMA 107.03 ECC .43076 INC .9893 VI 29.813
RP 107.63 LAP .97 LOP 92.95 VP 35.015 GAP -25.51 AZP 89.80 TAL 165.36 TAP 243.81 RCA 60.92 APO 153.13 V2 35.209
RC 47.809 GL 2.65 GP -6.25 ZAL 56.12 ZAP 15.07 ETS 153.04 ZAE 150.78 ETE 199.19 ZAC 29.44 ETC 132.85 CLP 13.74

PLANETOCENTRIC CONIC

C3 72.443 VHL 8.511 DLA -12.79 RAL 320.03 RAD 6569.4 VEL 13.921 PTH 2.54 VHP 15.468 DPA -30.34 RAP 288.85 ECC 2.1922

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 14 44	2123.91	-17.27	35.82	200.18	112.79	9 50 8	1523.9	-14.03	28.64
90.00	17 54 1	5585.10	28.23	261.09	210.08	92.35	19 27 6	4985.1	28.26	252.43
100.00	10 29 28	1882.79	-18.76	17.42	199.50	113.71	11 0 51	1282.8	-15.40	10.24
100.00	19 21 58	5301.45	29.85	240.29	210.15	91.68	20 50 19	4701.5	29.76	231.49
110.00	11 22 49	1715.69	-22.69	2.79	197.55	116.28	11 51 25	1115.7	-18.97	355.62
110.00	20 45 6	5041.32	34.18	220.61	210.22	89.84	22 9 7	4441.3	33.78	211.39

DIFFERENTIAL CORRECTIONS

TDE -.5550 TRA-1.7223 TC3 -.1722 BAU .1729
RDE -.5882 RRA .3688 RC3 -.0472 FAU .01561
FDE .4245 FRA .9645 FC3 -.1866 BSP 3840
BDE .8087 BRA 1.7614 BC3 .1785 FSP -167

MID-COURSE EXECUTION ACCURACY

SGT 1280.2 SGR 477.6 SG3 68.4
RRT -.2147 RRF .2167 RTF -.7951
SGB 1366.4 R23 -.0206 R13 .7962
SG1 1284.9 SG2 464.7 THA 174.73

ORBIT DETERMINATION ACCURACY

ST 516.6 SR 403.3 SS 466.1
CRT .5794 CRS .6959 CST .9875
LSA 748.5 MSA 293.7 SSA 15.6
EL1 588.4 EL2 288.6 ALF 33.32

LAUNCH DATE OCT 8 1965 FLIGHT TIME 92.00 ARRIVAL DATE JAN 8 1966

DISTANCE 208.149

HELIOCENTRIC CONIC

RL 149.46 LAL .00 LOL 14.51 VL 23.490 GAL 10.05 AZL 88.84 HCA 81.68 SMA 108.41 ECC .41163 INC 1.1637 VI 29.813
RP 107.61 LAP 1.15 LOP 96.18 VP 35.249 GAP -24.30 AZP 89.83 TAL 164.96 TAP 246.64 RCA 63.79 APO 153.04 V2 35.217
RC 46.433 GL 3.31 GP -6.58 ZAL 55.54 ZAP 13.93 ETS 149.41 ZAE 152.21 ETE 202.35 ZAC 30.97 ETC 134.82 CLP 12.31

PLANETOCENTRIC CONIC

C3 66.040 VHL 8.127 DLA -11.97 RAL 320.41 RAD 6569.3 VEL 13.689 PTH 2.50 VHP 14.807 DPA -30.50 RAP 290.96 ECC 2.0869

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 9 16	2129.78	-17.42	36.18	199.20	112.68	9 44 46	1529.8	-14.20	28.99
90.00	18 2 29	5535.36	28.31	257.45	208.36	90.53	19 34 44	4935.4	28.09	248.80
100.00	10 24 31	1887.01	-18.88	17.68	198.54	113.62	10 55 58	1287.0	-15.52	10.49
100.00	19 29 55	5253.36	29.89	236.72	208.37	89.80	20 57 29	4653.4	29.54	227.93
110.00	11 19 0	1716.41	-22.71	2.83	196.64	116.26	11 47 36	1116.4	-19.00	355.66
110.00	20 51 56	4996.73	34.12	217.13	208.26	87.78	22 15 13	4396.7	33.44	207.95

DIFFERENTIAL CORRECTIONS

TDE -.5579 TRA-1.7266 TC3 -.1719 BAU .1595
RDE -.5502 RRA .3640 RC3 -.0557 FAU .01610
FDE .4503 FRA 1.0013 FC3 -.2111 BSP 4046
BDE .7836 BRA 1.7645 BC3 .1807 FSP -184

MID-COURSE EXECUTION ACCURACY

SGT 1334.6 SGR 476.9 SG3 74.3
RRT -.2334 RRF .2370 RTF -.8078
SGB 1417.3 R23 -.0234 R13 .8090
SG1 1339.9 SG2 461.9 THA 174.59

ORBIT DETERMINATION ACCURACY

ST 542.4 SR 395.8 SS 491.8
CRT .5740 CRS .6972 CST .9862
LSA 778.8 MSA 293.2 SSA 15.8
EL1 605.4 EL2 290.3 ALF 30.42

LAUNCH DATE OCT 8 1965 FLIGHT TIME 94.00 ARRIVAL DATE JAN 10 1966

HELIOCENTRIC CONIC DISTANCE 214,800

RL	149.46	LAL	.00	LOL	14.51	VL	23,808	GAL	9.55	AZL	88.66	HCA	84.91	SMA	109.76	ECC	.39340	INC	1.3353	V1	29.813
RP	107.58	LAP	1.33	LOP	99.42	VP	35,469	GAP	-23.14	AZP	89.88	TAL	164.60	TAP	249.51	RCA	66.58	APO	152.94	V2	35.224
RC	45.168	GL	4.04	GP	-6.93	ZAL	55.03	ZAP	12.87	ETS	145.01	ZAE	153.68	ETE	206.09	ZAC	32.55	ETC	136.57	CLP	10.87

PLANETOCENTRIC CONIC

C3	60.259	VHL	7.763	DLA	-11.11	RAL	320.70	RAD	6569.1	VEL	13.476	PTH	2.46	VHP	14.170	DPA	-30.68	RAP	293.07	ECC	1.9917

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 3 18	2136.42	-17.60	36.59	198.14	112.55	9 38 54	1536.4	-14.39	29.38
90.00	18 10 50	5484.50	28.29	253.73	206.52	88.67	19 42 14	4884.5	27.80	245.10
100.00	10 19 4	1891.99	-19.01	17.99	197.50	113.51	10 50 36	1292.0	-15.67	10.79
100.00	19 37 45	5204.17	29.82	233.06	206.47	87.88	21 4 29	4604.2	29.21	224.31
110.00	11 14 40	1717.85	-22.75	2.92	195.65	116.22	11 43 18	1117.9	-19.05	355.75
110.00	20 58 38	4951.07	33.94	213.57	206.20	85.68	22 21 9	4351.1	32.97	204.47

DIFFERENTIAL CORRECTIONS

TDE	-.5608	TRA	-1.7298	TC3	-.1697	BAU	.1465												
RDE	-.5126	RRA	.3594	RC3	-.0654	FAU	.01664												
FDE	.4781	FRA	1.0400	FC3	-.2391	BSP	4257												
BDE	.7598	BRA	1.7668	BC3	.1818	FSP	-202												

MID-COURSE EXECUTION ACCURACY

SGT	1390.6	SGR	476.0	SG3	80.8														
RRT	-.2544	RRF	.2598	RTF	-.8199														
SGB	1469.8	R23	-.0267	R13	.8212														
SG1	1396.5	SG2	458.4	THA	174.42														

ORBIT DETERMINATION ACCURACY

ST	569.0	SR	387.0	SS	519.0														
CRT	.5676	CRS	.6977	CST	.9849														
LSA	810.9	MSA	291.8	SSA	15.9														
EL1	623.7	EL2	290.6	ALF	27.58														

LAUNCH DATE OCT 8 1965 FLIGHT TIME 96.00 ARRIVAL DATE JAN 12 1966

HELIOCENTRIC CONIC DISTANCE 221,483

RL	149.46	LAL	.00	LOL	14.51	VL	24,104	GAL	9.07	AZL	88.49	HCA	88.15	SMA	111.06	ECC	.37605	INC	1.5053	V1	29.813
RP	107.56	LAP	1.50	LOP	102.66	VP	35,675	GAP	-22.02	AZP	89.95	TAL	164.28	TAP	252.43	RCA	69.30	APO	152.83	V2	35.231
RC	44.025	GL	4.83	GP	-7.32	ZAL	54.60	ZAP	11.92	ETS	139.70	ZAE	155.14	ETE	210.54	ZAC	34.18	ETC	138.13	CLP	9.43

PLANETOCENTRIC CONIC

C3	55.044	VHL	7.419	DLA	-10.21	RAL	320.92	RAD	6569.0	VEL	13.282	PTH	2.43	VHP	13.554	DPA	-30.86	RAP	295.19	ECC	1.9059

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 56 46	2144.07	-17.80	37.07	197.00	112.39	9 32 30	1544.1	-14.61	29.84
90.00	18 19 4	5432.50	28.15	249.94	204.57	86.77	19 49 37	4832.5	27.40	241.35
100.00	10 13 3	1897.97	-19.17	18.36	196.39	113.38	10 44 41	1298.0	-15.85	11.15
100.00	19 45 28	5153.84	29.64	229.33	204.47	85.92	21 11 22	4553.8	28.76	220.64
110.00	11 9 49	1720.23	-22.83	3.07	194.59	116.16	11 38 29	1120.2	-19.12	355.89
110.00	21 5 12	4904.34	33.64	209.96	204.03	83.56	22 26 56	4304.3	32.39	200.95

DIFFERENTIAL CORRECTIONS

TDE	-.5637	TRA	-1.7319	TC3	-.1652	BAU	.1340												
RDE	-.4756	RRA	.3551	RC3	-.0765	FAU	.01725												
FDE	.5082	FRA	1.0808	FC3	-.2712	BSP	4471												
BDE	.7375	BRA	1.7679	BC3	.1821	FSP	-223												

MID-COURSE EXECUTION ACCURACY

SGT	1447.9	SGR	474.8	SG3	87.9														
RRT	-.2777	RRF	.2854	RTF	-.8313														
SGB	1523.8	R23	-.0305	R13	.8327														
SG1	1454.5	SG2	454.0	THA	174.23														

ORBIT DETERMINATION ACCURACY

ST	596.5	SR	376.7	SS	547.9														
CRT	.5601	CRS	.6970	CST	.9836														
LSA	844.9	MSA	289.5	SSA	16.0														
EL1	643.4	EL2	289.3	ALF	24.82														

LAUNCH DATE OCT 8 1965 FLIGHT TIME 98.00 ARRIVAL DATE JAN 14 1966

HELIOCENTRIC CONIC DISTANCE 228,195

RL	149.46	LAL	.00	LOL	14.51	VL	24,379	GAL	8.61	AZL	88.33	HCA	91.39	SMA	112.32	ECC	.35957	INC	1.6747	V1	29.813
RP	107.55	LAP	1.67	LOP	105.90	VP	35,868	GAP	-20.94	AZP	90.04	TAL	164.01	TAP	255.40	RCA	71.93	APO	152.71	V2	35.237
RC	43.015	GL	5.70	GP	-7.76	ZAL	54.24	ZAP	11.11	ETS	133.35	ZAE	156.54	ETE	215.81	ZAC	35.84	ETC	139.52	CLP	7.98

PLANETOCENTRIC CONIC

C3	50.347	VHL	7.096	DLA	-9.26	RAL	321.05	RAD	6568.9	VEL	13.104	PTH	2.39	VHP	12.960	DPA	-31.06	RAP	297.31	ECC	1.8286

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 49 39	2153.01	-18.03	37.62	195.81	112.21	9 25 32	1553.0	-14.86	30.38
90.00	18 27 14	5379.33	27.88	246.07	202.53	84.85	19 56 54	4779.3	26.88	237.55
100.00	10 6 28	1905.21	-19.37	18.81	195.22	113.22	10 38 13	1305.2	-16.06	11.58
100.00	19 53 7	5102.37	29.33	225.54	202.37	83.95	21 18 9	4502.4	28.18	216.92
110.00	11 4 24	1723.81	-22.93	3.29	193.47	116.07	11 33 8	1123.8	-19.24	356.10
110.00	21 11 40	4856.54	33.22	206.29	201.79	81.43	22 32 37	4256.5	31.68	197.40

DIFFERENTIAL CORRECTIONS

TDE	-.5669	TRA	-1.7328	TC3	-.1581	BAU	.1222												
RDE	-.4390	RRA	.3513	RC3	-.0892	FAU	.01791												
FDE	.5409	FRA	1.1240	FC3	-.3079	BSP	4689												
BDE	.7170	BRA	1.7680	BC3	.1815	FSP	-246												

MID-COURSE EXECUTION ACCURACY

SGT	1506.5	SGR	473.6	SG3	95.7														
RRT	-.3038	RRF	.3141	RTF	-.8422														
SGB	1579.2	R23	-.0349	R13	.8436														
SG1	1514.0	SG2	448.9	THA	174.02														

ORBIT DETERMINATION ACCURACY

ST	624.9	SR	364.8	SS	578.6														
CRT	.5511	CRS	.6948	CST	.9822														
LSA	881.0	MSA	286.3	SSA	16.1														
EL1	664.6	EL2	286.3	ALF	22.15														

LAUNCH DATE OCT 8 1965 FLIGHT TIME 100.00 ARRIVAL DATE JAN 16 1966

HELIOCENTRIC CONIC DISTANCE 234,931

RL	149.46	LAL	.00	LOL	14.51	VL	24.636	GAL	8.16	AZL	88.16	HCA	94.63	SMA	113.53	ECC	.34395	INC	1.8447	V1	29.813
RP	107.53	LAP	1.84	LOP	109.14	VP	36,048	GAP	-19.90	AZP	90.15	TAL	163.78	TAP	258.41	RCA	74.48	APO	152.58	V2	35.242
RC	42.147	GL	6.64	GP	-8.24	ZAL	53.95	ZAP	10.50	ETS	125.90	ZAE	157.81	ETE	222.03	ZAC	37.54	ETC	140.74	CLP	6.52

PLANETOCENTRIC CONIC

C3	46.122	VHL	6.791	DLA	-8.25	RAL	321.10	RAD	6568.7	VEL	12.942	PTH	2.36	VHP	12.387	DPA	-31.28	RAP	299.43	ECC	1.7591

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 41 54	2163.55	-18.30	38.28	194.57	111.99	9 17 57	1563.5	-15.15	31.01
90.00	18 35 22	5324.97	27.49	242.14	200.42	82.92	20 4 7	4725.0	26.22	233.70
100.00	9 59 15	1914.01	-19.60	19.36	194.00	113.03	10 31 9	1314.0	-16.32	12.10
100.00	20 0 42	5049.74	28.89	221.69	200.20	81.97	21 24 52	4449.7	27.48	213.17
110.00	10 58 23	1728.84	-23.08	3.60	192.29	115.94	11 27 12	1128.8	-19.41	356.40
110.00	21 18 3	4807.67	32.66	202.58	199.48	79.31	22 38 11	4207.7	30.84	193.84

DIFFERENTIAL CORRECTIONS

TDE	-.5700	TRA	-1.7324	TC3	-.1480	BAU	.1114												
RDE	-.4027	RRA	.3482	RC3	-.1036	FAU	.01864												
FDE	.5766	FRA	1.1698	FC3	-.3498	BSP	4905												
BDE	.6979	BRA	1.7671	BC3	.1806	FSP	-270												

MID-COURSE EXECUTION ACCURACY

SGT	1566.2	SGR	472.6	SG3	104.3														
RRT	-.3334	RRF	.3465	RTF	-.8523														
SGB	1635.9	R23	-.0398	R13	.8540														
SG1	1574.7	SG2	443.1	THA	173.76														

ORBIT DETERMINATION ACCURACY

ST	653.9	SR	351.2	SS	611.4														
CRT	.5396	CRS	.6906	CST	.9808														
LSA	919.2	MSA	282.3	SSA	16.2														
EL1	686.8	EL2	281.5	ALF	19.59														

LAUNCH DATE OCT 8 1965 FLIGHT TIME 102.00 ARRIVAL DATE JAN 18 1966

DISTANCE 241.686

HELIOCENTRIC CONIC

RL	149.46	LAL	.00	LOL	14.51	VL	24.876	GAL	7.74	AZL	87.98	HCA	97.87	SMA	114.69	ECC	.32918	INC	2.0162	V1	29.813
RP	107.51	LAP	2.00	LOP	112.38	VP	36.216	GAP	-18.89	AZP	90.28	TAL	163.60	TAP	261.47	RCA	76.94	APO	152.44	V2	35.247
RC	41.430	GL	7.66	GP	-8.78	ZAL	53.75	ZAP	10.12	ETS	117.45	ZAE	158.84	ETE	229.23	ZAC	39.27	ETC	141.82	CLP	5.05

PLANETOCENTRIC CONIC

C3 42.331 VHL 6.506 DLA -7.19 RAL 321.06 RAD 6568.6 VEL 12.794 PTH 2.33 VHP 11.835 DPA -31.53 RAP 301.56 ECC 1.6967

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 33 28	2175.98	-18.61	39.05	193.28	111.73	9 9 44	1576.0	-15.50	31.76
90.00	18 43 30	5269.37	26.96	238.16	198.24	80.99	20 11 19	4669.4	25.44	229.82
100.00	9 51 22	1924.68	-19.89	20.02	192.73	112.79	10 23 26	1324.7	-16.63	12.74
100.00	20 8 17	4995.91	28.32	217.79	197.98	80.00	21 31 33	4395.9	26.64	209.39
110.00	10 51 44	1735.63	-23.29	4.03	191.08	115.76	11 20 40	1135.6	-19.63	356.80
110.00	21 24 23	4757.72	31.97	198.85	197.13	77.20	22 43 41	4157.7	29.88	190.27

DIFFERENTIAL CORRECTIONS

TDE	-.5740	TRA	-1.7307	TC3	-.1345	BAU	.1020
RDE	-.3666	RRA	.3461	RC3	-.1199	FAU	.01944
FDE	.6161	FRA	1.2185	FC3	-.3975	BSP	5132
BDE	.6810	BRA	1.7649	BC3	.1802	FSP	-298

MID-COURSE EXECUTION ACCURACY

SGT	1626.6	SGR	472.1	SG3	113.7		
RRT	-.3665	RRF	.3828	RTF	-.8620		
SGB	1693.8	R23	-.0455	R13	.8638		
SG1	1636.5	SG2	436.6	THA	173.46		

ORBIT DETERMINATION ACCURACY

ST	684.0	SR	335.7	SS	646.7		
CRT	.5256	CRS	.6838	CST	.9795		
LSA	960.0	MSA	277.5	SSA	16.3		
EL1	710.6	EL2	274.9	ALF	17.10		

LAUNCH DATE OCT 8 1965 FLIGHT TIME 104.00 ARRIVAL DATE JAN 20 1966

DISTANCE 248.456

HELIOCENTRIC CONIC

RL	149.46	LAL	.00	LOL	14.51	VL	25.098	GAL	7.33	AZL	87.81	HCA	101.11	SMA	115.80	ECC	.31522	INC	2.1905	V1	29.813
RP	107.50	LAP	2.15	LOP	115.63	VP	36.373	GAP	-17.92	AZP	90.42	TAL	163.46	TAP	264.57	RCA	79.30	APO	152.31	V2	35.251
RC	40.873	GL	8.77	GP	-9.38	ZAL	53.64	ZAP	10.02	ETS	108.33	ZAE	159.53	ETE	237.33	ZAC	41.03	ETC	142.77	CLP	3.56

PLANETOCENTRIC CONIC

C3 38.937 VHL 6.240 DLA -6.06 RAL 320.93 RAD 6568.5 VEL 12.661 PTH 2.30 VHP 11.304 DPA -31.82 RAP 303.69 ECC 1.6408

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 24 17	2190.67	-18.98	39.97	191.96	111.42	9 0 48	1590.7	-15.90	32.65
90.00	18 51 40	5212.49	26.29	234.13	196.02	79.08	20 18 32	4612.5	24.51	225.91
100.00	9 42 45	1937.54	-20.22	20.83	191.43	112.49	10 15 3	1337.5	-17.00	13.52
100.00	20 15 53	4940.86	27.60	213.86	195.72	78.04	21 38 14	4340.9	25.67	205.58
110.00	10 44 25	1744.47	-23.55	4.58	189.84	115.53	11 13 30	1144.5	-19.91	357.32
110.00	21 30 42	4706.68	31.14	195.11	194.75	75.13	22 49 9	4106.7	28.78	186.70

DIFFERENTIAL CORRECTIONS

TDE	-.5784	TRA	-1.7278	TC3	-.1175	BAU	.0945
RDE	-.3305	RRA	.3451	RC3	-.1383	FAU	.02032
FDE	.6599	FRA	1.2705	FC3	-.4518	BSP	5353
BDE	.6662	BRA	1.7619	BC3	.1815	FSP	-329

MID-COURSE EXECUTION ACCURACY

SGT	1687.8	SGR	472.7	SG3	124.0		
RRT	-.4035	RRF	.4234	RTF	-.8710		
SGB	1752.8	R23	-.0519	R13	.8730		
SG1	1699.3	SG2	429.6	THA	173.11		

ORBIT DETERMINATION ACCURACY

ST	715.0	SR	318.2	SS	684.6		
CRT	.5074	CRS	.6732	CST	.9781		
LSA	1003.4	MSA	271.9	SSA	16.4		
EL1	735.8	EL2	266.4	ALF	14.69		

LAUNCH DATE OCT 8 1965 FLIGHT TIME 106.00 ARRIVAL DATE JAN 22 1966

DISTANCE 255.239

HELIOCENTRIC CONIC

RL	149.46	LAL	.00	LOL	14.51	VL	25.304	GAL	6.94	AZL	87.63	HCA	104.36	SMA	116.86	ECC	.30207	INC	2.3687	V1	29.813
RP	107.49	LAP	2.29	LOP	118.88	VP	36.519	GAP	-16.99	AZP	90.59	TAL	163.36	TAP	267.72	RCA	81.56	APO	152.17	V2	35.254
RC	40.482	GL	9.98	GP	-10.05	ZAL	53.61	ZAP	10.25	ETS	99.08	ZAE	159.80	ETE	246.06	ZAC	42.82	ETC	143.58	CLP	2.04

PLANETOCENTRIC CONIC

C3 35.909 VHL 5.992 DLA -4.86 RAL 320.72 RAD 6568.4 VEL 12.541 PTH 2.27 VHP 10.792 DPA -32.15 RAP 305.82 ECC 1.5910

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 14 20	2207.97	-19.41	41.06	190.63	111.03	8 51 8	1608.0	-16.38	33.70
90.00	18 59 55	5154.28	25.47	230.06	193.78	77.19	20 25 49	4554.3	23.46	221.97
100.00	9 33 23	1952.95	-20.62	21.80	190.12	112.13	10 5 56	1352.9	-17.44	14.45
100.00	20 23 33	4884.53	26.74	209.89	193.44	76.12	21 44 57	4284.5	24.57	201.76
110.00	10 36 23	1755.70	-23.87	5.29	188.58	115.22	11 5 39	1155.7	-20.28	357.99
110.00	21 37 2	4654.54	30.17	191.36	192.37	73.10	22 54 37	4054.5	27.56	183.14

DIFFERENTIAL CORRECTIONS

TDE	-.5847	TRA	-1.7242	TC3	-.0972	BAU	.0895
RDE	-.2941	RRA	.3456	RC3	-.1590	FAU	.02127
FDE	.7091	FRA	1.3261	FC3	-.5129	BSP	5569
BDE	.6545	BRA	1.7585	BC3	.1864	FSP	-362

MID-COURSE EXECUTION ACCURACY

SGT	1750.3	SGR	474.7	SG3	135.4		
RRT	-.4444	RRF	.4683	RTF	-.8795		
SGB	1813.5	R23	-.0595	R13	.8817		
SG1	1763.8	SG2	422.0	THA	172.71		

ORBIT DETERMINATION ACCURACY

ST	747.6	SR	298.3	SS	725.7		
CRT	.4835	CRS	.6571	CST	.9769		
LSA	1050.6	MSA	265.6	SSA	16.4		
EL1	763.2	EL2	255.8	ALF	12.33		

LAUNCH DATE OCT 8 1965 FLIGHT TIME 108.00 ARRIVAL DATE JAN 24 1966

DISTANCE 262.029

HELIOCENTRIC CONIC

RL	149.46	LAL	.00	LOL	14.51	VL	25.496	GAL	6.57	AZL	87.45	HCA	107.60	SMA	117.88	ECC	.28970	INC	2.5523	V1	29.813
RP	107.48	LAP	2.43	LOP	122.12	VP	36.655	GAP	-16.08	AZP	90.77	TAL	163.32	TAP	270.91	RCA	83.73	APO	152.02	V2	35.256
RC	40.263	GL	11.29	GP	-10.80	ZAL	53.68	ZAP	10.81	ETS	90.29	ZAE	159.58	ETE	254.98	ZAC	44.64	ETC	144.28	CLP	.50

PLANETOCENTRIC CONIC

C3 33.219 VHL 5.764 DLA -3.58 RAL 320.41 RAD 6568.3 VEL 12.433 PTH 2.25 VHP 10.301 DPA -32.54 RAP 307.95 ECC 1.5467

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 3 31	2228.28	-19.90	42.35	189.29	110.57	8 40 39	1628.3	-16.92	34.94
90.00	19 8 19	5094.65	24.51	225.96	191.53	75.35	20 33 14	4494.7	22.26	218.01
100.00	9 23 11	1971.28	-21.09	22.96	188.80	111.69	9 56 2	1371.3	-17.96	15.57
100.00	20 31 20	4826.88	25.74	205.90	191.16	74.25	21 51 47	4226.9	23.33	197.93
110.00	10 27 35	1769.67	-24.28	6.17	187.31	114.84	10 57 5	1169.7	-20.72	358.83
110.00	21 43 25	4601.26	29.05	187.61	190.00	71.14	23 0 7	4001.3	26.20	179.59

DIFFERENTIAL CORRECTIONS

TDE	-.5911	TRA	-1.7163	TC3	-.0711	BAU	.0869
RDE	-.2573	RRA	.3477	RC3	-.1822	FAU	.02233
FDE	.7640	FRA	1.3856	FC3	-.5820	BSP	5829
BDE	.6447	BRA	1.7512	BC3	.1956	FSP	-399

MID-COURSE EXECUTION ACCURACY

SGT	1809.6	SGR	479.1	SG3	147.9		
RRT	-.4898	RRF	.5178	RTF	-.8878		
SGB	1871.9	R23	-.0675	R13	.8903		
SG1	1825.5	SG2	414.0	THA	172.21		

ORBIT DETERMINATION ACCURACY

ST	779.9	SR	276.1	SS	770.1		
CRT	.4504	CRS	.6324	CST	.9759		
LSA	1100.2	MSA	258.6	SSA	16.4		
EL1	790.9	EL2	243.1	ALF	10.02		

LAUNCH DATE OCT 8 1965 FLIGHT TIME 110.00 ARRIVAL DATE JAN 26 1966

HELIOCENTRIC CONIC DISTANCE 268.825

RL	149.46	LAL	.00	LOL	14.51	VL	25,674	GAL	6.21	AZL	87.26	HCA	110.84	SMA	118.84	ECC	.27809	INC	2.7425	V1	29.813
RP	107.48	LAP	2.56	LOP	125.37	VP	36,780	GAP	-15.21	AZP	90.98	TAL	163.31	TAP	274.15	RCA	85.79	APO	151.88	V2	35.258
RC	40.219	GL	12.70	GP	-11.64	ZAL	53.85	ZAP	11.69	ETS	82.41	ZAE	158.86	ETE	263.57	ZAC	46.48	ETC	144.86	CLP	-1.06

PLANETOCENTRIC CONIC

C3	30.840	VHL	5.553	DLA	-2.22	RAL	320.02	RAD	6568.2	VEL	12.337	PTH	2.22	VHP	9.830	DPA	-33.01	RAP	310.08	ECC	1.5076

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 51 47	2252.00	-20.46	43.87	187.96	110.02	8 29 19	1652.0	-17.55	36.40
90.00	19 16 55	5033.53	23.39	221.83	189.30	73.57	20 40 49	4433.5	20.92	214.03
100.00	9 12 5	1992.94	-21.63	24.35	187.49	111.15	9 45 18	1392.9	-18.56	16.89
100.00	20 39 18	4767.83	24.59	201.89	188.90	72.44	21 58 45	4167.8	21.95	194.08
110.00	10 17 58	1786.73	-24.76	7.26	186.06	114.36	10 47 44	1186.7	-21.26	359.86
110.00	21 49 55	4546.81	27.80	183.87	187.66	69.25	23 5 41	3946.8	24.72	176.05

DIFFERENTIAL CORRECTIONS

TDE	-.6000	TRA	-1.7113	TC3	-.0429	BAU	.0876
RDE	-.2195	RRA	.3519	RC3	-.2082	FAU	.02347
FDE	.8262	FRA	1.4493	FC3	-.6588	BSP	6025
BDE	.6389	BRA	1.7471	BC3	.2126	FSP	-440

MID-COURSE EXECUTION ACCURACY

SGT	1872.8	SGR	486.6	SG3	161.7		
RRT	-.5386	RRF	.5710	RTF	-.8951		
SGB	1934.9	R23	-.0773	R13	.8980		
SG1	1891.9	SG2	405.9	THA	171.65		

ORBIT DETERMINATION ACCURACY

ST	814.9	SR	251.4	SS	818.5		
CRT	.4021	CRS	.5941	CST	.9748		
LSA	1154.9	MSA	251.4	SSA	16.4		
ELI	821.7	EL2	228.3	ALF	7.67		

LAUNCH DATE OCT 8 1965 FLIGHT TIME 112.00 ARRIVAL DATE JAN 28 1966

HELIOCENTRIC CONIC DISTANCE 275,622

RL	149.46	LAL	.00	LOL	14.51	VL	25,839	GAL	5.87	AZL	87.06	HCA	114.08	SMA	119.74	ECC	.26722	INC	2.9412	V1	29.813
RP	107.48	LAP	2.68	LOP	128.62	VP	36,896	GAP	-14.37	AZP	91.20	TAL	163.35	TAP	277.44	RCA	87.75	APO	151.74	V2	35.259
RC	40.350	GL	14.24	GP	-12.59	ZAL	54.12	ZAP	12.86	ETS	75.68	ZAE	157.66	ETE	271.36	ZAC	48.35	ETC	145.33	CLP	-2.66

PLANETOCENTRIC CONIC

C3	28.753	VHL	5.362	DLA	-.76	RAL	319.54	RAD	6568.2	VEL	12.253	PTH	2.20	VHP	9.380	DPA	-33.56	RAP	312.22	ECC	1.4732

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 39 3	2279.60	-21.09	45.64	186.66	109.34	8 17 2	1679.6	-18.26	38.11
90.00	19 25 48	4970.81	22.12	217.67	187.11	71.86	20 48 39	4370.8	19.44	210.03
100.00	9 0 2	2018.36	-22.24	25.98	186.21	110.50	9 33 40	1418.4	-19.25	18.46
100.00	20 47 30	4707.29	23.28	197.87	186.68	70.70	22 5 57	4107.3	20.44	190.23
110.00	10 7 28	1807.28	-25.33	8.59	184.84	113.76	10 37 35	1207.3	-21.90	1.12
110.00	21 56 33	4491.13	26.40	180.15	185.37	67.45	23 11 24	3891.1	23.11	172.53

DIFFERENTIAL CORRECTIONS

TDE	-.6105	TRA	-1.7031	TC3	-.0097	BAU	.0912
RDE	-.1803	RRA	.3586	RC3	-.2371	FAU	.02472
FDE	.8968	FRA	1.5173	FC3	-.7442	BSP	6251
BDE	.6365	BRA	1.7405	BC3	.2373	FSP	-486

MID-COURSE EXECUTION ACCURACY

SGT	1933.4	SGR	498.7	SG3	176.7		
RRT	-.5903	RRF	.6272	RTF	-.9021		
SGB	1996.6	R23	-.0880	R13	.9055		
SG1	1956.6	SG2	397.7	THA	170.97		

ORBIT DETERMINATION ACCURACY

ST	850.6	SR	224.5	SS	871.1		
CRT	.3294	CRS	.5326	CST	.9741		
LSA	1213.7	MSA	243.9	SSA	16.3		
ELI	854.1	EL2	211.1	ALF	5.29		

LAUNCH DATE OCT 8 1965 FLIGHT TIME 114.00 ARRIVAL DATE JAN 30 1966

HELIOCENTRIC CONIC DISTANCE 282.418

RL	149.46	LAL	.00	LOL	14.51	VL	25,991	GAL	5.56	AZL	86.85	HCA	117.33	SMA	120.60	ECC	.25706	INC	3.1502	V1	29.813
RP	107.48	LAP	2.80	LOP	131.87	VP	37,003	GAP	-13.55	AZP	91.45	TAL	163.43	TAP	280.76	RCA	89.60	APO	151.60	V2	35.259
RC	40.657	GL	15.90	GP	-13.67	ZAL	54.50	ZAP	14.31	ETS	70.13	ZAE	156.06	ETE	278.10	ZAC	50.25	ETC	145.70	CLP	-4.30

PLANETOCENTRIC CONIC

C3	26.938	VHL	5.190	DLA	.79	RAL	318.96	RAD	6568.1	VEL	12.178	PTH	2.19	VHP	8.950	DPA	-34.22	RAP	314.36	ECC	1.4433

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 25 14	2311.57	-21.80	47.72	185.41	108.54	8 3 45	1711.6	-19.07	40.11
90.00	19 35 2	4906.35	20.70	213.48	184.96	70.23	20 56 48	4306.3	17.82	205.99
100.00	8 46 56	2048.00	-22.94	27.91	184.98	109.71	9 21 4	1448.0	-20.04	20.31
100.00	20 56 0	4645.15	21.83	193.82	184.51	69.05	22 13 26	4045.2	18.78	186.35
110.00	9 56 2	1831.73	-25.99	10.18	183.67	113.03	10 26 34	1231.7	-22.65	2.62
110.00	22 3 24	4434.18	24.86	176.44	183.14	65.74	23 17 18	3834.2	21.37	169.02

DIFFERENTIAL CORRECTIONS

TDE	-.6235	TRA	-1.6939	TC3	.0272	BAU	.0974
RDE	-.1391	RRA	.3683	RC3	-.2692	FAU	.02605
FDE	.9773	FRA	1.5904	FC3	-.8373	BSP	6470
BDE	.6388	BRA	1.7335	BC3	.2705	FSP	-535

MID-COURSE EXECUTION ACCURACY

SGT	1993.0	SGR	516.7	SG3	193.2		
RRT	-.6435	RRF	.6846	RTF	-.9087		
SGB	2058.9	R23	-.1000	R13	.9126		
SG1	2021.6	SG2	389.9	THA	170.16		

ORBIT DETERMINATION ACCURACY

ST	888.0	SR	196.3	SS	928.6		
CRT	.2136	CRS	.4292	CST	.9735		
LSA	1278.0	MSA	236.3	SSA	16.1		
ELI	889.0	EL2	191.5	ALF	2.83		

LAUNCH DATE OCT 8 1965 FLIGHT TIME 116.00 ARRIVAL DATE FEB 1 1966

HELIOCENTRIC CONIC DISTANCE 289.209

RL	149.46	LAL	.00	LOL	14.51	VL	26,131	GAL	5.25	AZL	86.63	HCA	120.57	SMA	121.41	ECC	.24758	INC	3.3718	V1	29.813
RP	107.48	LAP	2.90	LOP	135.12	VP	37,102	GAP	-12.76	AZP	91.72	TAL	163.55	TAP	284.12	RCA	91.35	APO	151.47	V2	35.258
RC	41.135	GL	17.69	GP	-14.89	ZAL	54.99	ZAP	16.02	ETS	65.66	ZAE	154.13	ETE	283.70	ZAC	52.18	ETC	145.96	CLP	-5.98

PLANETOCENTRIC CONIC

C3	25.381	VHL	5.038	DLA	2.46	RAL	318.30	RAD	6568.0	VEL	12.114	PTH	2.17	VHP	8.542	DPA	-35.00	RAP	316.53	ECC	1.4177

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 10 13	2348.45	-22.58	50.14	184.23	107.56	7 49 22	1748.4	-19.96	42.45
90.00	19 44 44	4839.99	19.11	209.26	182.89	68.70	21 5 24	4240.0	16.05	201.92
100.00	8 32 42	2082.38	-23.71	30.17	183.82	108.76	9 7 25	1482.4	-20.93	22.48
100.00	21 4 56	4581.29	20.22	189.76	182.42	67.50	22 21 17	3981.3	16.99	182.46
110.00	9 43 35	1860.55	-26.74	12.08	182.57	112.13	10 14 35	1260.5	-23.50	4.42
110.00	22 10 32	4375.88	23.17	172.75	180.99	64.14	23 23 28	3775.9	19.50	165.53

DIFFERENTIAL CORRECTIONS

TDE	-.6370	TRA	-1.6809	TC3	.0705	BAU	.1061
RDE	-.0950	RRA	.3813	RC3	-.3046	FAU	.02752
FDE	1.0684	FRA	1.6668	FC3	-.9388	BSP	6749
BDE	.6441	BRA	1.7236	BC3	.3127	FSP	-592

MID-COURSE EXECUTION ACCURACY

SGT	2047.2	SGR	542.5	SG3	211.1		
RRT	-.6970	RRF	.7412	RTF	-.9151		
SGB	2117.9	R23	-.1120	R13	.9196		
SG1	2083.1	SG2	382.4	THA	169.17		

ORBIT DETERMINATION ACCURACY

ST	924.3	SR	169.5	SS	990.5		
CRT	.0226	CRS	.2504	CST	.9731		
LSA	1345.9	MSA	229.1	SSA	15.8		
ELI	924.3	EL2	169.4	ALF	.25		

LAUNCH DATE OCT 8 1965 FLIGHT TIME 118.00 ARRIVAL DATE FEB 3 1966

HELIOCENTRIC CONIC DISTANCE 295.994

RL 149.46 LAL .00 LOL 14.51 VL 26.261 GAL 4.97 AZL 86.39 HCA 123.81 SMA 122.17 ECC .23877 INC 3.6087 V1 29.813
RP 107.48 LAP 3.00 LOP 138.37 VP 37.192 GAP -11.99 AZP 92.01 TAL 163.70 TAP 287.51 RCA 93.00 APO 151.34 V2 35.257
RC 41.780 GL 19.61 GP -16.28 ZAL 55.60 ZAP 17.97 ETS 62.12 ZAE 151.96 ETE 288.18 ZAC 54.16 ETC 146.12 CLP -7.71

PLANETOCENTRIC CONIC

C3 24.071 VHL 4.906 DLA 4.24 RAL 317.54 RAD 6568.0 VEL 12.060 PTH 2.16 VHP 8.157 DPA -35.94 RAP 318.73 ECC 1.3961

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 53 54	2390.85	-23.42	52.97	183.13	106.39	7 33 45	1790.9	-20.95	45.16
90.00	19 55 1	4771.52	17.36	205.00	180.92	67.28	21 14 32	4171.5	14.14	197.81
100.00	8 17 14	2122.07	-24.55	32.82	182.76	107.61	8 52 36	1522.1	-21.91	25.02
100.00	21 14 22	4515.53	18.45	185.68	180.43	66.06	22 29 37	3915.5	15.06	178.53
110.00	9 30 2	1894.21	-27.59	14.34	181.57	111.03	10 1 36	1294.2	-24.48	6.55
110.00	22 18 3	4316.16	21.35	169.07	178.95	62.65	23 29 59	3716.2	17.52	162.04

DIFFERENTIAL CORRECTIONS
TDE -.6567 TRA-1.6693 TC3 .1127 BAU .1163
RDE -.0468 RRA .3988 RC3 -.3433 FAU .02904
FDE 1.1743 FRA 1.7492 FC3-1.0443 BSP 6964
BDE .6583 BRA 1.7163 BC3 .3613 FSP -651

MID-COURSE EXECUTION ACCURACY
SGT 2102.8 SGR 578.4 SG3 230.6
RRT -.7467 RRF .7945 RTF -.9208
SGB 2180.9 R23 -.1263 R13 .9262
SG1 2148.1 SG2 376.6 THA 168.02

ORBIT DETERMINATION ACCURACY
ST 965.4 SR 150.7 SS 1059.3
CRT -.2767 CRS -.0503 CST .9732
LSA 1423.8 MSA 222.0 SSA 15.4
EL1 966.3 EL2 144.7 ALF 177.47

LAUNCH DATE OCT 8 1965 FLIGHT TIME 120.00 ARRIVAL DATE FEB 5 1966

HELIOCENTRIC CONIC DISTANCE 302.770

RL 149.46 LAL .00 LOL 14.51 VL 26.380 GAL 4.70 AZL 86.14 HCA 127.05 SMA 122.88 ECC .23059 INC 3.8643 V1 29.813
RP 107.49 LAP 3.08 LOP 141.62 VP 37.274 GAP -11.25 AZP 92.33 TAL 163.89 TAP 290.94 RCA 94.55 APO 151.22 V2 35.255
RC 42.583 GL 21.68 GP -17.87 ZAL 56.33 ZAP 20.16 ETS 59.36 ZAE 149.59 ETE 291.66 ZAC 56.18 ETC 146.17 CLP -9.50

PLANETOCENTRIC CONIC

C3 23.002 VHL 4.796 DLA 6.14 RAL 316.69 RAD 6567.9 VEL 12.016 PTH 2.14 VHP 7.795 DPA -37.06 RAP 320.96 ECC 1.3786

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 36 7	2439.50	-24.31	56.25	182.16	104.98	7 16 46	1839.5	-22.02	48.33
90.00	20 6 2	4700.68	15.45	200.68	179.07	65.97	21 24 22	4100.7	12.07	193.63
100.00	8 0 22	2167.74	-25.46	35.91	181.81	106.22	8 36 30	1567.7	-22.99	27.98
100.00	21 24 27	4447.68	16.53	181.56	178.56	64.73	22 38 35	3847.7	12.99	174.56
110.00	9 15 17	1933.28	-28.51	17.00	180.70	109.71	9 47 30	1333.3	-25.56	9.07
110.00	22 26 2	4254.91	19.39	165.40	177.02	61.28	23 36 57	3654.9	15.41	158.54

DIFFERENTIAL CORRECTIONS
TDE -.6799 TRA-1.6569 TC3 .1557 BAU .1277
RDE .0069 RRA .4212 RC3 -.3851 FAU .03060
FDE 1.2958 FRA 1.8355 FC3-1.1518 BSP 7182
BDE .6800 BRA 1.7096 BC3 .4154 FSP -716

MID-COURSE EXECUTION ACCURACY
SGT 2155.3 SGR 626.6 SG3 251.6
RRT -.7918 RRF .8423 RTF -.9261
SGB 2244.5 R23 -.1413 R13 .9325
SG1 2213.4 SG2 372.7 THA 166.65

ORBIT DETERMINATION ACCURACY
ST 1008.2 SR 152.5 SS 1134.0
CRT -.6339 CRS -.4425 CST .9735
LSA 1509.7 MSA 215.6 SSA 14.9
EL1 1012.9 EL2 117.4 ALF 174.45

LAUNCH DATE OCT 8 1965 FLIGHT TIME 122.00 ARRIVAL DATE FEB 7 1966

HELIOCENTRIC CONIC DISTANCE 309.535

RL 149.46 LAL .00 LOL 14.51 VL 26.490 GAL 4.45 AZL 85.86 HCA 130.29 SMA 123.54 ECC .22303 INC 4.1426 V1 29.813
RP 107.50 LAP 3.16 LOP 144.87 VP 37.349 GAP -10.54 AZP 92.68 TAL 164.10 TAP 294.39 RCA 95.99 APO 151.10 V2 35.252
RC 43.538 GL 23.90 GP -19.70 ZAL 57.19 ZAP 22.61 ETS 57.25 ZAE 147.07 ETE 294.25 ZAC 58.27 ETC 146.13 CLP -11.34

PLANETOCENTRIC CONIC

C3 22.174 VHL 4.709 DLA 8.17 RAL 315.75 RAD 6567.9 VEL 11.981 PTH 2.14 VHP 7.460 DPA -38.39 RAP 323.27 ECC 1.3649

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 16 39	2495.25	-25.24	60.07	181.34	103.28	6 58 15	1895.2	-23.16	52.02
90.00	20 17 58	4627.12	13.36	196.28	177.36	64.80	21 35 6	4027.1	9.86	189.36
100.00	7 41 57	2220.15	-26.40	39.52	181.02	104.55	8 18 57	1620.2	-24.14	31.45
100.00	21 35 22	4377.45	14.44	177.39	176.83	63.54	22 48 19	3777.4	10.77	170.52
110.00	8 59 12	1978.39	-29.51	20.13	179.99	108.09	9 32 11	1378.4	-26.75	12.03
110.00	22 34 36	4191.98	17.29	161.72	175.24	60.04	23 44 28	3592.0	13.18	155.03

DIFFERENTIAL CORRECTIONS
TDE -.7084 TRA-1.6434 TC3 .1967 BAU .1401
RDE .0682 RRA .4498 RC3 -.4296 FAU .03216
FDE 1.4355 FRA 1.9249 FC3-1.2556 BSP 7390
BDE .7116 BRA 1.7039 BC3 .4725 FSP -783

MID-COURSE EXECUTION ACCURACY
SGT 2204.1 SGR 690.1 SG3 273.9
RRT -.8305 RRF .8830 RTF -.9310
SGB 2309.6 R23 -.1563 R13 .9387
SG1 2279.5 SG2 371.7 THA 165.02

ORBIT DETERMINATION ACCURACY
ST 1053.7 SR 185.9 SS 1215.4
CRT -.8788 CRS -.7507 CST .9743
LSA 1605.5 MSA 210.0 SSA 14.2
EL1 1066.3 EL2 87.6 ALF 171.13

LAUNCH DATE OCT 8 1965 FLIGHT TIME 124.00 ARRIVAL DATE FEB 9 1966

HELIOCENTRIC CONIC DISTANCE 316.287

RL 149.46 LAL .00 LOL 14.51 VL 26.591 GAL 4.21 AZL 85.55 HCA 133.53 SMA 124.16 ECC .21605 INC 4.4490 V1 29.813
RP 107.51 LAP 3.22 LOP 148.12 VP 37.417 GAP -9.84 AZP 93.07 TAL 164.34 TAP 297.87 RCA 97.34 APO 150.99 V2 35.249
RC 44.633 GL 26.28 GP -21.79 ZAL 58.17 ZAP 25.34 ETS 55.66 ZAE 144.42 ETE 296.05 ZAC 60.45 ETC 145.98 CLP -13.25

PLANETOCENTRIC CONIC

C3 21.592 VHL 4.647 DLA 10.33 RAL 314.72 RAD 6567.9 VEL 11.957 PTH 2.13 VHP 7.153 DPA -39.98 RAP 325.66 ECC 1.3553

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 55 16	2559.17	-26.17	64.52	180.69	101.23	6 37 55	1959.2	-24.35	56.32
90.00	20 31 7	4550.34	11.09	191.79	175.84	63.78	21 46 57	3950.3	7.48	184.97
100.00	7 21 44	2280.27	-27.36	43.73	180.41	102.53	7 59 44	1680.3	-25.36	35.50
100.00	21 47 20	4304.47	12.18	173.14	175.28	62.49	22 59 4	3704.5	8.41	166.39
110.00	8 41 38	2030.27	-30.55	23.81	179.48	106.14	9 15 28	1430.3	-28.03	15.52
110.00	22 43 55	4127.24	15.05	158.04	173.62	58.94	23 52 43	3527.2	10.83	151.49

DIFFERENTIAL CORRECTIONS
TDE -.7417 TRA-1.6293 TC3 .2353 BAU .1534
RDE .1395 RRA .4855 RC3 -.4765 FAU .03368
FDE 1.5947 FRA 2.0154 FC3-1.3504 BSP 7603
BDE .7547 BRA 1.7001 BC3 .5314 FSP -855

MID-COURSE EXECUTION ACCURACY
SGT 2248.2 SGR 772.0 SG3 297.1
RRT -.8625 RRF .9159 RTF -.9355
SGB 2377.0 R23 -.1700 R13 .9448
SG1 2347.4 SG2 374.2 THA 163.06

ORBIT DETERMINATION ACCURACY
ST 1100.8 SR 251.2 SS 1302.6
CRT -.9738 CRS -.9012 CST .9753
LSA 1711.5 MSA 205.6 SSA 13.4
EL1 1127.7 EL2 55.8 ALF 167.44

LAUNCH DATE OCT 8 1965 FLIGHT TIME 126.00 ARRIVAL DATE FEB 11 1966

HELIOCENTRIC CONIC DISTANCE 323.024

RL	149.46	LAL	.00	LOL	14.51	VL	26.683	GAL	3.99	AZL	85.21	HCA	136.77	SMA	124.73	ECC	.20963	INC	4.7901	V1	29.813
RP	107.52	LAP	3.28	LOP	151.37	VP	37.479	GAP	-9.17	AZP	93.49	TAL	164.60	TAP	301.36	RCA	98.59	APO	150.88	V2	35.244
RC	45.858	GL	28.81	GP	-24.21	ZAL	59.29	ZAP	28.35	ETS	54.51	ZAE	141.62	ETE	297.18	ZAC	62.72	ETC	145.74	CLP	-15.23

PLANETOCENTRIC CONIC

C3	21.271	VHL	4.612	DLA	12.64	RAL	313.59	RAD	6567.9	VEL	11.944	PTH	2.13	VHP	6.879	DPA	-41.85	RAP	328.20	ECC	1.3501

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 31 33	2632.67	-27.03	69.73	180.26	98.76	6 15 26	2032.7	-25.55	61.38
90.00	20 45 48	4469.62	8.63	187.14	174.54	62.93	22 0 18	3869.6	4.93	180.41
100.00	6 59 25	2349.32	-28.28	48.65	180.03	100.10	7 38 34	1749.3	-26.60	40.26
100.00	22 0 38	4228.20	9.75	168.79	173.94	61.60	23 11 6	3628.2	5.88	162.14
110.00	8 22 20	2089.83	-31.60	28.14	179.22	103.78	8 57 10	1489.8	-29.38	19.63
110.00	22 54 12	4060.46	12.67	154.33	172.21	57.98	24 1 52	3460.5	8.35	147.90

DIFFERENTIAL CORRECTIONS								MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TDE	-.7814	TRA	-1.6137	TC3	.2690	BAU	.1676	SGT	2285.7	SGR	875.5	SG3	320.5	ST	1149.9	SR	344.9	SS	1395.0
RDE	.2246	RRA	.5296	RC3	-.5245	FAU	.03507	RRT	-.8875	RRF	.9413	RTF	-.9395	CRT	-.9975	CRS	-.9613	CST	.9766
FDE	1.7750	FRA	2.1025	FC3	-1.4275	BSP	7830	SGB	2447.7	R23	-.1810	R13	.9509	LSA	1829.3	MSA	202.2	SSA	12.4
BDE	.8130	BRA	1.6983	BC3	.5894	FSP	-929	SG1	2417.8	SG2	381.4	THA	160.73	EL1	1200.2	EL2	23.5	ALF	163.34

LAUNCH DATE OCT 8 1965 FLIGHT TIME 128.00 ARRIVAL DATE FEB 13 1966

HELIOCENTRIC CONIC DISTANCE 329.744

RL	149.46	LAL	.00	LOL	14.51	VL	26.767	GAL	3.79	AZL	84.83	HCA	140.00	SMA	125.26	ECC	.20375	INC	5.1747	V1	29.813
RP	107.54	LAP	3.32	LOP	154.62	VP	37.534	GAP	-8.52	AZP	93.97	TAL	164.87	TAP	304.87	RCA	99.74	APO	150.78	V2	35.239
RC	47.202	GL	31.51	GP	-27.00	ZAL	60.54	ZAP	31.70	ETS	53.68	ZAE	138.64	ETE	297.73	ZAC	65.13	ETC	145.41	CLP	-17.28

PLANETOCENTRIC CONIC

C3	21.239	VHL	4.609	DLA	15.09	RAL	312.36	RAD	6567.9	VEL	11.942	PTH	2.13	VHP	6.644	DPA	-44.07	RAP	330.95	ECC	1.3495

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 4 59	2717.72	-27.77	75.84	180.07	95.78	5 50 16	2117.7	-26.68	67.35
90.00	21 2 34	4383.85	5.94	182.27	173.51	62.26	22 15 38	3783.9	2.18	175.61
100.00	6 34 31	2428.96	-29.10	54.43	179.90	97.16	7 15 0	1829.0	-27.80	45.87
100.00	22 15 43	4147.84	7.12	164.28	172.87	60.89	23 24 51	3547.8	3.18	157.70
110.00	8 1 2	2158.25	-32.59	33.23	179.25	100.93	8 37 0	1558.2	-30.74	24.49
110.00	23 5 41	3991.32	10.15	150.57	171.03	57.18	24 12 13	3391.3	5.75	144.23

DIFFERENTIAL CORRECTIONS								MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TDE	-.8260	TRA	-1.5955	TC3	.2986	BAU	.1833	SGT	2313.2	SGR	1004.1	SG3	343.0	ST	1197.7	SR	465.7	SS	1489.8
RDE	.3276	RRA	.5833	RC3	-.5722	FAU	.03626	RRT	-.9069	RRF	.9600	RTF	-.9433	CRT	-.9990	CRS	-.9846	CST	.9780
FDE	1.9743	FRA	2.1803	FC3	-1.4781	BSP	8119	SGB	2521.7	R23	-.1873	R13	.9572	LSA	1957.2	MSA	200.1	SSA	11.3
BDE	.8886	BRA	1.6988	BC3	.6455	FSP	-1004	SG1	2490.9	SG2	392.9	THA	157.94	EL1	1284.9	EL2	19.3	ALF	158.77

LAUNCH DATE OCT 8 1965 FLIGHT TIME 130.00 ARRIVAL DATE FEB 15 1966

HELIOCENTRIC CONIC DISTANCE 336.446

RL	149.46	LAL	.00	LOL	14.51	VL	26.843	GAL	3.60	AZL	84.39	HCA	143.23	SMA	125.75	ECC	.19837	INC	5.6147	V1	29.813
RP	107.55	LAP	3.36	LOP	157.87	VP	37.583	GAP	-7.88	AZP	94.50	TAL	165.14	TAP	308.38	RCA	100.80	APO	150.69	V2	35.234
RC	48.656	GL	34.38	GP	-30.21	ZAL	61.94	ZAP	35.40	ETS	53.12	ZAE	135.44	ETE	297.77	ZAC	67.71	ETC	145.01	CLP	-19.39

PLANETOCENTRIC CONIC

C3	21.543	VHL	4.641	DLA	17.69	RAL	311.02	RAD	6567.9	VEL	11.955	PTH	2.13	VHP	6.455	DPA	-46.66	RAP	334.00	ECC	1.3545

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 34 40	2817.27	-28.24	83.09	180.13	92.18	5 21 38	2217.3	-27.64	74.47
90.00	21 22 13	4291.14	2.98	177.07	172.85	61.83	22 33 45	3691.1	-.81	170.44
100.00	6 6 22	2521.59	-29.69	61.25	180.05	93.62	6 48 23	1921.6	-28.87	52.54
100.00	22 33 13	4062.06	4.25	159.52	172.15	60.38	23 40 55	3462.1	.28	152.99
110.00	7 37 18	2237.06	-33.45	39.21	179.62	97.48	8 14 35	1637.1	-32.06	30.26
110.00	23 18 46	3919.35	7.47	146.71	170.16	56.55	24 24 5	3319.3	3.02	140.46

DIFFERENTIAL CORRECTIONS								MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TDE	-.8815	TRA	-1.5794	TC3	.3134	BAU	.1990	SGT	2335.9	SGR	1161.8	SG3	363.3	ST	1249.4	SR	616.6	SS	1586.7
RDE	.4556	RRA	.6489	RC3	-.6156	FAU	.03691	RRT	-.9208	RRF	.9732	RTF	-.9466	CRT	-.9955	CRS	-.9939	CST	.9797
FDE	2.1934	FRA	2.2446	FC3	-1.4832	BSP	8379	SGB	2608.9	R23	-.1886	R13	.9635	LSA	2102.2	MSA	198.9	SSA	10.2
BDE	.9923	BRA	1.7075	BC3	.6908	FSP	-1070	SG1	2576.3	SG2	410.9	THA	154.71	EL1	1392.3	EL2	52.2	ALF	153.79

LAUNCH DATE OCT 8 1965 FLIGHT TIME 132.00 ARRIVAL DATE FEB 17 1966

HELIOCENTRIC CONIC DISTANCE 343.127

RL	149.46	LAL	.00	LOL	14.51	VL	26.913	GAL	3.43	AZL	83.87	HCA	146.46	SMA	126.20	ECC	.19349	INC	6.1264	V1	29.813
RP	107.57	LAP	3.38	LOP	161.12	VP	37.626	GAP	-7.27	AZP	95.11	TAL	165.42	TAP	311.89	RCA	101.78	APO	150.61	V2	35.227
RC	50.208	GL	37.42	GP	-33.91	ZAL	63.47	ZAP	39.49	ETS	52.75	ZAE	131.95	ETE	297.39	ZAC	70.49	ETC	144.56	CLP	-21.58

PLANETOCENTRIC CONIC

C3	22.258	VHL	4.718	DLA	20.44	RAL	309.57	RAD	6567.9	VEL	11.985	PTH	2.14	VHP	6.324	DPA	-49.65	RAP	337.52	ECC	1.3663

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	3 59 7	2936.31	-28.24	91.79	180.42	87.82	4 48 4	2336.3	-28.24	83.12
90.00	21 46 12	4187.88	-.35	171.31	172.67	61.69	22 56 0	3587.9	-4.14	164.67
100.00	5 33 49	2630.98	-29.89	69.37	180.47	89.35	6 17 40	2031.0	-29.66	60.58
100.00	22 54 12	3968.44	1.09	154.38	171.87	60.13	24 0 20	3368.4	-2.90	147.85
110.00	7 10 30	2328.47	-34.04	46.28	180.35	93.34	7 49 19	1728.5	-33.20	37.14
110.00	23 33 59	3843.73	4.61	142.72	169.67	56.09	24 38 3	3243.7	.13	136.51

DIFFERENTIAL CORRECTIONS								MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TDE	-.9454	TRA	-1.5614	TC3	.3189	BAU	.2158	SGT	2346.1	SGR	1351.2	SG3	378.9	ST	1298.8	SR	800.5	SS	1678.6
RDE	.6165	RRA	.7269	RC3	-.6514	FAU	.03691	RRT	-.9309	RRF	.9823	RTF	-.9495	CRT	-.9920	CRS	-.9976	CST	.9813
FDE	2.4218	FRA	2.2813	FC3	-1.4356	BSP	8723	SGB	2707.3	R23	-.1832	R13	.9698	LSA	2259.6	MSA	198.5	SSA	9.0
BDE	1.1287	BRA	1.7223	BC3	.7252	FSP	-1128	SG1	2672.5	SG2	433.3	THA	150.97	EL1	1523.3	EL2	86.1	ALF	148.45

LAUNCH DATE OCT 8 1965 FLIGHT TIME 134.00 ARRIVAL DATE FEB 19 1966

DISTANCE 349.787

HELIOCENTRIC CONIC

RL	149.46	LAL	.00	LOL	14.51	VL	26.975	GAL	3.27	AZL	83.27	HCA	149.69	SMA	126.60	ECC	.18906	INC	6.7331	VI	29.813
RP	107.60	LAP	3.39	LOP	164.37	VP	37.665	GAP	-6.68	AZP	95.82	TAL	165.70	TAP	315.39	RCA	102.67	APO	150.54	V2	35.220
RC	51.850	GL	40.64	GP	-38.15	ZAL	65.15	ZAP	43.98	ETS	52.51	ZAE	128.10	ETE	296.70	ZAC	73.53	ETC	144.11	CLP	-23.80

PLANETOCENTRIC CONIC

C3	23.506	VHL	4.848	DLA	23.33	RAL	307.99	RAD	6568.0	VEL	12.037	PTH	2.15	VHP	6.266	DPA	-53.07	RAP	341.76	ECC	1.3869

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	3 15 13	3084.89	-27.38	102.57	180.81	82.49	4 6 38	2484.9	-28.14	93.98
90.00	22 17 29	4065.86	-4.28	164.49	173.18	61.98	23 25 15	3465.9	-7.99	157.78
100.00	4 54 44	2763.99	-29.37	79.22	181.08	84.20	5 40 48	2164.0	-29.87	70.45
100.00	23 20 39	3861.99	-2.52	148.53	172.21	60.20	24 25 1	3262.0	-6.47	141.97
110.00	6 39 39	2435.76	-34.15	54.66	181.44	88.38	7 20 15	1835.8	-34.00	45.42
110.00	23 52 13	3762.99	1.54	138.50	169.68	55.85	24 54 56	3163.0	-2.95	132.29

DIFFERENTIAL CORRECTIONS

TDE	-1.0246	TRA	-1.5474	TC3	.3063	BAU	.2322	SGT	2349.6	SGR	1575.4	SG3	387.0
RDE	.8224	RRA	.8194	RC3	-.6723	FAU	.03584	RRT	-.9377	RRF	.9883	RTF	-.9520
FDE	2.6496	FRA	2.2819	FC3	-1.3200	BSP	9062	SGB	2828.9	R23	-.1715	R13	.9761
BDE	1.3138	BRA	1.7510	BC3	.7388	FSP	-1159	SG1	2791.1	SG2	460.9	THA	146.82

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

ST	1350.2	SR	1022.3	SS	1761.2	CRT	-.9896	CRS	-.9992	CST	.9831
LSA	2435.2	MSA	198.7	SSA	7.8	ELI	1689.5	EL2	117.4	ALF	142.95

LAUNCH DATE OCT 8 1965 FLIGHT TIME 136.00 ARRIVAL DATE FEB 21 1966

DISTANCE 356.423

HELIOCENTRIC CONIC

RL	149.46	LAL	.00	LOL	14.51	VL	27.032	GAL	3.13	AZL	82.53	HCA	152.91	SMA	126.97	ECC	.18508	INC	7.4688	VI	29.813
RP	107.62	LAP	3.39	LOP	167.61	VP	37.698	GAP	-6.10	AZP	96.66	TAL	165.96	TAP	318.87	RCA	103.47	APO	150.47	V2	35.212
RC	53.572	GL	44.02	GP	-42.97	ZAL	66.97	ZAP	48.89	ETS	52.32	ZAE	123.81	ETE	295.82	ZAC	76.86	ETC	143.74	CLP	-26.03

PLANETOCENTRIC CONIC

C3	25.490	VHL	5.049	DLA	26.37	RAL	306.25	RAD	6568.0	VEL	12.119	PTH	2.17	VHP	6.306	DPA	-56.86	RAP	347.12	ECC	1.4195

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	2 13 26	3293.32	-24.67	117.21	180.84	75.65	3 8 19	2693.3	-26.41	108.97
90.00	23 5 25	3897.23	-9.58	154.93	174.93	63.22	24 10 22	3297.2	-13.09	148.02
100.00	4 4 4	2936.63	-27.54	91.71	181.59	77.88	4 53 1	2336.6	-28.93	83.19
100.00	0 1 24	3729.16	-6.98	141.19	173.54	60.86	1 3 33	3129.2	-10.81	134.50
110.00	6 3 0	2564.53	-33.45	64.64	182.77	82.52	6 45 44	1964.5	-34.12	55.46
110.00	0 18 58	3674.02	-1.87	133.86	170.38	55.86	1 20 12	3074.0	-6.33	127.62

DIFFERENTIAL CORRECTIONS

TDE	-1.1217	TRA	-1.5363	TC3	.2785	BAU	.2476	SGT	2342.3	SGR	1833.6	SG3	384.4
RDE	1.0887	RRA	.9262	RC3	-.6711	FAU	.03345	RRT	-.9421	RRF	.9923	RTF	-.9542
FDE	2.8548	FRA	2.2300	FC3	-1.1360	BSP	9468	SGB	2974.7	R23	-.1537	R13	.9820
BDE	1.5632	BRA	1.7940	BC3	.7266	FSP	-1160	SG1	2933.9	SG2	490.8	THA	142.35

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

ST	1400.5	SR	1284.9	SS	1824.8	CRT	-.9884	CRS	-.9997	CST	.9849
LSA	2627.2	MSA	199.1	SSA	6.6	ELI	1895.1	EL2	144.5	ALF	137.49

LAUNCH DATE OCT 8 1965 FLIGHT TIME 138.00 ARRIVAL DATE FEB 23 1966

DISTANCE 363.033

HELIOCENTRIC CONIC

RL	149.46	LAL	.00	LOL	14.51	VL	27.082	GAL	3.01	AZL	81.61	HCA	156.12	SMA	127.31	ECC	.18152	INC	8.3857	VI	29.813
RP	107.64	LAP	3.38	LOP	170.86	VP	37.727	GAP	-5.54	AZP	97.68	TAL	166.21	TAP	322.33	RCA	104.20	APO	150.41	V2	35.204
RC	55.368	GL	47.57	GP	-48.38	ZAL	68.96	ZAP	54.16	ETS	52.18	ZAE	119.01	ETE	294.90	ZAC	80.54	ETC	143.57	CLP	-28.18

PLANETOCENTRIC CONIC

C3	28.557	VHL	5.344	DLA	29.53	RAL	304.33	RAD	6568.1	VEL	12.245	PTH	2.20	VHP	6.480	DPA	-60.89	RAP	354.27	ECC	1.4700

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
81.25	23 18 8	3854.86	-18.15	155.99	179.01	66.29	24 22 23	3254.9	-21.20	148.55
98.75	1 45 22	3392.13	-18.13	121.99	179.00	66.28	2 41 54	2792.1	-21.18	114.56
100.00	2 34 3	3236.32	-21.62	111.97	180.53	68.84	3 28 0	2636.3	-24.30	104.20
100.00	1 16 4	3485.91	-14.73	127.29	177.34	63.69	2 14 10	2885.9	-18.14	120.17
110.00	5 16 51	2726.20	-31.36	76.77	184.01	75.64	6 2 17	2126.2	-33.01	67.94
110.00	0 49 46	3568.79	-5.87	128.34	172.15	56.26	1 49 15	2968.8	-10.26	122.01

DIFFERENTIAL CORRECTIONS

TDE	-1.2426	TRA	-1.5314	TC3	.2401	BAU	.2612	SGT	2324.2	SGR	2120.7	SG3	367.5
RDE	1.4353	RRA	1.0457	RC3	-.6406	FAU	.02960	RRT	-.9449	RRF	.9947	RTF	-.9563
FDE	3.0071	FRA	2.1130	FC3	-.8975	BSP	9991	SGB	3146.4	R23	-.1313	R13	.9873
BDE	1.8984	BRA	1.8544	BC3	.6841	FSP	-1122	SG1	3103.1	SG2	519.8	THA	137.77

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

ST	1447.6	SR	1586.8	SS	1857.5	CRT	-.9879	CRS	-1.0000	CST	.9866
LSA	2832.6	MSA	200.0	SSA	5.5	ELI	2141.4	EL2	166.5	ALF	132.34

LAUNCH DATE OCT 8 1965 FLIGHT TIME 140.00 ARRIVAL DATE FEB 25 1966

DISTANCE 369.614

HELIOCENTRIC CONIC

RL	149.46	LAL	.00	LOL	14.51	VL	27.128	GAL	2.90	AZL	80.43	HCA	159.33	SMA	127.61	ECC	.17835	INC	9.5681	VI	29.813
RP	107.67	LAP	3.36	LOP	174.10	VP	37.751	GAP	-5.00	AZP	98.96	TAL	166.43	TAP	325.76	RCA	104.85	APO	150.36	V2	35.195
RC	57.230	GL	51.25	GP	-54.36	ZAL	71.11	ZAP	59.72	ETS	52.12	ZAE	113.68	ETE	294.18	ZAC	84.58	ETC	143.82	CLP	-30.08

PLANETOCENTRIC CONIC

C3	33.340	VHL	5.774	DLA	32.79	RAL	302.17	RAD	6568.3	VEL	12.438	PTH	2.25	VHP	6.845	DPA	-64.85	RAP	4.31	ECC	1.5487

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
72.74	22 8 41	4085.84	-18.80	173.70	180.27	62.63	23 16 47	3485.8	-22.32	166.44
107.26	2 37 35	3238.92	-18.79	110.81	180.26	62.63	3 31 34	2638.9	-22.31	103.55
72.74	22 8 41	4085.84	-18.80	173.70	180.27	62.63	23 16 47	3485.8	-22.32	166.44
107.26	2 37 35	3238.92	-18.79	110.81	180.26	62.63	3 31 34	2638.9	-22.31	103.55
110.00	4 8 25	2959.34	-26.27	92.98	184.04	67.30	4 57 44	2359.3	-29.11	84.95
110.00	1 40 58	3413.42	-11.65	120.03	176.02	57.63	2 37 51	2813.4	-15.84	113.42

DIFFERENTIAL CORRECTIONS

TDE	-1.4054	TRA	-1.5412	TC3	.1901	BAU	.2684	SGT	2302.6	SGR	2424.4	SG3	334.9
RDE	1.8913	RRA	1.1740	RC3	-.5713	FAU	.02414	RRT	-.9463	RRF	.9961	RTF	-.9586
FDE	3.0773	FRA	1.9270	FC3	-.6268	BSP	10617	SGB	3343.6	R23	-.1059	R13	.9917
BDE	2.3563	BRA	1.9374	BC3	.6021	FSP	-1037	SG1	3298.6	SG2	547.0	THA	133.44

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

ST	1497.5	SR	1922.3	SS	1850.5	CRT	-.9880	CRS	-1.0000	CST	.9883
LSA	3053.2	MSA	201.0	SSA	4.4	ELI	2429.9	EL2	183.1	ALF	127.84

LAUNCH DATE OCT 8 1965 FLIGHT TIME 142.00 ARRIVAL DATE FEB 27 1966

HELIOCENTRIC CONIC DISTANCE 376.161

RL 149.46 LAL .00 LOL 14.51 VL 27.168 GAL 2.81 AZL 78.84 HCA 162.52 SMA 127.87 ECC .17556 INC11.1610 VI 29.813
RP 107.70 LAP 3.33 LOP 177.34 VP 37.771 GAP -4.47 AZP 100.66 TAL 166.62 TAP 329.14 RCA 105.42 APO 150.32 V2 35.186
RC 59.152 GL 55.03 GP -60.86 ZAL 73.43 ZAP 65.42 ETS 52.45 ZAE 107.80 ETE 294.14 ZAC 89.03 ETC 144.95 CLP -31.31

PLANETOCENTRIC CONIC

C3 41.084 VHL 6.410 DLA 36.07 RAL 299.71 RAD 6568.6 VEL 12.746 PTH 2.32 VHP 7.496 DPA -68.14 RAP 18.68 ECC 1.6761

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
66.66	21 22 44	4248.48	-18.67	186.35	182.08	58.56	22 33 32	3648.5	-22.69	179.37
113.34	3 3 54	3181.79	-18.66	106.26	182.07	58.56	3 56 56	2581.8	-22.68	99.28
66.66	21 22 44	4248.48	-18.67	186.35	182.08	58.56	22 33 32	3648.5	-22.69	179.37
113.34	3 3 54	3181.79	-18.66	106.26	182.07	58.56	3 56 56	2581.8	-22.68	99.28
66.66	21 22 44	4248.48	-18.67	186.35	182.08	58.56	22 33 32	3648.5	-22.69	179.37
113.34	3 3 54	3181.79	-18.66	106.26	182.07	58.56	3 56 56	2581.8	-22.68	99.28

DIFFERENTIAL CORRECTIONS

TDE-1.6504 TRA-1.5841 TC3 .1328 BAU .2622
RDE 2.4969 RRA 1.3015 RC3 -.4586 FAU .01724
FDE 3.0426 FRA 1.8812 FC3 -.3632 BSP 11282
BDE 2.9930 BRA 2.0502 BC3 .4774 FSP -905

MID-COURSE EXECUTION ACCURACY

SGT 2296.6 SGR 2720.0 SG3 287.5
RRT -.9467 RRF .9967 RTF -.9617
SGB 3559.9 R23 -.0788 R13 .9951
SG1 3513.5 SG2 572.4 THA 129.91

ORBIT DETERMINATION ACCURACY

ST 1566.1 SR 2273.4 SS 1798.1
CRT -.9886 CRS -.9999 CST .9902
LSA 3288.3 MSA 202.6 SSA 3.5
EL1 2753.7 EL2 194.7 ALF 124.45

LAUNCH DATE OCT 8 1965 FLIGHT TIME 144.00 ARRIVAL DATE MAR 1 1966

HELIOCENTRIC CONIC DISTANCE 382.663

RL 149.46 LAL .00 LOL 14.51 VL 27.203 GAL 2.73 AZL 76.56 HCA 165.70 SMA 128.11 ECC .17313 INC13.4360 VI 29.813
RP 107.73 LAP 3.29 LOP 180.58 VP 37.787 GAP -3.97 AZP 103.03 TAL 166.76 TAP 332.46 RCA 105.93 APO 150.29 V2 35.176
RC 61.127 GL 58.78 GP -67.76 ZAL 75.94 ZAP 71.04 ETS 54.20 ZAE 101.35 ETE 295.91 ZAC 93.93 ETC 148.14 CLP -30.83

PLANETOCENTRIC CONIC

C3 54.507 VHL 7.383 DLA 39.23 RAL 296.85 RAD 6569.0 VEL 13.261 PTH 2.42 VHP 8.607 DPA -69.74 RAP 37.98 ECC 1.8970

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
61.63	20 45 44	4393.91	-17.35	197.31	184.38	54.24	21 58 58	3793.9	-21.89	190.74
118.37	3 18 7	3177.82	-17.33	105.01	184.37	54.24	4 11 4	2577.8	-21.88	98.43
61.63	20 45 44	4393.91	-17.35	197.31	184.38	54.24	21 58 58	3793.9	-21.89	190.74
118.37	3 18 7	3177.82	-17.33	105.01	184.37	54.24	4 11 4	2577.8	-21.88	98.43
61.63	20 45 44	4393.91	-17.35	197.31	184.38	54.24	21 58 58	3793.9	-21.89	190.74
118.37	3 18 7	3177.82	-17.33	105.01	184.37	54.24	4 11 4	2577.8	-21.88	98.43

DIFFERENTIAL CORRECTIONS

TDE-2.0769 TRA-1.6826 TC3 .0935 BAU .2408
RDE 3.2786 RRA 1.3814 RC3 -.3169 FAU .01024
FDE 2.8852 FRA 1.3835 FC3 -.1626 BSP 12654
BDE 3.8811 BRA 2.1770 BC3 .3704 FSP -773

MID-COURSE EXECUTION ACCURACY

SGT 2336.4 SGR 2934.0 SG3 228.5
RRT -.9480 RRF .9961 RTF -.9677
SGB 3750.7 R23 -.0505 R13 .9975
SG1 3704.1 SG2 588.9 THA 128.19

ORBIT DETERMINATION ACCURACY

ST 1689.3 SR 2578.1 SS 1693.7
CRT -.9899 CRS -.9998 CST .9928
LSA 3511.1 MSA 203.2 SSA 2.7
EL1 3075.7 EL2 200.8 ALF 123.13

LAUNCH DATE OCT 8 1965 FLIGHT TIME 146.00 ARRIVAL DATE MAR 3 1966

HELIOCENTRIC CONIC DISTANCE 389.112

RL 149.46 LAL .00 LOL 14.51 VL 27.234 GAL 2.68 AZL 73.04 HCA 168.84 SMA 128.32 ECC .17108 INC16.9637 VI 29.813
RP 107.76 LAP 3.24 LOP 183.82 VP 37.800 GAP -3.49 AZP 106.66 TAL 166.83 TAP 335.66 RCA 106.36 APO 150.27 V2 35.166
RC 63.151 GL 62.22 GP -74.87 ZAL 78.62 ZAP 76.33 ETS 61.88 ZAE 94.22 ETE 304.06 ZAC 99.47 ETC 158.03 CLP -25.10

PLANETOCENTRIC CONIC

C3 80.485 VHL 8.971 DLA 41.97 RAL 293.53 RAD 6569.6 VEL 14.207 PTH 2.59 VHP 10.539 DPA -68.51 RAP 59.29 ECC 2.3246

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
57.63	20 14 33	4537.07	-14.37	207.14	186.99	50.13	21 30 10	3937.1	-19.40	201.06
122.37	3 22 46	3220.71	-14.36	106.27	186.98	50.13	4 16 27	2620.7	-19.39	100.18
57.63	20 14 33	4537.07	-14.37	207.14	186.99	50.13	21 30 10	3937.1	-19.40	201.06
122.37	3 22 46	3220.71	-14.36	106.27	186.98	50.13	4 16 27	2620.7	-19.39	100.18
57.63	20 14 33	4537.07	-14.37	207.14	186.99	50.13	21 30 10	3937.1	-19.40	201.06
122.37	3 22 46	3220.71	-14.36	106.27	186.98	50.13	4 16 27	2620.7	-19.39	100.18

DIFFERENTIAL CORRECTIONS

TDE-3.3381 TRA-2.0944 TC3 .0011 BAU .1328
RDE 4.1547 RRA 1.3161 RC3 -.1234 FAU .00052
FDE 2.7093 FRA 1.1437 FC3 -.0056 BSP 11923
BDE 5.3296 BRA 2.4736 BC3 .1235 FSP -529

MID-COURSE EXECUTION ACCURACY

SGT 2789.5 SGR 2892.7 SG3 171.9
RRT -.9531 RRF .9910 RTF -.9830
SGB 4018.6 R23 -.0204 R13 .9989
SG1 3971.3 SG2 614.8 THA 133.91

ORBIT DETERMINATION ACCURACY

ST 2139.2 SR 2675.0 SS 1598.3
CRT -.9927 CRS -.9991 CST .9969
LSA 3808.5 MSA 205.4 SSA 2.2
EL1 3456.9 EL2 205.2 ALF 129.38

LAUNCH DATE OCT 8 1965 FLIGHT TIME 148.00 ARRIVAL DATE MAR 5 1966

HELIOCENTRIC CONIC DISTANCE 395.449

RL 149.46 LAL .00 LOL 14.51 VL 27.260 GAL 2.65 AZL 66.85 HCA 171.90 SMA 128.50 ECC .16940 INC23.1528 VI 29.813
RP 107.80 LAP 3.18 LOP 187.05 VP 37.809 GAP -3.04 AZP 112.95 TAL 166.80 TAP 338.70 RCA 106.73 APO 150.26 V2 35.155
RC 65.219 GL 64.60 GP -81.04 ZAL 81.46 ZAP 81.05 ETS 105.04 ZAE 85.96 ETE 348.01 ZAC 106.20 ETC 204.25 CLP 2.24

PLANETOCENTRIC CONIC

C3 140.493 VHL 11.853 DLA 43.51 RAL 289.71 RAD 6570.5 VEL 16.181 PTH 2.84 VHP 14.162 DPA -63.77 RAP 77.38 ECC 3.3122

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
55.47	19 50 27	4677.18	-9.51	215.17	189.56	47.34	21 8 24	4077.2	-14.87	209.51
124.53	3 16 23	3312.88	-9.49	110.05	189.54	47.33	4 11 36	2712.9	-14.85	104.39
55.47	19 50 27	4677.18	-9.51	215.17	189.56	47.34	21 8 24	4077.2	-14.87	209.51
124.53	3 16 23	3312.88	-9.49	110.05	189.54	47.33	4 11 36	2712.9	-14.85	104.39
55.47	19 50 27	4677.18	-9.51	215.17	189.56	47.34	21 8 24	4077.2	-14.87	209.51
124.53	3 16 23	3312.88	-9.49	110.05	189.54	47.33	4 11 36	2712.9	-14.85	104.39

DIFFERENTIAL CORRECTIONS

TDE-7.5859 TRA-2.7797 TC3 -.0875 BAU .1770
RDE -.8679 RRA -.7749 RC3 -.0350 FAU-.00806
FDE 2.5347 FRA .9315 FC3 .0497 BSP 12853
BDE 7.6354 BRA 2.8857 BC3 .0943 FSP -386

MID-COURSE EXECUTION ACCURACY

SGT 4113.6 SGR 670.5 SG3 119.1
RRT .9109 RRF -.9135 RTF -.9994
SGB 4167.9 R23 .0021 R13 -.9994
SG1 4158.9 SG2 273.7 THA 8.48

ORBIT DETERMINATION ACCURACY

ST 3708.8 SR 447.2 SS 1516.5
CRT .9794 CRS .9795 CST 1.0000
LSA 4030.8 MSA 89.8 SSA 1.7
EL1 3734.6 EL2 89.7 ALF 6.74

LAUNCH DATE OCT 8 1965 FLIGHT TIME 150.00 ARRIVAL DATE MAR 7 1966

DISTANCE 401.534

HELIOCENTRIC CONIC

RL 149.46 LAL .00 LOL 14.51 VL 27.283 GAL 2.68 AZL 53.64 HCA 174.76 SMA 128.65 ECC .16821 INC36.3561 V1 29.813
RP 107.83 LAP 3.10 LOP 190.28 VP 37.814 GAP -2.67 AZP 126.24 TAL 166.52 TAP 341.28 RCA 107.01 APO 150.29 V2 35.143
RC 67.327 GL 63.49 GP -78.00 ZAL 84.36 ZAP 84.90 ETS 171.19 ZAE 74.82 ETE 54.75 ZAC 116.02 ETC 274.73 CLP 64.69

PLANETOCENTRIC CONIC

C3 325.946 VHL 18.054 DLA 41.54 RAL 285.84 RAD 6571.8 VEL 21.148 PTH 3.20 VHP 22.077 DPA -54.17 RAP 90.22 ECC 6.3642

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
58.24	19 46 31	4771.29	-3.55	218.05	191.84	48.59	21 6 2	4171.3	-8.81	212.40
121.76	2 49 26	3469.44	-3.53	118.43	191.83	48.59	3 47 16	2869.4	-8.79	112.79
58.24	19 46 31	4771.29	-3.55	218.05	191.84	48.59	21 6 2	4171.3	-8.81	212.40
121.76	2 49 26	3469.44	-3.53	118.43	191.83	48.59	3 47 16	2869.4	-8.79	112.79
58.24	19 46 31	4771.29	-3.55	218.05	191.84	48.59	21 6 2	4171.3	-8.81	212.40
121.76	2 49 26	3469.44	-3.53	118.43	191.83	48.59	3 47 16	2869.4	-8.79	112.79

DIFFERENTIAL CORRECTIONS

TOE-4.4349 TRA -.3445 TC3 -.0984 BAU 1.0193
RO-11.0872 RRA-3.9107 RC3 -.2122 FAU-.02287
FOE 2.6659 FRA .9117 FC3 .0608 BSP 13025
BOE11.9413 BRA 3.9259 BC3 .2339 FSP -269

MID-COURSE EXECUTION ACCURACY

SGT 1458.9 SGR 3964.4 SG3 82.6
RRT .9452 RRF -.9992 RTF -.9504
SGB 4224.4 R23 -.0194 R13 -.9992
SG1 4200.4 SG2 449.7 THA 70.59

ORBIT DETERMINATION ACCURACY

ST 1408.2 SR 3553.7 SS 1628.9
CRT .9940 CRS 1.0000 CST .9945
LSA 4152.6 MSA 143.8 SSA 1.9
EL1 3819.8 EL2 142.9 ALF 68.47

LAUNCH DATE OCT 8 1965 FLIGHT TIME 152.00 ARRIVAL DATE MAR 9 1966

DISTANCE 406.681

HELIOCENTRIC CONIC

RL 149.46 LAL .00 LOL 14.51 VL 27.302 GAL 2.90 AZL 18.22 HCA 176.82 SMA 128.78 ECC .16814 INC71.7832 V1 29.813
RP 107.87 LAP 3.02 LOP 193.51 VP 37.817 GAP -2.53 AZP 161.76 TAL 165.41 TAP 342.23 RCA 107.13 APO 150.43 V2 35.132
RC 69.470 GL 50.48 GP -57.76 ZAL 86.80 ZAP 87.43 ETS 181.60 ZAE 54.64 ETE 62.23 ZAC 135.33 ETC 294.11 CLP 85.19

PLANETOCENTRIC CONIC

C31127.398 VHL 33.577 DLA 27.98 RAL 283.95 RAD 6573.0 VEL 35.337 PTH 3.52 VHP 42.028 DPA -33.31 RAP 98.85 ECC19.5541

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	23 47 1	4084.97	-3.67	165.56	196.78	61.90	24 55 6	3485.0	-7.40	158.86
90.00	22 29 58	4335.23	4.39	179.54	192.49	62.00	23 42 14	3735.2	.61	172.90
100.00	2 3 25	3657.90	-9.32	137.20	199.84	61.47	3 4 23	3057.9	-13.06	130.40
100.00	23 0 11	4237.52	10.05	169.32	189.44	61.70	24 10 49	3637.5	6.19	162.66
110.00	4 15 46	3243.66	-17.63	110.51	204.60	60.23	5 9 50	2643.7	-21.46	103.47
110.00	23 4 19	4224.53	18.39	163.61	184.71	60.66	24 14 44	3624.5	14.34	156.84

DIFFERENTIAL CORRECTIONS

TOE-5.9897 TRA .7523 TC3 -.1025 BAU 4.2785
RO-16.6237 RRA-6.8755 RC3 -.2647 FAU-.07528
FOE 3.4646 FRA 1.4863 FC3 .0578 BSP 11411
BOE17.6699 BRA 6.9165 BC3 .2639 FSP -207

MID-COURSE EXECUTION ACCURACY

SGT 1241.0 SGR 3601.6 SG3 66.0
RRT .8794 RRF -.9998 RTF -.8760
SGB 3809.4 R23 -.0531 R13 -.9984
SG1 3767.3 SG2 564.9 THA 72.74

ORBIT DETERMINATION ACCURACY

ST 1023.2 SR 2865.1 SS 2169.8
CRT .9834 CRS 1.0000 CST .9825
LSA 3732.4 MSA 180.5 SSA 1.7
EL1 3037.3 EL2 174.9 ALF 70.58

LAUNCH DATE OCT 8 1965 FLIGHT TIME 154.00 ARRIVAL DATE MAR 11 1966

DISTANCE 417.293

HELIOCENTRIC CONIC

RL 149.46 LAL .00 LOL 14.51 VL 27.317 GAL 2.11 AZL 142.74 HCA 183.68 SMA 128.89 ECC .16372 INC52.7395 V1 29.813
RP 107.90 LAP 2.93 LOP 196.74 VP 37.817 GAP -1.01 AZP 37.32 TAL 169.10 TAP 352.78 RCA 107.78 APO 149.99 V2 35.120
RC 71.643 GL -58.40 GP 66.86 ZAL 86.62 ZAP 88.48 ETS 191.75 ZAE 75.92 ETE 302.90 ZAC 97.90 ETC 81.15 CLP 86.14

PLANETOCENTRIC CONIC

C3 650.706 VHL 25.509 DLA -77.44 RAL 329.61 RAD 6572.6 VEL 27.785 PTH 3.41 VHP 33.432 DPA 87.41 RAP 221.07 ECC11.7090

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
14.30	8 41 1	2432.11	1.17	82.14	239.34	167.44	9 21 33	1832.1	8.98	80.80
165.70	19 44 8	642.23	1.17	283.41	239.35	167.44	19 54 50	42.2	8.98	282.07
14.30	8 41 1	2432.11	1.17	82.14	239.34	167.44	9 21 33	1832.1	8.98	80.80
165.70	19 44 8	642.23	1.17	283.41	239.35	167.44	19 54 50	42.2	8.98	282.07
14.30	8 41 1	2432.11	1.17	82.14	239.34	167.44	9 21 33	1832.1	8.98	80.80
165.70	19 44 8	642.23	1.17	283.41	239.35	167.44	19 54 50	42.2	8.98	282.07

DIFFERENTIAL CORRECTIONS

TOE 5.0324 TRA-1.5026 TC3 -.1465 BAU 2.5475
ROE-3.6525 RRA 3.2068 RC3 .2535 FAU-.04254
FOE-1.0671 FRA .7304 FC3 .0566 BSP 13018
BOE 6.2182 BRA 3.5414 BC3 .2928 FSP -232

MID-COURSE EXECUTION ACCURACY

SGT 2060.6 SGR 3649.6 SG3 72.8
RRT -.9356 RRF .9981 RTF -.9548
SGB 4191.1 R23 -.0246 R13 .9995
SG1 4141.8 SG2 640.9 THA 118.59

ORBIT DETERMINATION ACCURACY

ST 1222.7 SR 1289.2 SS 952.6
CRT -.8824 CRS -.9923 CST .9338
LSA 1967.7 MSA 439.2 SSA 1.2
EL1 1724.0 EL2 430.2 ALF 133.28

LAUNCH DATE OCT 8 1965 FLIGHT TIME 156.00 ARRIVAL DATE MAR 13 1966

DISTANCE 422.865

HELIOCENTRIC CONIC

RL 149.46 LAL .00 LOL 14.51 VL 27.330 GAL 2.27 AZL 117.46 HCA 186.14 SMA 128.97 ECC .16359 INC27.4639 V1 29.813
RP 107.94 LAP 2.83 LOP 199.96 VP 37.815 GAP -.78 AZP 62.67 TAL 168.28 TAP 354.42 RCA 107.87 APO 150.07 V2 35.108
RC 73.845 GL -65.28 GP 83.11 ZAL 83.46 ZAP 87.72 ETS 227.82 ZAE 91.36 ETE 336.08 ZAC 82.63 ETC 113.55 CLP 70.65

PLANETOCENTRIC CONIC

C3 192.225 VHL 13.865 DLA -77.69 RAL 8.15 RAD 6571.0 VEL 17.707 PTH 2.98 VHP 18.584 DPA 72.37 RAP 280.65 ECC 4.1635

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
14.01	11 14 12	2300.39	9.96	80.90	275.94	167.50	11 52 33	1700.4	17.76	79.50
165.99	22 18 28	5797.65	9.96	259.79	275.96	167.50	23 55 5	5197.7	17.77	258.39
14.01	11 14 12	2300.39	9.96	80.90	275.94	167.50	11 52 33	1700.4	17.76	79.50
165.99	22 18 28	5797.65	9.96	259.79	275.96	167.50	23 55 5	5197.7	17.77	258.39
14.01	11 14 12	2300.39	9.96	80.90	275.94	167.50	11 52 33	1700.4	17.76	79.50
165.99	22 18 28	5797.65	9.96	259.79	275.96	167.50	23 55 5	5197.7	17.77	258.39

DIFFERENTIAL CORRECTIONS

TOE-2.2638 TRA-1.9892 TC3 -.1481 BAU .4578
ROE 2.8359 RRA 1.0155 RC3 .0990 FAU-.00803
FOE .9435 FRA .5664 FC3 .0362 BSP 14148
BOE 3.6286 BRA 2.2334 BC3 .1781 FSP -318

MID-COURSE EXECUTION ACCURACY

SGT 3989.4 SGR 2307.4 SG3 101.0
RRT -.9561 RRF .9806 RTF -.9946
SGB 4608.6 R23 -.0285 R13 .9993
SG1 4570.6 SG2 590.4 THA 150.52

ORBIT DETERMINATION ACCURACY

ST 1487.9 SR 1312.4 SS 819.6
CRT -.9115 CRS -.9726 CST .9821
LSA 2106.3 MSA 414.0 SSA 1.3
EL1 1940.3 EL2 414.0 ALF 138.93

LAUNCH DATE OCT 8 1965 FLIGHT TIME 158.00 ARRIVAL DATE MAR 15 1966

HELIOCENTRIC CONIC DISTANCE 428.967

RL	149.46	LAL	.00	LOL	14.51	VL	27.339	GAL	2.33	AZL	107.48	HCA	189.09	SMA	129.03	ECC	.16331	INC	17.4752
RP	107.98	LAP	2.72	LOP	203.18	VP	37.810	GAP	-.42	AZP	72.73	TAL	167.91	TAP	357.00	RCA	107.96	APO	150.10
RC	76.070	GL	-63.53	GP	86.45	ZAL	79.88	ZAP	87.69	ETS	313.31	ZAE	99.84	ETE	59.73	ZAC	74.48	ETC	194.63
VI	29.813	V2	35.095	CLP	-49.49														

PLANETOCENTRIC CONIC

C3	83.964	VHL	9.163	DLA	-74.06	RAL	6.84	RAD	6569.6	VEL	14.329	PTH	2.61	VHP	12.521	DPA	63.42	RAP	284.61
ECC	2.3818																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
18.18	11 17 22	2132.35	20.27	75.64	270.77	162.98	11 52 54	1532.4	27.90	73.42
161.82	22 4 52	5644.66	20.28	258.67	270.80	162.98	23 38 57	5044.7	27.91	256.44
18.18	11 17 22	2132.35	20.27	75.64	270.77	162.98	11 52 54	1532.4	27.90	73.42
161.82	22 4 52	5644.66	20.28	258.67	270.80	162.98	23 38 57	5044.7	27.91	256.44
18.18	11 17 22	2132.35	20.27	75.64	270.77	162.98	11 52 54	1532.4	27.90	73.42
161.82	22 4 52	5644.66	20.28	258.67	270.80	162.98	23 38 57	5044.7	27.91	256.44

DIFFERENTIAL CORRECTIONS

TDE	-1.8207	TRA	-.8972	TC3	-.0093	BAU	.1318												
RDE	-1.5476	RRA	-1.7423	RC3	.1171	FAU	.00619												
FDE	.9006	FRA	.7103	FC3	-.0639	BSP	14798												
BDE	2.3896	BRA	1.9597	BC3	.1174	FSP	-478												

MID-COURSE EXECUTION ACCURACY

SGT	2338.7	SGR	4089.1	SG3	148.3						
RRT	.9623	RRF	-.9953	RTF	-.9822						
SGB	4710.6	R23	.0234	R13	-.9991						
SG1	4677.7	SG2	556.4	THA	60.72						

ORBIT DETERMINATION ACCURACY

ST	1293.0	SR	1533.9	SS	804.1						
CRT	.9233	CRS	.9844	CST	.9765						
LSA	2126.3	MSA	387.2	SSA	1.9						
ELI	1968.5	EL2	387.1	ALF	50.27						

LAUNCH DATE OCT 8 1965 FLIGHT TIME 160.00 ARRIVAL DATE MAR 17 1966

HELIOCENTRIC CONIC DISTANCE 435.202

RL	149.46	LAL	.00	LOL	14.51	VL	27.345	GAL	2.38	AZL	102.43	HCA	192.17	SMA	129.08	ECC	.16313	INC	12.4280
RP	108.02	LAP	2.60	LOP	206.40	VP	37.803	GAP	-.03	AZP	77.84	TAL	167.64	TAP	359.81	RCA	108.02	APO	150.13
RC	78.316	GL	-59.04	GP	80.52	ZAL	76.23	ZAP	88.51	ETS	340.48	ZAE	105.80	ETE	85.57	ZAC	68.62	ETC	217.40
VI	29.813	V2	35.082	CLP	-80.90														

PLANETOCENTRIC CONIC

C3	47.020	VHL	6.857	DLA	-69.82	RAL	358.47	RAD	6568.8	VEL	12.976	PTH	2.37	VHP	9.492	DPA	56.90	RAP	286.17
ECC	1.7738																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
23.07	10 54 14	1981.24	28.55	68.23	256.93	156.88	11 27 15	1381.2	35.86	64.78
156.93	21 21 14	5516.94	28.56	256.29	256.95	156.88	22 53 11	4916.9	35.86	252.84
23.07	10 54 14	1981.24	28.55	68.23	256.93	156.88	11 27 15	1381.2	35.86	64.78
156.93	21 21 14	5516.94	28.56	256.29	256.95	156.88	22 53 11	4916.9	35.86	252.84
23.07	10 54 14	1981.24	28.55	68.23	256.93	156.88	11 27 15	1381.2	35.86	64.78
156.93	21 21 14	5516.94	28.56	256.29	256.95	156.88	22 53 11	4916.9	35.86	252.84

DIFFERENTIAL CORRECTIONS

TDE	-.7190	TRA	-.0392	TC3	-.0905	BAU	.3197												
RDE	-.9691	RRA	-1.8951	RC3	.5005	FAU	.01734												
FDE	.6447	FRA	.9719	FC3	-.3193	BSP	15027												
BDE	1.2067	BRA	1.8955	BC3	.5086	FSP	-691												

MID-COURSE EXECUTION ACCURACY

SGT	620.8	SGR	4712.4	SG3	212.1						
RRT	.2863	RRF	-.9982	RTF	-.3235						
SGB	4753.1	R23	.0346	R13	-.9984						
SG1	4715.8	SG2	594.4	THA	87.81						

ORBIT DETERMINATION ACCURACY

ST	601.5	SR	1597.9	SS	728.6						
CRT	.5469	CRS	.9928	CST	.6432						
LSA	1789.5	MSA	493.3	SSA	2.6						
ELI	1634.9	EL2	492.2	ALF	77.19						

LAUNCH DATE OCT 8 1965 FLIGHT TIME 162.00 ARRIVAL DATE MAR 19 1966

HELIOCENTRIC CONIC DISTANCE 441.478

RL	149.46	LAL	.00	LOL	14.51	VL	27.349	GAL	2.43	AZL	99.41	HCA	195.30	SMA	129.10	ECC	.16312	INC	9.4122
RP	108.06	LAP	2.47	LOP	209.62	VP	37.793	GAP	.38	AZP	80.92	TAL	167.37	TAP	2.68	RCA	108.04	APO	150.16
RC	80.581	GL	-53.57	GP	75.18	ZAL	72.65	ZAP	90.11	ETS	352.01	ZAE	110.52	ETE	96.30	ZAC	63.66	ETC	224.67
VI	29.813	V2	35.069	CLP	-90.43														

PLANETOCENTRIC CONIC

C3	30.847	VHL	5.554	DLA	-64.99	RAL	350.82	RAD	6568.2	VEL	12.338	PTH	2.22	VHP	7.733	DPA	51.42	RAP	286.76
ECC	1.5077																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
28.71	10 36 14	1857.24	33.78	58.95	242.62	149.42	11 7 11	1257.2	40.55	54.02
151.29	20 38 11	5428.40	33.79	253.15	242.64	149.42	22 8 39	4828.4	40.56	248.22
28.71	10 36 14	1857.24	33.78	58.95	242.62	149.42	11 7 11	1257.2	40.55	54.02
151.29	20 38 11	5428.40	33.79	253.15	242.64	149.42	22 8 39	4828.4	40.56	248.22
28.71	10 36 14	1857.24	33.78	58.95	242.62	149.42	11 7 11	1257.2	40.55	54.02
151.29	20 38 11	5428.40	33.79	253.15	242.64	149.42	22 8 39	4828.4	40.56	248.22

DIFFERENTIAL CORRECTIONS

TDE	-.4635	TRA	.3043	TC3	-.3197	BAU	.4080												
RDE	-.4339	RRA	-1.8634	RC3	.9362	FAU	.02798												
FDE	.4358	FRA	1.3092	FC3	-.7853	BSP	14992												
BDE	.6349	BRA	1.8881	BC3	.9892	FSP	-937												

MID-COURSE EXECUTION ACCURACY

SGT	951.7	SGR	4685.0	SG3	288.7						
RRT	-.7917	RRF	-.9984	RTF	.7754						
SGB	4780.7	R23	.0442	R13	-.9977						
SG1	4746.1	SG2	574.0	THA	99.27						

ORBIT DETERMINATION ACCURACY

ST	527.6	SR	1435.8	SS	707.3						
CRT	-.1188	CRS	.9926	CST	.0023						
LSA	1599.6	MSA	530.5	SSA	3.3						
ELI	1437.3	EL2	523.3	ALF	92.88						

LAUNCH DATE OCT 8 1965 FLIGHT TIME 164.00 ARRIVAL DATE MAR 21 1966

HELIOCENTRIC CONIC DISTANCE 447.762

RL	149.46	LAL	.00	LOL	14.51	VL	27.351	GAL	2.49	AZL	97.41	HCA	198.46	SMA	129.11	ECC	.16329	INC	7.4068
RP	108.10	LAP	2.34	LOP	212.83	VP	37.782	GAP	.78	AZP	82.97	TAL	167.08	TAP	5.55	RCA	108.03	APO	150.20
RC	82.862	GL	-47.82	GP	70.35	ZAL	69.25	ZAP	92.41	ETS	359.71	ZAE	114.44	ETE	103.81	ZAC	59.13	ETC	228.33
VI	29.813	V2	35.056	CLP	-97.18														

PLANETOCENTRIC CONIC

C3	22.599	VHL	4.754	DLA	-59.80	RAL	344.97	RAD	6567.9	VEL	11.999	PTH	2.14	VHP	6.613	DPA	46.48	RAP	286.81
ECC	1.3719																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
34.85	10 27 43	1754.90	36.18	48.64	229.75	141.44	10 56 58	1154.9	42.26	42.33
145.15	20 0 1	5376.69	36.19	250.06	229.77	141.44	21 29 38	4776.7	42.27	243.75
34.85	10 27 43	1754.90	36.18	48.64	229.75	141.44	10 56 58	1154.9	42.26	42.33
145.15	20 0 1	5376.69	36.19	250.06	229.77	141.44	21 29 38	4776.7	42.27	243.75
34.85	10 27 43	1754.90	36.18	48.64	229.75	141.44	10 56 58	1154.9	42.26	42.33
145.15	20 0 1	5376.69	36.19	250.06	229.77	141.44	21 29 38	4776.7	42.27	243.75

DIFFERENTIAL CORRECTIONS

TDE	-.3697	TRA	.5454	TC3	-.6649	BAU	.4564												
RDE	-.1893	RRA	-1.8147	RC3	1.3565	FAU	.03847												
FDE	.3220	FRA	1.6920	FC3	-1.4737	BSP	14943												
BDE	.4153	BRA	1.8949	BC3	1.5106	FSP	-1206												

MID-COURSE EXECUTION ACCURACY

SGT	1518.4	SGR	4540.5	SG3	372.1						
RRT	-.9275	RRF	-.9982	RTF	.9190						
SGB	4787.7	R23	.0539	R13	-.9969						
SG1	4756.9	SG2	541.8	THA	107.47						

ORBIT DETERMINATION ACCURACY

ST	593.8	SR	1324.6	SS	729.7						
CRT	-.5217	CRS	.9908	CST	-.4016						
LSA	1541.7	MSA	512.7	SSA	4.1						
ELI	1366.0	EL2	491.2	ALF	105.17						

LAUNCH DATE OCT 8 1965 FLIGHT TIME 166.00 ARRIVAL DATE MAR 23 1966

DISTANCE 454.039

HELIOCENTRIC CONIC

RL 149.46 LAL .00 LOL 14.51 VL 27.350 GAL 2.55 AZL 95.97 HCA 201.64 SMA 129.11 ECC .16365 INC 5.9723 V1 29.813
RP 108.14 LAP 2.20 LOP 216.04 VP 37.769 GAP 1.18 AZP 84.45 TAL 166.76 TAP 8.39 RCA 107.98 APO 150.24 V2 35.043
RC 85.157 GL -42.12 GP 65.83 ZAL 66.12 ZAP 95.28 ETS 5.74 ZAE 117.73 ETE 110.28 ZAC 54.83 ETC 230.53 CLP-103.00

PLANETOCENTRIC CONIC

C3 17.968 VHL 4.239 DLA -54.52 RAL 340.67 RAD 6567.7 VEL 11.805 PTH 2.09 VHP 5.861 DPA 41.86 RAP 286.54 ECC 1.2957

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
41.24	10 27 42	1665.97	36.42	38.19	218.93	133.84	10 55 28	1066.0	41.72	30.88
138.76	19 25 42	5356.33	36.43	247.92	218.94	133.83	20 54 58	4756.3	41.73	240.61
41.24	10 27 42	1665.97	36.42	38.19	218.93	133.84	10 55 28	1066.0	41.72	30.88
138.76	19 25 42	5356.33	36.43	247.92	218.94	133.83	20 54 58	4756.3	41.73	240.61
41.24	10 27 42	1665.97	36.42	38.19	218.93	133.84	10 55 28	1066.0	41.72	30.88
138.76	19 25 42	5356.33	36.43	247.92	218.94	133.83	20 54 58	4756.3	41.73	240.61

DIFFERENTIAL CORRECTIONS

TDE -.3064 TRA .7539 TC3-1.0997 BAU .4893
RDE -.1011 RRA-1.7504 RC3 1.7143 FAU .04870
FDE .2995 FRA 2.0914 FC3-2.3467 BSP 14959
BDE .3226 BRA 1.9058 BC3 2.0368 FSP -1489

MID-COURSE EXECUTION ACCURACY

SGT 2030.6 SGR 4330.0 SG3 455.9
RRT -.9617 RRF -.9980 RTF .9555
SGB 4782.5 R23 .0638 R13 -.9960
SG1 4755.6 SG2 506.8 THA 114.57

ORBIT DETERMINATION ACCURACY

ST 670.6 SR 1231.3 SS 768.5
CRT -.7130 CRS .9874 CST -.5933
LSA 1526.1 MSA 476.9 SSA 4.9
EL1 1333.2 EL2 434.3 ALF 113.92

LAUNCH DATE OCT 8 1965 FLIGHT TIME 168.00 ARRIVAL DATE MAR 25 1966

DISTANCE 460.304

HELIOCENTRIC CONIC

RL 149.46 LAL .00 LOL 14.51 VL 27.347 GAL 2.63 AZL 94.89 HCA 204.81 SMA 129.09 ECC .16419 INC 4.8907 V1 29.813
RP 108.18 LAP 2.05 LOP 219.24 VP 37.755 GAP 1.57 AZP 85.56 TAL 166.39 TAP 11.21 RCA 107.89 APO 150.28 V2 35.030
RC 87.465 GL -36.67 GP 61.52 ZAL 63.28 ZAP 98.61 ETS 10.70 ZAE 120.46 ETE 116.32 ZAC 50.71 ETC 231.86 CLP-108.30

PLANETOCENTRIC CONIC

C3 15.208 VHL 3.900 DLA -49.37 RAL 337.52 RAD 6567.6 VEL 11.687 PTH 2.06 VHP 5.342 DPA 37.46 RAP 286.11 ECC 1.2503

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
47.70	10 34 54	1582.91	35.19	28.08	210.27	127.18	11 1 17	982.9	39.75	20.21
132.30	18 53 22	5363.07	35.20	247.34	210.28	127.17	20 22 45	4763.1	39.76	239.46
47.70	10 34 54	1582.91	35.19	28.08	210.27	127.18	11 1 17	982.9	39.75	20.21
132.30	18 53 22	5363.07	35.20	247.34	210.28	127.17	20 22 45	4763.1	39.76	239.46
47.70	10 34 54	1582.91	35.19	28.08	210.27	127.18	11 1 17	982.9	39.75	20.21
132.30	18 53 22	5363.07	35.20	247.34	210.28	127.17	20 22 45	4763.1	39.76	239.46

DIFFERENTIAL CORRECTIONS

TDE -.2400 TRA .9476 TC3-1.5871 BAU .5134
RDE -.0894 RRA-1.6757 RC3 1.9639 FAU .05798
FDE .3580 FRA 2.4874 FC3-3.3003 BSP 14969
BDE .2561 BRA 1.9251 BC3 2.5250 FSP -1759

MID-COURSE EXECUTION ACCURACY

SGT 2495.5 SGR 4081.4 SG3 535.4
RRT -.9752 RRF -.9976 RTF .9700
SGB 4783.9 R23 .0730 R13 -.9950
SG1 4760.4 SG2 473.2 THA 121.15

ORBIT DETERMINATION ACCURACY

ST 732.9 SR 1142.7 SS 814.9
CRT -.8154 CRS .9825 CST -.6934
LSA 1520.6 MSA 441.3 SSA 5.9
EL1 1305.8 EL2 371.3 ALF 120.31

LAUNCH DATE OCT 8 1965 FLIGHT TIME 170.00 ARRIVAL DATE MAR 27 1966

DISTANCE 466.553

HELIOCENTRIC CONIC

RL 149.46 LAL .00 LOL 14.51 VL 27.342 GAL 2.72 AZL 94.04 HCA 208.00 SMA 129.05 ECC .16492 INC 4.0418 V1 29.813
RP 108.22 LAP 1.90 LOP 222.45 VP 37.739 GAP 1.97 AZP 86.43 TAL 165.99 TAP 13.98 RCA 107.77 APO 150.34 V2 35.016
RC 89.783 GL -31.58 GP 57.38 ZAL 60.75 ZAP 102.27 ETS 14.83 ZAE 122.67 ETE 122.08 ZAC 46.76 ETC 232.51 CLP-113.22

PLANETOCENTRIC CONIC

C3 13.515 VHL 3.676 DLA -44.47 RAL 335.21 RAD 6567.5 VEL 11.615 PTH 2.04 VHP 4.981 DPA 33.26 RAP 285.61 ECC 1.2224

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
54.16	10 48 39	1498.96	33.08	18.33	203.62	121.61	11 13 38	899.0	36.98	10.22
125.84	18 21 11	5394.79	33.09	248.62	203.63	121.60	19 51 6	4794.8	36.99	240.50
54.16	10 48 39	1498.96	33.08	18.33	203.62	121.61	11 13 38	899.0	36.98	10.22
125.84	18 21 11	5394.79	33.09	248.62	203.63	121.60	19 51 6	4794.8	36.99	240.50
54.16	10 48 39	1498.96	33.08	18.33	203.62	121.61	11 13 38	899.0	36.98	10.22
125.84	18 21 11	5394.79	33.09	248.62	203.63	121.60	19 51 6	4794.8	36.99	240.50

DIFFERENTIAL CORRECTIONS

TDE -.1625 TRA 1.1320 TC3-2.0861 BAU .5341
RDE -.1076 RRA-1.5926 RC3 2.0941 FAU .06587
FDE .4760 FRA 2.8575 FC3-4.2195 BSP 15010
BDE .1949 BRA 1.9539 BC3 2.9558 FSP -2002

MID-COURSE EXECUTION ACCURACY

SGT 2920.4 SGR 3807.4 SG3 605.5
RRT -.9819 RRF -.9971 RTF .9771
SGB 4798.5 R23 .0804 R13 -.9939
SG1 4778.2 SG2 440.6 THA 127.36

ORBIT DETERMINATION ACCURACY

ST 785.1 SR 1057.9 SS 867.5
CRT -.8833 CRS .9764 CST -.7614
LSA 1523.7 MSA 407.6 SSA 7.0
EL1 1281.8 EL2 303.7 ALF 125.54

LAUNCH DATE OCT 8 1965 FLIGHT TIME 172.00 ARRIVAL DATE MAR 29 1966

DISTANCE 472.783

HELIOCENTRIC CONIC

RL 149.46 LAL .00 LOL 14.51 VL 27.335 GAL 2.82 AZL 93.35 HCA 211.18 SMA 129.01 ECC .16583 INC 3.3542 V1 29.813
RP 108.26 LAP 1.74 LOP 225.65 VP 37.722 GAP 2.36 AZP 87.13 TAL 165.54 TAP 16.72 RCA 107.61 APO 150.40 V2 35.003
RC 92.112 GL -26.89 GP 53.42 ZAL 58.51 ZAP 106.13 ETS 18.27 ZAE 124.38 ETE 127.59 ZAC 43.00 ETC 232.51 CLP-117.78

PLANETOCENTRIC CONIC

C3 12.476 VHL 3.532 DLA -39.89 RAL 333.51 RAD 6567.5 VEL 11.570 PTH 2.02 VHP 4.733 DPA 29.24 RAP 285.15 ECC 1.2053

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
60.64	11 9 12	1407.15	30.51	8.60	198.65	117.05	11 32 39	807.1	33.87	.43
119.36	17 47 8	5452.15	30.53	251.95	198.66	117.03	19 18 0	4852.2	33.88	243.78
60.64	11 9 12	1407.15	30.51	8.60	198.65	117.05	11 32 39	807.1	33.87	.43
119.36	17 47 8	5452.15	30.53	251.95	198.66	117.03	19 18 0	4852.2	33.88	243.78
60.64	11 9 12	1407.15	30.51	8.60	198.65	117.05	11 32 39	807.1	33.87	.43
119.36	17 47 8	5452.15	30.53	251.95	198.66	117.03	19 18 0	4852.2	33.88	243.78

DIFFERENTIAL CORRECTIONS

TDE -.0728 TRA 1.3093 TC3-2.5588 BAU .5535
RDE -.1337 RRA-1.5037 RC3 2.1128 FAU .07203
FDE .6330 FRA 3.1830 FC3-4.9978 BSP 15098
BDE .1522 BRA 1.9939 BC3 3.3183 FSP -2204

MID-COURSE EXECUTION ACCURACY

SGT 3308.1 SGR 3518.7 SG3 662.5
RRT -.9856 RRF -.9964 RTF .9811
SGB 4829.6 R23 .0848 R13 -.9928
SG1 4812.2 SG2 409.5 THA 133.21

ORBIT DETERMINATION ACCURACY

ST 840.5 SR 979.1 SS 927.2
CRT -.9343 CRS .9697 CST -.8191
LSA 1544.1 MSA 374.8 SSA 8.1
EL1 1269.5 EL2 231.2 ALF 130.34

LAUNCH DATE OCT 8 1965 FLIGHT TIME 174.00 ARRIVAL DATE MAR 31 1966

HELIOCENTRIC CONIC DISTANCE 478.994

RL 149.46 LAL .00 LOL 14.51 VL 27.327 GAL 2.94 AZL 92.78 HCA 214.37 SMA 128.95 ECC .16692 INC 2.7828 V1 29.813
RP 108.31 LAP 1.57 LOP 228.84 VP 37.703 GAP 2.74 AZP 87.70 TAL 165.04 TAP 19.41 RCA 107.43 APO 150.47 V2 34.990
RC 94.449 GL -22.62 GP 49.64 ZAL 56.54 ZAP 110.08 ETS 21.12 ZAE 125.62 ETE 132.81 ZAC 39.49 ETC 231.87 CLP-122.02

PLANETOCENTRIC CONIC

C3 11.868 VHL 3.445 DLA -35.67 RAL 332.29 RAD 6567.5 VEL 11.544 PTH 2.01 VHP 4.571 DPA 25.42 RAP 284.77 ECC 1.1953

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
67.35	11 38 18	1297.51	27.78	358.15	195.05	113.33	11 59 56	697.5	30.68	350.02
112.65	17 8 15	5540.63	27.79	257.71	195.05	113.31	18 40 36	4940.6	30.69	249.58
67.35	11 38 18	1297.51	27.78	358.15	195.05	113.33	11 59 56	697.5	30.68	350.02
112.65	17 8 15	5540.63	27.79	257.71	195.05	113.31	18 40 36	4940.6	30.69	249.58
67.35	11 38 18	1297.51	27.78	358.15	195.05	113.33	11 59 56	697.5	30.68	350.02
112.65	17 8 15	5540.63	27.79	257.71	195.05	113.31	18 40 36	4940.6	30.69	249.58

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE .0283 TRA 1.4822 TC3-2.9763 BAU .5723 SGT 3662.5 SGR 3229.1 SG3 704.8 ST 913.6 SR 908.9 SS 995.2
RDE -.1584 RRA-1.4147 RC3 2.0375 FAU .07611 RRT -.9875 RRF -.9954 RTF .9834 CRT -.9706 CRS .9631 CST -.8703
FDE .8129 FRA 3.4571 FC3-5.5522 BSP 15205 SGB 4882.8 R23 .0859 R13 -.9917 LSA 1591.4 MSA 343.9 SSA 9.4
BDE .1609 BRA 2.0490 BC3 3.6069 FSP -2349 SG1 4867.7 SG2 383.4 THA 138.64 EL1 1279.1 EL2 156.3 ALF 135.15

LAUNCH DATE OCT 8 1965 FLIGHT TIME 176.00 ARRIVAL DATE APR 2 1966

HELIOCENTRIC CONIC DISTANCE 485.184

RL 149.46 LAL .00 LOL 14.51 VL 27.317 GAL 3.07 AZL 92.30 HCA 217.55 SMA 128.88 ECC .16819 INC 2.2978 V1 29.813
RP 108.35 LAP 1.40 LOP 232.04 VP 37.684 GAP 3.13 AZP 88.18 TAL 164.51 TAP 22.06 RCA 107.20 APO 150.56 V2 34.977
RC 96.794 GL -18.76 GP 46.07 ZAL 54.79 ZAP 114.03 ETS 23.46 ZAE 126.43 ETE 137.68 ZAC 36.27 ETC 230.57 CLP-125.95

PLANETOCENTRIC CONIC

C3 11.558 VHL 3.400 DLA -31.80 RAL 331.42 RAD 6567.4 VEL 11.530 PTH 2.01 VHP 4.476 DPA 21.83 RAP 284.51 ECC 1.1902

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
74.89	12 21 28	1148.98	25.04	345.41	192.51	110.27	12 40 37	549.0	27.57	337.36
105.11	16 18 10	5678.10	25.05	267.15	192.51	110.25	17 52 48	5078.1	27.58	259.10
74.89	12 21 28	1148.98	25.04	345.41	192.51	110.27	12 40 37	549.0	27.57	337.36
105.11	16 18 10	5678.10	25.05	267.15	192.51	110.25	17 52 48	5078.1	27.58	259.10
110.00	15 13 17	5879.80	17.90	279.00	188.94	119.62	16 51 17	5279.8	21.70	271.94
110.00	18 25 32	5283.32	32.64	239.28	194.91	100.75	19 53 35	4683.3	33.78	230.23

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE .1361 TRA 1.6487 TC3-3.3300 BAU .5932 SGT 3983.4 SGR 2943.9 SG3 731.1 ST 1009.5 SR 841.2 SS 1062.3
RDE -.1736 RRA-1.3242 RC3 1.9095 FAU .07861 RRT -.9885 RRF -.9942 RTF .9850 CRT -.9919 CRS .9562 CST -.9118
FDE .9894 FRA 3.6642 FC3-5.8880 BSP 15446 SGB 4953.1 R23 .0825 R13 -.9908 LSA 1660.0 MSA 315.2 SSA 10.7
BDE .2206 BRA 2.1147 BC3 3.8387 FSP -2456 SG1 4940.1 SG2 359.3 THA 143.63 EL1 1311.5 EL2 82.2 ALF 140.24

LAUNCH DATE OCT 8 1965 FLIGHT TIME 178.00 ARRIVAL DATE APR 4 1966

HELIOCENTRIC CONIC DISTANCE 491.352

RL 149.46 LAL .00 LOL 14.51 VL 27.305 GAL 3.21 AZL 91.88 HCA 220.73 SMA 128.80 ECC .16964 INC 1.8786 V1 29.813
RP 108.39 LAP 1.23 LOP 235.23 VP 37.664 GAP 3.51 AZP 88.58 TAL 163.93 TAP 24.66 RCA 106.95 APO 150.65 V2 34.964
RC 99.145 GL -15.30 GP 42.73 ZAL 53.23 ZAP 117.91 ETS 25.37 ZAE 126.88 ETE 142.15 ZAC 33.39 ETC 228.60 CLP-129.59

PLANETOCENTRIC CONIC

C3 11.469 VHL 3.387 DLA -28.28 RAL 330.84 RAD 6567.4 VEL 11.526 PTH 2.01 VHP 4.433 DPA 18.47 RAP 284.41 ECC 1.1887

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	14 4 14	810.88	21.52	319.04	190.49	108.86	14 17 45	210.9	23.90	311.18
90.00	14 30 45	724.93	23.30	313.37	191.10	106.56	14 42 50	124.9	25.35	305.30
100.00	14 16 28	771.29	16.81	314.13	188.48	115.09	14 29 19	171.3	20.05	306.84
100.00	17 1 12	5527.80	28.23	256.89	192.41	100.25	18 33 20	4927.8	29.36	248.27
110.00	14 16 59	769.63	11.64	311.08	185.56	122.37	14 29 49	169.6	15.83	304.48
110.00	19 17 10	5102.22	34.09	225.36	193.18	92.65	20 42 12	4502.2	34.08	216.12

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE .2507 TRA 1.8121 TC3-3.6067 BAU .6141 SGT 4273.9 SGR 2671.8 SG3 742.5 ST 1129.6 SR 777.1 SS 1127.7
RDE -.1811 RRA-1.2376 RC3 1.7417 FAU .07925 RRT -.9886 RRF -.9924 RTF .9860 CRT -.9996 CRS .9487 CST -.9420
FDE 1.1567 FRA 3.8112 FC3-5.9818 BSP 15734 SGB 5040.3 R23 .0755 R13 -.9901 LSA 1751.2 MSA 291.1 SSA 11.8
BDE .3093 BRA 2.1944 BC3 4.0053 FSP -2512 SG1 5028.7 SG2 342.1 THA 148.12 EL1 1371.0 EL2 17.8 ALF 145.48

LAUNCH DATE OCT 8 1965 FLIGHT TIME 180.00 ARRIVAL DATE APR 6 1966

HELIOCENTRIC CONIC DISTANCE 497.498

RL 149.46 LAL .00 LOL 14.51 VL 27.292 GAL 3.37 AZL 91.51 HCA 223.92 SMA 128.71 ECC .17127 INC 1.5105 V1 29.813
RP 108.43 LAP 1.05 LOP 238.42 VP 37.643 GAP 3.89 AZP 88.91 TAL 163.31 TAP 27.23 RCA 106.67 APO 150.76 V2 34.951
RC 101.502 GL -12.20 GP 39.62 ZAL 51.82 ZAP 121.66 ETS 26.94 ZAE 127.02 ETE 146.19 ZAC 30.88 ETC 225.94 CLP-132.96

PLANETOCENTRIC CONIC

C3 11.551 VHL 3.399 DLA -25.08 RAL 330.48 RAD 6567.4 VEL 11.530 PTH 2.01 VHP 4.433 DPA 15.36 RAP 284.47 ECC 1.1901

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 17 31	1161.26	12.35	340.64	186.80	115.69	12 36 53	561.3	15.70	333.57
90.00	16 14 36	5665.56	27.86	266.95	191.36	95.27	17 49 2	5065.6	28.30	258.31
100.00	13 15 46	973.19	10.63	325.94	185.91	118.10	13 32 0	373.2	14.31	319.08
100.00	17 59 2	5328.87	29.78	242.33	191.51	92.75	19 27 51	4728.9	29.84	233.52
110.00	13 40 22	896.04	6.95	317.87	183.69	123.55	13 55 18	296.0	11.32	311.50
110.00	19 50 56	4978.79	34.06	215.73	191.50	86.95	21 13 54	4378.8	33.27	206.58

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE .3698 TRA 1.9733 TC3-3.8091 BAU .6356 SGT 4536.8 SGR 2418.5 SG3 741.1 ST 1268.4 SR 714.9 SS 1187.0
RDE -.1809 RRA-1.1565 RC3 1.5586 FAU .07839 RRT -.9879 RRF -.9902 RTF .9867 CRT -.9971 CRS .9398 CST -.9622
FDE 1.3051 FRA 3.9032 FC3-5.8754 BSP 16070 SGB 5141.2 R23 .0657 R13 -.9895 LSA 1858.6 MSA 272.4 SSA 12.8
BDE .4117 BRA 2.2872 BC3 4.1156 FSP -2523 SG1 5130.5 SG2 331.7 THA 152.10 EL1 1455.2 EL2 47.0 ALF 150.63

LAUNCH DATE OCT 8 1965 FLIGHT TIME 182.00 ARRIVAL DATE APR 8 1966

HELIOCENTRIC CONIC DISTANCE 503.622

RL 149.46 LAL .00 LOL 14.51 VL 27.278 GAL 3.54 AZL 91.18 HCA 227.10 SMA 128.62 ECC .17310 INC 1.1828 V1 29.813
RP 108.46 LAP .87 LOP 241.60 VP 37.621 GAP 4.27 AZP 89.19 TAL 162.65 TAP 29.75 RCA 106.35 APO 150.88 V2 34.939
RC 103.862 GL -9.43 GP 36.76 ZAL 50.53 ZAP 125.25 ETS 28.24 ZAE 126.93 ETE 149.79 ZAC 28.79 ETC 222.63 CLP-136.08

PLANETOCENTRIC CONIC

C3 11.774 VHL 3.431 DLA -22.18 RAL 330.30 RAD 6567.4 VEL 11.540 PTH 2.01 VHP 4.468 DPA 12.50 RAP 284.70 ECC 1.1938

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 32 26	1320.92	7.48	349.84	185.36	117.39	11 54 27	720.9	11.09	343.03
90.00	16 58 18	5513.88	28.32	255.88	190.61	89.75	18 30 12	4913.9	27.98	247.23
100.00	12 37 50	1109.82	6.16	333.61	184.65	119.31	12 56 20	509.8	10.02	326.95
100.00	18 35 35	5200.22	29.81	232.77	190.58	87.72	20 2 15	4600.2	29.18	224.02
110.00	13 13 3	999.40	3.03	323.31	182.71	124.06	13 29 43	399.4	7.48	317.05
110.00	20 16 51	4883.40	33.47	208.34	190.21	82.62	21 38 14	4283.4	32.09	199.39

DIFFERENTIAL CORRECTIONS
TOE .4925 TRA 2.1334 TC3-3.9418 BAU .6571
ROE -.1744 RRA-1.0818 RC3 1.3745 FAU .07631
FDE 1.4308 FRA 3.9471 FC3-5.6111 BSP 16447
BOE .5225 BRA 2.3920 BC3 4.1745 FSP -2500

MID-COURSE EXECUTION ACCURACY
SGT 4774.2 SGR 2186.2 SG3 729.0
RRT -.9864 RRF -.9873 RTF .9871
SGB 5251.0 R23 .0549 R13 -.9890
SG1 5240.7 SG2 327.7 THA 155.59

ORBIT DETERMINATION ACCURACY
ST 1419.5 SR 654.2 SS 1237.9
CRT -.9876 CRS .9288 CST -.9752
LSA 1976.9 MSA 258.8 SSA 13.5
EL1 1560.2 EL2 93.6 ALF 155.43

LAUNCH DATE OCT 8 1965 FLIGHT TIME 184.00 ARRIVAL DATE APR 10 1966

HELIOCENTRIC CONIC DISTANCE 509.721

RL 149.46 LAL .00 LOL 14.51 VL 27.263 GAL 3.72 AZL 90.89 HCA 230.28 SMA 128.51 ECC .17511 INC .8875 V1 29.813
RP 108.50 LAP .68 LOP 244.78 VP 37.598 GAP 4.65 AZP 89.43 TAL 161.95 TAP 32.23 RCA 106.01 APO 151.02 V2 34.926
RC 106.225 GL -6.95 GP 34.14 ZAL 49.34 ZAP 128.64 ETS 29.33 ZAE 126.65 ETE 152.96 ZAC 27.13 ETC 218.73 CLP-138.98

PLANETOCENTRIC CONIC

C3 12.118 VHL 3.481 DLA -19.54 RAL 330.28 RAD 6567.5 VEL 11.554 PTH 2.02 VHP 4.533 DPA 9.90 RAP 285.11 ECC 1.1994

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 0 39	1442.69	3.61	356.70	184.76	118.10	11 24 41	842.7	7.34	350.01
90.00	17 29 55	5404.24	28.02	247.88	190.08	85.75	18 59 59	4804.2	27.14	239.33
100.00	12 9 44	1219.76	2.46	339.68	184.13	119.80	12 30 3	619.8	6.41	333.12
100.00	19 3 31	5102.41	29.33	225.54	189.94	83.95	20 28 34	4502.4	28.18	216.93
110.00	12 51 33	1088.70	-.38	327.97	182.35	124.18	13 9 42	488.7	4.11	321.76
110.00	20 38 11	4806.23	32.64	202.48	189.37	79.24	21 58 17	4206.2	30.82	193.73

DIFFERENTIAL CORRECTIONS
TOE .6203 TRA 2.2966 TC3-4.0040 BAU .6770
ROE -.1641 RRA-1.0153 RC3 1.1952 FAU .07306
FDE 1.5376 FRA 3.9579 FC3-5.2193 BSP 16783
BOE .6417 BRA 2.5110 BC3 4.1786 FSP -2435

MID-COURSE EXECUTION ACCURACY
SGT 4990.2 SGR 1977.4 SG3 709.3
RRT -.9839 RRF -.9835 RTF .9872
SGB 5367.7 R23 .0449 R13 -.9885
SG1 5357.6 SG2 329.5 THA 158.62

ORBIT DETERMINATION ACCURACY
ST 1580.3 SR 597.2 SS 1282.1
CRT -.9728 CRS .9154 CST -.9836
LSA 2106.1 MSA 249.4 SSA 14.0
EL1 1684.4 EL2 129.8 ALF 159.69

LAUNCH DATE OCT 8 1965 FLIGHT TIME 186.00 ARRIVAL DATE APR 12 1966

HELIOCENTRIC CONIC DISTANCE 515.797

RL 149.46 LAL .00 LOL 14.51 VL 27.247 GAL 3.92 AZL 90.62 HCA 233.46 SMA 128.40 ECC .17732 INC .6184 V1 29.813
RP 108.54 LAP .50 LOP 247.96 VP 37.575 GAP 5.03 AZP 89.63 TAL 161.22 TAP 34.68 RCA 105.64 APO 151.17 V2 34.914
RC 108.588 GL -4.75 GP 31.75 ZAL 48.22 ZAP 131.84 ETS 30.26 ZAE 126.26 ETE 155.72 ZAC 25.91 ETC 214.37 CLP-141.68

PLANETOCENTRIC CONIC

C3 12.573 VHL 3.546 DLA -17.15 RAL 330.39 RAD 6567.5 VEL 11.574 PTH 2.02 VHP 4.623 DPA 7.55 RAP 285.68 ECC 1.2069

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 36 6	1544.55	.33	2.39	184.72	118.32	11 1 50	944.5	4.11	355.75
90.00	17 55 18	5318.03	27.43	241.64	189.84	82.67	19 23 56	4718.0	26.13	233.22
100.00	11 47 35	1313.91	-.73	344.85	184.13	119.88	12 9 28	713.9	3.25	338.32
100.00	19 26 30	5023.90	28.63	219.81	189.65	81.01	20 50 14	4423.9	27.09	211.35
110.00	12 34 6	1168.15	-3.41	332.12	182.46	124.03	12 53 34	568.2	1.08	325.91
110.00	20 56 28	4742.42	31.73	197.72	188.94	76.57	22 15 31	4142.4	29.56	189.19

DIFFERENTIAL CORRECTIONS
TOE .7485 TRA 2.4590 TC3-4.0181 BAU .6974
ROE -.1490 RRA -.9549 RC3 1.0347 FAU .06937
FDE 1.6167 FRA 3.9346 FC3-4.7766 BSP 17192
BOE .7632 BRA 2.6379 BC3 4.1492 FSP -2360

MID-COURSE EXECUTION ACCURACY
SGT 5184.1 SGR 1790.0 SG3 683.4
RRT -.9804 RRF -.9788 RTF .9872
SGB 5484.4 R23 .0355 R13 -.9881
SG1 5474.2 SG2 334.4 THA 161.23

ORBIT DETERMINATION ACCURACY
ST 1739.7 SR 541.4 SS 1313.8
CRT -.9528 CRS .8974 CST -.9889
LSA 2233.0 MSA 243.2 SSA 14.3
EL1 1815.1 EL2 157.6 ALF 163.35

LAUNCH DATE OCT 8 1965 FLIGHT TIME 188.00 ARRIVAL DATE APR 14 1966

HELIOCENTRIC CONIC DISTANCE 521.847

RL 149.46 LAL .00 LOL 14.51 VL 27.229 GAL 4.14 AZL 90.37 HCA 236.64 SMA 128.29 ECC .17974 INC .3707 V1 29.813
RP 108.58 LAP .31 LOP 251.14 VP 37.552 GAP 5.42 AZP 89.80 TAL 160.45 TAP 37.09 RCA 105.23 APO 151.35 V2 34.903
RC 110.951 GL -2.78 GP 29.58 ZAL 47.16 ZAP 134.84 ETS 31.07 ZAE 125.78 ETE 158.11 ZAC 25.13 ETC 209.71 CLP-144.18

PLANETOCENTRIC CONIC

C3 13.131 VHL 3.624 DLA -14.98 RAL 330.60 RAD 6567.5 VEL 11.598 PTH 2.03 VHP 4.734 DPA 5.42 RAP 286.41 ECC 1.2161

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 16 19	1633.52	-2.54	7.35	185.10	118.21	10 43 33	1033.5	1.25	.73
90.00	18 16 46	5247.73	26.72	236.62	189.91	80.25	19 44 14	4647.7	25.10	228.33
100.00	11 29 33	1397.24	-3.55	349.42	184.54	119.70	11 52 50	797.2	.43	342.90
100.00	19 46 13	4959.24	27.85	215.16	189.67	78.69	21 8 53	4359.2	26.01	206.85
110.00	12 19 41	1240.20	-6.15	335.90	182.93	123.69	12 40 21	640.2	-1.68	329.67
110.00	21 12 35	4689.05	30.82	193.83	188.86	74.43	22 30 44	4089.0	28.38	185.48

DIFFERENTIAL CORRECTIONS
TOE .8782 TRA 2.6235 TC3-3.9878 BAU .7174
ROE -.1311 RRA -.9012 RC3 .8920 FAU .06531
FDE 1.6742 FRA 3.8887 FC3-4.3060 BSP 17613
BOE .8879 BRA 2.7740 BC3 4.0864 FSP -2272

MID-COURSE EXECUTION ACCURACY
SGT 5359.2 SGR 1623.8 SG3 653.8
RRT -.9757 RRF -.9729 RTF .9870
SGB 5599.8 R23 .0274 R13 -.9877
SG1 5589.4 SG2 341.5 THA 163.47

ORBIT DETERMINATION ACCURACY
ST 1896.1 SR 489.0 SS 1335.6
CRT -.9270 CRS .8738 CST -.9923
LSA 2358.1 MSA 239.5 SSA 14.5
EL1 1950.0 EL2 178.4 ALF 166.44

LAUNCH DATE OCT 8 1965 FLIGHT TIME 190.00 ARRIVAL DATE APR 16 1966

HELIOCENTRIC CONIC DISTANCE 527.870

RL	149.46	LAL	.00	LOL	14.51	VL	27.211	GAL	4.37	AZL	90.14	HCA	239.81	SMA	128.16	ECC	.18237	INC	.1402	V1	29.813
RP	108.61	LAP	.12	LOP	254.32	VP	37.528	GAP	5.80	AZP	89.93	TAL	159.65	TAP	39.46	RCA	104.79	APO	151.54	V2	34.892
RC	113.313	GL	-1.03	GP	27.62	ZAL	46.14	ZAP	137.65	ETS	31.82	ZAE	125.25	ETE	160.18	ZAC	24.77	ETC	204.96	CLP	-146.53

PLANETOCENTRIC CONIC

C3	13.792	VHL	3.714	DLA	-13.01	RAL	330.90	RAD	6567.5	VEL	11.627	PTH	2.04	VHP	4.864	DPA	3.52	RAP	287.29	ECC	1.2270

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 59 59	1713.24	-5.09	11.82	185.81	117.89	10 28 32	1113.2	-1.32	5.17
90.00	18 35 30	5189.37	25.98	232.51	190.25	78.32	20 1 59	4589.4	24.11	224.34
100.00	11 14 35	1472.57	-6.08	353.59	185.27	119.32	11 39 7	872.6	-2.12	347.03
100.00	20 3 36	4905.27	27.07	211.34	189.98	76.82	21 25 21	4305.3	24.99	203.16
110.00	12 7 38	1306.42	-8.63	339.42	183.70	123.20	12 29 24	706.4	-4.20	333.13
110.00	21 27 2	4644.18	29.96	190.62	189.08	72.71	22 44 26	4044.2	27.30	182.44

DIFFERENTIAL CORRECTIONS								MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TDE	1.0103	TRA	2.7921	TC3	-3.9174	BAU	.7360	SGT	5517.4	SGR	1477.3	SG3	622.0	ST	2048.5	SR	441.0	SS	1349.4
RDE	-.1115	RRA	-.8540	RC3	.7662	FAU	.06099	RRT	-.9696	RRF	-.9658	RTF	.9868	CRT	-.8942	CRS	.8435	CST	-.9946
FDE	1.7143	FRA	3.8281	FC3	-3.8285	BSP	18021	SGB	5711.8	R23	.0208	R13	-.9873	LSA	2481.0	MSA	237.3	SSA	14.5
BDE	1.0164	BRA	2.9198	BC3	3.9917	FSP	-2174	SG1	5701.0	SG2	349.8	THA	165.39	EL1	2086.4	EL2	193.9	ALF	169.01

LAUNCH DATE OCT 8 1965 FLIGHT TIME 192.00 ARRIVAL DATE APR 18 1966

HELIOCENTRIC CONIC DISTANCE 533.868

RL	149.46	LAL	.00	LOL	14.51	VL	27.192	GAL	4.62	AZL	89.93	HCA	242.98	SMA	128.04	ECC	.18523	INC	.0734	V1	29.813
RP	108.64	LAP	-.07	LOP	257.49	VP	37.505	GAP	6.19	AZP	90.03	TAL	158.82	TAP	41.81	RCA	104.32	APO	151.75	V2	34.881
RC	115.673	GL	.53	GP	25.85	ZAL	45.16	ZAP	140.27	ETS	32.54	ZAE	124.70	ETE	161.95	ZAC	24.79	ETC	200.32	CLP	-148.72

PLANETOCENTRIC CONIC

C3	14.556	VHL	3.815	DLA	-11.21	RAL	331.28	RAD	6567.6	VEL	11.659	PTH	2.05	VHP	5.011	DPA	1.83	RAP	288.30	ECC	1.2396

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 46 17	1785.93	-7.39	15.93	186.78	117.41	10 16 3	1185.9	-3.66	9.23
90.00	18 52 13	5140.46	25.26	229.11	190.83	76.76	20 17 53	4540.5	23.19	221.05
100.00	11 1 59	1541.68	-8.36	357.44	186.26	118.80	11 27 41	941.7	-4.46	350.83
100.00	20 19 11	4859.95	26.33	208.18	190.54	75.31	21 40 11	4259.9	24.05	200.12
110.00	11 57 28	1367.93	-10.91	342.73	184.72	122.60	12 20 16	767.9	-6.53	336.37
110.00	21 40 12	4606.45	29.17	187.97	189.58	71.33	22 56 58	4006.5	26.34	179.93

DIFFERENTIAL CORRECTIONS								MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TDE	1.1472	TRA	2.9687	TC3	-3.8086	BAU	.7520	SGT	5663.1	SGR	1349.4	SG3	589.8	ST	2198.8	SR	398.7	SS	1359.3
RDE	-.0919	RRA	-.8139	RC3	.6544	FAU	.05636	RRT	-.9621	RRF	-.9572	RTF	.9864	CRT	-.8539	CRS	.8058	CST	-.9962
FDE	1.7444	FRA	3.7635	FC3	-3.3519	BSP	18339	SGB	5821.7	R23	.0162	R13	-.9867	LSA	2604.9	MSA	236.0	SSA	14.6
BDE	1.1509	BRA	3.0783	BC3	3.8644	FSP	-2058	SG1	5810.6	SG2	358.8	THA	167.04	EL1	2225.3	EL2	205.0	ALF	171.12

LAUNCH DATE OCT 8 1965 FLIGHT TIME 194.00 ARRIVAL DATE APR 20 1966

HELIOCENTRIC CONIC DISTANCE 539.836

RL	149.46	LAL	.00	LOL	14.51	VL	27.172	GAL	4.89	AZL	89.72	HCA	246.16	SMA	127.90	ECC	.18832	INC	.2778	V1	29.813
RP	108.68	LAP	-.25	LOP	260.67	VP	37.481	GAP	6.59	AZP	90.11	TAL	157.96	TAP	44.12	RCA	103.82	APO	151.99	V2	34.870
RC	118.029	GL	1.92	GP	24.26	ZAL	44.21	ZAP	142.72	ETS	33.24	ZAE	124.15	ETE	163.49	ZAC	25.15	ETC	195.94	CLP	-150.78

PLANETOCENTRIC CONIC

C3	15.427	VHL	3.928	DLA	-9.56	RAL	331.72	RAD	6567.6	VEL	11.697	PTH	2.06	VHP	5.174	DPA	.32	RAP	289.45	ECC	1.2539

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 34 40	1853.04	-9.47	19.76	187.98	116.81	10 5 33	1253.0	-5.80	13.00
90.00	19 7 20	5099.36	24.59	226.28	191.63	75.50	20 32 20	4499.4	22.36	218.32
100.00	10 51 19	1605.76	-10.45	1.06	187.47	118.17	11 18 5	1005.8	-6.60	354.39
100.00	20 33 23	4821.86	25.65	205.56	191.31	74.09	21 53 45	4221.9	23.22	197.60
110.00	11 48 52	1425.55	-13.00	345.88	185.96	121.90	12 12 38	825.5	-8.69	339.43
110.00	21 52 19	4574.85	28.46	185.78	190.30	70.21	23 8 34	3974.9	25.49	177.86

DIFFERENTIAL CORRECTIONS								MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TDE	1.2828	TRA	3.1475	TC3	-3.6831	BAU	.7684	SGT	5792.4	SGR	1236.5	SG3	557.1	ST	2336.8	SR	360.4	SS	1359.5
RDE	-.0704	RRA	-.7779	RC3	.5609	FAU	.05200	RRT	-.9529	RRF	-.9470	RTF	.9860	CRT	-.8021	CRS	.7564	CST	-.9972
FDE	1.7566	FRA	3.6877	FC3	-2.9181	BSP	18724	SGB	5922.9	R23	.0121	R13	-.9862	LSA	2717.2	MSA	235.5	SSA	14.5
BDE	1.2848	BRA	3.2422	BC3	3.7256	FSP	-1954	SG1	5911.5	SG2	367.4	THA	168.46	EL1	2354.7	EL2	213.6	ALF	172.89

LAUNCH DATE OCT 8 1965 FLIGHT TIME 196.00 ARRIVAL DATE APR 22 1966

HELIOCENTRIC CONIC DISTANCE 545.774

RL	149.46	LAL	.00	LOL	14.51	VL	27.152	GAL	5.18	AZL	89.53	HCA	249.33	SMA	127.77	ECC	.19167	INC	.4716	V1	29.813
RP	108.71	LAP	-.44	LOP	263.84	VP	37.456	GAP	6.99	AZP	90.17	TAL	157.08	TAP	46.41	RCA	103.28	APO	152.26	V2	34.860
RC	120.382	GL	3.15	GP	22.82	ZAL	43.29	ZAP	145.01	ETS	33.97	ZAE	123.61	ETE	164.81	ZAC	25.81	ETC	191.93	CLP	-152.73

PLANETOCENTRIC CONIC

C3	16.412	VHL	4.051	DLA	-8.06	RAL	332.21	RAD	6567.7	VEL	11.739	PTH	2.07	VHP	5.351	DPA	-1.01	RAP	290.71	ECC	1.2701

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 24 46	1915.62	-11.37	23.37	189.37	116.11	9 56 41	1315.6	-7.77	16.54
90.00	19 21 12	5064.87	23.98	223.94	192.61	74.47	20 45 37	4464.9	21.62	216.06
100.00	10 42 13	1665.76	-12.35	4.50	188.87	117.44	11 9 58	1065.8	-8.58	357.74
100.00	20 46 26	4789.95	25.03	203.38	192.28	73.11	22 6 16	4190.0	22.48	195.51
110.00	11 41 34	1479.90	-14.94	348.90	187.38	121.11	12 6 14	879.9	-10.71	342.35
110.00	22 3 34	4548.58	27.84	183.99	191.21	69.31	23 19 22	3948.6	24.77	176.16

DIFFERENTIAL CORRECTIONS								MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TDE	1.4208	TRA	3.3329	TC3	-3.5382	BAU	.7835	SGT	5909.5	SGR	1137.6	SG3	525.2	ST	2466.9	SR	327.5	SS	1355.1
RDE	-.0487	RRA	-.7466	RC3	.4809	FAU	.04775	RRT	-.9421	RRF	-.9352	RTF	.9855	CRT	-.7383	CRS	.6951	CST	-.9980
FDE	1.7596	FRA	3.6101	FC3	-2.5189	BSP	19098	SGB	6018.0	R23	.0088	R13	-.9857	LSA	2823.7	MSA	235.4	SSA	14.4
BDE	1.4217	BRA	3.4155	BC3	3.5707	FSP	-1851	SG1	6006.2	SG2	375.4	THA	169.68	EL1	2478.8	EL2	219.8	ALF	174.36

LAUNCH DATE OCT 8 1965 FLIGHT TIME 198.00 ARRIVAL DATE APR 24 1966

DISTANCE 551.680

HELIOCENTRIC CONIC

RL 149.46 LAL .00 LOL 14.51 VL 27.131 GAL 5.49 AZL 89.34 HCA 252.50 SMA 127.63 ECC .19528 INC .6573 V1 29.813
RP 108.74 LAP -.63 LOP 267.00 VP 37.432 GAP 7.40 AZP 90.20 TAL 156.17 TAP 48.67 RCA 102.70 APO 152.55 V2 34.851
RC 122.731 GL 4.25 GP 21.51 ZAL 42.38 ZAP 147.16 ETS 34.73 ZAE 123.08 ETE 165.95 ZAC 26.72 ETC 188.37 CLP-154.57

PLANETOCENTRIC CONIC

C3 17.519 VHL 4.186 DLA -6.69 RAL 332.75 RAD 6567.7 VEL 11.786 PTH 2.08 VHP 5.542 DPA -2.17 RAP 292.07 ECC 1.2883

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 16 16	1974.45	-13.11	26.82	190.94	115.32	9 49 10	1374.4	-9.59	19.91
90.00	19 34 0	5036.08	23.44	222.00	193.77	73.64	20 57 56	4436.1	20.98	214.20
100.00	10 34 25	1722.33	-14.10	7.78	190.44	116.63	11 3 7	1122.3	-10.42	.94
100.00	20 58 32	4763.44	24.50	201.60	193.41	72.31	22 17 55	4163.4	21.85	193.80
110.00	11 35 22	1531.49	-16.73	351.83	188.96	120.25	12 0 54	931.5	-12.59	345.17
110.00	22 14 4	4527.04	27.31	182.54	192.30	68.60	23 29 31	3927.0	24.16	174.79

DIFFERENTIAL CORRECTIONS

TDE 1.5614 TRA 3.5258 TC3-3.3784 BAU .7971
RDE -.0269 RRA -.7195 RC3 .4122 FAU .04363
FDE 1.7552 FRA 3.5327 FC3-2.1563 BSP 19442
BDE 1.5617 BRA 3.5985 BC3 3.4035 FSP -1749

MID-COURSE EXECUTION ACCURACY

SGT 6015.2 SGR 1050.7 SG3 494.4
RRT -.9294 RRF -.9215 RTF .9850
SGB 6106.3 R23 .0063 R13 -.9851
SG1 6094.3 SG2 382.7 THA 170.74

ORBIT DETERMINATION ACCURACY

ST 2588.7 SR 300.0 SS 1346.7
CRT -.6611 CRS .6208 CST -.9985
LSA 2923.9 MSA 235.3 SSA 14.3
EL1 2596.3 EL2 224.4 ALF 175.59

LAUNCH DATE OCT 8 1965 FLIGHT TIME 200.00 ARRIVAL DATE APR 26 1966

DISTANCE 557.55

HELIOCENTRIC CONIC

RL 149.46 LAL .00 LOL 14.51 VL 27.109 GAL 5.81 AZL 89.16 HCA 255.67 SMA 127.48 ECC .19919 INC .8366 V1 29.813
RP 108.76 LAP -.81 LOP 270.17 VP 37.408 GAP 7.82 AZP 90.21 TAL 155.24 TAP 50.91 RCA 102.09 APO 152.88 V2 34.842
RC 125.075 GL 5.22 GP 20.34 ZAL 41.49 ZAP 149.16 ETS 35.55 ZAE 122.58 ETE 166.93 ZAC 27.84 ETC 185.25 CLP-156.31

PLANETOCENTRIC CONIC

C3 18.758 VHL 4.331 DLA -5.43 RAL 333.33 RAD 6567.8 VEL 11.838 PTH 2.10 VHP 5.747 DPA -3.19 RAP 293.53 ECC 1.3087

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 8 58	2030.13	-14.71	30.13	192.65	114.47	9 42 48	1430.1	-11.28	23.13
90.00	19 45 54	5012.32	22.98	220.41	195.07	72.98	21 9 27	4412.3	20.43	212.67
100.00	10 27 44	1776.00	-15.72	10.95	192.16	115.76	10 57 20	1176.0	-12.12	4.01
100.00	21 9 49	4741.69	24.04	200.14	194.70	71.68	22 28 51	4141.7	21.31	192.41
110.00	11 30 7	1580.74	-18.40	354.67	190.70	119.33	11 56 27	980.7	-14.35	347.90
110.00	22 23 56	4509.71	26.88	181.38	193.54	68.04	23 39 6	3909.7	23.65	173.70

DIFFERENTIAL CORRECTIONS

TDE 1.7052 TRA 3.7276 TC3-3.2060 BAU .8088
RDE -.0052 RRA -.6961 RC3 .3531 FAU .03965
FDE 1.7460 FRA 3.4577 FC3-1.8298 BSP 19760
BDE 1.7052 BRA 3.7920 BC3 3.2254 FSP -1650

MID-COURSE EXECUTION ACCURACY

SGT 6110.5 SGR 974.3 SG3 465.0
RRT -.9149 RRF -.9061 RTF .9845
SGB 6187.7 R23 .0043 R13 -.9846
SG1 6175.4 SG2 389.1 THA 171.67

ORBIT DETERMINATION ACCURACY

ST 2702.6 SR 277.7 SS 1335.8
CRT -.5711 CRS .5339 CST -.9989
LSA 3018.3 MSA 235.2 SSA 14.2
EL1 2707.3 EL2 227.6 ALF 176.62

LAUNCH DATE OCT 8 1965 FLIGHT TIME 202.00 ARRIVAL DATE APR 28 1966

DISTANCE 563.389

HELIOCENTRIC CONIC

RL 149.46 LAL .00 LOL 14.51 VL 27.087 GAL 6.17 AZL 88.99 HCA 258.83 SMA 127.34 ECC .20340 INC 1.0107 V1 29.813
RP 108.79 LAP -.99 LOP 273.34 VP 37.385 GAP 8.25 AZP 90.20 TAL 154.29 TAP 53.12 RCA 101.44 APO 153.24 V2 34.834
RC 127.413 GL 6.08 GP 19.28 ZAL 40.61 ZAP 151.05 ETS 36.46 ZAE 122.10 ETE 167.79 ZAC 29.13 ETC 182.57 CLP-157.97

PLANETOCENTRIC CONIC

C3 20.143 VHL 4.488 DLA -4.28 RAL 333.94 RAD 6567.8 VEL 11.896 PTH 2.11 VHP 5.965 DPA -4.07 RAP 295.08 ECC 1.3315

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 2 41	2083.15	-16.18	33.33	194.50	113.56	9 37 24	1483.1	-12.85	26.23
90.00	19 57 2	4993.05	22.59	219.14	196.50	72.45	21 20 15	4393.0	19.98	211.44
100.00	10 22 1	1827.22	-17.21	14.03	194.01	114.83	10 52 29	1227.2	-13.72	6.97
100.00	21 20 23	4724.20	23.66	198.98	196.11	71.18	22 39 7	4124.2	20.87	191.29
110.00	11 25 40	1627.99	-19.95	357.46	192.57	118.35	11 52 48	1028.0	-16.00	350.56
110.00	22 33 14	4496.21	26.53	180.48	194.92	67.61	23 48 10	3896.2	23.26	172.85

DIFFERENTIAL CORRECTIONS

TDE 1.8551 TRA 3.9414 TC3-3.0210 BAU .8176
RDE .0160 RRA -.6760 RC3 .3015 FAU .03572
FDE 1.7357 FRA 3.3884 FC3-1.5352 BSP 19988
BDE 1.8552 BRA 3.9990 BC3 3.0360 FSP -1548

MID-COURSE EXECUTION ACCURACY

SGT 6198.5 SGR 907.0 SG3 437.4
RRT -.8987 RRF -.8890 RTF .9839
SGB 6264.5 R23 .0029 R13 -.9839
SG1 6252.1 SG2 394.4 THA 172.48

ORBIT DETERMINATION ACCURACY

ST 2811.9 SR 260.6 SS 1324.5
CRT -.4714 CRS .4376 CST -.9992
LSA 3110.2 MSA 234.9 SSA 14.2
EL1 2814.6 EL2 229.6 ALF 177.48

LAUNCH DATE OCT 8 1965 FLIGHT TIME 204.00 ARRIVAL DATE APR 30 1966

DISTANCE 569.186

HELIOCENTRIC CONIC

RL 149.46 LAL .00 LOL 14.51 VL 27.064 GAL 6.54 AZL 88.82 HCA 262.00 SMA 127.19 ECC .20794 INC 1.1809 V1 29.813
RP 108.81 LAP -1.17 LOP 276.50 VP 37.361 GAP 8.69 AZP 90.16 TAL 153.33 TAP 55.32 RCA 100.74 APO 153.63 V2 34.826
RC 129.747 GL 6.83 GP 18.32 ZAL 39.75 ZAP 152.82 ETS 37.46 ZAE 121.65 ETE 168.54 ZAC 30.55 ETC 180.28 CLP-159.56

PLANETOCENTRIC CONIC

C3 21.690 VHL 4.657 DLA -3.22 RAL 334.57 RAD 6567.9 VEL 11.961 PTH 2.13 VHP 6.197 DPA -4.82 RAP 296.70 ECC 1.3570

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 57 17	2133.88	-17.53	36.44	196.46	112.60	9 32 51	1533.9	-14.32	29.23
90.00	20 7 29	4977.81	22.27	218.13	198.05	72.05	21 30 27	4377.8	19.61	210.47
100.00	10 17 8	1876.33	-18.58	17.02	195.99	113.84	10 48 24	1276.3	-15.20	9.86
100.00	21 30 20	4710.59	23.36	198.08	197.65	70.80	22 48 50	4110.6	20.52	190.43
110.00	11 21 55	1673.50	-21.39	.20	194.56	117.32	11 49 49	1073.5	-17.56	353.16
110.00	22 42 1	4486.19	26.27	179.82	196.42	67.29	23 56 48	3886.2	22.96	172.22

DIFFERENTIAL CORRECTIONS

TDE 2.0050 TRA 4.1621 TC3-2.8378 BAU .8263
RDE .0377 RRA -.6579 RC3 .2584 FAU .03217
FDE 1.7188 FRA 3.3195 FC3-1.2839 BSP 20278
BDE 2.0054 BRA 4.2138 BC3 2.8495 FSP -1459

MID-COURSE EXECUTION ACCURACY

SGT 6274.9 SGR 846.9 SG3 411.0
RRT -.8805 RRF -.8701 RTF .9834
SGB 6331.8 R23 .0015 R13 -.9834
SG1 6319.2 SG2 398.6 THA 173.20

ORBIT DETERMINATION ACCURACY

ST 2908.3 SR 247.7 SS 1309.1
CRT -.3612 CRS .3311 CST -.9994
LSA 3190.3 MSA 234.5 SSA 14.0
EL1 2909.7 EL2 230.8 ALF 178.23

LAUNCH DATE OCT 8 1965 FLIGHT TIME 206.00 ARRIVAL DATE MAY 2 1966

HELIOCENTRIC CONIC DISTANCE 574.940

RL 149.46 LAL .00 LOL 14.51 VL 27.041 GAL 6.94 AZL 88.65 HCA 265.16 SMA 127.04 ECC .21285 INC 1.3484 VI 29.813
RP 108.84 LAP -1.34 LOP 279.67 VP 37.338 GAP 9.15 AZP 90.11 TAL 152.35 TAP 57.51 RCA 100.00 APO 154.07 V2 34.819
RC 132.074 GL 7.50 GP 17.45 ZAL 38.91 ZAP 154.48 ETS 38.58 ZAE 121.23 ETE 169.19 ZAC 32.09 ETC 178.33 CLP-161.08

PLANETOCENTRIC CONIC

C3 23.417 VHL 4.839 DLA -2.25 RAL 335.22 RAD 6568.0 VEL 12.033 PTH 2.15 VHP 6.444 DPA -5.45 RAP 298.38 ECC 1.3854

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 52 40	2182.63	-18.78	39.47	198.54	111.59	9 29 3	1582.6	-15.68	32.16
90.00	20 17 18	4966.26	22.03	217.37	199.70	71.74	21 40 5	4366.3	19.33	209.74
100.00	10 12 58	1923.62	-19.86	19.96	198.07	112.81	10 45 1	1323.6	-16.60	12.68
100.00	21 39 42	4700.51	23.13	197.42	199.29	70.52	22 58 2	4100.5	20.26	189.80
110.00	11 18 48	1717.52	-22.75	2.90	196.66	116.23	11 47 25	1117.5	-19.03	355.73
[illegible]	22 50 21	4479.37	26.09	179.37	198.03	67.08	24 5 0	3879.4	22.75	171.80

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE 15.2 TRA 4.3942 TC3-2.6515 BAU .8330 SGT 6342.9 SGR 793.1 SG3 386.3 ST 2997.0 SR 238.8 SS 1292.9
RDE .0[illegible] [illegible] .6418 RC3 .2211 FAU .02880 RRT -.8605 RRF -.8493 RTF .9829 CRT -.2471 CRS .2208 CST -.9996
FDE 1.7[illegible] [illegible] 3.2550 FC3-1.0646 BSP 20539 SGB 6392.2 R23 .0004 R13 -.9829 LSA 3264.3 MSA 233.9 SSA 13.9
BDE 2.1601 BRA 4.4408 BC3 2.6607 FSP -1374 SG1 6379.6 SG2 401.8 THA 173.83 EL1 2997.6 EL2 231.4 ALF 178.87

LAUNCH DATE OCT 8 1965 FLIGHT TIME 208.00 ARRIVAL DATE MAY 4 1966

HELIOCENTRIC CONIC DISTANCE 580.647

RL 149.46 LAL .00 LOL 14.51 VL 27.018 GAL 7.37 AZL 88.49 HCA 268.32 SMA 126.88 ECC .21815 INC 1.5144 VI 29.813
RP 108.86 LAP -1.51 LOP 282.83 VP 37.315 GAP 9.63 AZP 90.04 TAL 151.36 TAP 59.68 RCA 99.20 APO 154.56 V2 34.812
RC 134.395 GL 8.09 GP 16.66 ZAL 38.08 ZAP 156.05 ETS 39.83 ZAE 120.83 ETE 169.76 ZAC 33.71 ETC 176.69 CLP-162.55

PLANETOCENTRIC CONIC

C3 25.347 VHL 5.035 DLA -1.36 RAL 335.89 RAD 6568.0 VEL 12.113 PTH 2.17 VHP 6.705 DPA -5.97 RAP 300.12 ECC 1.4171

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 48 43	2229.67	-19.93	42.44	200.72	110.54	9 25 53	1629.7	-16.96	35.03
90.00	20 26 34	4958.10	21.85	216.84	201.46	71.53	21 49 12	4358.1	19.13	209.22
100.00	10 9 26	1969.33	-21.04	22.84	200.26	111.74	10 42 15	1369.3	-17.90	15.45
100.00	21 48 33	4693.68	22.97	196.97	201.04	70.33	23 6 46	4093.7	20.08	189.37
110.00	11 16 13	1760.25	-24.01	5.58	198.87	115.10	11 45 33	1160.2	-20.42	358.27
110.00	22 58 14	4475.52	25.98	179.12	199.74	66.97	24 12 50	3875.5	22.64	171.56

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE 2.3179 TRA 4.6383 TC3-2.4649 BAU .8377 SGT 6403.0 SGR 744.7 SG3 363.2 ST 3077.9 SR 233.3 SS 1276.2
RDE .0811 RRA -.6273 RC3 .1889 FAU .02562 RRT -.8386 RRF -.8269 RTF .9824 CRT -.1339 CRS .1114 CST -.9997
FDE 1.6813 FRA 3.1954 FC3 -.8751 BSP 20783 SGB 6446.2 R23 -.0005 R13 -.9824 LSA 3332.0 MSA 232.9 SSA 13.7
BDE 2.3194 BRA 4.6805 BC3 2.4722 FSP -1294 SG1 6433.5 SG2 403.7 THA 174.41 EL1 3078.0 EL2 231.2 ALF 179.41

LAUNCH DATE OCT 8 1965 FLIGHT TIME 210.00 ARRIVAL DATE MAY 6 1966

HELIOCENTRIC CONIC DISTANCE 586.302

RL 149.46 LAL .00 LOL 14.51 VL 26.994 GAL 7.83 AZL 88.32 HCA 271.48 SMA 126.73 ECC .22388 INC 1.6797 VI 29.813
RP 108.87 LAP -1.68 LOP 285.99 VP 37.292 GAP 10.12 AZP 89.96 TAL 150.36 TAP 61.85 RCA 98.36 APO 155.10 V2 34.806
RC 136.709 GL 8.60 GP 15.94 ZAL 37.26 ZAP 157.54 ETS 41.25 ZAE 120.45 ETE 170.27 ZAC 35.41 ETC 175.31 CLP-163.96

PLANETOCENTRIC CONIC

C3 27.506 VHL 5.245 DLA -.55 RAL 336.56 RAD 6568.1 VEL 12.202 PTH 2.19 VHP 6.983 DPA -6.40 RAP 301.91 ECC 1.4527

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 45 22	2275.22	-20.99	45.36	202.99	109.45	9 23 17	1675.2	-18.15	37.84
90.00	20 35 19	4953.08	21.74	216.51	203.30	71.40	21 57 52	4353.1	19.00	208.91
100.00	10 6 27	2013.66	-22.13	25.68	202.54	110.62	10 40 1	1413.7	-19.12	18.17
100.00	21 56 54	4689.88	22.89	196.72	202.87	70.23	23 15 4	4089.9	19.98	189.13
110.00	11 14 7	1801.86	-25.18	8.24	201.18	113.92	11 44 9	1201.9	-21.73	.78
110.00	23 5 44	4474.44	25.96	179.05	201.55	66.93	24 20 18	3874.4	22.61	171.49

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE 2.4861 TRA 4.9002 TC3-2.2723 BAU .8377 SGT 6459.0 SGR 700.9 SG3 341.8 ST 3156.1 SR 230.4 SS 1261.5
RDE .1024 RRA -.6144 RC3 .1600 FAU .02245 RRT -.8150 RRF -.8028 RTF .9819 CRT -.0273 CRS .0084 CST -.9998
FDE 1.6651 FRA 3.1437 FC3 -.7065 BSP 20902 SGB 6496.9 R23 -.0012 R13 -.9820 LSA 3398.8 MSA 231.4 SSA 13.6
BDE 2.4882 BRA 4.9386 BC3 2.2779 FSP -1211 SG1 6484.3 SG2 404.5 THA 174.93 EL1 3156.1 EL2 230.3 ALF 179.89

LAUNCH DATE OCT 8 1965 FLIGHT TIME 212.00 ARRIVAL DATE MAY 8 1966

HELIOCENTRIC CONIC DISTANCE 591.899

RL 149.46 LAL .00 LOL 14.51 VL 26.971 GAL 8.32 AZL 88.15 HCA 274.64 SMA 126.57 ECC .23008 INC 1.8455 VI 29.813
RP 108.89 LAP -1.84 LOP 289.16 VP 37.270 GAP 10.64 AZP 89.85 TAL 149.36 TAP 64.01 RCA 97.45 APO 155.69 V2 34.801
RC 139.015 GL 9.04 GP 15.29 ZAL 36.47 ZAP 158.94 ETS 42.86 ZAE 120.09 ETE 170.73 ZAC 37.17 ETC 174.14 CLP-165.33

PLANETOCENTRIC CONIC

C3 29.926 VHL 5.470 DLA .20 RAL 337.24 RAD 6568.2 VEL 12.300 PTH 2.22 VHP 7.279 DPA -6.73 RAP 303.73 ECC 1.4925

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 42 32	2319.45	-21.97	48.24	205.34	108.33	9 21 12	1719.4	-19.26	40.61
90.00	20 43 34	4950.98	21.70	216.37	205.22	71.35	22 6 5	4351.0	18.95	208.78
100.00	10 3 59	2056.76	-23.14	28.49	204.91	109.47	10 38 15	1456.8	-20.27	20.86
100.00	22 4 49	4688.89	22.86	196.66	204.78	70.20	23 22 57	4088.9	19.96	189.07
110.00	11 12 26	1842.47	-26.27	10.89	203.57	112.70	11 43 9	1242.5	-22.97	3.29
110.00	23 12 50	4475.95	26.00	179.15	203.43	66.98	24 27 26	3875.9	22.65	171.59

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE 2.6546 TRA 5.1712 TC3-2.0907 BAU .8382 SGT 6503.7 SGR 660.5 SG3 321.6 ST 3221.1 SR 229.7 SS 1244.3
RDE .1245 RRA -.6017 RC3 .1360 FAU .01967 RRT -.7894 RRF -.7768 RTF .9817 CRT .0743 CRS -.0898 CST -.9998
FDE 1.6452 FRA 3.0932 FC3 -.5690 BSP 21131 SGB 6537.2 R23 -.0018 R13 -.9817 LSA 3453.0 MSA 229.7 SSA 13.4
BDE 2.6576 BRA 5.2061 BC3 2.0951 FSP -1142 SG1 6524.7 SG2 404.2 THA 175.40 EL1 3221.2 EL2 229.1 ALF .31

LAUNCH DATE OCT 8 1965 FLIGHT TIME 214.00 ARRIVAL DATE MAY 10 1966

DISTANCE 597.431

HELIOCENTRIC CONIC

RL 149.46 LAL .00 LOL 14.51 VL 26.947 GAL 8.84 AZL 87.99 HCA 277.80 SMA 126.42 ECC .23680 INC 2.0127 V1 29.813
RP 108.90 LAP -1.99 LOP 292.32 VP 37.248 GAP 11.18 AZP 89.73 TAL 148.36 TAP 66.16 RCA 96.48 APO 156.35 V2 34.797
RC 141.312 GL 9.42 GP 14.69 ZAL 35.69 ZAP 160.26 ETS 44.68 ZAE 119.75 ETE 171.13 ZAC 38.97 ETC 173.16 CLP-166.67

PLANETOCENTRIC CONIC

C3 32.643 VHL 5.713 DLA .89 RAL 337.93 RAD 6568.3 VEL 12.410 PTH 2.24 VHP 7.594 DPA -6.97 RAP 305.60 ECC 1.5372

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 40 11	2362.49	-22.86	51.07	207.77	107.18	9 19 34	1762.5	-20.29	43.34
90.00	20 51 21	4951.62	21.71	216.41	207.22	71.36	22 13 53	4351.6	18.97	208.82
100.00	10 1 57	2098.79	-24.06	31.26	207.35	108.29	10 36 55	1498.8	-21.34	23.53
100.00	22 12 17	4690.56	22.90	196.77	206.77	70.25	23 30 27	4090.6	20.00	189.17
110.00	11 11 8	1882.22	-27.29	13.53	206.06	111.43	11 42 30	1282.2	-24.13	5.79
110.00	23 19 35	4479.89	26.10	179.41	205.40	67.10	24 34 15	3879.9	22.77	171.83

DIFFERENTIAL CORRECTIONS

TOE 2.8303 TRA 5.4589 TC3-1.9111 BAU .8355
RDE .1467 RRA -.5895 RC3 .1148 FAU .01701
FDE 1.6267 FRA 3.0485 FC3 -.4511 BSP 21317
BDE 2.8341 BRA 5.4907 BC3 1.9145 FSP -1076

MID-COURSE EXECUTION ACCURACY

SGT 6542.3 SGR 623.3 SG3 302.7
RRT -.7618 RRF -.7490 RTF .9814
SGB 6571.9 R23 -.0023 R13 -.9814
SG1 6559.5 SG2 402.7 THA 175.83

ORBIT DETERMINATION ACCURACY

ST 3279.9 SR 230.5 SS 1227.9
CRT .1666 CRS -.1790 CST -.9999
LSA 3502.4 MSA 227.7 SSA 13.1
EL1 3280.2 EL2 227.2 ALF .67

LAUNCH DATE OCT 8 1965 FLIGHT TIME 216.00 ARRIVAL DATE MAY 12 1966

DISTANCE 602.889

HELIOCENTRIC CONIC

RL 149.46 LAL .00 LOL 14.51 VL 26.922 GAL 9.41 AZL 87.82 HCA 280.96 SMA 126.26 ECC .24410 INC 2.1824 V1 29.813
RP 108.92 LAP -2.14 LOP 295.48 VP 37.227 GAP 11.75 AZP 89.58 TAL 147.36 TAP 68.33 RCA 95.44 APO 157.08 V2 34.793
RC 143.598 GL 9.75 GP 14.15 ZAL 34.93 ZAP 161.51 ETS 46.76 ZAE 119.41 ETE 171.49 ZAC 40.81 ETC 172.33 CLP-167.97

PLANETOCENTRIC CONIC

C3 35.702 VHL 5.975 DLA 1.51 RAL 338.61 RAD 6568.4 VEL 12.533 PTH 2.27 VHP 7.930 DPA -7.13 RAP 307.48 ECC 1.5876

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 38 16	2404.48	-23.68	53.88	210.27	106.00	9 18 20	1804.5	-21.26	46.05
90.00	20 58 42	4954.84	21.78	216.62	209.28	71.45	22 21 16	4354.8	19.05	209.02
100.00	10 0 18	2139.83	-24.91	34.02	209.87	107.08	10 35 58	1539.8	-22.34	26.17
100.00	22 19 20	4694.72	23.00	197.04	208.83	70.36	23 37 35	4094.7	20.11	189.43
110.00	11 10 10	1921.18	-28.23	16.17	208.62	110.12	11 42 11	1321.2	-25.23	8.28
110.00	23 25 58	4486.14	26.27	179.82	207.43	67.29	24 40 44	3886.1	22.96	172.22

DIFFERENTIAL CORRECTIONS

TOE 3.0132 TRA 5.7643 TC3-1.7357 BAU .8297
RDE .1692 RRA -.5774 RC3 .0962 FAU .01450
FDE 1.6094 FRA 3.0092 FC3 -.3515 BSP 21485
BDE 3.0179 BRA 5.7931 BC3 1.7383 FSP -1014

MID-COURSE EXECUTION ACCURACY

SGT 6574.5 SGR 588.5 SG3 285.1
RRT -.7320 RRF -.7191 RTF .9813
SGB 6600.8 R23 -.0027 R13 -.9813
SG1 6588.6 SG2 400.1 THA 176.24

ORBIT DETERMINATION ACCURACY

ST 3332.2 SR 232.3 SS 1212.4
CRT .2494 CRS -.2591 CST -.9999
LSA 3546.4 MSA 225.1 SSA 12.9
EL1 3332.8 EL2 224.9 ALF 1.00

LAUNCH DATE OCT 8 1965 FLIGHT TIME 218.00 ARRIVAL DATE MAY 14 1966

DISTANCE 608.264

HELIOCENTRIC CONIC

RL 149.46 LAL .00 LOL 14.51 VL 26.898 GAL 10.02 AZL 87.64 HCA 284.12 SMA 126.10 ECC .25203 INC 2.3558 V1 29.813
RP 108.93 LAP -2.28 LOP 298.64 VP 37.207 GAP 12.36 AZP 89.42 TAL 146.38 TAP 70.50 RCA 94.32 APO 157.88 V2 34.790
RC 145.874 GL 10.02 GP 13.66 ZAL 34.19 ZAP 162.68 ETS 49.13 ZAE 119.09 ETE 171.82 ZAC 42.68 ETC 171.63 CLP-169.25

PLANETOCENTRIC CONIC

C3 39.156 VHL 6.257 DLA 2.08 RAL 339.28 RAD 6568.5 VEL 12.670 PTH 2.30 VHP 8.289 DPA -7.22 RAP 309.39 ECC 1.6444

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 36 43	2445.48	-24.42	56.66	212.83	104.80	9 17 28	1845.5	-22.15	48.72
90.00	21 5 36	4960.51	21.90	217.00	211.41	71.59	22 28 17	4360.5	19.19	209.38
100.00	9 59 2	2179.98	-25.69	36.75	212.44	105.84	10 35 21	1580.0	-23.27	28.79
100.00	22 25 58	4701.24	23.15	197.47	210.95	70.54	23 44 20	4101.2	20.28	189.84
110.00	11 9 30	1959.42	-29.10	18.81	211.25	108.78	11 42 9	1359.4	-26.26	10.78
110.00	23 32 0	4494.57	26.49	180.37	209.54	67.56	24 46 54	3894.6	23.21	172.75

DIFFERENTIAL CORRECTIONS

TOE 3.2042 TRA 6.0890 TC3-1.5648 BAU .8202
RDE .1922 RRA -.5650 RC3 .0800 FAU .01210
FDE 1.5937 FRA 2.9756 FC3 -.2676 BSP 21631
BDE 3.2100 BRA 6.1152 BC3 1.5669 FSP -955

MID-COURSE EXECUTION ACCURACY

SGT 6600.7 SGR 555.8 SG3 268.7
RRT -.6998 RRF -.6871 RTF .9813
SGB 6624.0 R23 -.0030 R13 -.9813
SG1 6612.1 SG2 396.3 THA 176.62

ORBIT DETERMINATION ACCURACY

ST 3378.2 SR 234.7 SS 1198.1
CRT .3232 CRS -.3305 CST -.9999
LSA 3585.2 MSA 222.2 SSA 12.7
EL1 3379.1 EL2 222.1 ALF 1.29

LAUNCH DATE OCT 8 1965 FLIGHT TIME 220.00 ARRIVAL DATE MAY 16 1966

DISTANCE 613.542

HELIOCENTRIC CONIC

RL 149.46 LAL .00 LOL 14.51 VL 26.874 GAL 10.67 AZL 87.47 HCA 287.28 SMA 125.95 ECC .26068 INC 2.5340 V1 29.813
RP 108.93 LAP -2.42 LOP 301.80 VP 37.187 GAP 13.00 AZP 89.25 TAL 145.40 TAP 72.68 RCA 93.11 APO 158.78 V2 34.787
RC 148.138 GL 10.25 GP 13.21 ZAL 33.47 ZAP 163.79 ETS 51.84 ZAE 118.77 ETE 172.13 ZAC 44.57 ETC 171.04 CLP-170.51

PLANETOCENTRIC CONIC

C3 43.069 VHL 6.563 DLA 2.60 RAL 339.94 RAD 6568.6 VEL 12.823 PTH 2.33 VHP 8.674 DPA -7.24 RAP 311.31 ECC 1.7088

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 35 31	2485.57	-25.09	59.40	215.44	103.58	9 16 56	1885.6	-22.97	51.37
90.00	21 12 5	4968.50	22.07	217.52	213.59	71.80	22 34 53	4368.5	19.38	209.88
100.00	9 58 4	2219.29	-26.39	39.46	215.08	104.58	10 35 3	1619.3	-24.13	31.39
100.00	22 32 13	4710.01	23.34	198.04	213.12	70.78	23 50 43	4110.0	20.51	190.40
110.00	11 9 5	1996.99	-29.89	21.44	213.94	107.41	11 42 22	1397.0	-27.22	13.27
110.00	23 37 41	4505.07	26.76	181.07	211.70	67.89	24 52 46	3905.1	23.52	173.40

DIFFERENTIAL CORRECTIONS

TOE 3.4081 TRA 6.4385 TC3-1.3963 BAU .8049
RDE .2155 RRA -.5520 RC3 .0656 FAU .00973
FDE 1.5819 FRA 2.9493 FC3 -.1956 BSP 21676
BDE 3.4150 BRA 6.4621 BC3 1.3979 FSP -896

MID-COURSE EXECUTION ACCURACY

SGT 6623.8 SGR 524.9 SG3 253.6
RRT -.6651 RRF -.6527 RTF .9815
SGB 6644.6 R23 -.0031 R13 -.9815
SG1 6633.1 SG2 391.5 THA 176.97

ORBIT DETERMINATION ACCURACY

ST 3421.4 SR 237.4 SS 1186.3
CRT .3883 CRS -.3936 CST -.9999
LSA 3622.4 MSA 218.7 SSA 12.4
EL1 3422.7 EL2 218.7 ALF 1.55

LAUNCH DATE OCT 9 1965 FLIGHT TIME 70.00 ARRIVAL DATE DEC 18 1965

HELIOCENTRIC CONIC DISTANCE 139.237

RL	149.41	LAL	.00	LOL	15.50	VL	18.262	GAL	16.22	AZL	91.13	HCA	46.82	SMA	91.97	ECC	.66153	INC	1.1321	V1	29.822
RP	107.94	LAP	-.83	LOP	62.31	VP	31.876	GAP	-40.40	AZP	90.77	TAL	171.24	TAP	218.07	RCA	31.13	APO	152.82	V2	35.108
RC	64.732	GL	-1.47	GP	-4.25	ZAL	65.51	ZAP	28.35	ETS	168.78	ZAE	142.33	ETE	184.32	ZAC	19.12	ETC	101.50	CLP	28.06

PLANETOCENTRIC CONIC

C3 182.398 VHL 13.505 DLA -19.16 RAL 312.86 RAD 6571.0 VEL 17.428 PTH 2.96 VHP 23.226 DPA -28.51 RAP 270.09 ECC 4.0018

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 43 1	2075.44	-15.97	32.86	205.09	113.70	10 17 36	1475.4	-12.63	25.77
90.00	16 20 41	717.71	23.44	312.89	219.13	106.36	16 32 38	117.7	25.46	304.80
100.00	10 52 31	1851.12	-17.88	15.48	204.20	114.36	11 23 23	1251.1	-14.45	8.37
100.00	17 53 51	5705.29	25.45	269.34	219.78	106.23	19 28 56	5105.3	27.43	261.10
110.00	11 35 10	1717.51	-22.74	2.90	201.75	116.23	12 3 47	1117.5	-19.03	355.73
110.00	19 27 42	5411.67	30.62	248.73	221.47	106.00	20 57 54	4811.7	32.50	240.02

DIFFERENTIAL CORRECTIONS

TDE	-.4921	TRA	-1.6165	TC3	-.1189	BAU	.2903												
RDE	-.9787	RRA	.3992	RC3	-.0066	FAU	.01288												
FDE	.2321	FRA	.6618	FC3	-.0611	BSP	2187												
BDE	1.0955	BRA	1.6651	BC3	.1190	FSP	-64												

MID-COURSE EXECUTION ACCURACY

SGT	820.8	SGR	452.6	SG3	30.6						
RRT	-.1017	RRF	.0957	RTF	-.6308						
SGB	937.3	R23	-.0042	R13	.6316						
SG1	822.7	SG2	449.3	THA	175.42						

ORBIT DETERMINATION ACCURACY

ST	301.8	SR	418.7	SS	266.7						
CRT	.5932	CRS	.6483	CST	.9951						
LSA	522.5	MSA	253.8	SSA	13.8						
EL1	468.2	EL2	217.3	ALF	59.66						

LAUNCH DATE OCT 9 1965 FLIGHT TIME 72.00 ARRIVAL DATE DEC 20 1965

HELIOCENTRIC CONIC DISTANCE 145.212

RL	149.41	LAL	.00	LOL	15.50	VL	18.927	GAL	15.55	AZL	90.83	HCA	50.04	SMA	93.58	ECC	.63428	INC	.8342	V1	29.822
RP	107.90	LAP	-.64	LOP	65.53	VP	32.274	GAP	-38.53	AZP	90.54	TAL	170.55	TAP	220.59	RCA	34.22	APO	152.93	V2	35.120
RC	62.721	GL	-1.18	GP	-4.38	ZAL	64.33	ZAP	26.86	ETS	168.01	ZAE	142.80	ETE	185.17	ZAC	19.74	ETC	106.11	CLP	26.53

PLANETOCENTRIC CONIC

C3 165.309 VHL 12.857 DLA -18.56 RAL 313.97 RAD 6570.8 VEL 16.930 PTH 2.92 VHP 22.292 DPA -28.72 RAP 272.00 ECC 3.7206

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 41 4	2082.92	-16.17	33.31	205.09	113.57	10 15 47	1482.9	-12.85	26.21
90.00	16 31 31	677.30	24.19	310.16	218.96	105.19	16 42 48	77.3	26.04	301.98
100.00	10 51 12	1856.58	-18.04	15.81	204.22	114.25	11 22 9	1256.6	-14.61	8.69
100.00	18 4 3	5666.92	26.16	266.70	219.54	105.01	19 38 30	5066.9	27.96	258.37
110.00	11 35 4	1719.13	-22.79	3.00	201.83	116.19	12 3 43	1119.1	-19.09	355.82
110.00	19 36 41	5377.12	31.24	246.23	221.08	104.64	21 6 18	4777.1	32.93	237.41

DIFFERENTIAL CORRECTIONS

TDE	-.5019	TRA	-1.6271	TC3	-.1262	BAU	.2795												
RDE	-.9360	RRA	.3985	RC3	-.0085	FAU	.01305												
FDE	.2485	FRA	.6877	FC3	-.0683	BSP	2295												
BDE	1.0620	BRA	1.6752	BC3	.1265	FSP	-70												

MID-COURSE EXECUTION ACCURACY

SGT	860.4	SGR	457.8	SG3	33.2						
RRT	-.1089	RRF	.1036	RTF	-.6504						
SGB	974.6	R23	-.0054	R13	.6512						
SG1	862.4	SG2	454.0	THA	175.41						

ORBIT DETERMINATION ACCURACY

ST	320.6	SR	420.9	SS	283.7						
CRT	.5959	CRS	.6571	CST	.9947						
LSA	540.6	MSA	260.7	SSA	14.0						
EL1	478.0	EL2	226.7	ALF	57.41						

LAUNCH DATE OCT 9 1965 FLIGHT TIME 74.00 ARRIVAL DATE DEC 22 1965

HELIOCENTRIC CONIC DISTANCE 151.277

RL	149.41	LAL	.00	LOL	15.50	VL	19.547	GAL	14.89	AZL	90.56	HCA	53.25	SMA	95.18	ECC	.60768	INC	.5628	V1	29.822
RP	107.87	LAP	-.45	LOP	68.75	VP	32.655	GAP	-36.74	AZP	90.34	TAL	169.88	TAP	223.13	RCA	37.34	APO	153.02	V2	35.132
RC	60.751	GL	-.87	GP	-4.53	ZAL	63.21	ZAP	25.40	ETS	167.14	ZAE	143.37	ETE	186.13	ZAC	20.51	ETC	110.46	CLP	25.02

PLANETOCENTRIC CONIC

C3 149.899 VHL 12.243 DLA -17.95 RAL 315.01 RAD 6570.6 VEL 16.469 PTH 2.87 VHP 21.392 DPA -28.93 RAP 273.95 ECC 3.4670

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 38 50	2089.74	-16.36	33.73	204.97	113.44	10 13 39	1489.7	-13.05	26.62
90.00	16 42 2	636.02	24.89	307.35	218.60	103.95	16 52 38	36.0	26.57	299.08
100.00	10 49 35	1861.45	-18.17	16.11	204.13	114.15	11 20 36	1261.5	-14.76	8.98
100.00	18 13 58	5627.59	26.82	263.97	219.13	103.72	19 47 46	5027.6	28.44	255.54
110.00	11 34 38	1720.27	-22.83	3.07	201.80	116.16	12 3 18	1120.3	-19.12	355.89
110.00	19 45 24	5341.53	31.82	243.62	220.50	103.20	21 14 25	4741.5	33.31	234.71

DIFFERENTIAL CORRECTIONS

TDE	-.5090	TRA	-1.6356	TC3	-.1329	BAU	.2673												
RDE	-.8936	RRA	.3970	RC3	-.0108	FAU	.01324												
FDE	.2653	FRA	.7141	FC3	-.0765	BSP	2462												
BDE	1.0284	BRA	1.6831	BC3	.1334	FSP	-78												

MID-COURSE EXECUTION ACCURACY

SGT	900.0	SGR	462.3	SG3	36.0						
RRT	-.1174	RRF	.1123	RTF	.6695						
SGB	1011.8	R23	-.0062	R13	.6703						
SG1	902.2	SG2	458.0	THA	175.35						

ORBIT DETERMINATION ACCURACY

ST	339.2	SR	422.3	SS	301.2						
CRT	.5966	CRS	.6648	CST	.9941						
LSA	559.1	MSA	267.0	SSA	14.2						
EL1	487.7	EL2	235.7	ALF	55.15						

LAUNCH DATE OCT 9 1965 FLIGHT TIME 76.00 ARRIVAL DATE DEC 24 1965

HELIOCENTRIC CONIC DISTANCE 157.425

RL	149.41	LAL	.00	LOL	15.50	VL	20.126	GAL	14.24	AZL	90.31	HCA	56.47	SMA	96.77	ECC	.58181	INC	.3129	V1	29.822
RP	107.83	LAP	-.26	LOP	71.97	VP	33.017	GAP	-35.05	AZP	90.17	TAL	169.23	TAP	225.70	RCA	40.47	APO	153.08	V2	35.144
RC	58.824	GL	-.52	GP	-4.69	ZAL	62.15	ZAP	23.96	ETS	166.14	ZAE	144.05	ETE	187.21	ZAC	21.40	ETC	114.51	CLP	23.52

PLANETOCENTRIC CONIC

C3 135.991 VHL 11.662 DLA -17.32 RAL 315.98 RAD 6570.5 VEL 16.041 PTH 2.83 VHP 20.524 DPA -29.13 RAP 275.91 ECC 3.2381

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 36 18	2095.97	-16.52	34.11	204.74	113.33	10 11 14	1496.0	-13.23	26.98
90.00	16 52 15	5881.87	25.55	282.34	218.07	102.63	18 30 17	5281.9	27.04	273.99
100.00	10 47 38	1865.80	-18.29	16.38	203.93	114.06	11 18 44	1265.8	-14.89	9.24
100.00	18 23 36	5587.28	27.44	261.14	218.54	102.35	19 56 43	4987.3	28.86	252.62
110.00	11 33 52	1720.96	-22.85	3.11	201.65	116.14	12 2 33	1121.0	-19.15	355.93
110.00	19 53 52	5304.88	32.36	240.89	219.75	101.67	21 22 17	4704.9	33.63	231.89

DIFFERENTIAL CORRECTIONS

TDE	-.5152	TRA	-1.6439	TC3	-.1393	BAU	.2545												
RDE	-.8517	RRA	.3946	RC3	-.0136	FAU	.01346												
FDE	.2827	FRA	.7411	FC3	-.0857	BSP	2637												
BDE	.9954	BRA	1.6906	BC3	.1400	FSP	-86												

MID-COURSE EXECUTION ACCURACY

SGT	941.0	SGR	466.2	SG3	39.1						
RRT	-.1267	RRF	.1217	RTF	-.6880						
SGB	1050.1	R23	-.0070	R13	.6888						
SG1	943.4	SG2	461.3	THA	175.28						

ORBIT DETERMINATION ACCURACY

ST	358.6	SR	422.9	SS	319.3						
CRT	.5966	CRS	.6717	CST	.9934						
LSA	578.6	MSA	272.7	SSA	14.4						
EL1	497.6	EL2	244.6	ALF	52.76						

LAUNCH DATE OCT 9 1965 FLIGHT TIME 78.00 ARRIVAL DATE DEC 26 1965

HELIOCENTRIC CONIC DISTANCE 163.652

RL	149.41	LAL	.00	LOL	15.50	VL	20.668	GAL	13.61	AZL	90.08	HCA	59.70	SMA	98.36	ECC	.55671	INC	.0810
RP	107.80	LAP	-.07	LOP	75.19	VP	33.362	GAP	-33.43	AZP	90.04	TAL	168.60	TAP	228.30	RCA	43.60	APO	153.11
RC	56.947	GL	-.15	GP	-4.86	ZAL	61.14	ZAP	22.55	ETS	164.99	ZAE	144.84	ETE	188.44	ZAC	22.41	ETC	118.24

V1	29.822																		
V2	35.155																		
CLP	22.04																		

PLANETOCENTRIC CONIC

C3	123.430	VHL	11.110	DLA	-16.67	RAL	316.86	RAD	6570.3	VEL	15.645	PTH	2.78	VHP	19.688	DPA	-29.31	RAP	277.91

ECC	3.0313																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 33 28	2101.68	-16.68	34.46	204.40	113.22	10 8 29	1501.7	-13.39	27.32
90.00	17 2 10	5838.75	26.16	279.33	217.37	101.24	18 39 29	5238.8	27.45	270.90
100.00	10 45 22	1869.69	-18.40	16.61	203.61	113.98	11 16 31	1269.7	-15.01	9.47
100.00	18 32 58	5545.98	28.01	258.20	217.78	100.90	20 5 24	4946.0	29.22	249.60
110.00	11 32 44	1721.27	-22.86	3.13	201.39	116.14	12 1 26	1121.3	-19.16	355.95
110.00	20 2 5	5267.16	32.84	238.06	218.81	100.06	21 29 52	4667.2	33.88	228.98

DIFFERENTIAL CORRECTIONS

TDE	-.5234	TRA	-1.6547	TC3	-.1463	BAU	.2429
RDE	-.8102	RRA	.3915	RC3	-.0168	FAU	.01369
FDE	.3010	FRA	.7693	FC3	-.0960	BSP	2756
BDE	.9645	BRA	1.7004	BC3	.1472	FSP	-95

MID-COURSE EXECUTION ACCURACY

SGT	985.9	SGR	469.5	SG3	42.4		
RRT	-.1358	RRF	.1318	RTF	-.7053		
SGB	1092.0	R23	-.0089	R13	.7062		
SG1	988.6	SG2	463.9	THA	175.25		

ORBIT DETERMINATION ACCURACY

ST	380.0	SR	422.6	SS	338.4		
CRT	.5972	CRS	.6780	CST	.9928		
LSA	600.1	MSA	277.7	SSA	14.6		
EL1	508.8	EL2	253.1	ALF	50.06		

LAUNCH DATE OCT 9 1965 FLIGHT TIME 80.00 ARRIVAL DATE DEC 28 1965

HELIOCENTRIC CONIC DISTANCE 169.952

RL	149.41	LAL	.00	LOL	15.50	VL	21.174	GAL	13.00	AZL	89.86	HCA	62.92	SMA	99.92	ECC	.53244	INC	.1354
RP	107.76	LAP	.12	LOP	78.42	VP	33.689	GAP	-31.89	AZP	89.94	TAL	168.01	TAP	230.93	RCA	46.72	APO	153.13
RC	55.125	GL	.26	GP	-5.05	ZAL	60.20	ZAP	21.16	ETS	163.65	ZAE	145.74	ETE	189.83	ZAC	23.53	ETC	121.66

V1	29.822																		
V2	35.166																		
CLP	20.57																		

PLANETOCENTRIC CONIC

C3	112.077	VHL	10.587	DLA	-16.00	RAL	317.68	RAD	6570.1	VEL	15.278	PTH	2.74	VHP	18.880	DPA	-29.49	RAP	279.92

ECC	2.8445																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 30 18	2106.97	-16.82	34.78	203.96	113.12	10 5 25	1507.0	-13.55	27.63
90.00	17 11 50	5794.67	26.71	276.22	216.49	99.77	18 48 24	5194.7	27.79	267.71
100.00	10 42 45	1873.21	-18.50	16.83	203.19	113.91	11 13 58	1273.2	-15.11	9.68
100.00	18 42 4	5503.66	28.51	255.15	216.84	99.38	20 13 48	4903.7	29.51	246.49
110.00	11 31 15	1721.26	-22.86	3.13	201.01	116.14	11 59 56	1121.3	-19.16	355.95
110.00	20 10 3	5228.37	33.27	235.11	217.70	98.36	21 37 11	4628.4	34.06	225.96

DIFFERENTIAL CORRECTIONS

TDE	-.5285	TRA	-1.6626	TC3	-.1519	BAU	.2297
RDE	-.7692	RRA	.3878	RC3	-.0206	FAU	.01396
FDE	.3198	FRA	.7980	FC3	-.1079	BSP	2937
BDE	.9333	BRA	1.7073	BC3	.1533	FSP	-105

MID-COURSE EXECUTION ACCURACY

SGT	1030.3	SGR	472.1	SG3	46.0		
RRT	-.1465	RRF	.1431	RTF	.7224		
SGB	1133.3	R23	-.0101	R13	.7233		
SG1	1033.2	SG2	465.7	THA	175.18		

ORBIT DETERMINATION ACCURACY

ST	401.0	SR	421.4	SS	358.0		
CRT	.5959	CRS	.6835	CST	.9919		
LSA	621.9	MSA	282.1	SSA	14.8		
EL1	519.9	EL2	261.0	ALF	47.39		

LAUNCH DATE OCT 9 1965 FLIGHT TIME 82.00 ARRIVAL DATE DEC 30 1965

HELIOCENTRIC CONIC DISTANCE 176.319

RL	149.41	LAL	.00	LOL	15.50	VL	21.646	GAL	12.41	AZL	89.66	HCA	66.15	SMA	101.47	ECC	.50902	INC	.3408
RP	107.73	LAP	.31	LOP	81.64	VP	33.999	GAP	-30.41	AZP	89.86	TAL	167.44	TAP	233.59	RCA	49.82	APO	153.12
RC	53.365	GL	.71	GP	-5.26	ZAL	59.32	ZAP	19.80	ETS	162.08	ZAE	146.75	ETE	191.42	ZAC	24.74	ETC	124.76

V1	29.822																		
V2	35.176																		
CLP	19.11																		

PLANETOCENTRIC CONIC

C3	101.814	VHL	10.090	DLA	-15.31	RAL	318.41	RAD	6570.0	VEL	14.938	PTH	2.69	VHP	18.101	DPA	-29.66	RAP	281.96

ECC	2.6756																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 26 47	2111.96	-16.95	35.09	203.40	113.03	10 1 59	1512.0	-13.69	27.93
90.00	17 21 13	5749.59	27.19	273.00	215.45	98.23	18 57 3	5149.6	28.05	264.44
100.00	10 39 46	1876.48	-18.59	17.03	202.66	113.84	11 11 2	1276.5	-15.21	9.87
100.00	18 50 55	5460.31	28.95	252.01	215.73	97.78	20 21 56	4860.3	29.73	243.29
110.00	11 29 23	1721.04	-22.85	3.12	200.53	116.14	11 58 4	1121.0	-19.15	355.94
110.00	20 17 47	5188.51	33.62	232.05	216.42	96.58	21 44 16	4588.5	34.16	222.85

DIFFERENTIAL CORRECTIONS

TDE	-.5331	TRA	-1.6702	TC3	-.1569	BAU	.2163
RDE	-.7288	RRA	.3836	RC3	-.0250	FAU	.01427
FDE	.3394	FRA	.8277	FC3	-.1213	BSP	3123
BDE	.9030	BRA	1.7137	BC3	.1589	FSP	-116

MID-COURSE EXECUTION ACCURACY

SGT	1076.5	SGR	474.1	SG3	50.0		
RRT	-.1583	RRF	.1554	RTF	-.7387		
SGB	1176.3	R23	-.0115	R13	.7397		
SG1	1079.7	SG2	466.8	THA	175.09		

ORBIT DETERMINATION ACCURACY

ST	422.8	SR	419.4	SS	378.5		
CRT	.5940	CRS	.6882	CST	.9910		
LSA	645.0	MSA	285.7	SSA	15.0		
EL1	531.6	EL2	268.3	ALF	44.61		

LAUNCH DATE OCT 9 1965 FLIGHT TIME 84.00 ARRIVAL DATE JAN 1 1966

HELIOCENTRIC CONIC DISTANCE 182.748

RL	149.41	LAL	.00	LOL	15.50	VL	22.087	GAL	11.83	AZL	89.46	HCA	69.38	SMA	102.99	ECC	.48649	INC	.5362
RP	107.70	LAP	.50	LOP	84.87	VP	34.292	GAP	-29.00	AZP	89.81	TAL	166.91	TAP	236.28	RCA	52.89	APO	153.09
RC	51.675	GL	1.21	GP	-5.48	ZAL	58.51	ZAP	18.47	ETS	160.23	ZAE	147.87	ETE	193.26	ZAC	26.04	ETC	127.56

V1	29.822																		
V2	35.186																		
CLP	17.66																		

PLANETOCENTRIC CONIC

C3	92.535	VHL	9.620	DLA	-14.59	RAL	319.07	RAD	6569.8	VEL	14.625	PTH	2.65	VHP	17.348	DPA	-29.82	RAP	284.01

ECC	2.5229																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 22 53	2116.80	-17.08	35.38	202.74	112.93	9 58 10	1516.8	-13.83	28.22
90.00	17 30 22	5703.49	27.60	269.69	214.24	96.62	19 5 26	5103.5	28.22	261.08
100.00	10 36 24	1879.62	-18.67	17.22	202.02	113.77	11 7 43	1279.6	-15.30	10.05
100.00	18 59 33	5415.90	29.32	248.76	214.46	96.10	20 29 49	4815.9	29.86	239.99
110.00	11 27 8	1720.71	-22.84	3.10	199.94	116.15	11 55 48	1120.7	-19.14	355.92
110.00	20 25 18	5147.58	33.89	228.89	214.97	94.73	21 51 6	4547.6	34.18	219.65

DIFFERENTIAL CORRECTIONS

TDE	-.5371	TRA	-1.6770	TC3	-.1611	BAU	.2027
RDE	-.6889	RRA	.3789	RC3	-.0301	FAU	.01461
FDE	.3600	FRA	.8584	FC3	-.1367	BSP	3318
BDE	.8736	BRA	1.7192	BC3	.1638	FSP	-128

MID-COURSE EXECUTION ACCURACY

SGT	1124.1	SGR	475.5	SG3	54.3		
RRT	-.1711	RRF	.1690	RTF	-.7543		
SGB	1220.6	R23	-.0132	R13	.7553		
SG1	1127.7	SG2	467.0	THA	175.00		

ORBIT DETERMINATION ACCURACY

ST	445.3	SR	416.3	SS	399.8		
CRT	.5914	CRS	.6923	CST	.9900		
LSA	669.3	MSA	288.5	SSA	15.1		
EL1	544.2	EL2	274.7	ALF	41.74		

LAUNCH DATE OCT 9 1965 FLIGHT TIME 86.00 ARRIVAL DATE JAN 3 1966

HELIOCENTRIC CONIC DISTANCE 189.233

RL	149.41	LAL	.00	LOL	15.50	VL	22.500	GAL	11.27	AZL	89.28	HCA	72.61	SMA	104.48	ECC	.46485	INC	.7236
RP	107.67	LAP	.69	LOP	88.10	VP	34.568	GAP	-27.65	AZP	89.78	TAL	166.41	TAP	239.02	RCA	55.91	APO	153.05
RC	50.062	GL	1.74	GP	-5.73	ZAL	57.75	ZAP	17.18	ETS	158.03	ZAE	149.10	ETE	195.39	ZAC	27.41	ETC	130.09

PLANETOCENTRIC CONIC																			
C3	84.147	VHL	9.173	DLA	-13.85	RAL	319.65	RAD	6569.6	VEL	14.335	PTH	2.61	VHP	16.621	DPA	-29.98	RAP	286.08

ECC	2.3848																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 18 36	2121.63	-17.21	35.68	201.98	112.84	9 53 57	1521.6	-13.97	28.50
90.00	17 39 18	5656.36	27.92	266.28	212.87	94.94	19 13 34	5056.4	28.31	257.64
100.00	10 32 37	1882.78	-18.76	17.42	201.28	113.71	11 4 0	1282.8	-15.40	10.24
100.00	19 7 57	5370.44	29.60	245.41	213.03	94.36	20 37 28	4770.4	29.89	236.61
110.00	11 24 27	1720.42	-22.83	3.08	199.26	116.16	11 53 8	1120.4	-19.13	355.90
110.00	20 32 37	5105.56	34.08	225.62	213.36	92.80	21 57 42	4505.6	34.09	216.38

DIFFERENTIAL CORRECTIONS								MID-COURSE EXECUTION ACCURACY								ORBIT DETERMINATION ACCURACY					
TDE	-.5432	TRA	-1.6857	TC3	-.1654	BAU	.1904	SGT	1176.1	SGR	476.3	SG3	58.9	ST	470.2	SR	412.1	SS	422.5
RDE	-.6496	RRA	.3740	RC3	-.0360	FAU	.01497	RRT	-.1843	RRF	.1839	RTF	-.7687	CRT	.5894	CRS	.6960	CST	.9891
FDE	.3820	FRA	.8908	FC3	-.1540	BSP	3455	SGB	1268.9	R23	-.0160	R13	.7698	LSA	696.3	MSA	290.3	SSA	15.3
BDE	.8468	BRA	1.7267	BC3	.1693	FSP	-140	SG1	1180.0	SG2	466.6	THA	174.94	EL1	559.0	EL2	280.0	ALF	38.68

LAUNCH DATE OCT 9 1965 FLIGHT TIME 88.00 ARRIVAL DATE JAN 5 1966

HELIOCENTRIC CONIC DISTANCE 195.769

RL	149.41	LAL	.00	LOL	15.50	VL	22.885	GAL	10.73	AZL	89.10	HCA	75.84	SMA	105.94	ECC	.44411	INC	.9044
RP	107.64	LAP	.88	LOP	91.33	VP	34.829	GAP	-26.35	AZP	89.78	TAL	165.95	TAP	241.79	RCA	58.89	APO	152.99
RC	48.537	GL	2.33	GP	-6.00	ZAL	57.07	ZAP	15.93	ETS	155.40	ZAE	150.42	ETE	197.88	ZAC	28.86	ETC	132.37

PLANETOCENTRIC CONIC																			
C3	76.564	VHL	8.750	DLA	-13.09	RAL	320.16	RAD	6569.5	VEL	14.068	PTH	2.57	VHP	15.919	DPA	-30.13	RAP	288.16

ECC	2.2601																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 13 53	2126.63	-17.34	35.99	201.13	112.74	9 49 19	1526.6	-14.11	28.80
90.00	17 48 2	5608.17	28.15	262.77	211.35	93.20	19 21 30	5008.2	28.30	254.11
100.00	10 28 25	1886.13	-18.85	17.63	200.45	113.64	10 59 51	1286.1	-15.50	10.44
100.00	19 16 10	5323.90	29.79	241.96	211.44	92.56	20 44 54	4723.9	29.83	233.16
110.00	11 21 21	1720.33	-22.83	3.07	198.47	116.16	11 50 2	1120.3	-19.13	355.89
110.00	20 39 43	5062.47	34.17	222.26	211.60	90.82	22 4 6	4462.5	33.91	213.02

DIFFERENTIAL CORRECTIONS								MID-COURSE EXECUTION ACCURACY								ORBIT DETERMINATION ACCURACY					
TDE	-.5466	TRA	-1.6911	TC3	-.1674	BAU	.1769	SGT	1227.4	SGR	476.6	SG3	64.0	ST	494.5	SR	406.9	SS	446.0
RDE	-.6109	RRA	.3689	RC3	-.0428	FAU	.01539	RRT	-.1997	RRF	.2005	RTF	-.7829	CRT	.5856	CRS	.6988	CST	.9879
FDE	.4050	FRA	.9241	FC3	-.1740	BSP	3654	SGB	1316.6	R23	-.0183	R13	.7840	LSA	723.8	MSA	291.4	SSA	15.5
BDE	.8197	BRA	1.7309	BC3	.1728	FSP	-154	SG1	1231.7	SG2	465.3	THA	174.83	EL1	573.8	EL2	284.2	ALF	35.73

LAUNCH DATE OCT 9 1965 FLIGHT TIME 90.00 ARRIVAL DATE JAN 7 1966

HELIOCENTRIC CONIC DISTANCE 202.352

RL	149.41	LAL	.00	LOL	15.50	VL	23.244	GAL	10.20	AZL	88.92	HCA	79.07	SMA	107.36	ECC	.42428	INC	1.0804
RP	107.62	LAP	1.06	LOP	94.57	VP	35.074	GAP	-25.10	AZP	89.80	TAL	165.53	TAP	244.60	RCA	61.81	APO	152.91
RC	47.108	GL	2.96	GP	-6.30	ZAL	56.45	ZAP	14.73	ETS	152.23	ZAE	151.82	ETE	200.80	ZAC	30.36	ETC	134.41

PLANETOCENTRIC CONIC																			
C3	69.714	VHL	8.349	DLA	-12.28	RAL	320.58	RAD	6569.3	VEL	13.823	PTH	2.52	VHP	15.241	DPA	-30.29	RAP	290.25

ECC	2.1473																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 8 42	2132.01	-17.48	36.32	200.18	112.64	9 44 14	1532.0	-14.26	29.12
90.00	17 56 35	5558.90	28.29	259.18	209.69	91.40	19 29 14	4958.9	28.18	250.51
100.00	10 23 45	1889.86	-18.95	17.86	199.52	113.56	10 55 15	1289.9	-15.61	10.66
100.00	19 24 13	5276.28	29.89	238.42	209.72	90.70	20 52 9	4676.3	29.66	229.62
110.00	11 17 48	1720.59	-22.84	3.09	197.60	116.15	11 46 29	1120.6	-19.14	355.91
110.00	20 46 39	5018.32	34.16	218.81	209.70	88.78	22 10 17	4418.3	33.62	209.61

DIFFERENTIAL CORRECTIONS								MID-COURSE EXECUTION ACCURACY								ORBIT DETERMINATION ACCURACY					
TDE	-.5496	TRA	-1.6956	TC3	-.1680	BAU	.1635	SGT	1280.2	SGR	476.3	SG3	69.6	ST	519.6	SR	400.4	SS	470.8
RDE	-.5727	RRA	.3638	RC3	-.0507	FAU	.01585	RRT	-.2169	RRF	.2191	RTF	-.7963	CRT	.5810	CRS	.7009	CST	.9867
FDE	.4296	FRA	.9591	FC3	-.1969	BSP	3855	SGB	1366.0	R23	-.0209	R13	.7974	LSA	752.8	MSA	291.6	SSA	15.6
BDE	.7938	BRA	1.7342	BC3	.1754	FSP	-170	SG1	1285.0	SG2	463.3	THA	174.70	EL1	589.8	EL2	287.1	ALF	32.80

LAUNCH DATE OCT 9 1965 FLIGHT TIME 92.00 ARRIVAL DATE JAN 9 1966

HELIOCENTRIC CONIC DISTANCE 208.975

RL	149.41	LAL	.00	LOL	15.50	VL	23.579	GAL	9.70	AZL	88.75	HCA	82.31	SMA	108.74	ECC	.40536	INC	1.2525
RP	107.60	LAP	1.24	LOP	97.80	VP	35.305	GAP	-23.91	AZP	89.83	TAL	165.15	TAP	247.45	RCA	64.66	APO	152.82
RC	45.785	GL	3.65	GP	-6.63	ZAL	55.90	ZAP	13.60	ETS	148.41	ZAE	153.27	ETE	204.26	ZAC	31.91	ETC	136.23

PLANETOCENTRIC CONIC																			
C3	63.530	VHL	7.971	DLA	-11.45	RAL	320.92	RAD	6569.2	VEL	13.597	PTH	2.49	VHP	14.586	DPA	-30.44	RAP	292.35

ECC	2.0455																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 3 2	2137.98	-17.64	36.69	199.16	112.52	9 38 40	1538.0	-14.43	29.48
90.00	18 4 58	5508.55	28.31	255.49	207.90	89.55	19 36 47	4908.5	27.95	246.85
100.00	10 18 36	1894.19	-19.07	18.12	198.52	113.46	10 50 10	1294.2	-15.74	10.92
100.00	19 32 6	5227.57	29.87	234.80	207.87	88.79	20 59 13	4627.6	29.38	226.03
110.00	11 13 46	1721.43	-22.86	3.14	196.64	116.13	11 42 27	1121.4	-19.16	355.96
110.00	20 53 25	4973.10	34.04	215.28	207.68	86.69	22 16 18	4373.1	33.21	206.14

DIFFERENTIAL CORRECTIONS								MID-COURSE EXECUTION ACCURACY								ORBIT DETERMINATION ACCURACY					
TDE	-.5526	TRA	-1.6991	TC3	-.1667	BAU	.1504	SGT	1334.7	SGR	475.6	SG3	75.7	ST	545.6	SR	392.7	SS	497.0
RDE	-.5351	RRA	.3587	RC3	-.0597	FAU	.01637	RRT	-.2359	RRF	.2398	RTF	-.8091	CRT	.5756	CRS	.7022	CST	.9854
FDE	.4559	FRA	.9957	FC3	-.2230	BSP	4061	SGB	1416.9	R23	-.0238	R13	.8103	LSA	783.5	MSA	290.9	SSA	15.7
BDE	.7692	BRA	1.7366	BC3	.1770	FSP	-188	SG1	1340.0	SG2	460.4	THA	174.55	EL1	607.1	EL2	288.6	ALF	29.91

LAUNCH DATE OCT 9 1965 FLIGHT TIME 94.00 ARRIVAL DATE JAN 11 1966

HELIOCENTRIC CONIC DISTANCE 215.635

RL	149.41	LAL	.00	LOL	15.50	VL	23.892	GAL	9.21	AZL	88.58	HCA	85.55	SMA	110.08	ECC	.38733	INC	1.4222	VI	29.822
RP	107.57	LAP	1.42	LOP	101.04	VP	35.522	GAP	-22.75	AZP	89.89	TAL	164.81	TAP	250.35	RCA	67.44	APO	152.72	V2	35.227
RC	44.580	GL	4.41	GP	-7.00	ZAL	55.42	ZAP	12.56	ETS	143.77	ZAE	154.74	ETE	208.37	ZAC	33.51	ETC	137.86	CLP	10.46

PLANETOCENTRIC CONIC

C3	57.952	VHL	7.613	DLA	-10.57	RAL	321.18	RAD	6569.1	VEL	13.391	PTH	2.45	VHP	13.954	DPA	-30.61	RAP	294.46	ECC	1.9537

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 56 50	2144.79	-17.82	37.11	198.05	112.38	9 32 35	1544.8	-14.63	29.89
90.00	18 13 14	5457.08	28.23	251.73	205.99	87.67	19 44 11	4857.1	27.61	243.12
100.00	10 12 55	1899.35	-19.21	18.44	197.43	113.35	10 44 34	1299.3	-15.89	11.23
100.00	19 39 51	5177.75	29.74	231.10	205.91	86.85	21 6 8	4577.8	28.99	222.38
110.00	11 9 13	1723.04	-22.91	3.24	195.61	116.09	11 37 56	1123.0	-19.22	356.05
110.00	21 0 2	4926.82	33.80	211.69	205.55	84.58	22 22 9	4326.8	32.68	202.64

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-.5553	TRA	-1.7014	TC3	-.1633	BAU	.1377	SGT	1390.5	SGR	474.6	SG3	82.3	ST	572.2	SR	383.6	SS	524.6
RDE	-.4981	RRA	.3539	RC3	-.0700	FAU	.01694	RRT	-.2572	RRF	.2631	RTF	-.8211	CRT	.5692	CRS	.7024	CST	.9841
FDE	.4841	FRA	1.0343	FC3	-.2530	BSP	4271	SGB	1469.3	R23	-.0273	R13	.8224	LSA	816.0	MSA	289.3	SSA	15.9
BDE	.7459	BRA	1.7378	BC3	.1777	FSP	-207	SG1	1396.5	SG2	456.7	THA	174.38	EL1	625.6	EL2	288.5	ALF	27.09

LAUNCH DATE OCT 9 1965 FLIGHT TIME 96.00 ARRIVAL DATE JAN 13 1966

HELIOCENTRIC CONIC DISTANCE 222.326

RL	149.41	LAL	.00	LOL	15.50	VL	24.184	GAL	8.74	AZL	88.41	HCA	88.78	SMA	111.37	ECC	.37020	INC	1.5903	VI	29.822
RP	107.55	LAP	1.59	LOP	104.28	VP	35.725	GAP	-21.64	AZP	89.97	TAL	164.51	TAP	253.30	RCA	70.14	APO	152.60	V2	35.234
RC	43.503	GL	5.23	GP	-7.40	ZAL	55.02	ZAP	11.64	ETS	138.17	ZAE	156.18	ETE	213.26	ZAC	35.15	ETC	139.31	CLP	9.01

PLANETOCENTRIC CONIC

C3	52.926	VHL	7.275	DLA	-9.65	RAL	321.36	RAD	6568.9	VEL	13.202	PTH	2.41	VHP	13.343	DPA	-30.78	RAP	296.57	ECC	1.8710

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 50 4	2152.70	-18.02	37.60	196.88	112.22	9 25 57	1552.7	-14.85	30.36
90.00	18 21 24	5404.47	28.02	247.90	203.99	85.75	19 51 29	4804.5	27.14	239.34
100.00	10 6 40	1905.58	-19.38	18.83	196.28	113.21	10 38 26	1305.6	-16.07	11.60
100.00	19 47 29	5126.82	29.49	227.34	203.85	84.88	21 12 56	4526.8	28.47	218.68
110.00	11 4 8	1725.68	-22.99	3.41	194.51	116.02	11 32 53	1125.7	-19.30	356.21
110.00	21 6 32	4879.49	33.44	208.05	203.34	82.45	22 27 51	4279.5	32.03	199.10

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-.5581	TRA	-1.7025	TC3	-.1574	BAU	.1255	SGT	1447.6	SGR	473.5	SG3	89.6	ST	599.8	SR	373.0	SS	554.0
RDE	-.4615	RRA	.3494	RC3	-.0818	FAU	.01756	RRT	-.2811	RRF	.2892	RTF	-.8325	CRT	.5615	CRS	.7016	CST	.9827
FDE	.5149	FRA	1.0749	FC3	-.2873	BSP	4485	SGB	1523.1	R23	-.0311	R13	.8339	LSA	850.5	MSA	286.9	SSA	16.0
BDE	.7242	BRA	1.7380	BC3	.1774	FSP	-228	SG1	1454.4	SG2	452.3	THA	174.18	EL1	645.5	EL2	286.8	ALF	24.35

LAUNCH DATE OCT 9 1965 FLIGHT TIME 98.00 ARRIVAL DATE JAN 15 1966

HELIOCENTRIC CONIC DISTANCE 229.044

RL	149.41	LAL	.00	LOL	15.50	VL	24.455	GAL	8.28	AZL	88.24	HCA	92.02	SMA	112.62	ECC	.35394	INC	1.7582	VI	29.822
RP	107.54	LAP	1.76	LOP	107.52	VP	35.915	GAP	-20.57	AZP	90.06	TAL	164.26	TAP	256.29	RCA	72.76	APO	152.48	V2	35.239
RC	42.563	GL	6.13	GP	-7.84	ZAL	54.69	ZAP	10.87	ETS	131.48	ZAE	157.52	ETE	219.05	ZAC	36.83	ETC	140.60	CLP	7.55

PLANETOCENTRIC CONIC

C3	48.404	VHL	6.957	DLA	-8.68	RAL	321.45	RAD	6568.8	VEL	13.029	PTH	2.38	VHP	12.755	DPA	-30.97	RAP	298.69	ECC	1.7966

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 42 42	2161.99	-18.26	38.18	195.65	112.03	9 18 44	1562.0	-15.11	30.92
90.00	18 29 30	5350.72	27.69	244.00	201.90	83.83	19 58 41	4750.7	26.55	235.52
100.00	9 59 50	1913.18	-19.58	19.30	195.07	113.05	10 31 43	1313.2	-16.29	12.05
100.00	19 55 4	5074.76	29.11	223.51	201.71	82.91	21 19 38	4474.8	27.83	214.95
110.00	10 58 28	1729.59	-23.11	3.65	193.35	115.92	11 27 17	1129.6	-19.43	356.44
110.00	21 12 55	4831.12	32.94	204.36	201.05	80.32	22 33 26	4231.1	31.26	195.54

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-.5613	TRA	-1.7024	TC3	-.1488	BAU	.1143	SGT	1506.0	SGR	472.3	SG3	97.7	ST	628.3	SR	360.7	SS	585.4
RDE	-.4253	RRA	.3456	RC3	-.0952	FAU	.01825	RRT	-.3079	RRF	.3186	RTF	-.8433	CRT	.5522	CRS	.6992	CST	.9814
FDE	.5484	FRA	1.1180	FC3	-.3265	BSP	4701	SGB	1578.3	R23	-.0356	R13	.8448	LSA	887.1	MSA	283.5	SSA	16.1
BDE	.7042	BRA	1.7372	BC3	.1766	FSP	-251	SG1	1513.6	SG2	447.1	THA	173.96	EL1	666.7	EL2	283.4	ALF	21.71

LAUNCH DATE OCT 9 1965 FLIGHT TIME 100.00 ARRIVAL DATE JAN 17 1966

HELIOCENTRIC CONIC DISTANCE 235.785

RL	149.41	LAL	.00	LOL	15.50	VL	24.708	GAL	7.85	AZL	88.07	HCA	95.26	SMA	113.82	ECC	.33855	INC	1.9268	VI	29.822
RP	107.52	LAP	1.92	LOP	110.76	VP	36.092	GAP	-19.54	AZP	90.18	TAL	164.06	TAP	259.32	RCA	75.29	APO	152.36	V2	35.244
RC	41.769	GL	7.10	GP	-8.34	ZAL	54.45	ZAP	10.31	ETS	123.68	ZAE	158.67	ETE	225.83	ZAC	38.54	ETC	141.74	CLP	6.08

PLANETOCENTRIC CONIC

C3	44.344	VHL	6.659	DLA	-7.65	RAL	321.45	RAD	6568.7	VEL	12.873	PTH	2.34	VHP	12.187	DPA	-31.19	RAP	300.80	ECC	1.7298

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 34 41	2172.97	-18.54	38.86	194.37	111.80	9 10 54	1573.0	-15.42	31.58
90.00	18 37 34	5295.78	27.23	240.05	199.73	81.90	20 5 50	4695.8	25.82	231.66
100.00	9 52 21	1922.43	-19.83	19.88	193.81	112.84	10 24 23	1322.4	-16.56	12.61
100.00	20 2 35	5021.56	28.60	219.64	199.50	80.93	21 26 17	4421.6	27.05	211.18
110.00	10 52 12	1735.05	-23.27	3.99	192.14	115.78	11 21 7	1135.0	-19.61	356.76
110.00	21 19 14	4781.70	32.32	200.64	198.71	78.20	22 38 56	4181.7	30.35	191.97

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-.5646	TRA	-1.7012	TC3	-.1369	BAU	.1043	SGT	1565.4	SGR	471.4	SG3	106.5	ST	657.5	SR	346.7	SS	619.0
RDE	-.3894	RRA	.3424	RC3	-.1103	FAU	.01902	RRT	-.3381	RRF	.3517	RTF	-.8535	CRT	.5407	CRS	.6946	CST	.9800
FDE	.5852	FRA	1.1637	FC3	-.3713	BSP	4918	SGB	1634.8	R23	-.0406	R13	.8552	LSA	925.9	MSA	279.4	SSA	16.2
BDE	.6859	BRA	1.7353	BC3	.1759	FSP	-277	SG1	1574.2	SG2	441.2	THA	173.69	EL1	689.3	EL2	278.2	ALF	19.15

LAUNCH DATE OCT 9 1965 FLIGHT TIME 102.00 ARRIVAL DATE JAN 19 1966

HELIOCENTRIC CONIC DISTANCE 242.543

RL	149.41	LAL	.00	LOL	15.50	VL	24.943	GAL	7.43	AZL	87.90	HCA	98.51	SMA	114.97	ECC	.32399	INC	2.0972	V1	29.822
RP	107.51	LAP	2.07	LOP	114.01	VP	36.258	GAP	-18.55	AZP	90.31	TAL	163.90	TAP	262.40	RCA	77.72	APO	152.22	V2	35.249
RC	41.131	GL	8.16	GP	-8.89	ZAL	54.29	ZAP	10.00	ETS	114.92	ZAE	159.55	ETE	233.59	ZAC	40.28	ETC	142.74	CLP	4.59

PLANETOCENTRIC CONIC

C3	40.705	VHL	6.380	DLA	-6.56	RAL	321.37	RAD	6568.6	VEL	12.731	PTH	2.31	VHP	11.640	DPA	-31.44	RAP	302.92	ECC	1.6699

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 25 58	2185.97	-18.86	39.68	193.05	111.52	9 2 24	1586.0	-15.78	32.36
90.00	18 45 38	5239.62	26.62	236.05	197.52	79.98	20 12 58	4639.6	24.97	227.77
100.00	9 44 11	1933.64	-20.12	20.58	192.51	112.58	10 16 24	1333.6	-16.89	13.28
100.00	20 10 6	4967.18	27.96	215.73	197.24	78.97	21 32 53	4367.2	26.15	207.39
110.00	10 45 17	1742.36	-23.48	4.45	190.90	115.58	11 14 19	1142.4	-19.85	357.20
110.00	21 25 30	4731.23	31.55	196.90	196.33	76.11	22 44 21	4131.2	29.32	188.40

DIFFERENTIAL CORRECTIONS

TDE	-.5688	TRA	-1.6987	TC3	-.1217	BAU	.0959												
RDE	-.3536	RRA	.3403	RC3	-.1275	FAU	.01986												
FDE	.6258	FRA	1.2124	FC3	-.4223	BSP	5140												
BDE	.6697	BRA	1.7324	BC3	.1763	FSP	-305												

MID-COURSE EXECUTION ACCURACY

SGT	1625.7	SGR	471.1	SG3	116.2														
RRT	-.3719	RRF	.3889	RTF	-.8631														
SGB	1692.6	R23	-.0465	R13	.8649														
SG1	1635.8	SG2	434.6	THA	173.38														

ORBIT DETERMINATION ACCURACY

ST	687.8	SR	330.7	SS	655.1														
CRT	.5262	CRS	.6873	CST	.9787														
LSA	967.5	MSA	274.4	SSA	16.3														
EL1	713.4	EL2	271.2	ALF	16.68														

LAUNCH DATE OCT 9 1965 FLIGHT TIME 104.00 ARRIVAL DATE JAN 21 1966

HELIOCENTRIC CONIC DISTANCE 249.317

RL	149.41	LAL	.00	LOL	15.50	VL	25.161	GAL	7.03	AZL	87.73	HCA	101.75	SMA	116.07	ECC	.31026	INC	2.2705	V1	29.822
RP	107.50	LAP	2.22	LOP	117.25	VP	36.412	GAP	-17.59	AZP	90.46	TAL	163.79	TAP	265.53	RCA	80.06	APO	152.09	V2	35.252
RC	40.657	GL	9.30	GP	-9.50	ZAL	54.21	ZAP	9.98	ETS	105.62	ZAE	160.03	ETE	242.16	ZAC	42.04	ETC	143.62	CLP	3.09

PLANETOCENTRIC CONIC

C3	37.453	VHL	6.120	DLA	-5.41	RAL	321.20	RAD	6568.5	VEL	12.602	PTH	2.29	VHP	11.114	DPA	-31.72	RAP	305.04	ECC	1.6164

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 16 29	2201.33	-19.24	40.64	191.71	111.18	8 53 11	1601.3	-16.20	33.30
90.00	18 53 45	5182.19	25.88	232.01	195.28	78.09	20 20 7	4582.2	23.98	223.85
100.00	9 35 17	1947.17	-20.47	21.43	191.19	112.27	10 7 44	1347.2	-17.28	14.10
100.00	20 17 39	4911.59	27.17	211.79	194.96	77.03	21 39 31	4311.6	25.11	203.59
110.00	10 37 40	1751.83	-23.76	5.04	189.62	115.33	11 6 52	1151.8	-20.15	357.76
110.00	21 31 45	4679.69	30.65	193.16	193.94	74.07	22 49 44	4079.7	28.16	184.84

DIFFERENTIAL CORRECTIONS

TDE	-.5738	TRA	-1.6948	TC3	-.1027	BAU	.0897												
RDE	-.3178	RRA	.3393	RC3	-.1469	FAU	.02077												
FDE	.6712	FRA	1.2642	FC3	-.4802	BSP	5358												
BDE	.6560	BRA	1.7284	BC3	.1792	FSP	-337												

MID-COURSE EXECUTION ACCURACY

SGT	1686.6	SGR	471.9	SG3	126.8														
RRT	-.4098	RRF	.4304	RTF	-.8721														
SGB	1751.4	R23	-.0532	R13	.8741														
SG1	1698.4	SG2	427.5	THA	173.01														

ORBIT DETERMINATION ACCURACY

ST	719.2	SR	312.6	SS	694.0														
CRT	.5075	CRS	.6760	CST	.9774														
LSA	1012.0	MSA	268.7	SSA	16.3														
EL1	739.1	EL2	262.1	ALF	14.27														

LAUNCH DATE OCT 9 1965 FLIGHT TIME 106.00 ARRIVAL DATE JAN 23 1966

HELIOCENTRIC CONIC DISTANCE 256.101

RL	149.41	LAL	.00	LOL	15.50	VL	25.364	GAL	6.65	AZL	87.55	HCA	104.99	SMA	117.12	ECC	.29734	INC	2.4480	V1	29.822
RP	107.49	LAP	2.36	LOP	120.50	VP	36.555	GAP	-16.66	AZP	90.63	TAL	163.72	TAP	268.71	RCA	82.30	APO	151.95	V2	35.255
RC	40.351	GL	10.55	GP	-10.18	ZAL	54.23	ZAP	10.30	ETS	96.35	ZAE	160.06	ETE	251.16	ZAC	43.84	ETC	144.37	CLP	1.56

PLANETOCENTRIC CONIC

C3	34.558	VHL	5.879	DLA	-4.19	RAL	320.94	RAD	6568.4	VEL	12.487	PTH	2.26	VHP	10.608	DPA	-32.06	RAP	307.15	ECC	1.5687

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 6 12	2219.42	-19.69	41.79	190.35	110.77	8 43 12	1619.4	-16.68	34.40
90.00	19 1 58	5123.45	24.99	227.93	193.02	76.23	20 27 22	4523.4	22.85	219.92
100.00	9 25 35	1963.35	-20.89	22.46	189.85	111.88	9 58 19	1363.3	-17.73	15.08
100.00	20 25 16	4854.75	26.24	207.82	192.67	75.14	21 46 11	4254.7	23.94	199.77
110.00	10 29 20	1763.79	-24.11	5.80	188.34	115.00	10 58 44	1163.8	-20.54	358.48
110.00	21 38 1	4627.07	29.61	189.41	191.55	72.08	22 55 8	4027.1	26.87	181.29

DIFFERENTIAL CORRECTIONS

TDE	-.5802	TRA	-1.6897	TC3	-.0804	BAU	.0863												
RDE	-.2817	RRA	.3398	RC3	-.1687	FAU	.02178												
FDE	.7218	FRA	1.3196	FC3	-.5457	BSP	5574												
BDE	.6450	BRA	1.7235	BC3	.1869	FSP	-371												

MID-COURSE EXECUTION ACCURACY

SGT	1748.0	SGR	474.4	SG3	138.5														
RRT	-.4514	RRF	.4765	RTF	-.8803														
SGB	1811.2	R23	-.0613	R13	.8826														
SG1	1761.8	SG2	420.0	THA	172.59														

ORBIT DETERMINATION ACCURACY

ST	751.8	SR	292.2	SS	736.1														
CRT	.4823	CRS	.6586	CST	.9763														
LSA	1059.9	MSA	262.3	SSA	16.4														
EL1	766.5	EL2	251.0	ALF	11.91														

LAUNCH DATE OCT 9 1965 FLIGHT TIME 108.00 ARRIVAL DATE JAN 25 1966

HELIOCENTRIC CONIC DISTANCE 262.892

RL	149.41	LAL	.00	LOL	15.50	VL	25.553	GAL	6.29	AZL	87.37	HCA	108.23	SMA	118.12	ECC	.28519	INC	2.6310	V1	29.822
RP	107.48	LAP	2.50	LOP	123.75	VP	36.688	GAP	-15.77	AZP	90.82	TAL	163.70	TAP	271.93	RCA	84.44	APO	151.81	V2	35.257
RC	40.219	GL	11.90	GP	-10.95	ZAL	54.35	ZAP	10.95	ETS	87.69	ZAE	159.57	ETE	260.06	ZAC	45.65	ETC	145.01	CLP	.01

PLANETOCENTRIC CONIC

C3	31.990	VHL	5.656	DLA	-2.88	RAL	320.59	RAD	6568.3	VEL	12.384	PTH	2.24	VHP	10.122	DPA	-32.46	RAP	309.27	ECC	1.5265

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 55 3	2240.64	-20.19	43.14	188.99	110.28	8 32 24	1640.6	-17.25	35.70
90.00	19 10 20	5063.30	23.95	223.83	190.77	74.43	20 34 44	4463.3	21.58	215.96
100.00	9 15 3	1982.57	-21.37	23.68	188.51	111.41	9 48 6	1382.6	-18.27	16.26
100.00	20 33 1	4796.60	25.16	203.83	190.38	73.31	21 52 58	4196.6	22.64	195.95
110.00	10 20 13	1778.59	-24.53	6.74	187.06	114.59	10 49 51	1178.6	-21.00	359.37
110.00	21 44 21	4573.35	28.42	185.68	189.18	70.16	23 0 34	3973.4	25.45	177.76

DIFFERENTIAL CORRECTIONS

TDE	-.5873	TRA	-1.6830	TC3	-.0519	BAU	.0855												
RDE	-.2450	RRA	.3421	RC3	-.1931	FAU	.02289												
FDE	.7791	FRA	1.3790	FC3	-.6193	BSP	5817												
BDE	.6364	BRA	1.7174	BC3	.2000	FSP	-410												

MID-COURSE EXECUTION ACCURACY

SGT	1808.7	SGR	479.3	SG3	151.4														
RRT	-.4981	RRF	.5269	RTF	-.8886														
SGB	1871.1	R23	-.0692	R13	.8912														
SG1	1825.3	SG2	411.8	THA	172.08														

ORBIT DETERMINATION ACCURACY

ST	785.0	SR	269.2	SS	781.9														
CRT	.4466	CRS	.6317	CST	.9751														
LSA	1111.1	MSA	255.4	SSA	16.4														
EL1	795.1	EL2	237.8	ALF	9.57														

LAUNCH DATE OCT 9 1965 FLIGHT TIME 110.00 ARRIVAL DATE JAN 27 1966

HELIOCENTRIC CONIC DISTANCE 269.687

RL 149.41 LAL .00 LOL 15.50 VL 25.727 GAL 5.94 AZL 87.18 HCA 111.48 SMA 119.07 ECC .27381 INC 2.8210 VI 29.822
RP 107.48 LAP 2.62 LOP 127.00 VP 36.811 GAP -14.90 AZP 91.03 TAL 163.72 TAP 275.20 RCA 86.47 APO 151.67 V2 35.259
RC 40.263 GL 13.36 GP -11.82 ZAL 54.56 ZAP 11.92 ETS 80.07 ZAE 158.60 ETE 268.37 ZAC 47.49 ETC 145.54 CLP -1.57

LANETOCENTRIC CONIC

C3 29.727 VHL 5.452 DLA -1.49 RAL 320.15 RAD 6568.2 VEL 12.292 PTH 2.21 VHP 9.657 DPA -32.93 RAP 311.39 ECC 1.4892

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 42 57	2265.40	-20.77	44.73	187.65	109.69	8 20 43	1665.4	-17.90	37.23
90.00	19 18 56	5001.68	22.76	219.71	188.54	72.69	20 42 17	4401.7	20.18	211.99
100.00	9 3 36	2005.25	-21.93	25.14	187.19	110.84	9 37 1	1405.2	-18.90	17.65
100.00	20 40 58	4737.07	23.94	199.83	188.12	71.54	21 59 55	4137.1	21.20	192.11
110.00	10 10 16	1796.59	-25.03	7.90	185.79	114.07	10 40 12	1196.6	-21.57	.46
110.00	21 50 48	4518.49	27.10	181.96	186.84	68.32	23 6 6	3918.5	23.91	174.25

DIFFERENTIAL CORRECTIONS
TDE -.5967 TRA-1.6753 TC3 -.0205 BAU .0880
RDE -.2073 RRA .3465 RC3 -.2204 FAU .02408
FDE .8439 FRA 1.4427 FC3 -.7014 BSP 6027
BDE .6317 BRA 1.7108 BC3 .2213 FSP -452

MID-COURSE EXECUTION ACCURACY
SGT 1869.6 SGR 487.7 SG3 165.6
RRT -.5478 RRF .5811 RTF -.8960
SGB 1932.1 R23 -.0791 R13 .8990
SG1 1889.5 SG2 403.7 THA 171.48

ORBIT DETERMINATION ACCURACY
ST 820.0 SR 243.8 SS 831.8
CRT .3945 CRS .5895 CST .9743
LSA 1167.0 MSA 248.1 SSA 16.3
EL1 826.0 EL2 222.4 ALF 7.22

LAUNCH DATE OCT 9 1965 FLIGHT TIME 112.00 ARRIVAL DATE JAN 29 1966

HELIOCENTRIC CONIC DISTANCE 276,482

RL 149.41 LAL .00 LOL 15.50 VL 25.888 GAL 5.62 AZL 86.98 HCA 114.72 SMA 119.97 ECC .26315 INC 3.0197 VI 29.822
RP 107.48 LAP 2.74 LOP 130.24 VP 36.924 GAP -14.06 AZP 91.26 TAL 163.79 TAP 278.51 RCA 88.40 APO 151.54 V2 35.259
RC 40.482 GL 14.93 GP -12.79 ZAL 54.88 ZAP 13.18 ETS 73.63 ZAE 157.18 ETE 275.70 ZAC 49.36 ETC 145.97 CLP -3.19

PLANETOCENTRIC CONIC

C3 27.747 VHL 5.268 DLA -.00 RAL 319.62 RAD 6568.1 VEL 12.212 PTH 2.19 VHP 9.212 DPA -33.50 RAP 313.52 ECC 1.4566

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 29 50	2294.17	-21.42	46.59	186.35	108.98	8 8 4	1694.2	-18.63	39.02
90.00	19 27 48	4938.46	21.42	215.56	186.35	71.03	20 50 7	4338.5	18.64	207.99
100.00	8 51 11	2031.80	-22.56	26.85	185.91	110.15	9 25 3	1431.8	-19.61	19.30
100.00	20 49 9	4676.07	22.57	195.82	185.91	69.86	22 7 5	4076.1	19.62	188.27
110.00	9 59 25	1818.19	-25.63	9.30	184.56	113.44	10 29 43	1218.2	-22.23	1.79
110.00	21 57 24	4462.44	25.63	178.26	184.57	66.57	23 11 47	3862.4	22.24	170.75

DIFFERENTIAL CORRECTIONS
TDE -.6082 TRA-1.6661 TC3 .0152 BAU .0931
RDE -.1680 RRA .3533 RC3 -.2507 FAU .02539
FDE .9175 FRA 1.5106 FC3 -.7921 BSP 6253
BDE .6309 BRA 1.7031 BC3 .2511 FSP -499

MID-COURSE EXECUTION ACCURACY
SGT 1929.3 SGR 500.8 SG3 181.1
RRT -.6001 RRF .6379 RTF -.9030
SGB 1993.2 R23 -.0902 R13 .9065
SG1 1953.5 SG2 395.6 THA 170.76

ORBIT DETERMINATION ACCURACY
ST 856.2 SR 216.2 SS 886.1
CRT .3143 CRS .5206 CST .9736
LSA 1227.6 MSA 240.5 SSA 16.2
EL1 859.1 EL2 204.6 ALF 4.81

LAUNCH DATE OCT 9 1965 FLIGHT TIME 114.00 ARRIVAL DATE JAN 31 1966

HELIOCENTRIC CONIC DISTANCE 283.276

RL 149.41 LAL .00 LOL 15.50 VL 26.037 GAL 5.30 AZL 86.77 HCA 117.96 SMA 120.81 ECC .25321 INC 3.2290 VI 29.822
RP 107.48 LAP 2.85 LOP 133.49 VP 37.029 GAP -13.25 AZP 91.52 TAL 163.89 TAP 281.85 RCA 90.22 APO 151.40 V2 35.259
RC 40.875 GL 16.63 GP -13.90 ZAL 55.31 ZAP 14.71 ETS 68.37 ZAE 155.41 ETE 281.89 ZAC 51.25 ETC 146.29 CLP -4.85

PLANETOCENTRIC CONIC

C3 26.032 VHL 5.102 DLA 1.58 RAL 319.00 RAD 6568.1 VEL 12.141 PTH 2.18 VHP 8.788 DPA -34.18 RAP 315.65 ECC 1.4284

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 15 37	2327.45	-22.14	48.76	185.09	108.12	7 54 24	1727.4	-19.46	41.11
90.00	19 37 4	4873.52	19.93	211.38	184.22	69.46	20 58 18	4273.5	16.95	203.97
100.00	8 37 41	2062.70	-23.27	28.88	184.68	109.31	9 12 4	1462.7	-20.42	21.24
100.00	20 57 41	4613.50	21.04	191.80	183.76	68.27	22 14 34	4013.5	17.91	184.41
110.00	9 47 37	1843.81	-26.31	10.98	183.39	112.65	10 18 21	1243.8	-23.01	3.37
110.00	22 4 14	4405.15	24.03	174.59	182.36	64.92	23 17 39	3805.1	20.45	167.27

DIFFERENTIAL CORRECTIONS
TDE -.6223 TRA-1.6560 TC3 .0537 BAU .1006
RDE -.1264 RRA .3633 RC3 -.2841 FAU .02678
FDE 1.0018 FRA 1.5834 FC3 -.8905 BSP 6473
BDE .6350 BRA 1.6954 BC3 .2891 FSP -550

MID-COURSE EXECUTION ACCURACY
SGT 1988.0 SGR 520.3 SG3 198.1
RRT -.6534 RRF .6955 RTF -.9095
SGB 2055.0 R23 -.1026 R13 .9136
SG1 2018.0 SG2 388.1 THA 169.92

ORBIT DETERMINATION ACCURACY
ST 834.3 SR 187.7 SS 945.6
CRT .1839 CRS .4028 CST .9733
LSA 1294.1 MSA 233.0 SSA 16.0
EL1 895.0 EL2 184.3 ALF 2.31

LAUNCH DATE OCT 9 1965 FLIGHT TIME 116.00 ARRIVAL DATE FEB 2 1966

HELIOCENTRIC CONIC DISTANCE 290.064

RL 149.41 LAL .00 LOL 15.50 VL 26.175 GAL 5.01 AZL 86.55 HCA 121.20 SMA 121.61 ECC .24395 INC 3.4512 VI 29.822
RP 107.48 LAP 2.95 LOP 136.75 VP 37.125 GAP -12.47 AZP 91.79 TAL 164.04 TAP 285.24 RCA 91.94 APO 151.27 V2 35.258
RC 41.437 GL 18.46 GP -15.16 ZAL 55.84 ZAP 16.48 ETS 64.16 ZAE 153.37 ETE 286.94 ZAC 53.18 ETC 146.51 CLP -6.56

PLANETOCENTRIC CONIC

C3 24.570 VHL 4.957 DLA 3.27 RAL 318.29 RAD 6568.0 VEL 12.081 PTH 2.16 VHP 8.386 DPA -34.99 RAP 317.81 ECC 1.4044

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 0 11	2365.77	-22.93	51.29	183.92	107.09	7 39 36	1765.8	-20.37	43.55
90.00	19 46 49	4806.68	18.28	207.17	182.18	67.99	21 6 56	4206.7	15.13	199.91
100.00	8 23 3	2098.47	-24.06	31.24	183.52	108.30	8 58 1	1498.5	-21.33	23.51
100.00	21 6 38	4549.21	19.37	187.76	181.70	66.78	22 22 27	3949.2	16.06	180.53
110.00	9 34 48	1873.90	-27.08	12.97	182.30	111.70	10 6 2	1273.9	-23.89	5.26
110.00	22 11 22	4346.55	22.29	170.93	180.25	63.39	23 23 49	3746.6	18.54	163.80

DIFFERENTIAL CORRECTIONS
TDE -.6397 TRA-1.6449 TC3 .0953 BAU .1099
RDE -.0816 RRA .3769 RC3 -.3209 FAU .02826
FDE 1.0987 FRA 1.6611 FC3 -.9959 BSP 6677
BDE .6449 BRA 1.6875 BC3 .3347 FSP -605

MID-COURSE EXECUTION ACCURACY
SGT 2045.1 SGR 548.2 SG3 216.6
RRT -.7058 RRF .7519 RTF -.9156
SGB 2117.3 R23 -.1162 R13 .9204
SG1 2082.7 SG2 381.3 THA 168.91

ORBIT DETERMINATION ACCURACY
ST 934.4 SR 161.6 SS 1010.9
CRT -.0334 CRS .1952 CST .9732
LSA 1367.5 MSA 225.7 SSA 15.7
EL1 934.4 EL2 161.6 ALF 179.66

LAUNCH DATE OCT 9 1965 FLIGHT TIME 118.00 ARRIVAL DATE FEB 4 1966

HELIOCENTRIC CONIC DISTANCE 296.845

RL	149.41	LAL	.00	LOL	15.50	VL	26.302	GAL	4.73	AZL	86.31	HCA	124.45	SMA	122.35	ECC	.23534	INC	3.6892	V1	29.822
RP	107.49	LAP	3.04	LOP	140.00	VP	37.213	GAP	-11.71	AZP	92.09	TAL	164.21	TAP	288.66	RCA	93.56	APO	151.15	V2	35.256
RC	42.162	GL	20.43	GP	-16.59	ZAL	56.50	ZAP	18.50	ETS	60.85	ZAE	151.12	ETE	290.91	ZAC	55.15	ETC	146.63	CLP	-8.31

PLANETOCENTRIC CONIC

C3	23.350	VHL	4.832	DLA	5.08	RAL	317.48	RAD	6567.9	VEL	12.030	PTH	2.15	VHP	8.007	DPA	-35.96	RAP	320.00	ECC	1.3843

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 43 24	2409.78	-23.78	54.24	182.84	105.85	7 23 33	1809.8	-21.37	46.39
90.00	19 57 12	4737.72	16.46	202.92	180.24	66.63	21 16 9	4137.7	13.16	195.80
100.00	8 7 8	2139.69	-24.91	34.01	182.47	107.08	8 42 47	1539.7	-22.33	26.16
100.00	21 16 8	4483.04	17.54	183.69	179.74	65.40	22 30 52	3883.0	14.08	176.62
110.00	9 20 52	1908.94	-27.94	15.33	181.32	110.54	9 52 41	1308.9	-24.89	7.49
110.00	22 18 54	4286.56	20.42	167.28	178.24	61.97	23 30 21	3686.6	16.51	160.34

DIFFERENTIAL CORRECTIONS

TDE	-.6578	TRA	-1.6298	TC3	.1432	BAU	.1213
RDE	-.0327	RRA	.3945	RC3	-.3613	FAU	.02990
FDE	1.2083	FRA	1.7417	FC3	-1.1085	BSP	6956
BDE	.6586	BRA	1.6768	BC3	.3887	FSP	-669

MID-COURSE EXECUTION ACCURACY

SGT	2095.6	SGR	586.5	SG3	236.6		
RRT	-.7560	RRF	.8046	RTF	-.9215		
SGB	2176.1	R23	-.1294	R13	.9271		
SG1	2143.5	SG2	375.3	THA	167.67		

ORBIT DETERMINATION ACCURACY

ST	973.2	SR	146.5	SS	1080.7		
CRT	-.3633	CRS	-.1416	CST	.9732		
LSA	1445.1	MSA	219.1	SSA	15.2		
EL1	974.7	EL2	136.3	ALF	176.81		

LAUNCH DATE OCT 9 1965 FLIGHT TIME 120.00 ARRIVAL DATE FEB 6 1966

HELIOCENTRIC CONIC DISTANCE 303.616

RL	149.41	LAL	.00	LOL	15.50	VL	26.419	GAL	4.47	AZL	86.05	HCA	127.69	SMA	123.05	ECC	.22737	INC	3.9465	V1	29.822
RP	107.49	LAP	3.12	LOP	143.25	VP	37.293	GAP	-10.98	AZP	92.42	TAL	164.42	TAP	292.11	RCA	95.07	APO	151.03	V2	35.254
RC	43.042	GL	22.54	GP	-18.23	ZAL	57.28	ZAP	20.77	ETS	58.28	ZAE	148.71	ETE	293.93	ZAC	57.18	ETC	146.65	CLP	-10.13

PLANETOCENTRIC CONIC

C3	22.367	VHL	4.729	DLA	7.01	RAL	316.59	RAD	6567.9	VEL	11.989	PTH	2.14	VHP	7.652	DPA	-37.12	RAP	322.23	ECC	1.3681

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 25 6	2460.20	-24.67	57.66	181.89	104.36	7 6 7	1860.2	-22.46	49.69
90.00	20 8 21	4666.37	14.49	198.62	178.43	65.40	21 26 7	4066.4	11.05	191.63
100.00	7 49 48	2187.03	-25.82	37.23	181.55	105.62	8 26 15	1587.0	-23.42	29.25
100.00	21 26 20	4414.77	15.56	179.59	177.91	64.15	22 39 55	3814.8	11.96	172.66
110.00	9 5 42	1949.49	-28.88	18.12	180.47	109.14	9 38 12	1349.5	-26.00	10.12
110.00	22 26 55	4225.07	18.41	163.64	176.36	60.67	23 37 21	3625.1	14.36	156.87

DIFFERENTIAL CORRECTIONS

TDE	-.6826	TRA	-1.6161	TC3	.1870	BAU	.1333
RDE	.0224	RRA	.4175	RC3	-.4046	FAU	.03152
FDE	1.3359	FRA	1.8271	FC3	-1.2200	BSP	7170
BDE	.6830	BRA	1.6691	BC3	.4457	FSP	-735

MID-COURSE EXECUTION ACCURACY

SGT	2146.2	SGR	637.9	SG3	258.1		
RRT	-.8000	RRF	.8512	RTF	-.9267		
SGB	2239.0	R23	-.1445	R13	.9335		
SG1	2207.9	SG2	372.0	THA	166.23		

ORBIT DETERMINATION ACCURACY

ST	1016.9	SR	155.7	SS	1158.0		
CRT	-.7134	CRS	-.5374	CST	.9738		
LSA	1534.2	MSA	212.9	SSA	14.7		
EL1	1023.0	EL2	108.4	ALF	173.70		

LAUNCH DATE OCT 9 1965 FLIGHT TIME 122.00 ARRIVAL DATE FEB 8 1966

HELIOCENTRIC CONIC DISTANCE 310.376

RL	149.41	LAL	.00	LOL	15.50	VL	26.526	GAL	4.23	AZL	85.77	HCA	130.93	SMA	123.70	ECC	.22000	INC	4.2272	V1	29.822
RP	107.50	LAP	3.19	LOP	146.50	VP	37.366	GAP	-10.27	AZP	92.77	TAL	164.66	TAP	295.58	RCA	96.49	APO	150.92	V2	35.250
RC	44.068	GL	24.79	GP	-20.11	ZAL	58.17	ZAP	23.29	ETS	56.32	ZAE	146.17	ETE	296.12	ZAC	59.26	ETC	146.58	CLP	-12.00

PLANETOCENTRIC CONIC

C3	21.621	VHL	4.650	DLA	9.06	RAL	315.60	RAD	6567.9	VEL	11.958	PTH	2.13	VHP	7.323	DPA	-38.50	RAP	324.53	ECC	1.3558

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 5 6	2517.92	-25.59	61.64	181.09	102.56	6 47 4	1917.9	-23.60	53.53
90.00	20 20 30	4592.24	12.34	194.23	176.78	64.31	21 37 2	3992.2	8.79	187.36
100.00	7 30 52	2241.30	-26.76	40.99	180.79	103.85	8 8 13	1641.3	-24.59	32.86
100.00	21 37 25	4344.10	13.42	175.44	176.24	63.04	22 49 49	3744.1	9.70	168.63
110.00	8 49 11	1996.20	-29.88	21.39	179.79	107.44	9 22 27	1396.2	-27.20	13.22
110.00	22 35 35	4161.96	16.26	160.01	174.62	59.51	23 44 57	3562.0	12.09	153.38

DIFFERENTIAL CORRECTIONS

TDE	-.7122	TRA	-1.6015	TC3	.2288	BAU	.1461
RDE	.0856	RRA	.4466	RC3	-.4507	FAU	.03314
FDE	1.4823	FRA	1.9153	FC3	-1.3270	BSP	7378
BDE	.7173	BRA	1.6626	BC3	.5055	FSP	-805

MID-COURSE EXECUTION ACCURACY

SGT	2192.9	SGR	705.2	SG3	280.9		
RRT	-.8376	RRF	.8904	RTF	-.9315		
SGB	2303.5	R23	-.1593	R13	.9397		
SG1	2273.3	SG2	371.7	THA	164.50		

ORBIT DETERMINATION ACCURACY

ST	1062.8	SR	198.0	SS	1241.7		
CRT	-.9161	CRS	-.8050	CST	.9747		
LSA	1633.2	MSA	207.7	SSA	14.0		
EL1	1078.3	EL2	78.3	ALF	170.26		

LAUNCH DATE OCT 9 1965 FLIGHT TIME 124.00 ARRIVAL DATE FEB 10 1966

HELIOCENTRIC CONIC DISTANCE 317.121

RL	149.41	LAL	.00	LOL	15.50	VL	26.624	GAL	4.00	AZL	85.46	HCA	134.16	SMA	124.31	ECC	.21322	INC	4.5369	V1	29.822
RP	107.51	LAP	3.25	LOP	149.75	VP	37.432	GAP	-9.58	AZP	93.16	TAL	164.91	TAP	299.08	RCA	97.80	APO	150.81	V2	35.247
RC	45.230	GL	27.20	GP	-22.27	ZAL	59.19	ZAP	26.09	ETS	54.86	ZAE	143.51	ETE	297.59	ZAC	61.43	ETC	146.40	CLP	-13.95

PLANETOCENTRIC CONIC

C3	21.120	VHL	4.596	DLA	11.25	RAL	314.53	RAD	6567.9	VEL	11.937	PTH	2.12	VHP	7.024	DPA	-40.14	RAP	326.93	ECC	1.3476

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 43 5	2584.08	-26.48	66.28	180.49	100.41	6 26 9	1984.1	-24.78	58.02
90.00	20 33 55	4514.80	10.02	189.73	175.32	63.38	21 49 10	3914.8	6.36	182.96
100.00	7 10 5	2303.48	-27.69	45.37	180.22	101.73	7 48 29	1703.5	-25.80	37.09
100.00	21 49 36	4270.63	11.11	171.20	174.75	62.07	23 0 46	3670.6	7.29	164.50
110.00	8 31 9	2049.82	-30.91	25.22	179.33	105.38	9 5 19	1449.8	-28.49	16.86
110.00	22 45 1	4097.05	13.99	156.35	173.07	58.49	23 53 18	3497.1	9.71	149.86

DIFFERENTIAL CORRECTIONS

TDE	-.7472	TRA	-1.5859	TC3	.2666	BAU	.1597
RDE	.1596	RRA	.4829	RC3	-.4989	FAU	.03471
FDE	1.6493	FRA	2.0034	FC3	-1.4227	BSP	7594
BDE	.7641	BRA	1.6578	BC3	.5657	FSP	-879

MID-COURSE EXECUTION ACCURACY

SGT	2234.2	SGR	791.6	SG3	304.5		
RRT	-.8680	RRF	.9218	RTF	-.9359		
SGB	2370.3	R23	-.1728	R13	.9458		
SG1	2340.4	SG2	375.3	THA	162.44		

ORBIT DETERMINATION ACCURACY

ST	1110.7	SR	271.5	SS	1331.4		
CRT	-.9845	CRS	-.9241	CST	.9758		
LSA	1743.1	MSA	203.5	SSA	13.1		
EL1	1142.5	EL2	46.3	ALF	166.45		

LAUNCH DATE OCT 9 1965 FLIGHT TIME 126.00 ARRIVAL DATE FEB 12 1966

HELIOCENTRIC CONIC DISTANCE 323.851

RL 149.41 LAL .00 LOL 15.50 VL 26.713 GAL 3.79 AZL 85.12 HCA 137.40 SMA 124.87 ECC .20699 INC 4.8824 V1 29.822
RP 107.53 LAP 3.30 LOP 153.00 VP 37.491 GAP -8.92 AZP 93.60 TAL 165.18 TAP 302.58 RCA 99.02 APO 150.71 V2 35.242
RC 46.516 GL 29.77 GP -24.76 ZAL 60.34 ZAP 29.19 ETS 53.79 ZAE 140.71 ETE 298.41 ZAC 63.70 ETC 146.13 CLP -15.96

PLANETOCENTRIC CONIC

C3 20.881 VHL 4.570 DLA 13.57 RAL 313.36 RAD 6567.8 VEL 11.927 PTH 2.12 VHP 6.759 DPA -42.09 RAP 329.48 ECC 1.3437

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 18 39	2660.18	-27.30	71.70	180.10	97.81	6 2 59	2060.2	-25.94	63.29
90.00	20 49 1	4433.23	7.49	185.07	174.10	62.61	22 2 54	3833.2	3.77	178.37
100.00	6 47 7	2374.88	-28.58	50.50	179.88	99.17	7 26 42	1774.9	-27.01	42.04
100.00	22 3 14	4193.76	8.63	166.85	173.49	61.27	23 13 8	3593.8	4.73	160.23
110.00	8 11 21	2111.29	-31.93	29.72	179.12	102.90	8 46 33	1511.3	-29.83	21.14
110.00	22 55 29	4030.12	11.57	152.67	171.72	57.61	24 2 39	3430.1	7.22	146.28

DIFFERENTIAL CORRECTIONS
TOE -.7881 TRA-1.5693 TC3 .2993 BAU .1743
RDE .2483 RRA .5278 RC3 -.5480 FAU .03613
FOE 1.8377 FRA 2.0880 FC3-1.4979 BSP 7824
BDE .8263 BRA 1.6557 BC3 .6244 FSP -954

MID-COURSE EXECUTION ACCURACY
SGT 2269.0 SGR 900.7 SG3 328.3
RRT -.8919 RRF .9457 RTF -.9399
SGB 2441.3 R23 -.1829 R13 .9520
SG1 2411.0 SG2 383.4 THA 159.98

ORBIT DETERMINATION ACCURACY
ST 1159.9 SR 372.7 SS 1426.1
CRT -.9990 CRS -.9703 CST .9772
LSA 1864.8 MSA 200.5 SSA 12.1
EL1 1218.2 EL2 15.8 ALF 162.20

LAUNCH DATE OCT 9 1965 FLIGHT TIME 128.00 ARRIVAL DATE FEB 14 1966

HELIOCENTRIC CONIC DISTANCE 330.564

RL 149.41 LAL .00 LOL 15.50 VL 26.795 GAL 3.59 AZL 84.73 HCA 140.63 SMA 125.38 ECC .20129 INC 5.2731 V1 29.822
RP 107.55 LAP 3.34 LOP 156.25 VP 37.544 GAP -8.27 AZP 94.08 TAL 165.47 TAP 306.10 RCA 100.14 APO 150.62 V2 35.236
RC 47.916 GL 32.49 GP -27.64 ZAL 61.62 ZAP 32.62 ETS 53.04 ZAE 137.74 ETE 298.69 ZAC 66.11 ETC 145.77 CLP -18.05

PLANETOCENTRIC CONIC

C3 20.935 VHL 4.575 DLA 16.03 RAL 312.09 RAD 6567.9 VEL 11.930 PTH 2.12 VHP 6.533 DPA -44.38 RAP 332.25 ECC 1.3445

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 51 11	2748.39	-27.96	78.07	179.95	94.68	5 36 59	2148.4	-27.02	69.53
90.00	21 6 22	4346.24	4.74	180.15	173.18	62.05	22 18 48	3746.2	.97	173.51
100.00	6 21 27	2457.29	-29.32	56.51	179.80	96.09	7 2 24	1857.3	-28.17	47.89
100.00	22 18 47	4112.57	5.94	162.32	172.52	60.65	23 27 20	3512.6	1.99	155.76
110.00	7 49 29	2181.83	-32.88	35.00	179.22	99.91	8 25 51	1581.8	-31.17	26.20
110.00	23 7 14	3960.80	9.02	148.93	170.64	56.89	24 13 15	3360.8	4.60	142.63

DIFFERENTIAL CORRECTIONS
TOE -.8346 TRA-1.5505 TC3 .3255 BAU .1901
RDE .3564 RRA .5824 RC3 -.5961 FAU .03729
FOE 2.0455 FRA 2.1621 FC3-1.5420 BSP 8109
BDE .9076 BRA 1.6562 BC3 .6792 FSP -1030

MID-COURSE EXECUTION ACCURACY
SGT 2293.9 SGR 1035.7 SG3 350.8
RRT -.9100 RRF .9632 RTF -.9435
SGB 2516.9 R23 -.1882 R13 .9584
SG1 2485.5 SG2 396.3 THA 157.05

ORBIT DETERMINATION ACCURACY
ST 1208.2 SR 501.3 SS 1522.7
CRT -.9982 CRS -.9882 CST .9787
LSA 1997.5 MSA 198.6 SSA 11.0
EL1 1307.8 EL2 27.5 ALF 157.49

LAUNCH DATE OCT 9 1965 FLIGHT TIME 130.00 ARRIVAL DATE FEB 16 1966

HELIOCENTRIC CONIC DISTANCE 337.258

RL 149.41 LAL .00 LOL 15.50 VL 26.869 GAL 3.41 AZL 84.28 HCA 143.87 SMA 125.86 ECC .19609 INC 5.7214 V1 29.822
RP 107.56 LAP 3.37 LOP 159.50 VP 37.592 GAP -7.65 AZP 94.63 TAL 165.76 TAP 309.62 RCA 101.18 APO 150.53 V2 35.230
RC 49.420 GL 35.38 GP -30.95 ZAL 63.03 ZAP 36.41 ETS 52.53 ZAE 134.53 ETE 298.50 ZAC 68.69 ETC 145.35 CLP -20.22

PLANETOCENTRIC CONIC

C3 21.331 VHL 4.619 DLA 18.64 RAL 310.72 RAD 6567.9 VEL 11.946 PTH 2.13 VHP 6.356 DPA -47.06 RAP 335.36 ECC 1.3511

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 19 41	2852.05	-28.30	85.63	180.05	90.91	5 7 13	2252.1	-27.88	76.99
90.00	21 26 55	4251.59	1.70	174.86	172.64	61.73	22 37 47	3651.6	-2.09	168.23
100.00	5 52 18	2553.37	-29.81	63.61	180.00	92.39	6 34 52	1953.4	-29.16	54.86
100.00	22 36 59	4025.50	3.02	157.51	171.91	60.25	23 44 5	3425.5	-.96	150.99
110.00	7 25 5	2263.10	-33.67	41.22	179.65	96.31	8 2 48	1663.1	-32.43	32.20
110.00	23 20 42	3888.54	6.31	145.08	169.87	56.33	24 25 30	3288.5	1.84	138.85

DIFFERENTIAL CORRECTIONS
TOE -.8920 TRA-1.5334 TC3 .3366 BAU .2060
RDE .4915 RRA .6489 RC3 -.6390 FAU .03786
FOE 2.2725 FRA 2.2206 FC3-1.5365 BSP 8373
BDE 1.0184 BRA 1.6650 BC3 .7223 FSP -1095

MID-COURSE EXECUTION ACCURACY
SGT 2313.3 SGR 1200.8 SG3 370.8
RRT -.9229 RRF .9755 RTF -.9467
SGB 2606.4 R23 -.1881 R13 .9647
SG1 2573.0 SG2 415.6 THA 153.66

ORBIT DETERMINATION ACCURACY
ST 1259.9 SR 661.1 SS 1620.7
CRT -.9946 CRS -.9953 CST .9804
LSA 2147.5 MSA 197.5 SSA 9.9
EL1 1421.5 EL2 61.0 ALF 152.39

LAUNCH DATE OCT 9 1965 FLIGHT TIME 132.00 ARRIVAL DATE FEB 18 1966

HELIOCENTRIC CONIC DISTANCE 343.931

RL 149.41 LAL .00 LOL 15.50 VL 26.937 GAL 3.24 AZL 83.76 HCA 147.09 SMA 126.29 ECC .19138 INC 6.2446 V1 29.822
RP 107.58 LAP 3.39 LOP 162.75 VP 37.634 GAP -7.04 AZP 95.25 TAL 166.05 TAP 313.14 RCA 102.12 APO 150.46 V2 35.224
RC 51.018 GL 38.43 GP -34.76 ZAL 64.56 ZAP 40.60 ETS 52.19 ZAE 131.02 ETE 297.92 ZAC 71.48 ETC 144.88 CLP -22.45

PLANETOCENTRIC CONIC

C3 22.152 VHL 4.707 DLA 21.39 RAL 309.23 RAD 6567.9 VEL 11.980 PTH 2.14 VHP 6.238 DPA -50.15 RAP 338.96 ECC 1.3646

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	3 42 21	2977.08	-28.10	94.76	180.35	86.33	4 31 58	2377.1	-28.31	86.10
90.00	21 52 24	4144.80	-1.74	168.90	172.63	61.73	23 1 29	3544.8	-5.51	162.25
100.00	5 18 22	2667.48	-29.83	72.09	180.45	87.93	6 2 50	2067.5	-29.80	63.28
100.00	22 59 5	3929.63	-.23	152.25	171.78	60.11	24 4 34	3329.6	-4.21	145.72
110.00	6 57 27	2357.49	-34.13	48.55	180.45	92.00	7 36 45	1757.5	-33.48	39.36
110.00	23 36 29	3812.39	3.42	141.08	169.51	55.97	24 40 1	3212.4	-1.07	134.87

DIFFERENTIAL CORRECTIONS
TOE -.9593 TRA-1.5159 TC3 .3339 BAU .2224
RDE .6621 RRA .7280 RC3 -.6725 FAU .03764
FOE 2.5078 FRA 2.2507 FC3-1.4712 BSP 8668
BDE 1.1656 BRA 1.6817 BC3 .7508 FSP -1144

MID-COURSE EXECUTION ACCURACY
SGT 2321.7 SGR 1398.7 SG3 385.4
RRT -.9320 RRF .9838 RTF -.9494
SGB 2710.5 R23 -.1813 R13 .9711
SG1 2674.5 SG2 440.1 THA 149.78

ORBIT DETERMINATION ACCURACY
ST 1310.4 SR 855.3 SS 1713.0
CRT -.9914 CRS -.9982 CST .9821
LSA 2311.8 MSA 197.1 SSA 8.7
EL1 1562.0 EL2 94.0 ALF 146.96

LAUNCH DATE OCT 9 1965 FLIGHT TIME 134.00 ARRIVAL DATE FEB 20 1966

HELIOCENTRIC CONIC DISTANCE 350.583

RL	149.41	LAL	.00	LOL	15.50	VL	26,997	GAL	3.09	AZL	83.13	HCA	150.32	SMA	126.68	ECC	.18712	INC	6.8674	VI	29.822
RP	107.61	LAP	3.39	LOP	165.99	VP	37,670	GAP	-6.45	AZP	95.97	TAL	166.33	TAP	316.65	RCA	102.98	APO	150.39	V2	35.216
RC	52.701	GL	41.65	GP	-39.12	ZAL	66.24	ZAP	45.19	ETS	51.94	ZAE	127.13	ETE	297.05	ZAC	74.52	ETC	144.43	CLP	-24.72

PLANETOCENTRIC CONIC

C3	23.530	VHL	4.851	DLA	24.28	RAL	307.62	RAD	6568.0	VEL	12.038	PTH	2.15	VHP	6.198	DPA	-53.66	RAP	343.35	ECC	1.3873

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	2 55 9	3136.45	-26.87	106.25	180.67	80.71	3 47 25	2536.5	-27.88	97.73
90.00	22 26 44	4014.80	-5.91	161.62	173.40	62.26	23 33 39	3414.8	-9.57	154.86
100.00	4 37 2	2807.96	-29.03	82.45	181.03	82.53	5 23 50	2208.0	-29.76	73.72
100.00	23 27 32	3818.53	-3.99	146.14	172.35	60.35	24 31 11	3218.5	-7.91	139.55
110.00	6 25 28	2468.69	-34.06	57.23	181.58	86.87	7 6 37	1868.7	-34.12	47.98
110.00	23 55 35	3730.56	.30	136.81	169.68	55.82	24 57 46	3130.6	-4.19	130.60

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE-1.0383	TRA-1.4991	TC3	.3192	BAU	.2395	SGT	2318.1	SGR	1631.2	SG3	391.6	ST	1357.8	SR	1087.6	SS	1791.9
RDE .8801	RRA .8206	RC3	-.6910	FAU	.03643	RRT	-.9383	RRF	.9894	RTF	-.9518	CRT	-.9893	CRS	-.9994	CST	.9838
FDE 2.7352	FRA 2.2391	FC3	-1.3403	BSP	9066	SGB	2834.5	R23	-.1678	R13	.9774	LSA	2489.7	MSA	197.4	SSA	7.5
BDE 1.3611	BRA 1.7090	BC3	.7612	FSP	-1175	SG1	2795.6	SG2	467.6	THA	145.46	EL1	1735.3	EL2	124.1	ALF	141.37

LAUNCH DATE OCT 9 1965 FLIGHT TIME 136.00 ARRIVAL DATE FEB 22 1966

HELIOCENTRIC CONIC DISTANCE 357.210

RL	149.41	LAL	.00	LOL	15.50	VL	27.052	GAL	2.96	AZL	82.37	HCA	153.54	SMA	127.04	ECC	.18329	INC	7.6265	VI	29.822
RP	107.63	LAP	3.39	LOP	169.24	VP	37,702	GAP	-5.88	AZP	96.84	TAL	166.60	TAP	320.14	RCA	103.76	APO	150.33	V2	35.208
RC	54.462	GL	45.03	GP	-44.06	ZAL	68.05	ZAP	50.18	ETS	51.74	ZAE	122.79	ETE	296.02	ZAC	77.87	ETC	144.06	CLP	-26.99

PLANETOCENTRIC CONIC

C3	25.688	VHL	5.068	DLA	27.31	RAL	305.85	RAD	6568.0	VEL	12.127	PTH	2.17	VHP	6.261	DPA	-57.52	RAP	348.95	ECC	1.4228

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	1 42 11	3380.83	-23.07	123.12	180.27	73.10	2 38 32	2780.8	-25.16	115.07
90.00	23 25 36	3813.55	-12.10	150.08	175.78	64.20	24 29 10	3213.6	-15.47	143.02
100.00	3 41 15	2996.98	-26.60	95.95	181.35	75.83	4 31 12	2397.0	-28.29	87.56
100.00	0 13 9	3672.63	-8.84	138.03	174.07	61.33	1 14 21	3072.6	-12.60	131.26
110.00	5 47 5	2603.24	-33.07	67.60	182.89	80.81	6 30 28	2003.2	-33.99	58.48
110.00	0 23 49	3639.13	-3.20	132.04	170.62	55.95	1 24 28	3039.1	-7.64	125.77

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE-1.1368	TRA-1.4878	TC3	.2855	BAU	.2547	SGT	2306.1	SGR	1897.9	SG3	386.3	ST	1405.0	SR	1361.6	SS	1850.1
RDE 1.1629	RRA .9275	RC3	-.6845	FAU	.03372	RRT	-.9422	RRF	.9929	RTF	-.9538	CRT	-.9883	CRS	-.9998	CST	.9854
FDE 2.9346	FRA 2.1750	FC3	-1.1363	BSP	9485	SGB	2986.7	R23	-.1487	R13	.9833	LSA	2685.4	MSA	198.0	SSA	6.3
BDE 1.6262	BRA 1.7533	BC3	.7417	FSP	-1167	SG1	2944.9	SG2	498.0	THA	140.88	EL1	1950.7	EL2	149.7	ALF	135.91

LAUNCH DATE OCT 9 1965 FLIGHT TIME 138.00 ARRIVAL DATE FEB 24 1966

HELIOCENTRIC CONIC DISTANCE 363.810

RL	149.41	LAL	.00	LOL	15.50	VL	27.101	GAL	2.84	AZL	81.42	HCA	156.75	SMA	127.37	ECC	.17987	INC	8.5782	VI	29.822
RP	107.66	LAP	3.38	LOP	172.48	VP	37,729	GAP	-5.33	AZP	97.89	TAL	166.84	TAP	323.60	RCA	104.46	APO	150.27	V2	35.200
RC	56.291	GL	48.56	GP	-49.59	ZAL	70.01	ZAP	55.52	ETS	51.57	ZAE	117.94	ETE	295.00	ZAC	81.56	ETC	143.92	CLP	-29.17

PLANETOCENTRIC CONIC

C3	29.008	VHL	5.386	DLA	30.45	RAL	303.90	RAD	6568.2	VEL	12.263	PTH	2.21	VHP	6.466	DPA	-61.59	RAP	356.51	ECC	1.4774

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
78.31	22 50 12	3929.86	-18.56	161.77	179.08	65.42	23 55 42	3329.9	-21.72	154.35
101.69	2 1 59	3324.97	-18.55	117.19	179.07	65.41	2 57 24	2725.0	-21.71	109.78
78.31	22 50 12	3929.86	-18.56	161.77	179.08	65.42	23 55 42	3329.9	-21.72	154.35
101.69	2 1 59	3324.97	-18.55	117.19	179.07	65.41	2 57 24	2725.0	-21.71	109.78
110.00	4 57 32	2775.71	-30.46	80.35	183.94	73.69	5 43 47	2175.7	-32.40	71.67
110.00	0 57 46	3527.11	-7.44	126.14	172.76	56.54	1 56 33	2927.1	-11.79	119.74

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE-1.2589	TRA-1.4812	TC3	.2426	BAU	.2679	SGT	2280.9	SGR	2191.3	SG3	365.9	ST	1447.2	SR	1674.1	SS	1874.1
RDE 1.5310	RRA 1.0452	RC3	-.6468	FAU	.02952	RRT	-.9445	RRF	.9952	RTF	-.9557	CRT	-.9879	CRS	-1.0000	CST	.9870
FDE 3.0721	FRA 2.0428	FC3	-.8810	BSP	10057	SGB	3163.0	R23	-.1252	R13	.9884	LSA	2893.1	MSA	198.8	SSA	5.2
BDE 1.9821	BRA 1.8128	BC3	.6908	FSP	-1122	SG1	3118.8	SG2	526.5	THA	136.22	EL1	2206.4	EL2	170.1	ALF	130.79

LAUNCH DATE OCT 9 1965 FLIGHT TIME 140.00 ARRIVAL DATE FEB 26 1966

HELIOCENTRIC CONIC DISTANCE 370.380

RL	149.41	LAL	.00	LOL	15.50	VL	27.144	GAL	2.74	AZL	80.18	HCA	159.96	SMA	127.65	ECC	.17685	INC	9.8151	VI	29.822
RP	107.69	LAP	3.35	LOP	175.72	VP	37,752	GAP	-4.79	AZP	99.23	TAL	167.06	TAP	327.02	RCA	105.08	APO	150.23	V2	35.191
RC	58.184	GL	52.22	GP	-55.68	ZAL	72.13	ZAP	61.12	ETS	51.49	ZAE	112.54	ETE	294.25	ZAC	85.62	ETC	144.26	CLP	-31.04

PLANETOCENTRIC CONIC

C3	34.198	VHL	5.848	DLA	33.67	RAL	301.70	RAD	6568.3	VEL	12.473	PTH	2.26	VHP	6.875	DPA	-65.50	RAP	7.20	ECC	1.5628

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
70.97	21 51 45	4126.59	-19.07	176.99	180.47	61.71	23 0 31	3526.6	-22.70	169.77
109.03	2 42 56	3211.00	-19.05	108.80	180.46	61.70	3 36 27	2611.0	-22.68	101.58
70.97	21 51 45	4126.59	-19.07	176.99	180.47	61.71	23 0 31	3526.6	-22.70	169.77
109.03	2 42 56	3211.00	-19.05	108.80	180.46	61.70	3 36 27	2611.0	-22.68	101.58
110.00	3 33 35	3056.12	-23.58	99.21	182.93	64.50	4 24 31	2456.1	-26.81	91.54
110.00	2 4 12	3329.46	-14.66	115.39	177.84	58.77	2 59 42	2729.5	-18.69	108.59

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE-1.4251	TRA-1.4913	TC3	.1895	BAU	.2743	SGT	2254.2	SGR	2498.5	SG3	329.5	ST	1492.3	SR	2018.0	SS	1856.0
RDE 2.0159	RRA 1.1703	RC3	-.5692	FAU	.02372	RRT	-.9454	RRF	.9964	RTF	-.9578	CRT	-.9881	CRS	-1.0000	CST	.9887
FDE 3.1192	FRA 1.8441	FC3	-.6004	BSP	10701	SGB	3365.0	R23	-.0992	R13	.9926	LSA	3115.1	MSA	200.0	SSA	4.2
BDE 2.4687	BRA 1.8957	BC3	.5999	FSP	-1027	SG1	3319.3	SG2	553.2	THA	131.89	EL1	2503.0	EL2	185.2	ALF	126.39

LAUNCH DATE OCT 9 1965 FLIGHT TIME 142.00 ARRIVAL DATE FEB 28 1966

HELIOCENTRIC CONIC DISTANCE 376.916

RL 149.41 LAL .00 LOL 15.50 VL 27.183 GAL 2.65 AZL 78.50 HCA 163.15 SMA 127.91 ECC .17420 INC11.4981 V1 29.822
RP 107.72 LAP 3.31 LOP 178.96 VP 37.770 GAP -4.27 AZP 101.02 TAL 167.25 TAP 330.39 RCA 105.63 APO 150.19 V2 35.181
RC 60.133 GL 55.95 GP -62.27 ZAL 74.41 ZAP 66.80 ETS 51.88 ZAE 106.59 ETE 294.28 ZAC 90.09 ETC 145.58 CLP -32.15

PLANETOCENTRIC CONIC

C3 42.675 VHL 6.533 DLA 36.90 RAL 299.20 RAD 6568.6 VEL 12.808 PTH 2.33 VHP 7.593 DPA -68.57 RAP 22.44 ECC 1.7023

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
65.28	21 9 23	4279.98	-18.71	188.91	182.41	57.59	22 20 43	3680.0	-22.85	182.00
114.72	3 5 21	3169.45	-18.69	105.29	182.40	57.59	3 58 11	2569.4	-22.83	98.38
65.28	21 9 23	4279.98	-18.71	188.91	182.41	57.59	22 20 43	3680.0	-22.85	182.00
114.72	3 5 21	3169.45	-18.69	105.29	182.40	57.59	3 58 11	2569.4	-22.83	98.38
65.28	21 9 23	4279.98	-18.71	188.91	182.41	57.59	22 20 43	3680.0	-22.85	182.00
114.72	3 5 21	3169.45	-18.69	105.29	182.40	57.59	3 58 11	2569.4	-22.83	98.38

DIFFERENTIAL CORRECTIONS
TDE-1.6825 TRA-1.5397 TC3 .1288 BAU .2645
RDE 2.6619 RRA 1.2931 RC3 -.4453 FAU .01643
FDE 3.0575 FRA 1.5925 FC3 -.3334 BSP 11358
BDE 3.1491 BRA 2.0106 BC3 .4636 FSP -882

MID-COURSE EXECUTION ACCURACY
SGT 2248.9 SGR 2793.0 SG3 279.1
RRT -.9454 RRF .9967 RTF -.9610
SGB 3585.9 R23 -.0717 R13 .9958
SG1 3538.9 SG2 578.6 THA 128.50

ORBIT DETERMINATION ACCURACY
ST 1560.2 SR 2373.2 SS 1792.5
CRT -.9887 CRS -.9999 CST .9905
LSA 3352.4 MSA 202.0 SSA 3.3
EL1 2833.4 EL2 195.9 ALF 123.20

LAUNCH DATE OCT 9 1965 FLIGHT TIME 144.00 ARRIVAL DATE MAR 2 1966

HELIOCENTRIC CONIC DISTANCE 383.404

RL 149.41 LAL .00 LOL 15.50 VL 27.217 GAL 2.58 AZL 76.06 HCA 166.32 SMA 128.14 ECC .17190 INC13.9356 V1 29.822
RP 107.75 LAP 3.27 LOP 182.20 VP 37.785 GAP -3.78 AZP 103.55 TAL 167.38 TAP 333.70 RCA 106.11 APO 150.16 V2 35.171
RC 62.133 GL .59.62 GP -69.23 ZAL 76.87 ZAP 72.35 ETS 54.05 ZAE 100.05 ETE 296.53 ZAC 95.02 ETC 149.36 CLP -31.22

PLANETOCENTRIC CONIC

C3 57.606 VHL 7.590 DLA 39.98 RAL 296.31 RAD 6569.0 VEL 13.378 PTH 2.45 VHP 8.817 DPA -69.74 RAP 42.42 ECC 1.9480

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
60.52	20 34 27	4422.23	-17.08	199.49	184.83	53.29	21 48 9	3822.2	-21.74	193.01
119.48	3 17 12	3176.70	-17.06	104.71	184.82	53.28	4 10 8	2576.7	-21.72	98.23
60.52	20 34 27	4422.23	-17.08	199.49	184.83	53.29	21 48 9	3822.2	-21.74	193.01
119.48	3 17 12	3176.70	-17.06	104.71	184.82	53.28	4 10 8	2576.7	-21.72	98.23
60.52	20 34 27	4422.23	-17.08	199.49	184.83	53.29	21 48 9	3822.2	-21.74	193.01
119.48	3 17 12	3176.70	-17.06	104.71	184.82	53.28	4 10 8	2576.7	-21.72	98.23

DIFFERENTIAL CORRECTIONS
TDE-2.1588 TRA-1.6553 TC3 .0869 BAU .2361
RDE 3.4917 RRA 1.3572 RC3 -.2940 FAU .00917
FDE 2.8743 FRA 1.2961 FC3 -.1378 BSP 12747
BDE 4.1052 BRA 2.1406 BC3 .3065 FSP -743

MID-COURSE EXECUTION ACCURACY
SGT 2309.1 SGR 2989.1 SG3 218.3
RRT -.9467 RRF .9958 RTF -.9678
SGB 3777.1 R23 -.0432 R13 .9979
SG1 3729.9 SG2 595.8 THA 127.29

ORBIT DETERMINATION ACCURACY
ST 1701.5 SR 2666.3 SS 1678.5
CRT -.9901 CRS -.9997 CST .9932
LSA 3575.0 MSA 203.0 SSA 2.6
EL1 3156.5 EL2 201.5 ALF 122.44

LAUNCH DATE OCT 9 1965 FLIGHT TIME 146.00 ARRIVAL DATE MAR 4 1966

HELIOCENTRIC CONIC DISTANCE 389.835

RL 149.41 LAL .00 LOL 15.50 VL 27.246 GAL 2.54 AZL 72.21 HCA 169.45 SMA 128.34 ECC .16997 INC17.7929 V1 29.822
RP 107.78 LAP 3.21 LOP 185.44 VP 37.796 GAP -3.30 AZP 107.51 TAL 167.43 TAP 336.88 RCA 106.52 APO 150.15 V2 35.160
RC 64.180 GL 62.90 GP -76.35 ZAL 79.49 ZAP 77.51 ETS 64.21 ZAE 92.79 ETE 307.22 ZAC 100.65 ETC 161.91 CLP -23.64

PLANETOCENTRIC CONIC

C3 87.299 VHL 9.343 DLA 42.54 RAL 292.95 RAD 6569.7 VEL 14.445 PTH 2.62 VHP 10.966 DPA -67.93 RAP 63.46 ECC 2.4367

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
56.82	20 4 58	4564.57	-13.72	208.99	187.53	49.33	21 21 3	3964.6	-18.85	203.00
123.18	3 19 53	3229.94	-13.71	106.51	187.52	49.33	4 13 43	2629.9	-18.83	100.52
56.82	20 4 58	4564.57	-13.72	208.99	187.53	49.33	21 21 3	3964.6	-18.85	203.00
123.18	3 19 53	3229.94	-13.71	106.51	187.52	49.33	4 13 43	2629.9	-18.83	100.52
56.82	20 4 58	4564.57	-13.72	208.99	187.53	49.33	21 21 3	3964.6	-18.85	203.00
123.18	3 19 53	3229.94	-13.71	106.51	187.52	49.33	4 13 43	2629.9	-18.83	100.52

DIFFERENTIAL CORRECTIONS
TDE-3.7319 TRA-2.1364 TC3 -.0053 BAU .1146
RDE 4.2790 RRA 1.1985 RC3 -.0980 FAU-.00065
FDE 2.6838 FRA 1.0663 FC3 .0065 BSP 12004
BDE 5.6778 BRA 2.4497 BC3 .0982 FSP -500

MID-COURSE EXECUTION ACCURACY
SGT 2898.0 SGR 2813.2 SG3 161.6
RRT -.9539 RRF .9889 RTF -.9862
SGB 4038.9 R23 -.0132 R13 .9991
SG1 3992.1 SG2 613.0 THA 135.89

ORBIT DETERMINATION ACCURACY
ST 2349.8 SR 2641.0 SS 1579.5
CRT -.9933 CRS -.9989 CST .9976
LSA 3866.6 MSA 202.7 SSA 2.1
EL1 3529.3 EL2 202.6 ALF 131.64

LAUNCH DATE OCT 9 1965 FLIGHT TIME 148.00 ARRIVAL DATE MAR 6 1966

HELIOCENTRIC CONIC DISTANCE 396.139

RL 149.41 LAL .00 LOL 15.50 VL 27.271 GAL 2.52 AZL 65.22 HCA 172.49 SMA 128.51 ECC .16841 INC24.7804 V1 29.822
RP 107.81 LAP 3.14 LOP 188.67 VP 37.804 GAP -2.87 AZP 114.59 TAL 167.37 TAP 339.85 RCA 106.86 APO 150.15 V2 35.149
RC 66.268 GL 64.86 GP -81.83 ZAL 82.26 ZAP 82.03 ETS 122.74 ZAE 84.20 ETE 6.57 ZAC 107.67 ETC 223.73 CLP 12.73

PLANETOCENTRIC CONIC

C3 159.107 VHL 12.614 DLA 43.66 RAL 289.16 RAD 6570.7 VEL 16.746 PTH 2.90 VHP 15.092 DPA -62.47 RAP 80.64 ECC 3.6185

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
55.26	19 43 29	4701.89	-8.50	216.44	190.17	47.01	21 1 51	4101.9	-13.90	210.84
124.74	3 11 6	3333.11	-8.48	110.92	190.15	47.00	4 6 39	2733.1	-13.88	105.32
55.26	19 43 29	4701.89	-8.50	216.44	190.17	47.01	21 1 51	4101.9	-13.90	210.84
124.74	3 11 6	3333.11	-8.48	110.92	190.15	47.00	4 6 39	2733.1	-13.88	105.32
55.26	19 43 29	4701.89	-8.50	216.44	190.17	47.01	21 1 51	4101.9	-13.90	210.84
124.74	3 11 6	3333.11	-8.48	110.92	190.15	47.00	4 6 39	2733.1	-13.88	105.32

DIFFERENTIAL CORRECTIONS
TDE-7.1724 TRA-2.3602 TC3 -.1009 BAU .2495
RDE-4.0719 RRA-1.7061 RC3 -.0599 FAU-.00978
FDE 2.5310 FRA .8807 FC3 .0532 BSP 12813
BDE 8.2477 BRA 2.9123 BC3 .1173 FSP -358

MID-COURSE EXECUTION ACCURACY
SGT 3588.2 SGR 2142.8 SG3 110.8
RRT .9952 RRF -.9965 RTF -.9992
SGB 4179.3 R23 .0044 R13 -.9994
SG1 4175.5 SG2 179.8 THA 30.79

ORBIT DETERMINATION ACCURACY
ST 3288.2 SR 1877.3 SS 1514.6
CRT .9993 CRS .9996 CST 1.0000
LSA 4077.6 MSA 59.4 SSA 1.6
EL1 3785.9 EL2 59.4 ALF 29.72

LAUNCH DATE OCT 9 1965 FLIGHT TIME 150.00 ARRIVAL DATE MAR 8 1966

HELIOCENTRIC CONIC DISTANCE 402.134

RL	149.41	LAL	.00	LOL	15.50	VL	27.292	GAL	2.58	AZL	49.53	HCA	175.28	SMA	128.65	ECC	.16739	INC	40.4700
RP	107.85	LAP	3.06	LOP	191.90	VP	37.809	GAP	-2.52	AZP	130.37	TAL	167.00	TAP	342.28	RCA	107.12	APO	150.18
RC	68.394	GL	62.43	GP	-75.71	ZAL	85.05	ZAP	85.63	ETS	175.54	ZAE	72.00	ETE	59.75	ZAC	118.51	ETC	281.33
V1	29.822	V2	35.138	CLP	72.00														

PLANETOCENTRIC CONIC

C3	398.500	VHL	19.962	DLA	40.40	RAL	285.59	RAD	6572.1	VEL	22.799	PTH	3.27	VHP	24.483	DPA	-51.52	RAP	92.70
ECC	7.5583																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
59.88	19 48 49	4772.32	-2.54	217.26	192.62	49.66	21 8 22	4172.3	-7.69	211.53
120.12	2 37 19	3510.63	-2.52	121.10	192.61	49.66	3 35 49	2910.6	-7.67	115.37
59.88	19 48 49	4772.32	-2.54	217.26	192.62	49.66	21 8 22	4172.3	-7.69	211.53
120.12	2 37 19	3510.63	-2.52	121.10	192.61	49.66	3 35 49	2910.6	-7.67	115.37
59.88	19 48 49	4772.32	-2.54	217.26	192.62	49.66	21 8 22	4172.3	-7.69	211.53
120.12	2 37 19	3510.63	-2.52	121.10	192.61	49.66	3 35 49	2910.6	-7.67	115.37

DIFFERENTIAL CORRECTIONS

TDE	-4.3029	TRA	-.0029	TC3	-.0943	BAU	1.3408												
RD	-12.3706	RRA	-4.1635	RC3	-.2333	FAU	-.02760												
FOE	2.7641	FRA	.9241	FC3	.0600	BSP	12789												
BDE	13.0976	BRA	4.1635	BC3	.2517	FSP	-250												

MID-COURSE EXECUTION ACCURACY

SGT	1291.2	SGR	3992.1	SG3	77.7														
RRT	.9191	RRF	-.9994	RTF	-.9222														
SGB	4195.7	R23	-.0261	R13	-.9991														
SG1	4167.3	SG2	487.3	THA	73.21														

ORBIT DETERMINATION ACCURACY

ST	1235.1	SR	3581.8	SS	1692.8														
CRT	.9914	CRS	1.0000	CST	.9915														
LSA	4146.8	MSA	154.6	SSA	1.9														
EL1	3785.6	EL2	153.3	ALF	71.10														

LAUNCH DATE OCT 9 1965 FLIGHT TIME 152.00 ARRIVAL DATE MAR 10 1966

HELIOCENTRIC CONIC DISTANCE 406.890

RL	149.41	LAL	.00	LOL	15.50	VL	27.310	GAL	2.86	AZL	7.06	HCA	177.00	SMA	128.77	ECC	.16773	INC	82.9401
RP	107.89	LAP	2.98	LOP	195.13	VP	37.811	GAP	-2.48	AZP	172.93	TAL	165.54	TAP	342.54	RCA	107.17	APO	150.37
RC	70.553	GL	45.58	GP	-51.72	ZAL	87.19	ZAP	87.77	ETS	181.97	ZAE	49.01	ETE	61.38	ZAC	140.35	ETC	299.69
V1	29.822	V2	35.126	CLP	86.40														

PLANETOCENTRIC CONIC

C3	1436.595	VHL	37.902	DLA	23.13	RAL	284.73	RAD	6573.2	VEL	39.470	PTH	3.56	VHP	47.568	DPA	-27.31	RAP	100.90
ECC	24.6427																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	1 41 29	3717.96	-14.86	144.42	202.80	65.62	2 43 27	3118.0	-18.03	137.17
90.00	20 37 48	4720.03	15.98	201.85	189.27	66.31	21 56 28	4120.0	12.65	194.76
100.00	3 20 34	3398.49	-17.30	122.07	203.96	65.23	4 17 13	2798.5	-20.49	114.73
100.00	21 41 24	4514.73	18.43	185.63	188.14	66.04	22 56 38	3914.7	15.04	178.48
110.00	5 4 47	3072.43	-23.09	100.23	206.88	64.07	5 56 0	2472.4	-26.38	92.62
110.00	22 13 40	4413.55	24.27	175.12	185.29	65.16	23 27 14	3813.6	20.72	167.78

DIFFERENTIAL CORRECTIONS

TDE	-6.3882	TRA	.9319	TC3	-.1055	BAU	5.2291												
RD	-16.3047	RRA	-7.3775	RC3	-.2510	FAU	-.09468												
FOE	3.5755	FRA	1.6853	FC3	.0571	BSP	11141												
BDE	17.5115	BRA	7.4361	BC3	.2723	FSP	-210												

MID-COURSE EXECUTION ACCURACY

SGT	1263.4	SGR	3341.4	SG3	64.4														
RRT	.8804	RRF	-.9998	RTF	-.8764														
SGB	3572.3	R23	-.0632	R13	-.9979														
SG1	3526.9	SG2	567.6	THA	71.08														

ORBIT DETERMINATION ACCURACY

ST	967.1	SR	2492.1	SS	2248.1														
CRT	.9812	CRS	1.0000	CST	.9801														
LSA	3488.1	MSA	182.2	SSA	1.6														
EL1	2667.5	EL2	174.2	ALF	69.06														

LAUNCH DATE OCT 9 1965 FLIGHT TIME 154.00 ARRIVAL DATE MAR 12 1966

HELIOCENTRIC CONIC DISTANCE 417.710

RL	149.41	LAL	.00	LOL	15.50	VL	27.324	GAL	2.05	AZL	135.28	HCA	184.06	SMA	128.87	ECC	.16329	INC	45.2773
RP	107.92	LAP	2.88	LOP	198.35	VP	37.810	GAP	-.91	AZP	44.79	TAL	169.42	TAP	353.48	RCA	107.83	APO	149.91
RC	72.741	GL	-61.11	GP	71.28	ZAL	86.19	ZAP	88.39	ETS	194.92	ZAE	79.87	ETE	304.73	ZAC	93.63	ETC	82.81
V1	29.822	V2	35.114	CLP	84.96														

PLANETOCENTRIC CONIC

C3	491.021	VHL	22.159	DLA	-78.43	RAL	343.08	RAD	6572.3	VEL	24.745	PTH	3.33	VHP	29.193	DPA	83.86	RAP	259.81
ECC	9.0810																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
13.17	9 28 36	2412.92	2.57	82.52	252.54	168.42	10 8 49	1812.9	10.40	81.31
166.83	20 36 11	619.61	2.57	282.67	252.56	168.42	20 46 31	19.6	10.41	281.46
13.17	9 28 36	2412.92	2.57	82.52	252.54	168.42	10 8 49	1812.9	10.40	81.31
166.83	20 36 11	619.61	2.57	282.67	252.56	168.42	20 46 31	19.6	10.41	281.46
13.17	9 28 36	2412.92	2.57	82.52	252.54	168.42	10 8 49	1812.9	10.40	81.31
166.83	20 36 11	619.61	2.57	282.67	252.56	168.42	20 46 31	19.6	10.41	281.46

DIFFERENTIAL CORRECTIONS

TDE	2.9872	TRA	-1.5571	TC3	-.1491	BAU	1.8527												
RDE	-.4737	RRA	2.7443	RC3	.2396	FAU	-.03127												
FOE	-.3163	FRA	.6580	FC3	.0551	BSP	13069												
BDE	3.0245	BRA	3.1552	BC3	.2822	FSP	-237												

MID-COURSE EXECUTION ACCURACY

SGT	2250.2	SGR	3696.1	SG3	76.6														
RRT	-.9498	RRF	.9982	RTF	-.9662														
SGB	4327.2	R23	-.0259	R13	.9995														
SG1	4284.3	SG2	607.5	THA	120.72														

ORBIT DETERMINATION ACCURACY

ST	979.6	SR	1069.0	SS	674.6														
CRT	-.7014	CRS	-.9809	CST	.8268														
LSA	1496.0	MSA	565.3	SSA	1.0														
EL1	1338.4	EL2	557.7	ALF	131.45														

LAUNCH DATE OCT 9 1965 FLIGHT TIME 156.00 ARRIVAL DATE MAR 14 1966

HELIOCENTRIC CONIC DISTANCE 423.459

RL	149.41	LAL	.00	LOL	15.50	VL	27.335	GAL	2.17	AZL	114.59	HCA	186.68	SMA	128.94	ECC	.16310	INC	24.5944
RP	107.96	LAP	2.77	LOP	201.57	VP	37.806	GAP	-.64	AZP	65.55	TAL	168.75	TAP	355.43	RCA	107.91	APO	149.97
RC	74.954	GL	-65.38	GP	85.25	ZAL	82.96	ZAP	87.80	ETS	245.52	ZAE	93.34	ETE	352.86	ZAC	80.53	ETC	129.45
V1	29.822	V2	35.101	CLP	62.47														

PLANETOCENTRIC CONIC

C3	156.393	VHL	12.506	DLA	-76.83	RAL	10.02	RAD	6570.7	VEL	16.665	PTH	2.89	VHP	16.869	DPA	70.14	RAP	281.21
ECC	3.5738																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
15.01	11 19 42	2264.24	12.21	79.85	277.10	166.51	11 57 26	1664.2	19.98	78.29
164.99	22 20 0	5764.71	12.22	259.71	277.12	166.51	23 56 5	5164.7	19.99	258.15
15.01	11 19 42	2264.24	12.21	79.85	277.10	166.51	11 57 26	1664.2	19.98	78.29
164.99	22 20 0	5764.71	12.22	259.71	277.12	166.51	23 56 5	5164.7	19.99	258.15
15.01	11 19 42	2264.24	12.21	79.85	277.10	166.51	11 57 26	1664.2	19.98	78.29
164.99	22 20 0	5764.71	12.22	259.71	277.12	166.51	23 56 5	5164.7	19.99	258.15

DIFFERENTIAL CORRECTIONS

TDE	-2.9276	TRA	-2.1278	TC3	-.1207	BAU	.2719												
RDE	1.8182	RRA	.3565	RC3	.0483	FAU	-.00415												
FDE	.9669	FRA	.5862	FC3	.0230	BSP	14251												
BDE	3.4463	BRA	2.1574	BC3	.1300	FSP	-344												

MID-COURSE EXECUTION ACCURACY

SGT	4492.7	SGR	1105.4	SG3	108.9														
RRT	-.8494	RRF	.8760	RTF	-.9982														
SGB	4626.7	R23	-.0269	R13	.9993														
SG1	4591.4	SG2	570.8	THA	168.01														

ORBIT DETERMINATION ACCURACY

ST	1856.3	SR	860.3	SS	826.0														
CRT	-.8724	CRS	-.9127	CST	.9960														
LSA	2171.9	MSA	388.6	SSA	1.4														
EL1	2008.7	EL2	388.6	ALF	157.08														

LAUNCH DATE OCT 9 1965 FLIGHT TIME 158.00 ARRIVAL DATE MAR 16 1966

DISTANCE 429.600

HELIOCENTRIC CONIC
RL 149.41 LAL .00 LOL 15.50 VL 27.344 GAL 2.23 AZL 106.05 HCA 189.67 SMA 129.00 ECC .16285 INC16.0468 V1 29.822
RP 108.00 LAP 2.66 LOP 204.79 VP 37.800 GAP -.27 AZP 74.17 TAL 166.41 TAP 358.08 RCA 107.99 APO 150.01 V2 35.089
RC 77.191 GL -62.77 GP 85.27 ZAL 79.41 ZAP 88.01 ETS 324.03 ZAE 101.15 ETE 69.68 ZAC 73.04 ETC 203.53 CLP -65.12

PLANETOCENTRIC CONIC
C3 72.148 VHL 8.494 DLA -73.11 RAL 5.60 RAD 6569.4 VEL 13.910 PTH 2.54 VHP 11.682 OPA 61.88 RAP 284.76 ECC 2.1874

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
19.27	11 10 43	2095.07	22.43	74.09	268.39	161.69	11 45 38	1495.1	30.00	71.61
160.73	21 53 45	5612.02	22.44	258.22	268.41	161.68	23 27 17	5012.0	30.01	255.75
19.27	11 10 43	2095.07	22.43	74.09	268.39	161.69	11 45 38	1495.1	30.00	71.61
160.73	21 53 45	5612.02	22.44	258.22	268.41	161.68	23 27 17	5012.0	30.01	255.75
19.27	11 10 43	2095.07	22.43	74.09	268.39	161.69	11 45 38	1495.1	30.00	71.61
160.73	21 53 45	5612.02	22.44	258.22	268.41	161.68	23 27 17	5012.0	30.01	255.75

DIFFERENTIAL CORRECTIONS
TDE-1.3431 TRA -.5467 TC3 -.0101 BAU .1922
RDE-1.4975 RRA-1.8581 RC3 .1990 FAU .00895
FDE .8208 FRA .7574 FC3 -.1074 BSP 14767
BDE 2.0116 BRA 1.9368 BC3 .1993 FSP -516

MID-COURSE EXECUTION ACCURACY
SGT 1559.9 SGR 4444.6 SG3 160.1
RRT .9214 RRF -.9970 RTF -.9451
SGB 4710.4 R23 .0277 R13 -.9989
SG1 4675.0 SG2 576.3 THA 71.79

ORBIT DETERMINATION ACCURACY
ST 982.8 SR 1642.0 SS 772.0
CRT .8726 CRS .9892 CST .9347
LSA 2019.8 MSA 422.5 SSA 2.0
EL1 1866.5 EL2 422.3 ALF 60.78

LAUNCH DATE OCT 9 1965 FLIGHT TIME 160.00 ARRIVAL DATE MAR 18 1966

DISTANCE 435.845

HELIOCENTRIC CONIC
RL 149.41 LAL .00 LOL 15.50 VL 27.349 GAL 2.28 AZL 101.56 HCA 192.76 SMA 129.04 ECC .16273 INC11.5623 V1 29.822
RP 108.04 LAP 2.54 LOP 208.01 VP 37.792 GAP .13 AZP 78.72 TAL 168.13 TAP .90 RCA 108.04 APO 150.04 V2 35.076
RC 79.446 GL -57.92 GP 79.29 ZAL 75.80 ZAP 89.05 ETS 344.89 ZAE 106.84 ETE 89.36 ZAC 67.41 ETC 219.99 CLP -84.91

PLANETOCENTRIC CONIC
C3 41.784 VHL 6.464 DLA -68.73 RAL 356.97 RAD 6568.6 VEL 12.773 PTH 2.32 VHP 9.004 OPA 55.60 RAP 286.21 ECC 1.6877

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
24.33	10 47 1	1947.99	30.17	66.14	253.88	155.20	11 19 29	1348.0	37.36	62.34
155.67	21 8 33	5490.80	30.18	255.54	253.90	155.19	22 40 4	4890.8	37.37	251.75
24.33	10 47 1	1947.99	30.17	66.14	253.88	155.20	11 19 29	1348.0	37.36	62.34
155.67	21 8 33	5490.80	30.18	255.54	253.90	155.19	22 40 4	4890.8	37.37	251.75
24.33	10 47 1	1947.99	30.17	66.14	253.88	155.20	11 19 29	1348.0	37.36	62.34
155.67	21 8 33	5490.80	30.18	255.54	253.90	155.19	22 40 4	4890.8	37.37	251.75

DIFFERENTIAL CORRECTIONS
TDE -.6120 TRA .0970 TC3 -.1432 BAU .3516
RDE -.7748 RRA-1.8789 RC3 .6128 FAU .01997
FDE .5604 FRA 1.0347 FC3 -.4137 BSP 14908
BDE .9874 BRA 1.8814 BC3 .6293 FSP -737

MID-COURSE EXECUTION ACCURACY
SGT 620.2 SGR 4709.9 SG3 227.4
RRT -.2951 RRF -.9984 RTF .2627
SGB 4750.6 R23 .0384 R13 -.9982
SG1 4713.6 SG2 592.2 THA 92.26

ORBIT DETERMINATION ACCURACY
ST 547.1 SR 1539.4 SS 705.5
CRT .3259 CRS .9931 CST .4342
LSA 1703.3 MSA 515.6 SSA 2.7
EL1 1551.0 EL2 513.4 ALF 82.57

LAUNCH DATE OCT 9 1965 FLIGHT TIME 162.00 ARRIVAL DATE MAR 20 1966

DISTANCE 442.121

HELIOCENTRIC CONIC
RL 149.41 LAL .00 LOL 15.50 VL 27.352 GAL 2.33 AZL 98.82 HCA 195.91 SMA 129.06 ECC .16279 INC 8.8181 V1 29.822
RP 108.08 LAP 2.41 LOP 211.22 VP 37.782 GAP .53 AZP 81.51 TAL 167.85 TAP 3.76 RCA 108.05 APO 150.07 V2 35.063
RC 81.719 GL -52.28 GP 74.01 ZAL 72.29 ZAP 90.87 ETS 354.99 ZAE 111.40 ETE 98.83 ZAC 62.54 ETC 225.87 CLP -93.16

PLANETOCENTRIC CONIC
C3 28.051 VHL 5.296 DLA -63.75 RAL 349.57 RAD 6568.1 VEL 12.224 PTH 2.20 VHP 7.417 OPA 50.21 RAP 286.74 ECC 1.4616

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
30.15	10 30 41	1828.12	34.75	56.41	239.55	147.44	11 1 9	1228.1	41.37	51.10
149.85	20 25 55	5409.96	34.77	252.25	239.57	147.43	21 56 5	4810.0	41.38	246.93
30.15	10 30 41	1828.12	34.75	56.41	239.55	147.44	11 1 9	1228.1	41.37	51.10
149.85	20 25 55	5409.96	34.77	252.25	239.57	147.43	21 56 5	4810.0	41.38	246.93
30.15	10 30 41	1828.12	34.75	56.41	239.55	147.44	11 1 9	1228.1	41.37	51.10
149.85	20 25 55	5409.96	34.77	252.25	239.57	147.43	21 56 5	4810.0	41.38	246.93

DIFFERENTIAL CORRECTIONS
TDE -.4345 TRA .3934 TC3 -.4150 BAU .4282
RDE -.3164 RRA-1.8290 RC3 1.0638 FAU .03073
FDE .3657 FRA 1.3792 FC3 -.9485 BSP 14899
BDE .5375 BRA 1.8708 BC3 1.1419 FSP -991

MID-COURSE EXECUTION ACCURACY
SGT 1157.8 SGR 4626.6 SG3 306.1
RRT -.8663 RRF -.9984 RTF .8541
SGB 4769.3 R23 .0480 R13 -.9975
SG1 4735.7 SG2 564.9 THA 102.41

ORBIT DETERMINATION ACCURACY
ST 551.8 SR 1385.6 SS 696.7
CRT -.2971 CRS .9925 CST -.1779
LSA 1557.3 MSA 533.4 SSA 3.5
EL1 1396.9 EL2 522.6 ALF 97.85

LAUNCH DATE OCT 9 1965 FLIGHT TIME 164.00 ARRIVAL DATE MAR 22 1966

DISTANCE 448.399

HELIOCENTRIC CONIC
RL 149.41 LAL .00 LOL 15.50 VL 27.352 GAL 2.39 AZL 96.96 HCA 199.07 SMA 129.06 ECC .16302 INC 6.9640 V1 29.822
RP 108.12 LAP 2.27 LOP 214.43 VP 37.771 GAP .93 AZP 83.41 TAL 167.54 TAP 6.61 RCA 108.02 APO 150.10 V2 35.050
RC 84.008 GL -46.44 GP 69.20 ZAL 68.98 ZAP 93.35 ETS 2.08 ZAE 115.20 ETE 105.93 ZAC 58.04 ETC 228.97 CLP -99.48

PLANETOCENTRIC CONIC
C3 20.909 VHL 4.573 DLA -58.46 RAL 344.02 RAD 6567.8 VEL 11.929 PTH 2.12 VHP 6.396 OPA 45.30 RAP 286.77 ECC 1.3441

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
36.46	10 24 6	1728.37	36.58	45.83	226.91	139.35	10 52 54	1128.4	42.45	39.19
143.54	19 48 11	5365.68	36.59	249.24	226.93	139.35	21 17 37	4765.7	42.46	242.60
36.46	10 24 6	1728.37	36.58	45.83	226.91	139.35	10 52 54	1128.4	42.45	39.19
143.54	19 48 11	5365.68	36.59	249.24	226.93	139.35	21 17 37	4765.7	42.46	242.60
36.46	10 24 6	1728.37	36.58	45.83	226.91	139.35	10 52 54	1128.4	42.45	39.19
143.54	19 48 11	5365.68	36.59	249.24	226.93	139.35	21 17 37	4765.7	42.46	242.60

DIFFERENTIAL CORRECTIONS
TDE -.3602 TRA .6157 TC3 -.8005 BAU .4726
RDE -.1234 RRA-1.7683 RC3 1.4890 FAU .04141
FDE .2701 FRA 1.7607 FC3-1.7144 BSP 14904
BDE .3807 BRA 1.8725 BC3 1.6906 FSP -1268

MID-COURSE EXECUTION ACCURACY
SGT 1707.3 SGR 4452.1 SG3 389.9
RRT -.9439 RRF -.9982 RTF .9366
SGB 4768.2 R23 .0578 R13 -.9967
SG1 4738.7 SG2 529.8 THA 110.16

ORBIT DETERMINATION ACCURACY
ST 632.4 SR 1280.8 SS 724.3
CRT -.6091 CRS .9902 CST -.4924
LSA 1519.9 MSA 504.7 SSA 4.3
EL1 1346.4 EL2 477.1 ALF 109.25

LAUNCH DATE OCT 9 1965 FLIGHT TIME 166.00 ARRIVAL DATE MAR 24 1966

HELIOCENTRIC CONIC DISTANCE 454.670

RL	149.41	LAL	.00	LOL	15.50	VL	27.351	GAL	2.47	AZL	95.62	HCA	202.24	SMA	129.05	ECC	.16344	INC	5.6227	VI	29.822
RP	108.16	LAP	2.13	LOP	217.64	VP	37.757	GAP	1.32	AZP	84.79	TAL	167.20	TAP	9.44	RCA	107.96	APO	150.14	V2	35.036
RC	86.309	GL	-40.70	GP	64.67	ZAL	65.93	ZAP	96.38	ETS	7.72	ZAE	118.40	ETE	112.22	ZAC	53.76	ETC	230.82	CLP	-105.07

PLANETOCENTRIC CONIC

C3	16.855	VHL	4.105	DLA	-53.13	RAL	339.96	RAD	6567.7	VEL	11.757	PTH	2.08	VHP	5.707	DPA	40.69	RAP	286.51	ECC	1.2774

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
42.97	10 25 59	1640.25	36.35	35.26	216.44	131.84	10 53 19	1040.3	41.43	27.72
137.03	19 13 56	5352.44	36.36	247.41	216.45	131.83	20 43 8	4752.4	41.44	239.88
42.97	10 25 59	1640.25	36.35	35.26	216.44	131.84	10 53 19	1040.3	41.43	27.72
137.03	19 13 56	5352.44	36.36	247.41	216.45	131.83	20 43 8	4752.4	41.44	239.88
42.97	10 25 59	1640.25	36.35	35.26	216.44	131.84	10 53 19	1040.3	41.43	27.72
137.03	19 13 56	5352.44	36.36	247.41	216.45	131.83	20 43 8	4752.4	41.44	239.88

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-.2998	TRA	.8126	TC3	-1.2700	BAU	.5021	SGT	2198.6	SGR	4227.8	SG3	473.3	ST	705.3	SR	1189.7	SS	765.2
RDE	-.0672	RRA	-1.6986	RC3	1.8308	FAU	.05152	RRT	-.9676	RRF	-.9979	RTF	.9619	CRT	-.7557	CRS	.9862	CST	-.6372
FDE	.2696	FRA	2.1559	FC3	-2.6464	BSP	14909	SGB	4765.3	R23	.0675	R13	-.9957	LSA	1510.0	MSA	467.2	SSA	5.1
BDE	.3072	BRA	1.8829	BC3	2.2282	FSP	-1548	SG1	4739.5	SG2	495.4	THA	117.03	EL1	1318.8	EL2	416.7	ALF	117.05

LAUNCH DATE OCT 9 1965 FLIGHT TIME 168.00 ARRIVAL DATE MAR 26 1966

HELIOCENTRIC CONIC DISTANCE 460.928

RL	149.41	LAL	.00	LOL	15.50	VL	27.347	GAL	2.55	AZL	94.60	HCA	205.42	SMA	129.02	ECC	.16404	INC	4.6026	VI	29.822
RP	108.20	LAP	1.97	LOP	220.85	VP	37.742	GAP	1.72	AZP	85.84	TAL	166.82	TAP	12.24	RCA	107.86	APO	150.19	V2	35.023
RC	88.623	GL	-35.25	GP	60.35	ZAL	63.18	ZAP	99.83	ETS	12.38	ZAE	121.03	ETE	118.14	ZAC	49.65	ETC	231.85	CLP	-110.20

PLANETOCENTRIC CONIC

C3	14.430	VHL	3.799	DLA	-47.95	RAL	337.01	RAD	6567.6	VEL	11.654	PTH	2.05	VHP	5.230	DPA	36.29	RAP	286.10	ECC	1.2375

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
49.54	10 35 6	1556.19	34.78	25.07	208.19	125.36	11 1 2	956.2	39.13	17.08
130.46	18 41 14	5366.34	34.79	247.30	208.20	125.35	20 10 40	4766.3	39.14	239.30
49.54	10 35 6	1556.19	34.78	25.07	208.19	125.36	11 1 2	956.2	39.13	17.08
130.46	18 41 14	5366.34	34.79	247.30	208.20	125.35	20 10 40	4766.3	39.14	239.30
49.54	10 35 6	1556.19	34.78	25.07	208.19	125.36	11 1 2	956.2	39.13	17.08
130.46	18 41 14	5366.34	34.79	247.30	208.20	125.35	20 10 40	4766.3	39.14	239.30

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-.2307	TRA	.9973	TC3	-1.7812	BAU	.5247	SGT	2644.9	SGR	3970.0	SG3	550.8	ST	759.3	SR	1100.8	SS	811.8
RDE	-.0718	RRA	-1.6201	RC3	2.0559	FAU	.06057	RRT	-.9780	RRF	-.9975	RTF	.9729	CRT	-.8393	CRS	.9807	CST	-.7169
FDE	.3467	FRA	2.5413	FC3	-3.6340	BSP	14917	SGB	4770.3	R23	.0763	R13	-.9946	LSA	1503.6	MSA	431.9	SSA	6.1
BDE	.2416	BRA	1.9025	BC3	2.7201	FSP	-1812	SG1	4747.9	SG2	461.8	THA	123.44	EL1	1290.1	EL2	352.3	ALF	122.82

LAUNCH DATE OCT 9 1965 FLIGHT TIME 170.00 ARRIVAL DATE MAR 28 1966

HELIOCENTRIC CONIC DISTANCE 467.169

RL	149.41	LAL	.00	LOL	15.50	VL	27.341	GAL	2.64	AZL	93.80	HCA	208.60	SMA	128.98	ECC	.16483	INC	3.7967	VI	29.822
RP	108.24	LAP	1.82	LOP	224.05	VP	37.725	GAP	2.11	AZP	86.67	TAL	166.39	TAP	14.99	RCA	107.72	APO	150.24	V2	35.010
RC	90.946	GL	-30.18	GP	56.22	ZAL	60.74	ZAP	103.57	ETS	16.25	ZAE	123.14	ETE	123.80	ZAC	45.74	ETC	232.22	CLP	-114.96

PLANETOCENTRIC CONIC

C3	12.946	VHL	3.598	DLA	-43.04	RAL	334.85	RAD	6567.5	VEL	11.590	PTH	2.03	VHP	4.900	DPA	32.09	RAP	285.66	ECC	1.2131

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
56.12	10 51 2	1469.07	32.44	15.19	201.94	120.00	11 15 31	869.1	36.16	7.02
123.88	18 8 6	5406.04	32.46	249.18	201.95	119.99	19 38 12	4806.0	36.17	241.01
56.12	10 51 2	1469.07	32.44	15.19	201.94	120.00	11 15 31	869.1	36.16	7.02
123.88	18 8 6	5406.04	32.46	249.18	201.95	119.99	19 38 12	4806.0	36.17	241.01
56.12	10 51 2	1469.07	32.44	15.19	201.94	120.00	11 15 31	869.1	36.16	7.02
123.88	18 8 6	5406.04	32.46	249.18	201.95	119.99	19 38 12	4806.0	36.17	241.01

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-.1491	TRA	1.1737	TC3	-2.2923	BAU	.5449	SGT	3052.5	SGR	3690.7	SG3	617.8	ST	804.6	SR	1016.4	SS	865.0
RDE	-.0978	RRA	-1.5349	RC3	2.1581	FAU	.06813	RRT	-.9833	RRF	-.9969	RTF	.9786	CRT	-.8988	CRS	.9740	CST	-.7762
FDE	.4789	FRA	2.8955	FC3	-4.5558	BSP	14979	SGB	4789.4	R23	.0828	R13	-.9935	LSA	1506.6	MSA	398.7	SSA	7.2
BDE	.1783	BRA	1.9322	BC3	3.1483	FSP	-2045	SG1	4770.1	SG2	429.7	THA	129.50	EL1	1265.0	EL2	283.4	ALF	127.65

LAUNCH DATE OCT 9 1965 FLIGHT TIME 172.00 ARRIVAL DATE MAR 30 1966

HELIOCENTRIC CONIC DISTANCE 473.391

RL	149.41	LAL	.00	LOL	15.50	VL	27.333	GAL	2.75	AZL	93.14	HCA	211.79	SMA	128.93	ECC	.16579	INC	3.1405	VI	29.822
RP	108.29	LAP	1.65	LOP	227.24	VP	37.708	GAP	2.49	AZP	87.33	TAL	165.92	TAP	17.71	RCA	107.56	APO	150.31	V2	34.996
RC	93.279	GL	-25.53	GP	52.27	ZAL	58.58	ZAP	107.47	ETS	19.46	ZAE	124.75	ETE	129.22	ZAC	42.04	ETC	231.93	CLP	-119.38

PLANETOCENTRIC CONIC

C3	12.048	VHL	3.471	DLA	-38.49	RAL	333.28	RAD	6567.5	VEL	11.551	PTH	2.02	VHP	4.677	DPA	28.09	RAP	285.26	ECC	1.1983

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
62.77	11 14 26	1370.93	29.74	5.12	197.33	115.64	11 37 17	770.9	32.92	356.94
117.23	17 32 11	5473.54	29.75	253.29	197.33	115.63	19 3 24	4873.5	32.93	245.11
62.77	11 14 26	1370.93	29.74	5.12	197.33	115.64	11 37 17	770.9	32.92	356.94
117.23	17 32 11	5473.54	29.75	253.29	197.33	115.63	19 3 24	4873.5	32.93	245.11
62.77	11 14 26	1370.93	29.74	5.12	197.33	115.64	11 37 17	770.9	32.92	356.94
117.23	17 32 11	5473.54	29.75	253.29	197.33	115.63	19 3 24	4873.5	32.93	245.11

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-.0553	TRA	1.3437	TC3	-2.7666	BAU	.5644	SGT	3424.4	SGR	3400.9	SG3	670.9	ST	856.9	SR	939.4	SS	925.9
RDE	-.1270	RRA	-1.4456	RC3	2.1504	FAU	.07387	RRT	-.9863	RRF	-.9962	RTF	.9820	CRT	-.9453	CRS	.9668	CST	-.8307
FDE	.6452	FRA	3.2018	FC3	-5.3083	BSP	15094	SGB	4826.2	R23	.0862	R13	-.9924	LSA	1529.7	MSA	365.9	SSA	8.5
BDE	.1386	BRA	1.9737	BC3	3.5040	FSP	-2236	SG1	4809.7	SG2	399.5	THA	135.20	EL1	1254.1	EL2	209.5	ALF	132.22

LAUNCH DATE OCT 9 1965 FLIGHT TIME 174.00 ARRIVAL DATE APR 1 1966

HELIOCENTRIC CONIC DISTANCE 479.593

RL 149.41 LAL .00 LOL 15.50 VL 27.324 GAL 2.87 AZL 92.59 HCA 214.97 SMA 128.87 ECC .16693 INC 2.5929 V1 29.822
RP 108.33 LAP 1.49 LOP 230.44 VP 37.689 GAP 2.88 AZP 87.87 TAL 165.41 TAP 20.38 RCA 107.36 APO 150.38 V2 34.983
RC 95.621 GL -21.31 GP 48.51 ZAL 56.67 ZAP 111.44 ETS 22.10 ZAE 125.90 ETE 134.32 ZAC 38.60 ETC 231.00 CLP-123.49

PLANETOCENTRIC CONIC

C3 11.538 VHL 3.397 DLA -34.30 RAL 332.16 RAD 6567.4 VEL 11.529 PTH 2.01 VHP 4.534 DPA 24.30 RAP 284.96 ECC 1.1899

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
69.79	11 47 54	1249.24	26.92	353.94	194.02	112.10	12 8 44	649.2	29.67	345.82
110.21	16 49 45	5577.12	26.93	260.19	194.03	112.08	18 22 43	4977.1	29.68	252.07
69.79	11 47 54	1249.24	26.92	353.94	194.02	112.10	12 8 44	649.2	29.67	345.82
110.21	16 49 45	5577.12	26.93	260.19	194.03	112.08	18 22 43	4977.1	29.68	252.07
69.79	11 47 54	1249.24	26.92	353.94	194.02	112.10	12 8 44	649.2	29.67	345.82
110.21	16 49 45	5577.12	26.93	260.19	194.03	112.08	18 22 43	4977.1	29.68	252.07

DIFFERENTIAL CORRECTIONS
TDE .0497 TRA 1.5103 TC3-3.1751 BAU .5831
RDE -.1529 RRA-1.3576 RC3 2.0514 FAU .07744
FDE .8311 FRA 3.4555 FC3-5.8107 BSP 15216
BDE .1608 BRA 2.0308 BC3 3.7801 FSP -2366

MID-COURSE EXECUTION ACCURACY
SGT 3764.1 SGR 3113.2 SG3 708.9
RRT -.9878 RRF -.9951 RTF .9839
SGB 4884.7 R23 .0862 R13 -.9914
SG1 4870.3 SG2 375.1 THA 140.47

ORBIT DETERMINATION ACCURACY
ST 931.1 SR 871.6 SS 995.7
CRT -.9778 CRS .9600 CST -.8803
LSA 1583.0 MSA 335.0 SSA 9.8
EL1 1268.4 EL2 134.0 ALF 136.93

LAUNCH DATE OCT 9 1965 FLIGHT TIME 176.00 ARRIVAL DATE APR 3 1966

HELIOCENTRIC CONIC DISTANCE 485.774

RL 149.41 LAL .00 LOL 15.50 VL 27.314 GAL 3.01 AZL 92.13 HCA 218.16 SMA 128.80 ECC .16825 INC 2.1263 V1 29.822
RP 108.37 LAP 1.31 LOP 233.63 VP 37.669 GAP 3.26 AZP 88.33 TAL 164.85 TAP 23.00 RCA 107.13 APO 150.47 V2 34.970
RC 97.969 GL -17.52 GP 44.98 ZAL 54.97 ZAP 115.38 ETS 24.26 ZAE 126.63 ETE 139.07 ZAC 35.49 ETC 229.40 CLP-127.30

PLANETOCENTRIC CONIC

C3 11.302 VHL 3.362 DLA -30.47 RAL 331.38 RAD 6567.4 VEL 11.519 PTH 2.01 VHP 4.454 DPA 20.75 RAP 284.78 ECC 1.1860

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
78.24	12 41 8	1069.40	24.14	339.06	191.74	109.18	12 58 58	469.4	26.54	331.03
101.76	15 50 18	5748.38	24.15	272.09	191.74	109.17	17 26 7	5148.4	26.55	264.06
78.24	12 41 8	1069.40	24.14	339.06	191.74	109.18	12 58 58	469.4	26.54	331.03
101.76	15 50 18	5748.38	24.15	272.09	191.74	109.17	17 26 7	5148.4	26.55	264.06
110.00	14 45 48	663.34	15.44	305.19	187.43	120.88	14 56 51	63.3	19.42	298.33
110.00	18 44 49	5202.43	33.51	233.12	194.24	97.21	20 11 32	4602.4	34.14	223.94

DIFFERENTIAL CORRECTIONS
TDE .1610 TRA 1.6714 TC3-3.5133 BAU .6039
RDE -.1679 RRA-1.2694 RC3 1.9051 FAU .07941
FDE 1.0092 FRA 3.6427 FC3-6.0831 BSP 15467
BDE .2326 BRA 2.0988 BC3 3.9966 FSP -2458

MID-COURSE EXECUTION ACCURACY
SGT 4071.7 SGR 2832.6 SG3 731.0
RRT -.9885 RRF -.9937 RTF .9853
SGB 4960.1 R23 .0816 R13 -.9905
SG1 4947.5 SG2 352.9 THA 145.28

ORBIT DETERMINATION ACCURACY
ST 1031.2 SR 806.5 SS 1064.0
CRT -.9955 CRS .9527 CST -.9202
LSA 1658.9 MSA 306.5 SSA 11.1
EL1 1307.8 EL2 60.6 ALF 142.00

LAUNCH DATE OCT 9 1965 FLIGHT TIME 178.00 ARRIVAL DATE APR 5 1966

HELIOCENTRIC CONIC DISTANCE 491.934

RL 149.41 LAL .00 LOL 15.50 VL 27.301 GAL 3.15 AZL 91.72 HCA 221.34 SMA 128.71 ECC .16975 INC 1.7216 V1 29.822
RP 108.41 LAP 1.14 LOP 236.82 VP 37.648 GAP 3.64 AZP 88.71 TAL 164.25 TAP 25.59 RCA 106.86 APO 150.56 V2 34.957
RC 100.323 GL -14.12 GP 41.68 ZAL 53.45 ZAP 119.22 ETS 26.03 ZAE 127.00 ETE 143.41 ZAC 32.73 ETC 227.11 CLP-130.83

PLANETOCENTRIC CONIC

C3 11.270 VHL 3.357 DLA -27.00 RAL 330.87 RAD 6567.4 VEL 11.518 PTH 2.01 VHP 4.424 DPA 17.44 RAP 284.76 ECC 1.1855

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 57 59	1011.69	16.58	331.70	188.36	113.29	13 14 51	411.7	19.59	324.32
90.00	15 29 24	5804.89	26.59	276.94	191.59	100.12	17 6 9	5204.9	27.72	268.45
100.00	13 45 2	859.74	14.19	319.39	187.21	116.59	13 59 21	259.7	17.64	312.30
100.00	17 25 3	5432.08	29.20	249.94	192.02	96.72	18 55 35	4832.1	29.82	241.19
110.00	13 58 11	818.45	9.85	313.73	184.67	122.90	14 11 49	218.4	14.11	307.23
110.00	19 28 23	5046.13	34.18	220.98	192.37	90.06	20 52 29	4446.1	33.81	211.76

DIFFERENTIAL CORRECTIONS
TDE .2784 TRA 1.8303 TC3-3.7717 BAU .6249
RDE -.1749 RRA-1.1862 RC3 1.7258 FAU .07960
FDE 1.1755 FRA 3.7733 FC3-6.1151 BSP 15764
BDE .3288 BRA 2.1811 BC3 4.1478 FSP -2499

MID-COURSE EXECUTION ACCURACY
SGT 4351.0 SGR 2568.1 SG3 738.8
RRT -.9883 RRF -.9918 RTF .9862
SGB 5052.3 R23 .0737 R13 -.9898
SG1 5041.0 SG2 338.1 THA 149.59

ORBIT DETERMINATION ACCURACY
ST 1156.7 SR 745.0 SS 1130.2
CRT -.9998 CRS .9449 CST -.9484
LSA 1757.8 MSA 283.1 SSA 12.3
EL1 1375.7 EL2 13.9 ALF 147.22

LAUNCH DATE OCT 9 1965 FLIGHT TIME 180.00 ARRIVAL DATE APR 7 1966

HELIOCENTRIC CONIC DISTANCE 498.071

RL 149.41 LAL .00 LOL 15.50 VL 27.288 GAL 3.31 AZL 91.37 HCA 224.52 SMA 128.62 ECC .17144 INC 1.3654 V1 29.822
RP 108.44 LAP .96 LOP 240.01 VP 37.627 GAP 4.02 AZP 89.03 TAL 163.61 TAP 28.13 RCA 106.57 APO 150.67 V2 34.945
RC 102.682 GL -11.09 GP 38.63 ZAL 52.08 ZAP 122.93 ETS 27.48 ZAE 127.09 ETE 147.31 ZAC 30.38 ETC 224.16 CLP-134.09

PLANETOCENTRIC CONIC

C3 11.397 VHL 3.376 DLA -23.85 RAL 330.58 RAD 6567.4 VEL 11.523 PTH 2.01 VHP 4.435 DPA 14.39 RAP 284.90 ECC 1.1876

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 53 30	1229.49	10.30	344.61	186.01	116.52	12 13 59	629.5	13.78	337.66
90.00	16 31 34	5591.76	28.21	261.58	190.92	92.60	18 4 46	4991.8	28.27	252.91
100.00	12 55 26	1029.56	8.81	329.13	185.22	118.68	13 12 36	429.6	12.57	322.36
100.00	18 12 19	5266.93	29.89	237.73	190.97	90.33	19 40 6	4666.9	29.62	228.93
110.00	13 25 8	936.40	5.43	320.00	183.16	123.80	13 40 45	336.4	9.83	313.68
110.00	19 59 6	4932.85	33.84	212.16	190.77	84.85	21 21 19	4332.9	32.76	203.09

DIFFERENTIAL CORRECTIONS
TDE .3996 TRA 1.9869 TC3-3.9557 BAU .6467
RDE -.1740 RRA-1.1082 RC3 1.5374 FAU .07843
FDE 1.3204 FRA 3.8490 FC3-5.9575 BSP 16126
BDE .4358 BRA 2.2750 BC3 4.2440 FSP -2503

MID-COURSE EXECUTION ACCURACY
SGT 4603.0 SGR 2322.4 SG3 734.2
RRT -.9873 RRF -.9893 RTF .9867
SGB 5155.6 R23 .0633 R13 -.9893
SG1 5145.1 SG2 329.5 THA 153.40

ORBIT DETERMINATION ACCURACY
ST 1299.9 SR 684.6 SS 1188.9
CRT -.9945 CRS .9355 CST -.9668
LSA 1871.2 MSA 265.5 SSA 13.2
EL1 1467.8 EL2 63.4 ALF 152.30

LAUNCH DATE OCT 9 1965 FLIGHT TIME 182.00 ARRIVAL DATE APR 9 1966

HELIOCENTRIC CONIC DISTANCE 504.186

RL 149.41 LAL .00 LOL 15.50 VL 27.273 GAL 3.49 AZL 91.05 HCA 227.70 SMA 128.52 ECC .17331 INC 1.0474 V1 29.822
RP 108.48 LAP .77 LOP 243.19 VP 37.605 GAP 4.39 AZP 89.29 TAL 162.93 TAP 30.63 RCA 106.25 APO 150.79 V2 34.932
RC 105.043 GL -8.38 GP 35.83 ZAL 50.81 ZAP 126.45 ETS 28.67 ZAE 126.95 ETE 150.78 ZAC 28.45 ETC 220.58 CLP-137.13

PLANETOCENTRIC CONIC

C3 11.658 VHL 3.414 DLA -21.00 RAL 330.47 RAD 6567.4 VEL 11.535 PTH 2.01 VHP 4.479 DPA 11.61 RAP 285.22 ECC 1.1919

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 14 20	1372.42	5.85	352.75	184.94	117.75	11 37 12	772.4	9.52	346.00
90.00	17 9 50	5458.26	28.23	251.82	190.19	87.71	18 40 48	4858.3	27.62	243.21
100.00	12 21 34	1155.44	4.63	336.14	184.27	119.56	12 40 49	555.4	8.53	329.52
100.00	18 45 17	5150.46	29.62	229.08	190.10	85.79	20 11 8	4550.5	28.72	220.39
110.00	12 59 58	1035.08	1.67	325.17	182.43	124.15	13 17 13	435.1	6.14	318.94
110.00	20 23 22	4843.59	33.08	205.30	189.63	80.86	21 44 6	4243.6	31.47	196.45

DIFFERENTIAL CORRECTIONS

TDE .5243 TRA 2.1440 TC3-4.0674 BAU .6679
RDE -.1669 RRA-1.0373 RC3 1.3498 FAU .07602
FDE 1.4420 FRA 3.8824 FC3-5.6451 BSP 16501
BDE .5503 BRA 2.3817 BC3 4.2855 FSP -2468

MID-COURSE EXECUTION ACCURACY

SGT 4831.2 SGR 2098.7 SG3 719.8
RRT -.9855 RRF -.9861 RTF .9870
SGB 5267.4 R23 .0524 R13 -.9888
SG1 5257.2 SG2 327.4 THA 156.73

ORBIT DETERMINATION ACCURACY

ST 1455.3 SR 626.2 SS 1239.0
CRT -.9826 CRS .9237 CST -.9785
LSA 1995.2 MSA 252.9 SSA 13.8
EL1 1580.6 EL2 106.9 ALF 156.97

LAUNCH DATE OCT 9 1965 FLIGHT TIME 184.00 ARRIVAL DATE APR 11 1966

HELIOCENTRIC CONIC DISTANCE 510.276

RL 149.41 LAL .00 LOL 15.50 VL 27.258 GAL 3.68 AZL 90.76 HCA 230.88 SMA 128.41 ECC .17537 INC .7603 V1 29.822
RP 108.52 LAP .59 LOP 246.38 VP 37.582 GAP 4.77 AZP 89.52 TAL 162.21 TAP 33.09 RCA 105.89 APO 150.93 V2 34.920
RC 107.406 GL -5.97 GP 33.28 ZAL 49.63 ZAP 129.78 ETS 29.68 ZAE 126.65 ETE 153.82 ZAC 26.96 ETC 216.48 CLP-139.94

PLANETOCENTRIC CONIC

C3 12.035 VHL 3.469 DLA -18.42 RAL 330.50 RAD 6567.5 VEL 11.551 PTH 2.02 VHP 4.551 DPA 9.08 RAP 285.70 ECC 1.1981

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 45 31	1486.40	2.21	359.15	184.58	118.24	11 10 17	886.4	5.97	352.48
90.00	17 38 56	5357.64	27.74	244.50	189.75	84.07	19 8 14	4757.6	26.63	236.01
100.00	11 55 48	1259.60	1.11	341.87	183.97	119.87	12 16 47	659.6	5.08	335.33
100.00	19 11 20	5059.67	28.98	222.41	189.58	82.34	20 35 40	4459.7	27.62	213.87
110.00	12 39 56	1121.28	-1.62	329.67	182.26	124.15	12 58 38	521.3	2.87	323.46
110.00	20 43 41	4770.76	32.16	199.82	188.93	77.74	22 3 11	4170.8	30.14	191.19

DIFFERENTIAL CORRECTIONS

TDE .6538 TRA 2.3041 TC3-4.1111 BAU .6878
RDE -.1562 RRA -.9744 RC3 1.1708 FAU .07257
FDE 1.5443 FRA 3.8846 FC3-5.2201 BSP 16845
BDE .6722 BRA 2.5016 BC3 4.2746 FSP -2398

MID-COURSE EXECUTION ACCURACY

SGT 5038.7 SGR 1898.4 SG3 698.4
RRT -.9826 RRF -.9820 RTF .9871
SGB 5384.5 R23 .0426 R13 -.9883
SG1 5374.3 SG2 330.4 THA 159.60

ORBIT DETERMINATION ACCURACY

ST 1618.9 SR 571.0 SS 1282.0
CRT -.9659 CRS .9092 CST -.9858
LSA 2128.6 MSA 244.4 SSA 14.3
EL1 1711.0 EL2 140.0 ALF 161.06

LAUNCH DATE OCT 9 1965 FLIGHT TIME 186.00 ARRIVAL DATE APR 13 1966

HELIOCENTRIC CONIC DISTANCE 516.343

RL 149.41 LAL .00 LOL 15.50 VL 27.241 GAL 3.89 AZL 90.50 HCA 234.06 SMA 128.30 ECC .17763 INC .4981 V1 29.822
RP 108.56 LAP .40 LOP 249.55 VP 37.559 GAP 5.15 AZP 89.71 TAL 161.46 TAP 35.52 RCA 105.51 APO 151.09 V2 34.909
RC 109.770 GL -3.83 GP 30.95 ZAL 48.52 ZAP 132.91 ETS 30.54 ZAE 126.24 ETE 156.46 ZAC 25.92 ETC 211.99 CLP-142.56

PLANETOCENTRIC CONIC

C3 12.519 VHL 3.538 DLA -16.08 RAL 330.66 RAD 6567.5 VEL 11.572 PTH 2.02 VHP 4.647 DPA 6.79 RAP 286.34 ECC 1.2060

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 22 51	1583.54	-.93	4.56	184.73	118.30	10 49 15	983.5	2.86	357.94
90.00	18 2 50	5277.20	27.04	238.72	189.62	81.26	19 30 47	4677.2	25.55	230.37
100.00	11 35 14	1349.99	-1.95	346.83	184.16	119.83	11 57 44	750.0	2.03	340.31
100.00	19 33 8	4985.99	28.20	217.08	189.40	79.64	20 56 14	4386.0	26.48	208.70
110.00	12 23 36	1198.46	-4.57	333.70	182.53	123.91	12 43 35	598.5	-.08	327.49
110.00	21 1 15	4710.28	31.20	195.37	188.63	75.27	22 19 46	4110.3	28.86	186.95

DIFFERENTIAL CORRECTIONS

TDE .7832 TRA 2.4638 TC3-4.1088 BAU .7082
RDE -.1408 RRA -.9174 RC3 1.0123 FAU .06877
FDE 1.6190 FRA 3.8554 FC3-4.7559 BSP 17259
BDE .7957 BRA 2.6291 BC3 4.2316 FSP -2320

MID-COURSE EXECUTION ACCURACY

SGT 5225.2 SGR 1719.2 SG3 671.6
RRT -.9787 RRF -.9769 RTF .9871
SGB 5500.8 R23 .0335 R13 -.9879
SG1 5490.5 SG2 335.9 THA 162.08

ORBIT DETERMINATION ACCURACY

ST 1779.8 SR 517.3 SS 1312.2
CRT -.9437 CRS .8896 CST -.9905
LSA 2258.3 MSA 239.0 SSA 14.5
EL1 1846.1 EL2 165.0 ALF 164.54

LAUNCH DATE OCT 9 1965 FLIGHT TIME 188.00 ARRIVAL DATE APR 15 1966

HELIOCENTRIC CONIC DISTANCE 522.384

RL 149.41 LAL .00 LOL 15.50 VL 27.223 GAL 4.11 AZL 90.26 HCA 237.24 SMA 128.18 ECC .18009 INC .2564 V1 29.822
RP 108.59 LAP .22 LOP 252.73 VP 37.535 GAP 5.53 AZP 89.86 TAL 160.67 TAP 37.91 RCA 105.10 APO 151.26 V2 34.897
RC 112.133 GL -1.93 GP 28.85 ZAL 47.47 ZAP 135.85 ETS 31.31 ZAE 125.75 ETE 158.75 ZAC 25.32 ETC 207.30 CLP-145.00

PLANETOCENTRIC CONIC

C3 13.104 VHL 3.620 DLA -13.96 RAL 330.92 RAD 6567.5 VEL 11.597 PTH 2.03 VHP 4.763 DPA 4.74 RAP 287.14 ECC 1.2157

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 4 25	1669.26	-3.69	9.35	185.25	118.10	10 32 15	1069.3	.10	2.72
90.00	18 23 20	5211.10	26.27	234.03	189.80	79.03	19 50 11	4611.1	24.49	225.82
100.00	11 18 23	1430.64	-4.67	351.27	184.71	119.56	11 42 13	830.6	-.70	344.73
100.00	19 52 3	4924.96	27.37	212.73	189.54	77.49	21 14 8	4325.0	25.37	204.50
110.00	12 10 4	1268.75	-7.22	337.41	183.14	123.50	12 31 13	668.8	-2.77	331.16
110.00	21 16 51	4659.61	30.27	191.72	188.68	73.29	22 34 31	4059.6	27.68	183.48

DIFFERENTIAL CORRECTIONS

TDE .9140 TRA 2.6268 TC3-4.0622 BAU .7278
RDE -.1228 RRA -.8672 RC3 .8715 FAU .06461
FDE 1.6727 FRA 3.8073 FC3-4.2684 BSP 17678
BDE .9222 BRA 2.7662 BC3 4.1546 FSP -2230

MID-COURSE EXECUTION ACCURACY

SGT 5394.0 SGR 1560.8 SG3 641.4
RRT -.9735 RRF -.9706 RTF .9869
SGB 5615.3 R23 .0259 R13 -.9875
SG1 5604.8 SG2 343.6 THA 164.21

ORBIT DETERMINATION ACCURACY

ST 1937.1 SR 467.1 SS 1332.7
CRT -.9153 CRS .8639 CST -.9935
LSA 2385.6 MSA 235.9 SSA 14.6
EL1 1984.2 EL2 183.6 ALF 167.44

LAUNCH DATE OCT 9 1965 FLIGHT TIME 190.00 ARRIVAL DATE APR 17 1966

DISTANCE 528.399

HELIOCENTRIC CONIC
RL 149.41 LAL .00 LOL 15.50 VL 27.204 GAL 4.35 AZL 90.03 HCA 240.41 SMA 128.05 ECC .18277 INC .0280 V1 29.822
RP 108.63 LAP .03 LOP 255.91 VP 37.511 GAP 5.92 AZP 89.98 TAL 159.85 TAP 40.27 RCA 104.65 APO 151.46 V2 34.886
RC 114.493 GL -.23 GP 26.95 ZAL 46.45 ZAP 138.59 ETS 32.03 ZAE 125.22 ETE 160.72 ZAC 25.12 ETC 202.60 CLP-147.28

PLANETOCENTRIC CONIC
C3 13.790 VHL 3.714 DLA -12.03 RAL 331.26 RAD 6567.5 VEL 11.627 PTH 2.04 VHP 4.898 DPA 2.91 RAP 288.08 ECC 1.2270

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 49 8	1746.57	-6.15	13.70	186.09	117.69	10 18 14	1146.6	-2.40	7.03
90.00	18 41 23	5156.00	25.50	230.18	190.24	77.25	20 7 18	4556.0	23.49	222.09
100.00	11 4 20	1503.91	-7.12	355.33	185.56	119.11	11 29 24	903.9	-3.18	348.75
100.00	20 8 51	4873.89	26.57	209.15	189.96	75.77	21 30 5	4273.9	24.35	201.05
110.00	11 58 44	1333.55	-9.64	340.87	184.03	122.95	12 20 58	733.5	-5.23	334.56
110.00	21 30 56	4617.01	29.39	188.71	189.02	71.71	22 47 53	4017.0	26.61	180.63

DIFFERENTIAL CORRECTIONS
TDE 1.0470 TRA 2.7943 TC3-3.9770 BAU .7461
RDE -.1033 RRA -.8232 RC3 .7477 FAU .06020
FDE 1.7097 FRA 3.7468 FC3-3.7796 BSP 18080
BDE 1.0521 BRA 2.9130 BC3 4.0467 FSP -2130

MID-COURSE EXECUTION ACCURACY
SGT 5546.6 SGR 1421.3 SG3 609.6
RRT -.9668 RRF -.9628 RTF .9866
SGB 5725.9 R23 .0200 R13 -.9870
SG1 5715.0 SG2 352.3 THA 166.03

ORBIT DETERMINATION ACCURACY
ST 2089.6 SR 421.3 SS 1345.4
CRT -.8795 CRS .8308 CST -.9954
LSA 2509.8 MSA 234.2 SSA 14.7
EL1 2122.5 EL2 197.4 ALF 169.86

LAUNCH DATE OCT 9 1965 FLIGHT TIME 192.00 ARRIVAL DATE APR 19 1966

DISTANCE 534.386

HELIOCENTRIC CONIC
RL 149.41 LAL .00 LOL 15.50 VL 27.185 GAL 4.60 AZL 89.82 HCA 243.58 SMA 127.92 ECC .18568 INC .1787 V1 29.822
RP 108.66 LAP -.16 LOP 259.08 VP 37.487 GAP 6.31 AZP 90.08 TAL 159.01 TAP 42.59 RCA 104.17 APO 151.68 V2 34.875
RC 116.852 GL 1.27 GP 25.23 ZAL 45.46 ZAP 141.15 ETS 32.72 ZAE 124.68 ETE 162.42 ZAC 25.29 ETC 198.09 CLP-149.42

PLANETOCENTRIC CONIC
C3 14.579 VHL 3.818 DLA -10.27 RAL 331.68 RAD 6567.6 VEL 11.660 PTH 2.05 VHP 5.049 DPA 1.28 RAP 289.16 ECC 1.2399

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 36 15	1817.36	-8.37	17.71	187.17	117.15	10 6 33	1217.4	-4.67	11.00
90.00	18 57 35	5109.75	24.76	226.99	190.92	75.81	20 22 44	4509.7	22.57	219.01
100.00	10 52 30	1571.36	-9.33	359.11	186.66	118.53	11 18 42	971.4	-5.45	352.48
100.00	20 24 1	4830.98	25.81	206.18	190.61	74.38	21 44 32	4231.0	23.42	198.20
110.00	11 49 11	1393.87	-11.86	344.14	185.15	122.30	12 12 25	793.9	-7.51	337.74
110.00	21 43 49	4581.24	28.60	186.22	189.62	70.43	23 0 10	3981.2	25.67	178.28

DIFFERENTIAL CORRECTIONS
TDE 1.1849 TRA 2.9701 TC3-3.8559 BAU .7618
RDE -.0837 RRA -.7858 RC3 .6387 FAU .05558
FDE 1.7370 FRA 3.6828 FC3-3.3001 BSP 18394
BDE 1.1878 BRA 3.0723 BC3 3.9084 FSP -2016

MID-COURSE EXECUTION ACCURACY
SGT 5687.4 SGR 1299.8 SG3 577.6
RRT -.9586 RRF -.9537 RTF .9862
SGB 5834.1 R23 .0156 R13 -.9865
SG1 5822.9 SG2 361.3 THA 167.59

ORBIT DETERMINATION ACCURACY
ST 2239.5 SR 381.1 SS 1354.2
CRT -.8356 CRS .7897 CST -.9968
LSA 2634.4 MSA 233.2 SSA 14.7
EL1 2262.2 EL2 207.3 ALF 171.84

LAUNCH DATE OCT 9 1965 FLIGHT TIME 194.00 ARRIVAL DATE APR 21 1966

DISTANCE 540.345

HELIOCENTRIC CONIC
RL 149.41 LAL .00 LOL 15.50 VL 27.165 GAL 4.87 AZL 89.62 HCA 246.76 SMA 127.79 ECC .18882 INC .3788 V1 29.822
RP 108.69 LAP -.35 LOP 262.25 VP 37.463 GAP 6.70 AZP 90.15 TAL 158.13 TAP 44.89 RCA 103.66 APO 151.92 V2 34.865
RC 119.206 GL 2.61 GP 23.68 ZAL 44.50 ZAP 143.54 ETS 33.41 ZAE 124.14 ETE 163.89 ZAC 25.79 ETC 193.90 CLP-151.43

PLANETOCENTRIC CONIC
C3 15.475 VHL 3.934 DLA -8.66 RAL 332.16 RAD 6567.6 VEL 11.699 PTH 2.06 VHP 5.215 DPA -.17 RAP 290.36 ECC 1.2547

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 25 20	1882.93	-10.39	21.48	188.47	116.49	9 56 43	1282.9	-6.75	14.69
90.00	19 12 19	5070.88	24.09	224.35	191.81	74.65	20 36 50	4470.9	21.75	216.45
100.00	10 42 28	1634.10	-11.35	2.68	187.97	117.84	11 9 42	1034.1	-7.54	355.96
100.00	20 37 52	4794.94	25.13	203.72	191.48	73.26	21 57 47	4194.9	22.60	195.84
110.00	11 41 7	1450.46	-13.89	347.26	186.48	121.55	12 5 17	850.5	-9.62	340.77
110.00	21 55 43	4551.34	27.90	184.18	190.43	69.40	23 11 34	3951.3	24.85	176.34

DIFFERENTIAL CORRECTIONS
TDE 1.3213 TRA 3.1479 TC3-3.7204 BAU .7780
RDE -.0625 RRA -.7522 RC3 .5477 FAU .05125
FDE 1.7473 FRA 3.6085 FC3-2.8669 BSP 18781
BDE 1.3227 BRA 3.2366 BC3 3.7605 FSP -1914

MID-COURSE EXECUTION ACCURACY
SGT 5812.1 SGR 1192.5 SG3 545.3
RRT -.9488 RRF -.9428 RTF .9857
SGB 5933.2 R23 .0118 R13 -.9859
SG1 5921.6 SG2 369.8 THA 168.94

ORBIT DETERMINATION ACCURACY
ST 2376.3 SR 344.9 SS 1353.5
CRT -.7793 CRS .7360 CST -.9977
LSA 2746.5 MSA 233.0 SSA 14.6
EL1 2391.6 EL2 214.8 ALF 173.49

LAUNCH DATE OCT 9 1965 FLIGHT TIME 196.00 ARRIVAL DATE APR 23 1966

DISTANCE 546.274

HELIOCENTRIC CONIC
RL 149.41 LAL .00 LOL 15.50 VL 27.144 GAL 5.17 AZL 89.43 HCA 249.93 SMA 127.65 ECC .19222 INC .5689 V1 29.822
RP 108.72 LAP -.53 LOP 265.42 VP 37.439 GAP 7.10 AZP 90.20 TAL 157.23 TAP 47.15 RCA 103.11 APO 152.19 V2 34.856
RC 121.557 GL 3.79 GP 22.29 ZAL 43.57 ZAP 145.78 ETS 34.13 ZAE 123.61 ETE 165.15 ZAC 26.56 ETC 190.12 CLP-153.33

PLANETOCENTRIC CONIC
C3 16.485 VHL 4.060 DLA -7.20 RAL 332.69 RAD 6567.7 VEL 11.742 PTH 2.07 VHP 5.395 DPA -1.44 RAP 291.66 ECC 1.2713

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 16 1	1944.22	-12.22	25.04	189.96	115.74	9 48 25	1344.2	-8.66	18.18
90.00	19 25 53	5038.30	23.48	222.15	192.87	73.71	20 49 51	4438.3	21.03	214.34
100.00	10 33 54	1692.93	-13.20	6.07	189.46	117.07	11 2 7	1092.9	-9.47	359.27
100.00	20 50 40	4764.82	24.52	201.69	192.53	72.35	22 10 5	4164.8	21.88	193.89
110.00	11 34 16	1503.93	-15.78	350.26	187.99	120.72	11 59 20	903.9	-11.59	343.66
110.00	22 6 47	4526.59	27.30	182.51	191.43	68.58	23 22 14	3926.6	24.14	174.76

DIFFERENTIAL CORRECTIONS
TDE 1.4601 TRA 3.3331 TC3-3.5664 BAU .7928
RDE -.0410 RRA -.7232 RC3 .4697 FAU .04702
FDE 1.7489 FRA 3.5335 FC3-2.4691 BSP 19143
BDE 1.4606 BRA 3.4107 BC3 3.5972 FSP -1812

MID-COURSE EXECUTION ACCURACY
SGT 5925.2 SGR 1098.5 SG3 513.8
RRT -.9372 RRF -.9301 RTF .9852
SGB 6026.2 R23 .0087 R13 -.9854
SG1 6014.4 SG2 377.6 THA 170.10

ORBIT DETERMINATION ACCURACY
ST 2505.1 SR 314.2 SS 1348.3
CRT -.7103 CRS .6697 CST -.9983
LSA 2852.7 MSA 233.0 SSA 14.5
EL1 2515.1 EL2 220.3 ALF 174.87

LAUNCH DATE OCT 9 1965 FLIGHT TIME 198.00 ARRIVAL DATE APR 25 1966

HELIOCENTRIC CONIC DISTANCE ,552.171

RL 149.41 LAL .00 LOL 15.50 VL 27.122 GAL 5.48 AZL 89.25 HCA 253.09 SMA 127.51 ECC .19589 INC .7514 V1 29.822
RP 108.75 LAP -.72 LOP 268.59 VP 37.415 GAP 7.51 AZP 90.22 TAL 156.30 TAP 49.40 RCA 102.53 APO 152.48 V2 34.846
RC 123.903 GL 4.84 GP 21.03 ZAL 42.65 ZAP 147.87 ETS 34.89 ZAE 123.10 ETE 166.24 ZAC 27.57 ETC 186.78 CLP-155.13

PLANETOCENTRIC CONIC

C3 17.618 VHL 4.197 DLA -5.86 RAL 333.26 RAD 6567.7 VEL 11.790 PTH 2.08 VHP 5.588 DPA -2.55 RAP 293.07 ECC 1.2900

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 8 2	2001.96	-13.91	28.45	191.60	114.92	9 41 24	1402.0	-10.43	21.49
90.00	19 38 26	5011.20	22.96	220.34	194.10	72.95	21 1 58	4411.2	20.40	212.60
100.00	10 26 36	1748.51	-14.90	9.32	191.11	116.22	10 55 44	1148.5	-11.25	2.43
100.00	21 2 33	4739.88	24.00	200.02	193.74	71.62	22 21 33	4139.9	21.27	192.29
110.00	11 28 29	1554.75	-17.52	353.16	189.66	119.83	11 54 24	954.7	-13.42	346.45
110.00	22 17 10	4506.41	26.79	181.16	192.60	67.93	23 32 16	3906.4	23.56	173.49

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE 1.6017 TRA 3.5265 TC3-3.3978 BAU .8059 SGT 6027.7 SGR 1016.1 SG3 483.7 ST 2625.9 SR 288.8 SS 1339.7
RDE -.0194 RRA -.6980 RC3 .4027 FAU .04292 RRT -.9237 RRF -.9157 RTF .9847 CRT -.6278 CRS .5902 CST -.9988
FDE 1.7441 FRA 3.4596 FC3-2.1090 BSP 19478 SGB 6112.7 R23 .0063 R13 -.9848 LSA 2952.8 MSA 233.1 SSA 14.4
BDE 1.6018 BRA 3.5950 BC3 3.4215 FSP -1711 SG1 6100.6 SG2 384.7 THA 171.11 EL1 2632.1 EL2 224.2 ALF 176.02

LAUNCH DATE OCT 9 1965 FLIGHT TIME 200.00 ARRIVAL DATE APR 27 1966

HELIOCENTRIC CONIC DISTANCE 558.033

RL 149.41 LAL .00 LOL 15.50 VL 27.100 GAL 5.81 AZL 89.07 HCA 256.26 SMA 127.36 ECC .19985 INC .9279 V1 29.822
RP 108.78 LAP -.90 LOP 271.76 VP 37.391 GAP 7.93 AZP 90.22 TAL 155.36 TAP 51.62 RCA 101.91 APO 152.81 V2 34.838
RC 126.245 GL 5.77 GP 19.89 ZAL 41.74 ZAP 149.83 ETS 35.72 ZAE 122.61 ETE 167.19 ZAC 28.76 ETC 183.88 CLP-156.84

PLANETOCENTRIC CONIC

C3 18.885 VHL 4.346 DLA -4.64 RAL 333.87 RAD 6567.8 VEL 11.843 PTH 2.10 VHP 5.796 DPA -3.51 RAP 294.57 ECC 1.3108

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 1 10	2056.70	-15.45	31.73	193.39	114.03	9 35 27	1456.7	-12.08	24.67
90.00	19 50 9	4988.94	22.50	218.86	195.47	72.34	21 13 18	4388.9	19.88	211.18
100.00	10 20 20	1801.33	-16.46	12.47	192.91	115.31	10 50 22	1201.3	-12.92	5.47
100.00	21 13 40	4719.55	23.56	198.67	195.09	71.05	22 32 20	4119.5	20.75	191.00
110.00	11 23 35	1603.31	-19.14	356.00	191.47	118.88	11 50 18	1003.3	-15.14	349.16
110.00	22 26 55	4490.33	26.38	180.09	193.91	67.42	23 41 45	3890.3	23.08	172.48

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE 1.7461 TRA 3.7287 TC3-3.2188 BAU .8173 SGT 6119.9 SGR 943.5 SG3 454.9 ST 2738.0 SR 268.5 SS 1328.3
RDE .0021 RRA -.6763 RC3 .3452 FAU .03899 RRT -.9083 RRF -.8995 RTF .9842 CRT -.5323 CRS .4980 CST -.9991
FDE 1.7341 FRA 3.3881 FC3-1.7872 BSP 19791 SGB 6192.2 R23 .0045 R13 -.9842 LSA 3046.0 MSA 233.1 SSA 14.3
BDE 1.7461 BRA 3.7895 BC3 3.2372 FSP -1614 SG1 6179.9 SG2 390.8 THA 172.00 EL1 2741.7 EL2 227.0 ALF 176.99

LAUNCH DATE OCT 9 1965 FLIGHT TIME 202.00 ARRIVAL DATE APR 29 1966

HELIOCENTRIC CONIC DISTANCE 563.860

RL 149.41 LAL .00 LOL 15.50 VL 27.078 GAL 6.17 AZL 88.90 HCA 259.43 SMA 127.21 ECC .20412 INC 1.0995 V1 29.822
RP 108.80 LAP -1.08 LOP 274.92 VP 37.367 GAP 8.36 AZP 90.20 TAL 154.39 TAP 53.82 RCA 101.25 APO 153.18 V2 34.830
RC 128.581 GL 6.58 GP 18.87 ZAL 40.85 ZAP 151.67 ETS 36.63 ZAE 122.15 ETE 168.01 ZAC 30.11 ETC 181.39 CLP-158.47

PLANETOCENTRIC CONIC

C3 20.300 VHL 4.506 DLA -3.51 RAL 334.51 RAD 6567.8 VEL 11.903 PTH 2.11 VHP 6.016 DPA -4.34 RAP 296.15 ECC 1.3341

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 55 18	2108.89	-16.87	34.90	195.31	113.08	9 30 26	1508.9	-13.60	27.75
90.00	20 1 7	4971.01	22.13	217.68	196.96	71.87	21 23 58	4371.0	19.44	210.04
100.00	10 15 0	1851.79	-17.90	15.52	194.83	114.35	10 45 51	1251.8	-14.47	8.41
100.00	21 24 6	4703.35	23.19	197.61	196.57	70.60	22 42 30	4103.3	20.34	189.98
110.00	11 19 28	1649.95	-20.65	358.77	193.40	117.86	11 46 58	1049.9	-16.76	351.81
110.00	22 36 7	4477.96	26.05	179.28	195.35	67.04	23 50 45	3878.0	22.71	171.71

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE 1.8969 TRA 3.9433 TC3-3.0278 BAU .8256 SGT 6205.0 SGR 879.5 SG3 428.0 ST 2845.5 SR 253.2 SS 1316.8
RDE .0232 RRA -.6576 RC3 .2949 FAU .03510 RRT -.8912 RRF -.8815 RTF .9835 CRT -.4280 CRS .3973 CST -.9994
FDE 1.7235 FRA 3.3224 FC3-1.4967 BSP 20008 SGB 6267.1 R23 .0031 R13 -.9836 LSA 3137.0 MSA 232.9 SSA 14.2
BDE 1.8970 BRA 3.9977 BC3 3.0421 FSP -1515 SG1 6254.5 SG2 395.9 THA 172.77 EL1 2847.6 EL2 228.7 ALF 177.80

LAUNCH DATE OCT 9 1965 FLIGHT TIME 204.00 ARRIVAL DATE MAY 1 1966

HELIOCENTRIC CONIC DISTANCE 569.646

RL 149.41 LAL .00 LOL 15.50 VL 27.055 GAL 6.55 AZL 88.73 HCA 262.59 SMA 127.06 ECC .20873 INC 1.2676 V1 29.822
RP 108.82 LAP -1.26 LOP 278.09 VP 37.344 GAP 8.81 AZP 90.16 TAL 153.41 TAP 56.01 RCA 100.54 APO 153.58 V2 34.822
RC 130.911 GL 7.30 GP 17.94 ZAL 39.98 ZAP 153.41 ETS 37.65 ZAE 121.71 ETE 168.73 ZAC 31.59 ETC 179.28 CLP-160.03

PLANETOCENTRIC CONIC

C3 21.880 VHL 4.678 DLA -2.49 RAL 335.17 RAD 6567.9 VEL 11.969 PTH 2.13 VHP 6.251 DPA -5.04 RAP 297.80 ECC 1.3601

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 50 15	2158.89	-18.18	37.99	197.34	112.09	9 26 14	1558.9	-15.02	30.73
90.00	20 11 26	4957.01	21.83	216.77	198.57	71.50	21 34 3	4357.0	19.10	209.16
100.00	10 10 26	1900.23	-19.24	18.50	196.87	113.33	10 42 6	1300.2	-15.91	11.28
100.00	21 33 56	4690.90	22.91	196.79	198.16	70.26	22 52 6	4090.9	20.01	189.20
110.00	11 16 2	1694.91	-22.06	1.50	195.46	116.80	11 44 17	1094.9	-18.28	354.40
110.00	22 44 50	4468.98	25.81	178.69	196.91	66.77	23 59 19	3869.0	22.44	171.16

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE 2.0476 TRA 4.1646 TC3-2.8400 BAU .8340 SGT 6278.6 SGR 822.2 SG3 402.3 ST 2939.9 SR 242.1 SS 1301.4
RDE .0448 RRA -.6407 RC3 .2529 FAU .03160 RRT -.8720 RRF -.8616 RTF .9830 CRT -.3145 CRS .2876 CST -.9995
FDE 1.7067 FRA 3.2567 FC3-1.2503 BSP 20291 SGB 6332.2 R23 .0017 R13 -.9830 LSA 3215.8 MSA 232.5 SSA 14.0
BDE 2.0481 BRA 4.2136 BC3 2.8512 FSP -1428 SG1 6319.5 SG2 399.8 THA 173.46 EL1 2940.9 EL2 229.7 ALF 178.51

LAUNCH DATE OCT 9 1965 FLIGHT TIME 206.00 ARRIVAL DATE MAY 3 1966

HELIOCENTRIC CONIC DISTANCE 575.388

RL 149.41 LAL .00 LOL 15.50 VL 27.032 GAL 6.96 AZL 88.57 HCA 265.75 SMA 126.91 ECC .21371 INC 1.4332 V1 29.822
RP 108.85 LAP -1.43 LOP 281.25 VP 37.321 GAP 9.27 AZP 90.11 TAL 152.42 TAP 58.18 RCA 99.79 APO 154.03 V2 34.816
RC 133.236 GL 7.93 GP 17.09 ZAL 39.12 ZAP 155.04 ETS 38.80 ZAE 121.30 ETE 169.36 ZAC 33.17 ETC 177.48 CLP-161.53

PLANETOCENTRIC CONIC

C3 23.643 VHL 4.862 DLA -1.54 RAL 335.85 RAD 6568.0 VEL 12.042 PTH 2.15 VHP 6.500 DPA -5.63 RAP 299.51 ECC 1.3891

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 45 57	2207.00	-19.38	41.00	199.48	111.06	9 22 44	1607.0	-16.35	33.64
90.00	20 21 8	4946.59	21.60	216.09	200.28	71.23	21 43 35	4346.6	18.84	208.50
100.00	10 6 35	1946.92	-20.47	21.42	199.02	112.27	10 39 2	1346.9	-17.27	14.09
100.00	21 43 12	4681.90	22.70	196.20	199.86	70.01	23 1 14	4081.9	19.77	188.63
110.00	11 13 11	1738.44	-23.37	4.20	197.63	115.69	11 42 9	1138.4	-19.72	356.97
110.00	22 53 5	4463.14	25.65	178.31	198.58	66.59	24 7 28	3863.1	22.26	170.80

DIFFERENTIAL CORRECTIONS
TDE 2.2025 TRA 4.3975 TC3-2.6499 BAU .8404
RDE .0664 RRA -.6256 RC3 .2165 FAU .02828
FDE 1.6885 FRA 3.1957 FC3-1.0354 BSP 20551
BDE 2.2035 BRA 4.4417 BC3 2.6588 FSP -1345

MID-COURSE EXECUTION ACCURACY
SGT 6344.0 SGR 770.9 SG3 378.2
RRT -.8510 RRF -.8399 RTF .9825
SGB 6390.7 R23 .0006 R13 -.9825
SG1 6378.0 SG2 402.7 THA 174.07

ORBIT DETERMINATION ACCURACY
ST 3026.5 SR 234.8 SS 1285.2
CRT -.1990 CRS .1758 CST -.9997
LSA 3288.3 MSA 231.9 SSA 13.9
EL1 3026.9 EL2 230.0 ALF 179.11

LAUNCH DATE OCT 9 1965 FLIGHT TIME 208.00 ARRIVAL DATE MAY 5 1966

HELIOCENTRIC CONIC DISTANCE 581.083

RL 149.41 LAL .00 LOL 15.50 VL 27.008 GAL 7.39 AZL 88.40 HCA 268.92 SMA 126.75 ECC .21908 INC 1.5974 V1 29.822
RP 108.87 LAP -1.60 LOP 284.41 VP 37.298 GAP 9.75 AZP 90.03 TAL 151.42 TAP 60.34 RCA 98.98 APO 154.52 V2 34.809
RC 135.553 GL 8.48 GP 16.33 ZAL 38.27 ZAP 156.57 ETS 40.09 ZAE 120.91 ETE 169.91 ZAC 34.83 ETC 175.97 CLP-162.97

PLANETOCENTRIC CONIC

C3 25.613 VHL 5.061 DLA -.68 RAL 336.54 RAD 6568.0 VEL 12.124 PTH 2.17 VHP 6.764 DPA -6.11 RAP 301.27 ECC 1.4215

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 42 18	2253.46	-20.49	43.96	201.71	109.98	9 19 52	1653.5	-17.59	36.49
90.00	20 30 18	4939.47	21.45	215.62	202.08	71.05	21 52 37	4339.5	18.66	208.05
100.00	10 3 20	1992.09	-21.61	24.29	201.27	111.18	10 36 32	1392.1	-18.54	16.84
100.00	21 51 57	4676.07	22.57	195.82	201.65	69.86	23 9 53	4076.1	19.62	188.27
110.00	11 10 51	1780.73	-24.59	6.88	199.90	114.53	11 40 32	1180.7	-21.07	359.50
110.00	23 0 55	4460.20	25.57	178.12	200.34	66.50	24 15 16	3860.2	22.17	170.61

DIFFERENTIAL CORRECTIONS
TDE 2.3620 TRA 4.6431 TC3-2.4597 BAU .8446
RDE .0881 RRA -.6120 RC3 .1849 FAU .02515
FDE 1.6695 FRA 3.1394 FC3 -.8500 BSP 20786
BDE 2.3637 BRA 4.6833 BC3 2.4667 FSP -1267

MID-COURSE EXECUTION ACCURACY
SGT 6402.0 SGR 724.6 SG3 355.7
RRT -.8281 RRF -.8164 RTF .9821
SGB 6442.8 R23 -.0003 R13 -.9821
SG1 6430.1 SG2 404.4 THA 174.62

ORBIT DETERMINATION ACCURACY
ST 3105.4 SR 230.6 SS 1268.4
CRT -.0858 CRS .0664 CST -.9997
LSA 3354.4 MSA 231.0 SSA 13.7
EL1 3105.5 EL2 229.8 ALF 179.63

LAUNCH DATE OCT 9 1965 FLIGHT TIME 210.00 ARRIVAL DATE MAY 7 1966

HELIOCENTRIC CONIC DISTANCE 586.726

RL 149.41 LAL .00 LOL 15.50 VL 26.984 GAL 7.86 AZL 88.24 HCA 272.08 SMA 126.60 ECC .22490 INC 1.7612 V1 29.822
RP 108.88 LAP -1.76 LOP 287.57 VP 37.275 GAP 10.24 AZP 89.94 TAL 150.41 TAP 62.49 RCA 98.13 APO 155.07 V2 34.804
RC 137.863 GL 8.96 GP 15.64 ZAL 37.44 ZAP 158.03 ETS 41.54 ZAE 120.54 ETE 170.40 ZAC 36.56 ETC 174.70 CLP-164.37

PLANETOCENTRIC CONIC

C3 27.817 VHL 5.274 DLA .11 RAL 337.24 RAD 6568.1 VEL 12.214 PTH 2.19 VHP 7.045 DPA -6.49 RAP 303.08 ECC 1.4578

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 39 13	2298.48	-21.51	46.87	204.04	108.87	9 17 32	1698.5	-18.74	39.29
90.00	20 38 57	4935.41	21.36	215.36	203.97	70.95	22 1 12	4335.4	18.56	207.80
100.00	10 0 37	2035.92	-22.66	27.12	203.60	110.04	10 34 33	1435.9	-19.72	19.56
100.00	22 0 14	4673.20	22.50	195.64	203.53	69.78	23 18 8	4073.2	19.54	188.09
110.00	11 8 59	1821.93	-25.73	9.54	202.26	113.32	11 39 21	1221.9	-22.35	2.02
110.00	23 8 22	4459.96	25.57	178.10	202.19	66.50	24 22 42	3860.0	22.17	170.60

DIFFERENTIAL CORRECTIONS
TDE 2.5304 TRA 4.9062 TC3-2.2656 BAU .8446
RDE .1095 RRA -.5998 RC3 .1568 FAU .02204
FDE 1.6534 FRA 3.0908 FC3 -.6861 BSP 20909
BDE 2.5327 BRA 4.9427 BC3 2.2710 FSP -1187

MID-COURSE EXECUTION ACCURACY
SGT 6455.6 SGR 682.7 SG3 334.9
RRT -.8035 RRF -.7913 RTF .9816
SGB 6491.6 R23 -.0010 R13 -.9816
SG1 6479.0 SG2 404.9 THA 175.12

ORBIT DETERMINATION ACCURACY
ST 3180.9 SR 228.8 SS 1253.6
CRT .0192 CRS -.0352 CST -.9998
LSA 3418.9 MSA 229.6 SSA 13.5
EL1 3180.9 EL2 228.8 ALF .08

LAUNCH DATE OCT 9 1965 FLIGHT TIME 212.00 ARRIVAL DATE MAY 9 1966

HELIOCENTRIC CONIC DISTANCE 592.309

RL 149.41 LAL .00 LOL 15.50 VL 26.960 GAL 8.36 AZL 88.07 HCA 275.24 SMA 126.44 ECC .23119 INC 1.9255 V1 29.822
RP 108.90 LAP -1.92 LOP 290.74 VP 37.253 GAP 10.76 AZP 89.82 TAL 149.40 TAP 64.64 RCA 97.21 APO 155.67 V2 34.799
RC 140.164 GL 9.37 GP 15.00 ZAL 36.63 ZAP 159.40 ETS 43.19 ZAE 120.19 ETE 170.84 ZAC 38.34 ETC 173.62 CLP-165.72

PLANETOCENTRIC CONIC

C3 30.287 VHL 5.503 DLA .84 RAL 337.94 RAD 6568.2 VEL 12.315 PTH 2.22 VHP 7.344 DPA -6.79 RAP 304.93 ECC 1.4984

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 36 39	2342.22	-22.45	49.73	206.44	107.73	9 15 41	1742.2	-19.81	42.05
90.00	20 47 7	4934.22	21.33	215.28	205.94	70.92	22 9 22	4334.2	18.53	207.73
100.00	9 58 23	2078.58	-23.62	29.92	206.02	108.87	10 33 2	1478.6	-20.83	22.24
100.00	22 8 4	4673.09	22.50	195.63	205.49	69.78	23 25 58	4073.1	19.54	188.08
110.00	11 7 31	1862.17	-26.79	12.19	204.71	112.08	11 38 34	1262.2	-23.55	4.52
110.00	23 15 25	4462.27	25.63	178.25	204.12	66.57	24 29 48	3862.3	22.24	170.74

DIFFERENTIAL CORRECTIONS
TDE 2.7005 TRA 5.1798 TC3-2.0809 BAU .8443
RDE .1315 RRA -.5877 RC3 .1331 FAU .01928
FDE 1.6344 FRA 3.0440 FC3 -.5511 BSP 21122
BDE 2.7037 BRA 5.2130 BC3 2.0852 FSP -1119

MID-COURSE EXECUTION ACCURACY
SGT 6499.0 SGR 643.9 SG3 315.2
RRT -.7768 RRF -.7643 RTF .9813
SGB 6530.9 R23 -.0016 R13 -.9813
SG1 6518.3 SG2 404.3 THA 175.58

ORBIT DETERMINATION ACCURACY
ST 3244.5 SR 229.1 SS 1236.8
CRT .1179 CRS -.1307 CST -.9999
LSA 3472.3 MSA 227.9 SSA 13.3
EL1 3244.6 EL2 227.4 ALF .48

LAUNCH DATE OCT 9 1965 FLIGHT TIME 214.00 ARRIVAL DATE MAY 11 1966

HELIOCENTRIC CONIC DISTANCE 597.826

RL	149.41	LAL	.00	LOL	15.50	VL	26.936	GAL	8.89	AZL	87.91	HCA	278.40	SMA	126.28	ECC	.23801	INC	2.0915
RP	108.91	LAP	-2.07	LOP	293.90	VP	37.232	GAP	11.31	AZP	89.69	TAL	148.39	TAP	66.78	RCA	96.23	APO	156.34
RC	142.456	GL	9.72	GP	14.43	ZAL	35.84	ZAP	160.70	ETS	45.07	ZAE	119.85	ETE	171.23	ZAC	40.16	ETC	172.72

VI	29.822	V2	34.795	CLP	-167.04														

PLANETOCENTRIC CONIC

C3	33.062	VHL	5.750	DLA	1.50	RAL	338.64	RAD	6568.3	VEL	12.427	PTH	2.25	VHP	7.662	DPA	-6.99	RAP	306.81

ECC	1.5441																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 34 32	2384.82	-23.30	52.56	208.92	106.56	9 14 17	1784.8	-20.81	44.78
90.00	20 54 50	4935.72	21.36	215.38	207.98	70.96	22 17 6	4335.7	18.57	207.82
100.00	9 56 35	2120.19	-24.51	32.69	208.51	107.67	10 31 55	1520.2	-21.86	24.90
100.00	22 15 29	4675.59	22.55	195.79	207.52	69.85	23 33 24	4075.6	19.61	188.24
110.00	11 6 25	1901.56	-27.77	14.83	207.25	110.79	11 38 7	1301.6	-24.68	7.02
110.00	23 22 7	4466.98	25.76	178.56	206.12	66.71	24 36 34	3867.0	22.38	171.03

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	2.8769	TRA	5.4694	TC3-1	.9000	BAU	.8413	SGT	6535.6	SGR	608.0	SG3	296.8	ST	3301.1	SR	230.6	SS	1220.6
RDE	.1538	RRA	-.5759	RC3	.1123	FAU	.01667	RRT	-.7480	RRF	-.7353	RTF	.9812	CRT	.2070	CRS	-.2169	CST	-.9999
FDE	1.6162	FRA	3.0022	FC3	-.4365	BSP	21312	SGB	6563.9	R23	-.0021	R13	-.9812	LSA	3519.8	MSA	225.8	SSA	13.1
BDE	2.8810	BRA	5.4996	BC3	1.9033	FSP	-1055	SG1	6551.5	SG2	402.6	THA	176.00	EL1	3301.4	EL2	225.6	ALF	.83

LAUNCH DATE OCT 9 1965 FLIGHT TIME 216.00 ARRIVAL DATE MAY 13 1966

HELIOCENTRIC CONIC DISTANCE 603.267

RL	149.41	LAL	.00	LOL	15.50	VL	26.911	GAL	9.47	AZL	87.74	HCA	281.55	SMA	126.13	ECC	.24542	INC	2.2603
RP	108.92	LAP	-2.21	LOP	297.06	VP	37.211	GAP	11.88	AZP	89.55	TAL	147.38	TAP	68.94	RCA	95.17	APO	157.08
RC	144.737	GL	10.02	GP	13.91	ZAL	35.06	ZAP	161.92	ETS	47.21	ZAE	119.53	ETE	171.59	ZAC	42.02	ETC	171.95

VI	29.822	V2	34.791	CLP	-168.33														

PLANETOCENTRIC CONIC

C3	36.188	VHL	6.016	DLA	2.11	RAL	339.34	RAD	6568.4	VEL	12.552	PTH	2.27	VHP	8.001	DPA	-7.12	RAP	308.71

ECC	1.5956																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 32 50	2426.39	-24.08	55.36	211.46	105.37	9 13 16	1826.4	-21.74	47.47
90.00	21 2 7	4939.76	21.45	215.64	210.08	71.06	22 24 26	4339.8	18.67	208.07
100.00	9 55 9	2160.85	-25.32	35.44	211.07	106.44	10 31 10	1560.9	-22.83	27.53
100.00	22 22 28	4680.53	22.67	196.11	209.61	69.98	23 40 29	4080.5	19.74	188.55
110.00	11 5 39	1940.20	-28.67	17.48	209.86	109.46	11 37 59	1340.2	-25.75	9.52
110.00	23 28 28	4473.95	25.94	179.02	208.20	66.92	24 43 2	3873.9	22.59	171.46

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	3.0608	TRA	5.7770	TC3-1	.7230	BAU	.8348	SGT	6566.0	SGR	574.5	SG3	279.7	ST	3351.3	SR	233.0	SS	1205.4
RDE	.1765	RRA	-.5640	RC3	.0941	FAU	.01418	RRT	-.7169	RRF	-.7042	RTF	.9811	CRT	.2863	CRS	-.2937	CST	-.9999
FDE	1.5996	FRA	2.9658	FC3	-.3392	BSP	21476	SGB	6591.1	R23	-.0025	R13	-.9811	LSA	3562.1	MSA	223.3	SSA	12.9
BDE	3.0659	BRA	5.8045	BC3	1.7255	FSP	-994	SG1	6579.0	SG2	399.7	THA	176.40	EL1	3352.0	EL2	223.2	ALF	1.15

LAUNCH DATE OCT 9 1965 FLIGHT TIME 218.00 ARRIVAL DATE MAY 15 1966

HELIOCENTRIC CONIC DISTANCE 608.623

RL	149.41	LAL	.00	LOL	15.50	VL	26.887	GAL	10.09	AZL	87.57	HCA	284.71	SMA	125.97	ECC	.25347	INC	2.4328
RP	108.93	LAP	-2.35	LOP	300.22	VP	37.191	GAP	12.50	AZP	89.38	TAL	146.39	TAP	71.10	RCA	94.04	APO	157.90
RC	147.008	GL	10.27	GP	13.43	ZAL	34.31	ZAP	163.07	ETS	49.65	ZAE	119.21	ETE	171.91	ZAC	43.90	ETC	171.31

VI	29.822	V2	34.788	CLP	-169.60														

PLANETOCENTRIC CONIC

C3	39.719	VHL	6.302	DLA	2.66	RAL	340.03	RAD	6568.5	VEL	12.692	PTH	2.31	VHP	8.364	DPA	-7.17	RAP	310.62

ECC	1.6537																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 31 29	2467.00	-24.79	58.13	214.06	104.15	9 12 36	1867.0	-22.60	50.14
90.00	21 8 57	4946.20	21.59	216.06	212.24	71.22	22 31 23	4346.2	18.83	208.48
100.00	9 54 4	2200.63	-26.06	38.17	213.69	105.18	10 30 45	1600.6	-23.72	30.15
100.00	22 29 3	4687.80	22.84	196.59	211.77	70.17	23 47 11	4087.8	19.93	189.00
110.00	11 5 9	1978.14	-29.50	20.12	212.53	108.10	11 38 7	1378.1	-26.75	12.01
110.00	23 34 27	4483.06	26.18	179.61	210.33	67.20	24 49 10	3883.1	22.87	172.03

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	3.2537	TRA	6.1049	TC3-1	.5508	BAU	.8245	SGT	6591.0	SGR	542.9	SG3	263.7	ST	3395.8	SR	235.9	SS	1191.5
RDE	.1996	RRA	-.5517	RC3	.0781	FAU	.01181	RRT	-.6834	RRF	-.6709	RTF	.9811	CRT	.3565	CRS	-.3619	CST	-.9999
FDE	1.5848	FRA	2.9351	FC3	-.2574	BSP	21604	SGB	6613.3	R23	-.0028	R13	-.9811	LSA	3599.8	MSA	220.4	SSA	12.7
BDE	3.2598	BRA	6.1298	BC3	1.5527	FSP	-936	SG1	6601.5	SG2	395.7	THA	176.77	EL1	3396.9	EL2	220.3	ALF	1.42

LAUNCH DATE OCT 9 1965 FLIGHT TIME 220.00 ARRIVAL DATE MAY 17 1966

HELIOCENTRIC CONIC DISTANCE 613.881

RL	149.41	LAL	.00	LOL	15.50	VL	26.862	GAL	10.75	AZL	87.39	HCA	287.87	SMA	125.81	ECC	.26225	INC	2.6103
RP	108.94	LAP	-2.48	LOP	303.38	VP	37.171	GAP	13.15	AZP	89.20	TAL	145.41	TAP	73.28	RCA	92.82	APO	158.81
RC	149.266	GL	10.47	GP	12.99	ZAL	33.58	ZAP	164.15	ETS	52.44	ZAE	118.89	ETE	172.21	ZAC	45.80	ETC	170.76

VI	29.822	V2	34.786	CLP	-170.85														

PLANETOCENTRIC CONIC

C3	43.721	VHL	6.612	DLA	3.16	RAL	340.70	RAD	6568.7	VEL	12.849	PTH	2.34	VHP	8.754	DPA	-7.16	RAP	312.55

ECC	1.7195																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 30 28	2506.72	-25.42	60.86	216.71	102.92	9 12 15	1906.7	-23.39	52.78
90.00	21 15 22	4954.92	21.78	216.63	214.45	71.45	22 37 57	4354.9	19.05	209.02
100.00	9 53 17	2239.59	-26.73	40.87	216.36	103.91	10 30 37	1639.6	-24.55	32.75
100.00	22 35 14	4697.28	23.06	197.21	213.98	70.43	23 53 31	4097.3	20.18	189.60
110.00	11 4 55	2015.41	-30.26	22.75	215.26	106.71	11 38 30	1415.4	-27.68	14.51
110.00	23 40 6	4494.22	26.48	180.35	212.53	67.54	24 55 0	3894.2	23.20	172.72

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	3.4589	TRA	6.4573	TC3-1	.3818	BAU	.8086	SGT	6612.5	SGR	513.0	SG3	249.0	ST	3436.9	SR	238.9	SS	1180.0
RDE	.2232	RRA	-.5388	RC3	.0639	FAU	.00947	RRT	-.6471	RRF	-.6350	RTF	.9813	CRT	.4185	CRS	-.4221	CST	-.9999
FDE	1.5736	FRA	2.9115	FC3	-.1876	BSP	21653	SGB	6632.4	R23	-.0030	R13	-.9813	LSA	3635.2	MSA	216.9	SSA	12.4
BDE	3.4661	BRA	6.4797	BC3	1.3833	FSP	-879	SG1	6620.9	SG2	390.6	THA	177.12	EL1	3438.4	EL2	216.9	ALF	1.67

LAUNCH DATE OCT 10 1965 FLIGHT TIME 70.00 ARRIVAL DATE DEC 19 1965

DISTANCE 139.875

HELIOCENTRIC CONIC

RL	149.37	LAL	.00	LOL	16.48	VL	18.418	GAL	15.69	AZL	90.99	HCA	47.44	SMA	92.31	ECC	.65374	INC	.9948	V1	29.830
RP	107.92	LAP	-.73	LOP	63.92	VP	31.964	GAP	-39.84	AZP	90.67	TAL	171.25	TAP	218.70	RCA	31.96	APO	152.65	V2	35.114
RC	63.722	GL	-1.33	GP	-4.27	ZAL	65.64	ZAP	27.99	ETS	168.64	ZAE	142.95	ETE	184.78	ZAC	19.48	ETC	104.98	CLP	27.69

PLANETOCENTRIC CONIC

C3 176.453 VHL 13.284 DLA -18.79 RAL 313.69 RAD 6570.9 VEL 17.256 PTH 2.95 VHP 22.944 DPA -28.59 RAP 271.50 ECC 3.9040

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 38 24	2084.84	-16.22	33.43	205.53	113.53	10 13 9	1484.8	-12.90	26.33
90.00	16 24 1	697.41	23.82	311.52	219.51	105.78	16 35 38	97.4	25.76	303.39
100.00	10 48 19	1859.26	-18.11	15.98	204.66	114.20	11 19 18	1259.3	-14.69	8.85
100.00	17 56 48	5686.26	25.81	268.04	220.12	105.63	19 31 34	5086.3	27.70	259.75
110.00	11 31 43	1723.26	-22.92	3.26	202.25	116.09	12 0 26	1123.3	-19.22	356.07
110.00	19 29 53	5395.03	30.92	247.53	221.73	105.35	20 59 48	4795.0	32.72	238.77

DIFFERENTIAL CORRECTIONS

TDE	-.4930	TRA	-1.5987	TC3	-.1192	BAU	.2818
RDE	-.9590	RRA	.3978	RC3	-.0074	FAU	.01297
FDE	.2358	FRA	.6580	FC3	-.0637	BSP	2154
BDE	1.0783	BRA	1.6474	BC3	.1194	FSP	-65

MID-COURSE EXECUTION ACCURACY

SGT	822.2	SGR	452.1	SG3	31.0		
RRT	-.1017	RRF	.0963	RTF	-.6318		
SGB	938.3	R23	-.0048	R13	.6326		
SG1	824.1	SG2	448.7	THA	175.45		

ORBIT DETERMINATION ACCURACY

ST	305.1	SR	417.2	SS	269.3		
CRT	.5978	CRS	.6558	CST	.9949		
LSA	524.9	MSA	252.8	SSA	13.8		
EL1	468.8	EL2	217.6	ALF	59.01		

LAUNCH DATE OCT 10 1965 FLIGHT TIME 72.00 ARRIVAL DATE DEC 21 1965

DISTANCE 145.875

HELIOCENTRIC CONIC

RL	149.37	LAL	.00	LOL	16.48	VL	19.075	GAL	15.04	AZL	90.71	HCA	50.66	SMA	93.92	ECC	.62652	INC	.7052	V1	29.830
RP	107.89	LAP	-.55	LOP	67.14	VP	32.360	GAP	-37.98	AZP	90.45	TAL	170.57	TAP	221.23	RCA	35.08	APO	152.76	V2	35.126
RC	61.731	GL	-1.03	GP	-4.40	ZAL	64.48	ZAP	26.50	ETS	167.86	ZAE	143.46	ETE	185.68	ZAC	20.20	ETC	109.38	CLP	26.16

PLANETOCENTRIC CONIC

C3 159.815 VHL 12.642 DLA -18.18 RAL 314.77 RAD 6570.7 VEL 16.767 PTH 2.90 VHP 22.015 DPA -28.79 RAP 273.41 ECC 3.6301

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 36 20	2092.09	-16.42	33.87	205.48	113.40	10 11 12	1492.1	-13.12	26.75
90.00	16 34 46	656.42	24.55	308.74	219.25	104.57	16 45 42	56.4	26.32	300.52
100.00	10 46 52	1864.52	-18.26	16.30	204.64	114.09	11 17 56	1264.5	-14.85	9.16
100.00	18 6 56	5647.26	26.50	265.34	219.80	104.37	19 41 3	5047.3	28.21	256.96
110.00	11 31 29	1724.73	-22.96	3.35	202.29	116.05	12 0 13	1124.7	-19.27	356.15
110.00	19 38 48	5359.82	31.53	244.96	221.26	103.94	21 8 8	4759.8	33.12	236.10

DIFFERENTIAL CORRECTIONS

TDE	-.5001	TRA	-1.6064	TC3	-.1259	BAU	.2698
RDE	-.9167	RRA	.3966	RC3	-.0095	FAU	.01316
FDE	.2520	FRA	.6836	FC3	-.0713	BSP	2318
BDE	1.0442	BRA	1.6546	BC3	.1263	FSP	-72

MID-COURSE EXECUTION ACCURACY

SGT	860.2	SGR	457.2	SG3	33.7		
RRT	-.1097	RRF	.1044	RTF	-.6516		
SGB	974.1	R23	-.0054	R13	.6524		
SG1	862.2	SG2	453.3	THA	175.38		

ORBIT DETERMINATION ACCURACY

ST	323.0	SR	419.3	SS	286.2		
CRT	.5990	CRS	.6639	CST	.9943		
LSA	542.7	MSA	259.6	SSA	14.0		
EL1	478.3	EL2	226.8	ALF	56.90		

LAUNCH DATE OCT 10 1965 FLIGHT TIME 74.00 ARRIVAL DATE DEC 23 1965

DISTANCE 151.963

HELIOCENTRIC CONIC

RL	149.37	LAL	.00	LOL	16.48	VL	19.688	GAL	14.40	AZL	90.44	HCA	53.88	SMA	95.52	ECC	.59999	INC	.4409	V1	29.830
RP	107.85	LAP	-.36	LOP	70.36	VP	32.738	GAP	-36.22	AZP	90.26	TAL	169.91	TAP	223.79	RCA	38.21	APO	152.84	V2	35.138
RC	59.781	GL	-.70	GP	-4.55	ZAL	63.37	ZAP	25.03	ETS	166.96	ZAE	144.08	ETE	186.70	ZAC	21.05	ETC	113.50	CLP	24.64

PLANETOCENTRIC CONIC

C3 144.823 VHL 12.034 DLA -17.55 RAL 315.79 RAD 6570.6 VEL 16.314 PTH 2.86 VHP 21.121 DPA -28.98 RAP 275.35 ECC 3.3834

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 33 59	2098.68	-16.60	34.27	205.32	113.28	10 8 58	1498.7	-13.31	27.14
90.00	16 45 12	614.55	25.24	305.87	218.81	103.29	16 55 26	14.5	26.82	297.55
100.00	10 45 6	1869.20	-18.39	16.58	204.50	113.99	11 16 15	1269.2	-14.99	9.44
100.00	18 16 46	5607.30	27.14	262.55	219.31	103.04	19 50 13	5007.3	28.66	254.08
110.00	11 30 54	1725.71	-22.99	3.41	202.21	116.02	11 59 40	1125.7	-19.30	356.21
110.00	19 47 27	5323.55	32.09	242.29	220.60	102.45	21 16 11	4723.6	33.47	233.33

DIFFERENTIAL CORRECTIONS

TDE	-.5065	TRA	-1.6144	TC3	-.1324	BAU	.2574
RDE	-.8747	RRA	.3946	RC3	-.0120	FAU	.01336
FDE	.2689	FRA	.7098	FC3	-.0799	BSP	2483
BDE	1.0108	BRA	1.6619	BC3	.1330	FSP	-79

MID-COURSE EXECUTION ACCURACY

SGT	899.8	SGR	461.6	SG3	36.6		
RRT	-.1184	RRF	.1131	RTF	-.6708		
SGB	1011.3	R23	-.0061	R13	.6716		
SG1	902.0	SG2	457.2	THA	175.32		

ORBIT DETERMINATION ACCURACY

ST	341.7	SR	420.6	SS	303.9		
CRT	.5994	CRS	.6713	CST	.9937		
LSA	561.4	MSA	265.8	SSA	14.2		
EL1	487.9	EL2	235.8	ALF	54.63		

LAUNCH DATE OCT 10 1965 FLIGHT TIME 76.00 ARRIVAL DATE DEC 25 1965

DISTANCE 158.134

HELIOCENTRIC CONIC

RL	149.37	LAL	.00	LOL	16.48	VL	20.261	GAL	13.78	AZL	90.20	HCA	57.10	SMA	97.12	ECC	.57420	INC	.1970	V1	29.830
RP	107.81	LAP	-.17	LOP	73.58	VP	33.098	GAP	-34.54	AZP	90.11	TAL	169.28	TAP	226.37	RCA	41.35	APO	152.89	V2	35.149
RC	57.879	GL	-.34	GP	-4.71	ZAL	62.33	ZAP	23.59	ETS	165.93	ZAE	144.80	ETE	187.85	ZAC	22.02	ETC	117.31	CLP	23.15

PLANETOCENTRIC CONIC

C3 131.303 VHL 11.459 DLA -16.91 RAL 316.72 RAD 6570.4 VEL 15.895 PTH 2.81 VHP 20.259 DPA -29.16 RAP 277.32 ECC 3.1609

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 31 19	2104.68	-16.76	34.64	205.05	113.16	10 6 24	1504.7	-13.48	27.50
90.00	16 55 20	5859.80	25.87	280.80	218.20	101.93	18 33 0	5259.8	27.26	272.41
100.00	10 43 1	1873.36	-18.50	16.84	204.25	113.91	11 14 14	1273.4	-15.12	9.68
100.00	18 26 19	5566.36	27.74	259.65	218.64	101.62	19 59 6	4966.4	29.06	251.10
110.00	11 29 58	1726.25	-23.01	3.44	202.01	116.01	11 58 45	1126.3	-19.32	356.24
110.00	19 55 51	5286.23	32.61	239.50	219.76	100.88	21 23 58	4686.2	33.76	230.45

DIFFERENTIAL CORRECTIONS

TDE	-.5147	TRA	-1.6246	TC3	-.1393	BAU	.2460
RDE	-.8332	RRA	.3917	RC3	-.0150	FAU	.01358
FDE	.2865	FRA	.7370	FC3	-.0895	BSP	2598
BDE	.9794	BRA	1.6711	BC3	.1401	FSP	-87

MID-COURSE EXECUTION ACCURACY

SGT	942.9	SGR	465.5	SG3	39.7		
RRT	-.1268	RRF	.1225	RTF	-.6889		
SGB	1051.5	R23	-.0079	R13	.6898		
SG1	945.3	SG2	460.5	THA	175.30		

ORBIT DETERMINATION ACCURACY

ST	362.2	SR	421.1	SS	322.4		
CRT	.6004	CRS	.6780	CST	.9931		
LSA	581.9	MSA	271.4	SSA	14.4		
EL1	498.7	EL2	244.6	ALF	52.07		

LAUNCH DATE OCT 10 1965 FLIGHT TIME 78.00 ARRIVAL DATE DEC 27 1965

HELIOCENTRIC CONIC DISTANCE 164.381

RL	149.37	LAL	.00	LOL	16.48	VL	20.796	GAL	13.16	AZL	89.97	HCA	60.32	SMA	98.71	ECC	.54922	INC	.0252	VI	29.830
RP	107.78	LAP	.03	LOP	76.80	VP	33.439	GAP	-32.94	AZP	89.99	TAL	168.67	TAP	228.99	RCA	44.50	APO	152.92	V2	35.160
RC	56.028	GL	.05	GP	-4.89	ZAL	61.35	ZAP	22.18	ETS	164.73	ZAE	145.64	ETE	189.16	ZAC	23.09	ETC	120.81	CLP	21.66

PLANETOCENTRIC CONIC

C3 119.100 VHL 10.913 DLA -16.25 RAL 317.58 RAD 6570.2 VEL 15.506 PTH 2.77 VHP 19.428 DPA -29.33 RAP 279.32 ECC 2.9601

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 28 21	2110.18	-16.91	34.98	204.66	113.06	10 3 31	1510.2	-13.64	27.82
90.00	17 5 10	5816.07	26.45	277.73	217.41	100.49	18 42 6	5216.1	27.63	269.26
100.00	10 40 36	1877.07	-18.60	17.07	203.89	113.83	11 11 53	1277.1	-15.23	9.90
100.00	18 35 36	5524.42	28.27	256.65	217.79	100.13	20 7 41	4924.4	29.38	248.02
110.00	11 28 41	1726.41	-23.01	3.45	201.70	116.00	11 57 28	1126.4	-19.33	356.25
110.00	20 4 0	5247.84	33.06	236.59	218.74	99.22	21 31 28	4647.8	33.98	227.48

DIFFERENTIAL CORRECTIONS

TOE	-.5200	TRA	-1.6323	TC3	-.1452	BAU	.2330
ROE	-.7922	RRA	.3882	RC3	-.0184	FAU	.01384
FOE	.3047	FRA	.7646	FC3	-.1006	BSP	2775
BOE	.9476	BRA	1.6778	BC3	.1464	FSP	-97

MID-COURSE EXECUTION ACCURACY

SGT	985.8	SGR	468.7	SG3	43.1		
RRT	-.1368	RRF	.1329	RTF	-.7067		
SGB	1091.5	R23	-.0089	R13	.7076		
SG1	988.4	SG2	463.0	THA	175.23		

ORBIT DETERMINATION ACCURACY

ST	382.5	SR	420.7	SS	341.4		
CRT	.5996	CRS	.6839	CST	.9923		
LSA	602.8	MSA	276.3	SSA	14.6		
EL1	509.3	EL2	252.9	ALF	49.52		

LAUNCH DATE OCT 10 1965 FLIGHT TIME 80.00 ARRIVAL DATE DEC 29 1965

HELIOCENTRIC CONIC DISTANCE 170.699

RL	149.37	LAL	.00	LOL	16.48	VL	21.295	GAL	12.57	AZL	89.76	HCA	63.55	SMA	100.28	ECC	.52508	INC	.2416	VI	29.830
RP	107.75	LAP	.22	LOP	80.03	VP	33.763	GAP	-31.41	AZP	89.89	TAL	168.09	TAP	231.63	RCA	47.62	APO	152.93	V2	35.171
RC	54.237	GL	.48	GP	-5.08	ZAL	60.43	ZAP	20.79	ETS	163.34	ZAE	146.59	ETE	190.65	ZAC	24.27	ETC	124.00	CLP	20.19

PLANETOCENTRIC CONIC

C3 108.080 VHL 10.396 DLA -15.56 RAL 318.37 RAD 6570.1 VEL 15.147 PTH 2.72 VHP 18.627 DPA -29.50 RAP 281.33 ECC 2.7787

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 25 2	2115.28	-17.04	35.29	204.17	112.96	10 0 17	1515.3	-13.79	28.13
90.00	17 14 44	5771.36	26.97	274.56	216.45	98.98	18 50 55	5171.4	27.93	266.02
100.00	10 37 49	1880.43	-18.70	17.27	203.42	113.76	11 9 10	1280.4	-15.33	10.10
100.00	18 44 38	5481.45	28.75	253.54	216.76	98.56	20 15 59	4881.5	29.63	244.85
110.00	11 27 2	1726.26	-23.01	3.44	201.28	116.01	11 55 49	1126.3	-19.32	356.24
110.00	20 11 54	5208.38	33.45	233.58	217.54	97.47	21 38 42	4608.4	34.12	224.40

DIFFERENTIAL CORRECTIONS

TOE	-.5247	TRA	-1.6396	TC3	-.1505	BAU	.2199
ROE	-.7516	RRA	.3840	RC3	-.0224	FAU	.01412
FOE	.3235	FRA	.7932	FC3	-.1131	BSP	2957
BOE	.9166	BRA	1.6840	BC3	.1522	FSP	-107

MID-COURSE EXECUTION ACCURACY

SGT	1030.3	SGR	471.2	SG3	46.8		
RRT	-.1477	RRF	.1443	RTF	-.7237		
SGB	1132.9	R23	-.0102	R13	.7246		
SG1	1033.2	SG2	464.7	THA	175.15		

ORBIT DETERMINATION ACCURACY

ST	403.6	SR	419.5	SS	361.2		
CRT	.5980	CRS	.6892	CST	.9913		
LSA	624.8	MSA	280.6	SSA	14.8		
EL1	520.5	EL2	260.7	ALF	46.84		

LAUNCH DATE OCT 10 1965 FLIGHT TIME 82.00 ARRIVAL DATE DEC 31 1965

HELIOCENTRIC CONIC DISTANCE 177.083

RL	149.37	LAL	.00	LOL	16.48	VL	21.762	GAL	11.99	AZL	89.56	HCA	66.77	SMA	101.82	ECC	.50182	INC	.4429	VI	29.830
RP	107.72	LAP	.41	LOP	83.26	VP	34.070	GAP	-29.95	AZP	89.83	TAL	167.54	TAP	234.31	RCA	50.73	APO	152.92	V2	35.181
RC	52.511	GL	.95	GP	-5.29	ZAL	59.57	ZAP	19.43	ETS	161.71	ZAE	147.65	ETE	192.37	ZAC	25.53	ETC	126.89	CLP	18.73

PLANETOCENTRIC CONIC

C3 98.126 VHL 9.906 DLA -14.86 RAL 319.07 RAD 6569.9 VEL 14.814 PTH 2.68 VHP 17.853 DPA -29.65 RAP 283.37 ECC 2.6149

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 21 22	2120.12	-17.17	35.59	203.56	112.87	9 56 42	1520.1	-13.93	28.41
90.00	17 24 2	5725.66	27.41	271.29	215.32	97.40	18 59 28	5125.7	28.15	262.70
100.00	10 34 41	1883.56	-18.78	17.47	202.83	113.69	11 6 4	1283.6	-15.42	10.29
100.00	18 53 24	5437.45	29.15	250.34	215.57	96.92	20 24 1	4837.5	29.80	241.59
110.00	11 25 0	1725.92	-23.00	3.42	200.74	116.02	11 53 46	1125.9	-19.31	356.22
110.00	20 19 34	5167.85	33.77	230.46	216.17	95.65	21 45 42	4567.8	34.18	221.24

DIFFERENTIAL CORRECTIONS

TOE	-.5289	TRA	-1.6464	TC3	-.1551	BAU	.2065
ROE	-.7117	RRA	.3794	RC3	-.0271	FAU	.01444
FOE	.3433	FRA	.8227	FC3	-.1274	BSP	3140
BOE	.8867	BRA	1.6896	BC3	.1574	FSP	-118

MID-COURSE EXECUTION ACCURACY

SGT	1076.4	SGR	473.2	SG3	50.8		
RRT	-.1596	RRF	.1568	RTF	-.7400		
SGB	1175.8	R23	-.0116	R13	.7410		
SG1	1079.7	SG2	465.7	THA	175.07		

ORBIT DETERMINATION ACCURACY

ST	425.5	SR	417.2	SS	381.9		
CRT	.5960	CRS	.6938	CST	.9904		
LSA	648.1	MSA	284.0	SSA	15.0		
EL1	532.4	EL2	267.8	ALF	44.06		

LAUNCH DATE OCT 10 1965 FLIGHT TIME 84.00 ARRIVAL DATE JAN 2 1966

HELIOCENTRIC CONIC DISTANCE 183.528

RL	149.37	LAL	.00	LOL	16.48	VL	22.197	GAL	11.43	AZL	89.37	HCA	70.00	SMA	103.34	ECC	.47945	INC	.6347	VI	29.830
RP	107.69	LAP	.60	LOP	86.48	VP	34.360	GAP	-28.56	AZP	89.78	TAL	167.02	TAP	237.02	RCA	53.79	APO	152.89	V2	35.191
RC	50.858	GL	1.46	GP	-5.52	ZAL	58.78	ZAP	18.11	ETS	159.78	ZAE	148.81	ETE	194.35	ZAC	26.88	ETC	129.50	CLP	17.27

PLANETOCENTRIC CONIC

C3 89.134 VHL 9.441 DLA -14.13 RAL 319.70 RAD 6569.7 VEL 14.508 PTH 2.63 VHP 17.105 DPA -29.80 RAP 285.42 ECC 2.4669

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 17 18	2124.83	-17.29	35.88	202.86	112.78	9 52 43	1524.8	-14.06	28.69
90.00	17 33 6	5678.94	27.78	267.92	214.03	95.75	19 7 45	5078.9	28.28	259.29
100.00	10 31 9	1886.60	-18.87	17.65	202.15	113.63	11 2 35	1286.6	-15.51	10.47
100.00	19 1 57	5392.40	29.48	247.03	214.22	95.21	20 31 49	4792.4	29.89	238.25
110.00	11 22 34	1725.52	-22.98	3.40	200.11	116.03	11 51 20	1125.5	-19.30	356.20
110.00	20 27 0	5126.24	34.00	227.23	214.63	93.75	21 52 27	4526.2	34.15	217.99

DIFFERENTIAL CORRECTIONS

TOE	-.5350	TRA	-1.6549	TC3	-.1598	BAU	.1943
ROE	-.6722	RRA	.3745	RC3	-.0325	FAU	.01479
FOE	.3644	FRA	.8536	FC3	-.1436	BSP	3275
BOE	.8591	BRA	1.6968	BC3	.1630	FSP	-129

MID-COURSE EXECUTION ACCURACY

SGT	1126.5	SGR	474.5	SG3	55.2		
RRT	-.1716	RRF	.1704	RTF	-.7552		
SGB	1222.4	R23	-.0142	R13	.7562		
SG1	1130.1	SG2	466.0	THA	175.02		

ORBIT DETERMINATION ACCURACY

ST	449.5	SR	414.0	SS	403.8		
CRT	.5945	CRS	.6979	CST	.9895		
LSA	673.9	MSA	286.5	SSA	15.2		
EL1	546.2	EL2	273.9	ALF	41.05		

LAUNCH DATE OCT 10 1965 FLIGHT TIME 86.00 ARRIVAL DATE JAN 4 1966

HELIOCENTRIC CONIC DISTANCE 190.027

RL	149.37	LAL	.00	LOL	16.48	VL	22.604	GAL	10.88	AZL	89.18	HCA	73.23	SMA	104.83	ECC	.45799	INC	.8188	V1	29.830
RP	107.66	LAP	.78	LOP	89.72	VP	34.633	GAP	-27.22	AZP	89.76	TAL	166.54	TAP	239.78	RCA	56.82	APO	152.84	V2	35.200
RC	49.288	GL	2.02	GP	-5.77	ZAL	58.05	ZAP	16.82	ETS	157.48	ZAE	150.08	ETE	196.66	ZAC	28.29	ETC	131.85	CLP	15.82

PLANETOCENTRIC CONIC

C3 81.012 VHL 9.001 OLA -13.38 RAL 320.25 RAD 6569.6 VEL 14.225 PTH 2.59 VHP 16.384 OPA -29.94 RAP 287.48 ECC 2.3333

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 12 51	2129.58	-17.42	36.17	202.05	112.68	9 48 20	1529.6	-14.20	28.98
90.00	17 41 56	5631.18	28.05	264.45	212.58	94.03	19 15 47	5031.2	28.32	255.79
100.00	10 27 12	1889.70	-18.95	17.85	201.36	113.56	10 58 41	1289.7	-15.60	10.65
100.00	19 10 16	5346.29	29.71	243.62	212.70	93.43	20 39 23	4746.3	29.87	234.82
110.00	11 19 43	1725.18	-22.97	3.38	199.37	116.04	11 48 28	1125.2	-19.29	356.18
110.00	20 34 14	5083.57	34.14	223.91	212.94	91.79	21 58 58	4483.6	34.01	214.66

DIFFERENTIAL CORRECTIONS

TDE	-.5382	TRA	-1.6603	TC3	-.1623	BAU	.1808	SGT	1176.0	SGR	475.2	SG3	60.0
RDE	-.6334	RRA	.3692	RC3	-.0388	FAU	.01518	RRT	-.1859	RRF	.1857	RTF	-.7701
FDE	.3864	FRA	.8855	FC3	-.1622	BSP	3471	SGB	1268.4	R23	-.0162	R13	.7711
BDE	.8312	BRA	1.7009	BC3	.1669	FSP	-143	SG1	1179.9	SG2	465.4	THA	174.91

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

ST	473.0	SR	409.7	SS	426.5
CRT	.5912	CRS	.7012	CST	.9883
LSA	700.0	MSA	288.4	SSA	15.3
EL1	560.0	EL2	279.0	ALF	38.15

LAUNCH DATE OCT 10 1965 FLIGHT TIME 88.00 ARRIVAL DATE JAN 6 1966

HELIOCENTRIC CONIC DISTANCE 196.576

RL	149.37	LAL	.00	LOL	16.48	VL	22.984	GAL	10.35	AZL	89.00	HCA	76.47	SMA	106.28	ECC	.43745	INC	.9969	V1	29.830
RP	107.63	LAP	.97	LOP	92.95	VP	34.891	GAP	-25.93	AZP	89.77	TAL	166.10	TAP	242.57	RCA	59.79	APO	152.77	V2	35.209
RC	47.809	GL	2.63	GP	-6.05	ZAL	57.39	ZAP	15.57	ETS	154.72	ZAE	151.44	ETE	199.37	ZAC	29.76	ETC	133.97	CLP	14.38

PLANETOCENTRIC CONIC

C3 73.678 VHL 8.584 OLA -12.59 RAL 320.72 RAD 6569.4 VEL 13.965 PTH 2.55 VHP 15.687 OPA -30.08 RAP 289.56 ECC 2.2125

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 7 56	2134.56	-17.55	36.48	201.15	112.58	9 43 31	1534.6	-14.34	29.27
90.00	17 50 35	5582.36	28.23	260.89	210.98	92.25	19 23 37	4982.4	28.25	252.22
100.00	10 22 48	1893.04	-19.04	18.05	200.48	113.49	10 54 21	1293.0	-15.70	10.85
100.00	19 18 24	5299.11	29.85	240.12	211.05	91.59	20 46 43	4699.1	29.76	231.32
110.00	11 16 25	1725.09	-22.97	3.37	198.54	116.04	11 45 10	1125.1	-19.28	356.17
110.00	20 41 16	5039.83	34.18	220.49	211.11	89.77	22 5 16	4439.8	33.77	211.27

DIFFERENTIAL CORRECTIONS

TDE	-.5415	TRA	-1.6650	TC3	-.1637	BAU	.1675	SGT	1227.4	SGR	475.4	SG3	65.2
RDE	-.5951	RRA	.3638	RC3	-.0461	FAU	.01562	RRT	-.2015	RRF	.2026	RTF	-.7841
FDE	.4097	FRA	.9187	FC3	-.1835	BSP	3668	SGB	1316.2	R23	-.0186	R13	.7852
BDE	.8046	BRA	1.7043	BC3	.1700	FSP	-157	SG1	1231.7	SG2	464.0	THA	174.80

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

ST	497.4	SR	404.2	SS	450.4
CRT	.5874	CRS	.7039	CST	.9872
LSA	727.8	MSA	289.3	SSA	15.5
EL1	575.1	EL2	282.9	ALF	35.20

LAUNCH DATE OCT 10 1965 FLIGHT TIME 90.00 ARRIVAL DATE JAN 8 1966

HELIOCENTRIC CONIC DISTANCE 203.170

RL	149.37	LAL	.00	LOL	16.48	VL	23.338	GAL	9.84	AZL	88.83	HCA	79.70	SMA	107.69	ECC	.41782	INC	1.1703	V1	29.830
RP	107.61	LAP	1.15	LOP	96.18	VP	35.133	GAP	-24.70	AZP	89.79	TAL	165.70	TAP	245.40	RCA	62.70	APO	152.69	V2	35.217
RC	46.433	GL	3.29	GP	-6.36	ZAL	56.80	ZAP	14.39	ETS	151.38	ZAE	152.87	ETE	202.57	ZAC	31.29	ETC	135.86	CLP	12.93

PLANETOCENTRIC CONIC

C3 67.058 VHL 8.189 OLA -11.77 RAL 321.10 RAD 6569.3 VEL 13.726 PTH 2.51 VHP 15.015 OPA -30.23 RAP 291.65 ECC 2.1036

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 2 34	2139.98	-17.69	36.81	200.16	112.48	9 38 14	1540.0	-14.49	29.60
90.00	17 59 2	5532.47	28.31	257.24	209.25	90.43	19 31 15	4932.5	28.07	248.59
100.00	10 17 56	1896.83	-19.14	18.29	199.51	113.41	10 49 33	1296.8	-15.81	11.08
100.00	19 26 22	5250.86	29.89	236.53	209.25	89.70	20 53 52	4650.9	29.53	227.75
110.00	11 12 40	1725.42	-22.98	3.39	197.62	116.03	11 41 25	1125.4	-19.29	356.19
110.00	20 48 7	4995.04	34.12	216.99	209.14	87.70	22 11 22	4395.0	33.42	207.82

DIFFERENTIAL CORRECTIONS

TDE	-.5442	TRA	-1.6685	TC3	-.1632	BAU	.1542	SGT	1280.0	SGR	475.1	SG3	70.9
RDE	-.5574	RRA	.3584	RC3	-.0544	FAU	.01611	RRT	-.2190	RRF	.2215	RTF	-.7976
FDE	.4346	FRA	.9534	FC3	-.2079	BSP	3872	SGB	1365.3	R23	-.0212	R13	.7987
BDE	.7790	BRA	1.7066	BC3	.1720	FSP	-174	SG1	1284.9	SG2	461.8	THA	174.66

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

ST	522.5	SR	397.5	SS	475.5
CRT	.5827	CRS	.7059	CST	.9859
LSA	757.1	MSA	289.4	SSA	15.6
EL1	591.2	EL2	285.5	ALF	32.30

LAUNCH DATE OCT 10 1965 FLIGHT TIME 92.00 ARRIVAL DATE JAN 10 1966

HELIOCENTRIC CONIC DISTANCE 209.803

RL	149.37	LAL	.00	LOL	16.48	VL	23.668	GAL	9.34	AZL	88.66	HCA	82.94	SMA	109.07	ECC	.39911	INC	1.3403	V1	29.830
RP	107.58	LAP	1.33	LOP	99.42	VP	35.361	GAP	-23.51	AZP	89.84	TAL	165.34	TAP	248.28	RCA	65.54	APO	152.60	V2	35.224
RC	45.168	GL	4.01	GP	-6.69	ZAL	56.28	ZAP	13.27	ETS	147.35	ZAE	154.33	ETE	206.37	ZAC	32.86	ETC	137.56	CLP	11.49

PLANETOCENTRIC CONIC

C3 61.089 VHL 7.816 OLA -10.92 RAL 321.41 RAD 6569.1 VEL 13.507 PTH 2.47 VHP 14.365 OPA -30.37 RAP 293.74 ECC 2.0054

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 56 41	2146.07	-17.85	37.19	199.09	112.35	9 32 27	1546.1	-14.66	29.96
90.00	18 7 21	5481.50	28.28	253.52	207.39	88.56	19 38 43	4881.5	27.78	244.89
100.00	10 12 33	1901.28	-19.26	18.56	198.46	113.31	10 44 15	1301.3	-15.95	11.34
100.00	19 34 10	5201.52	29.82	232.87	207.34	87.78	21 0 51	4601.5	29.19	224.12
110.00	11 8 25	1726.37	-23.01	3.45	196.61	116.00	11 37 11	1126.4	-19.33	356.25
110.00	20 54 48	4949.19	33.93	213.43	207.05	85.60	22 17 17	4349.2	32.95	204.33

DIFFERENTIAL CORRECTIONS

TDE	-.5469	TRA	-1.6712	TC3	-.1609	BAU	.1414	SGT	1334.4	SGR	474.4	SG3	77.1
RDE	-.5203	RRA	.3532	RC3	-.0639	FAU	.01664	RRT	-.2384	RRF	.2427	RTF	-.8103
FDE	.4613	FRA	.9899	FC3	-.2359	BSP	4075	SGB	1416.2	R23	-.0243	R13	.8115
BDE	.7549	BRA	1.7081	BC3	.1731	FSP	-191	SG1	1339.8	SG2	458.8	THA	174.51

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

ST	548.5	SR	389.6	SS	502.1
CRT	.5772	CRS	.7070	CST	.9846
LSA	788.2	MSA	288.5	SSA	15.7
EL1	608.6	EL2	286.7	ALF	29.42

LAUNCH DATE OCT 10 1965 FLIGHT TIME 94.00 ARRIVAL DATE JAN 12 1966

HELIOCENTRIC CONIC DISTANCE 216,472

RL	149.37	LAL	.00	LOL	16.48	VL	23,976	GAL	8.86	AZL	88.49	HCA	86.18	SMA	110.40	ECC	.38130	INC	1.5079	V1	29.830
RP	107.56	LAP	1.50	LOP	102.66	VP	35.574	GAP	-22.37	AZP	89.90	TAL	165.03	TAP	251.21	RCA	68.30	APO	152.50	V2	35.231
RC	44.025	GL	4.79	GP	-7.06	ZAL	55.84	ZAP	12.25	ETS	142.45	ZAE	155.79	ETE	210.88	ZAC	34.48	ETC	139.08	CLP	10.04

PLANETOCENTRIC CONIC

C3	55.710	VHL	7.464	DLA	-10.02	RAL	321.63	RAD	6569.0	VEL	13.307	PTH	2.43	VHP	13.738	DPA	-30.53	RAP	295.84	ECC	1.9169

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 50 16	2153.08	-18.03	37.62	197.94	112.21	9 26 9	1553.1	-14.86	30.38
90.00	18 15 32	5429.42	28.14	249.71	205.42	86.66	19 46 2	4829.4	27.37	241.13
100.00	10 6 38	1906.63	-19.41	18.90	197.33	113.19	10 38 25	1306.6	-16.10	11.66
100.00	19 41 50	5151.10	29.63	229.13	205.31	85.82	21 7 41	4551.1	28.73	220.44
110.00	11 3 38	1728.18	-23.06	3.56	195.54	115.96	11 32 26	1128.2	-19.36	356.36
110.00	21 1 20	4902.31	33.63	209.80	204.87	83.47	22 23 2	4302.3	32.36	200.80

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY				ORBIT DETERMINATION ACCURACY			
TDE	-.5495	TRA	-1.6726	TC3	-.1562	BAU	.1290	SGT	1390.1	SGR	473.3	SG3	83.9	ST	575.3	SR	380.2	SS	530.2
RDE	-.4837	RRA	.3482	RC3	-.0749	FAU	.01724	RRT	-.2602	RRF	.2664	RTF	-.8223	CRT	.5706	CRS	.7072	CST	.9833
FDE	.4902	FRA	1.0283	FC3	-.2679	BSP	4287	SGB	1468.5	R23	-.0277	R13	.8236	LSA	821.1	MSA	286.9	SSA	15.9
BDE	.7321	BRA	1.7085	BC3	.1732	FSP	-211	SG1	1396.2	SG2	455.0	THA	174.33	EL1	627.3	EL2	286.3	ALF	26.62

LAUNCH DATE OCT 10 1965 FLIGHT TIME 96.00 ARRIVAL DATE JAN 14 1966

HELIOCENTRIC CONIC DISTANCE 223.170

RL	149.37	LAL	.00	LOL	16.48	VL	24.263	GAL	8.40	AZL	88.33	HCA	89.42	SMA	111.69	ECC	.36439	INC	1.6743	V1	29.830
RP	107.55	LAP	1.67	LOP	105.90	VP	35.774	GAP	-21.27	AZP	89.98	TAL	164.76	TAP	254.17	RCA	70.99	APO	152.38	V2	35.237
RC	43.015	GL	5.64	GP	-7.47	ZAL	55.47	ZAP	11.36	ETS	136.53	ZAE	157.19	ETE	216.26	ZAC	36.14	ETC	140.43	CLP	8.58

PLANETOCENTRIC CONIC

C3	50.870	VHL	7.132	DLA	-9.08	RAL	321.77	RAD	6568.9	VEL	13.124	PTH	2.40	VHP	13.133	DPA	-30.69	RAP	297.95	ECC	1.8372

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 43 15	2161.27	-18.24	38.13	196.73	112.04	9 19 17	1561.3	-15.09	30.87
90.00	18 23 37	5376.23	27.86	245.85	203.36	84.74	19 53 14	4776.2	26.84	237.33
100.00	10 0 10	1913.16	-19.58	19.30	196.14	113.05	10 32 3	1313.2	-16.29	12.05
100.00	19 49 24	5099.58	29.31	225.33	203.20	83.84	21 14 24	4499.6	28.15	216.72
110.00	10 58 18	1731.09	-23.15	3.74	194.40	115.88	11 27 10	1131.1	-19.48	356.53
110.00	21 7 45	4854.41	33.20	206.13	202.61	81.34	22 28 39	4254.4	31.64	197.24

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY				ORBIT DETERMINATION ACCURACY			
TDE	-.5524	TRA	-1.6728	TC3	-.1490	BAU	.1174	SGT	1447.1	SGR	472.2	SG3	91.4	ST	603.0	SR	369.2	SS	560.3
RDE	-.4476	RRA	.3436	RC3	-.0873	FAU	.01789	RRT	-.2845	RRF	.2931	RTF	-.8337	CRT	.5629	CRS	.7062	CST	.9819
FDE	.5216	FRA	1.0688	FC3	-.3045	BSP	4497	SGB	1522.1	R23	-.0317	R13	.8351	LSA	856.0	MSA	284.2	SSA	16.0
BDE	.7109	BRA	1.7077	BC3	.1727	FSP	-233	SG1	1454.0	SG2	450.5	THA	174.13	EL1	647.4	EL2	284.2	ALF	23.90

LAUNCH DATE OCT 10 1965 FLIGHT TIME 98.00 ARRIVAL DATE JAN 16 1966

HELIOCENTRIC CONIC DISTANCE 229.894

RL	149.37	LAL	.00	LOL	16.48	VL	24.530	GAL	7.96	AZL	88.16	HCA	92.66	SMA	112.93	ECC	.34835	INC	1.8406	V1	29.830
RP	107.53	LAP	1.84	LOP	109.14	VP	35.961	GAP	-20.21	AZP	90.09	TAL	164.53	TAP	257.19	RCA	73.59	APO	152.28	V2	35.242
RC	42.147	GL	6.57	GP	-7.93	ZAL	55.18	ZAP	10.63	ETS	129.49	ZAE	158.44	ETE	222.61	ZAC	37.82	ETC	141.63	CLP	7.11

PLANETOCENTRIC CONIC

C3	46.521	VHL	6.821	DLA	-8.09	RAL	321.82	RAD	6568.7	VEL	12.957	PTH	2.36	VHP	12.550	DPA	-30.88	RAP	300.05	ECC	1.7656

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 35 38	2170.94	-18.49	38.74	195.46	111.84	9 11 49	1570.9	-15.36	31.46
90.00	18 31 39	5321.90	27.46	241.92	201.22	82.81	20 0 21	4721.9	26.18	233.49
100.00	9 53 4	1921.13	-19.79	19.80	194.89	112.87	10 25 5	1321.1	-16.53	12.53
100.00	19 56 54	5046.94	28.86	221.48	201.01	81.87	21 21 1	4446.9	27.44	212.97
110.00	10 52 24	1735.36	-23.28	4.01	193.20	115.77	11 21 19	1135.4	-19.62	356.78
110.00	21 14 4	4805.47	32.63	202.42	200.28	79.21	22 34 9	4205.5	30.80	193.68

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY				ORBIT DETERMINATION ACCURACY			
TDE	-.5556	TRA	-1.6719	TC3	-.1387	BAU	.1069	SGT	1505.3	SGR	471.0	SG3	99.7	ST	631.6	SR	356.6	SS	592.3
RDE	-.4118	RRA	.3397	RC3	-.1014	FAU	.01862	RRT	-.3120	RRF	.3232	RTF	-.8444	CRT	.5535	CRS	.7035	CST	.9805
FDE	.5560	FRA	1.1117	FC3	-.3465	BSP	4714	SGB	1577.3	R23	-.0363	R13	.8460	LSA	893.2	MSA	280.8	SSA	16.1
BDE	.6916	BRA	1.7061	BC3	.1718	FSP	-257	SG1	1513.1	SG2	445.2	THA	173.89	EL1	668.9	EL2	280.4	ALF	21.27

LAUNCH DATE OCT 10 1965 FLIGHT TIME 100.00 ARRIVAL DATE JAN 18 1966

HELIOCENTRIC CONIC DISTANCE 236.639

RL	149.37	LAL	.00	LOL	16.48	VL	24.779	GAL	7.54	AZL	87.99	HCA	95.90	SMA	114.12	ECC	.33318	INC	2.0078	V1	29.830
RP	107.51	LAP	2.00	LOP	112.38	VP	36.136	GAP	-19.19	AZP	90.21	TAL	164.35	TAP	260.25	RCA	76.09	APO	152.14	V2	35.247
RC	41.430	GL	7.58	GP	-8.43	ZAL	54.97	ZAP	10.13	ETS	121.34	ZAE	159.46	ETE	229.98	ZAC	39.54	ETC	142.69	CLP	5.63

PLANETOCENTRIC CONIC

C3	42.621	VHL	6.529	DLA	-7.04	RAL	321.78	RAD	6568.6	VEL	12.806	PTH	2.33	VHP	11.988	DPA	-31.09	RAP	302.16	ECC	1.7014

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 27 20	2182.41	-18.77	39.45	194.15	111.59	9 3 42	1582.4	-15.68	32.15
90.00	18 39 39	5266.39	26.93	237.95	199.02	80.89	20 7 25	4666.4	25.39	229.62
100.00	9 45 19	1930.86	-20.05	20.41	193.60	112.65	10 17 29	1330.9	-16.81	13.12
100.00	20 4 21	4993.18	28.28	217.59	198.76	79.90	21 27 35	4393.2	26.60	209.20
110.00	10 45 51	1741.28	-23.45	4.38	191.96	115.61	11 14 53	1141.3	-19.81	357.13
110.00	21 20 18	4755.52	31.94	198.69	197.90	77.11	22 39 33	4155.5	29.83	190.11

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY				ORBIT DETERMINATION ACCURACY			
TDE	-.5591	TRA	-1.6695	TC3	-.1248	BAU	.0977	SGT	1564.2	SGR	470.2	SG3	108.7	ST	661.0	SR	342.1	SS	626.6
RDE	-.3763	RRA	.3365	RC3	-.1175	FAU	.01942	RRT	-.3429	RRF	.3571	RTF	-.8546	CRT	.5418	CRS	.6987	CST	.9792
FDE	.5938	FRA	1.1571	FC3	-.3945	BSP	4933	SGB	1633.4	R23	-.0415	R13	.8563	LSA	932.7	MSA	276.5	SSA	16.2
BDE	.6739	BRA	1.7030	BC3	.1714	FSP	-283	SG1	1573.2	SG2	439.2	THA	173.62	EL1	691.7	EL2	274.8	ALF	18.73

LAUNCH DATE OCT 10 1965 FLIGHT TIME 102.00 ARRIVAL DATE JAN 20 1966

HELIOCENTRIC CONIC DISTANCE 243,402

RL	149.37	LAL	.00	LOL	16.48	VL	25.010	GAL	7.13	AZL	87.82	HCA	99.14	SMA	115.26	ECC	.31886	INC	2.1770	V1	29.830
RP	107.50	LAP	2.15	LOP	115.63	VP	36.299	GAP	-18.20	AZP	90.35	TAL	164.22	TAP	263.36	RCA	78.51	APO	152.01	V2	35.251
RC	40.873	GL	8.67	GP	-8.99	ZAL	54.85	ZAP	9.89	ETS	112.30	ZAE	160.15	ETE	238.28	ZAC	41.29	ETC	143.62	CLP	4.13

PLANETOCENTRIC CONIC

C3	39.132	VHL	6.256	DLA	-5.93	RAL	321.65	RAD	6568.5	VEL	12.669	PTH	2.30	VHP	11.446	DPA	-31.33	RAP	304.26	ECC	1.6440

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 18 19	2196.00	-19.11	40.31	192.80	111.30	8 54 55	1596.0	-16.05	32.97
90.00	18 47 39	5209.69	26.25	233.93	196.78	78.98	20 14 29	4609.7	24.47	225.72
100.00	9 36 51	1942.66	-20.36	21.15	192.27	112.37	10 9 14	1342.7	-17.15	13.83
100.00	20 11 49	4938.26	27.56	213.67	196.48	77.95	21 34 7	4338.3	25.63	205.41
110.00	10 38 40	1749.14	-23.68	4.88	190.68	115.40	11 7 49	1149.1	-20.07	357.60
110.00	21 26 29	4704.54	31.10	194.95	195.50	75.04	22 44 54	4104.5	28.73	186.55

DIFFERENTIAL CORRECTIONS

TDE	-.5635	TRA	-1.6663	TC3	-.1078	BAU	.0906
RDE	-.3409	RRA	.3343	RC3	-.1356	FAU	.02030
FDE	.6358	FRA	1.2057	FC3	-.4490	BSP	5152
BDE	.6586	BRA	1.6995	BC3	.1732	FSP	-313

MID-COURSE EXECUTION ACCURACY

SGT	1624.5	SGR	470.1	SG3	118.7		
RRT	-.3775	RRF	.3952	RTF	-.8641		
SGB	1691.2	R23	-.0476	R13	.8660		
SG1	1634.9	SG2	432.6	THA	173.29		

ORBIT DETERMINATION ACCURACY

ST	691.6	SR	325.6	SS	663.7		
CRT	.5269	CRS	.6909	CST	.9778		
LSA	975.2	MSA	271.4	SSA	16.3		
EL1	716.2	EL2	267.3	ALF	16.26		

LAUNCH DATE OCT 10 1965 FLIGHT TIME 104.00 ARRIVAL DATE JAN 22 1966

HELIOCENTRIC CONIC DISTANCE 250,177

RL	149.37	LAL	.00	LOL	16.48	VL	25.225	GAL	6.74	AZL	87.65	HCA	102.38	SMA	116.35	ECC	.30536	INC	2.3494	V1	29.830
RP	107.49	LAP	2.29	LOP	118.88	VP	36.450	GAP	-17.25	AZP	90.50	TAL	164.13	TAP	266.52	RCA	80.82	APO	151.87	V2	35.254
RC	40.482	GL	9.85	GP	-9.62	ZAL	54.82	ZAP	9.97	ETS	102.85	ZAE	160.40	ETE	247.23	ZAC	43.06	ETC	144.43	CLP	2.62

PLANETOCENTRIC CONIC

C3	36.020	VHL	6.002	DLA	-4.75	RAL	321.44	RAD	6568.4	VEL	12.545	PTH	2.27	VHP	10.925	DPA	-31.62	RAP	306.37	ECC	1.5928

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 8 32	2212.06	-19.51	41.32	191.42	110.94	8 45 24	1612.1	-16.49	33.95
90.00	18 55 43	5151.73	25.43	229.89	194.51	77.11	20 21 35	4551.7	23.41	221.80
100.00	9 27 38	1956.87	-20.72	22.05	190.91	112.04	10 0 15	1356.9	-17.55	14.69
100.00	20 19 18	4882.16	26.70	209.72	194.17	76.04	21 40 40	4282.2	24.52	201.60
110.00	10 30 46	1759.27	-23.98	5.51	189.38	115.13	11 0 5	1159.3	-20.39	358.21
110.00	21 32 40	4652.53	30.13	191.21	193.10	73.03	22 50 13	4052.5	27.51	183.00

DIFFERENTIAL CORRECTIONS

TDE	-.5691	TRA	-1.6614	TC3	-.0866	BAU	.0859
RDE	-.3054	RRA	.3334	RC3	-.1560	FAU	.02126
FDE	.6827	FRA	1.2575	FC3	-.5109	BSP	5366
BDE	.6458	BRA	1.6945	BC3	.1784	FSP	-345

MID-COURSE EXECUTION ACCURACY

SGT	1684.9	SGR	471.2	SG3	129.7		
RRT	-.4162	RRF	.4377	RTF	-.8731		
SGB	1749.6	R23	-.0545	R13	.8752		
SG1	1697.1	SG2	425.4	THA	172.91		

ORBIT DETERMINATION ACCURACY

ST	723.3	SR	306.9	SS	703.7		
CRT	.5075	CRS	.6787	CST	.9766		
LSA	1020.6	MSA	265.5	SSA	16.3		
EL1	742.2	EL2	257.7	ALF	13.86		

LAUNCH DATE OCT 10 1965 FLIGHT TIME 106.00 ARRIVAL DATE JAN 24 1966

HELIOCENTRIC CONIC DISTANCE 256,963

RL	149.37	LAL	.00	LOL	16.48	VL	25.424	GAL	6.37	AZL	87.47	HCA	105.62	SMA	117.38	ECC	.29266	INC	2.5262	V1	29.830
RP	107.48	LAP	2.43	LOP	122.12	VP	36.590	GAP	-16.33	AZP	90.68	TAL	164.09	TAP	269.72	RCA	83.03	APO	151.74	V2	35.256
RC	40.263	GL	11.14	GP	-10.32	ZAL	54.88	ZAP	10.38	ETS	93.60	ZAE	160.16	ETE	256.34	ZAC	44.85	ETC	145.12	CLP	1.07

PLANETOCENTRIC CONIC

C3	33.253	VHL	5.767	DLA	-3.50	RAL	321.13	RAD	6568.3	VEL	12.435	PTH	2.25	VHP	10.425	DPA	-31.96	RAP	308.47	ECC	1.5473

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 57 55	2230.98	-19.96	42.52	190.04	110.51	8 35 6	1631.0	-16.99	35.11
90.00	19 3 54	5092.47	24.47	225.81	192.24	75.29	20 28 46	4492.5	22.21	217.87
100.00	9 17 38	1973.86	-21.15	23.13	189.55	111.63	9 50 31	1373.9	-18.03	15.72
100.00	20 26 53	4824.82	25.70	205.76	191.87	74.19	21 47 18	4224.8	23.28	197.79
110.00	10 22 7	1771.98	-24.34	6.32	188.07	114.77	10 51 39	1172.0	-20.80	358.97
110.00	21 38 53	4599.47	29.01	187.48	190.70	71.08	22 55 32	3999.5	26.16	179.47

DIFFERENTIAL CORRECTIONS

TDE	-.5771	TRA	-1.6559	TC3	-.0650	BAU	.0846
RDE	-.2695	RRA	.3339	RC3	-.1789	FAU	.02231
FDE	.7352	FRA	1.3127	FC3	-.5809	BSP	5554
BDE	.6369	BRA	1.6892	BC3	.1904	FSP	-381

MID-COURSE EXECUTION ACCURACY

SGT	1746.9	SGR	474.1	SG3	141.7		
RRT	-.4574	RRF	.4848	RTF	-.8804		
SGB	1810.1	R23	-.0647	R13	.8829		
SG1	1761.1	SG2	418.2	THA	172.50		

ORBIT DETERMINATION ACCURACY

ST	757.2	SR	285.8	SS	747.0		
CRT	.4817	CRS	.6599	CST	.9757		
LSA	1070.4	MSA	258.8	SSA	16.4		
EL1	771.1	EL2	246.0	ALF	11.49		

LAUNCH DATE OCT 10 1965 FLIGHT TIME 108.00 ARRIVAL DATE JAN 26 1966

HELIOCENTRIC CONIC DISTANCE 263,754

RL	149.37	LAL	.00	LOL	16.48	VL	25.609	GAL	6.01	AZL	87.29	HCA	108.87	SMA	118.37	ECC	.28074	INC	2.7086	V1	29.830
RP	107.48	LAP	2.56	LOP	125.37	VP	36.721	GAP	-15.45	AZP	90.88	TAL	164.10	TAP	272.97	RCA	85.14	APO	151.60	V2	35.258
RC	40.219	GL	12.52	GP	-11.11	ZAL	55.04	ZAP	11.12	ETS	85.12	ZAE	159.42	ETE	265.08	ZAC	46.66	ETC	145.71	CLP	-.49

PLANETOCENTRIC CONIC

C3	30.806	VHL	5.550	DLA	-2.17	RAL	320.74	RAD	6568.2	VEL	12.336	PTH	2.22	VHP	9.944	DPA	-32.37	RAP	310.58	ECC	1.5070

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 46 25	2253.15	-20.49	43.94	188.67	109.99	8 23 58	1653.1	-17.58	36.47
90.00	19 12 14	5031.83	23.36	221.72	189.98	73.52	20 36 6	4431.8	20.88	213.92
100.00	9 6 45	1994.01	-21.65	24.41	188.20	111.13	9 39 59	1394.0	-18.59	16.96
100.00	20 34 36	4766.20	24.55	201.78	189.58	72.39	21 54 2	4166.2	21.91	193.98
110.00	10 12 40	1787.65	-24.79	7.32	186.77	114.33	10 42 28	1187.6	-21.29	359.92
110.00	21 45 10	4545.33	27.76	183.77	188.34	69.20	23 0 55	3945.3	24.68	175.96

DIFFERENTIAL CORRECTIONS

TDE	-.5835	TRA	-1.6473	TC3	-.0309	BAU	.0852
RDE	-.2329	RRA	.3363	RC3	-.2045	FAU	.02347
FDE	.7947	FRA	1.3719	FC3	-.6595	BSP	5820
BDE	.6283	BRA	1.6813	BC3	.2068	FSP	-421

MID-COURSE EXECUTION ACCURACY

SGT	1805.5	SGR	479.6	SG3	155.0		
RRT	-.5064	RRF	.5362	RTF	-.8895		
SGB	1868.1	R23	-.0711	R13	.8922		
SG1	1822.6	SG2	409.7	THA	171.93		

ORBIT DETERMINATION ACCURACY

ST	789.6	SR	262.2	SS	794.1		
CRT	.4427	CRS	.6306	CST	.9745		
LSA	1122.0	MSA	252.0	SSA	16.3		
EL1	798.9	EL2	232.3	ALF	9.14		

LAUNCH DATE OCT 10 1965 FLIGHT TIME 110.00 ARRIVAL DATE JAN 28 1966

HELIOCENTRIC CONIC DISTANCE 270.548

RL	149.37	LAL	.00	LOL	16.48	VL	25.780	GAL	5.68	AZL	87.10	HCA	112.11	SMA	119.31	ECC	.26958	INC	2.8983	V1	29.830
RP	107.48	LAP	2.68	LOP	128.62	VP	36.841	GAP	-14.59	AZP	91.09	TAL	164.15	TAP	276.26	RCA	87.14	APO	151.47	V2	35.259
RC	40.350	GL	14.02	GP	-12.00	ZAL	55.30	ZAP	12.18	ETS	77.77	ZAE	158.21	ETE	272.99	ZAC	48.50	ETC	146.19	CLP	-2.10

PLANETOCENTRIC CONIC

C3	28.655	VHL	5.353	DLA	-.75	RAL	320.25	RAD	6568.2	VEL	12.249	PTH	2.20	VHP	9.484	DPA	-32.85	RAP	312.69	ECC	1.4716

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 33 57	2278.99	-21.08	45.60	187.32	109.36	8 11 56	1679.0	-18.25	38.07
90.00	19 20 49	4969.73	22.10	217.60	187.75	71.83	20 43 39	4369.7	19.41	209.96
100.00	8 54 57	2017.73	-22.23	25.94	186.87	110.52	9 28 34	1417.7	-19.23	18.42
100.00	20 42 31	4706.22	23.26	197.80	187.33	70.67	22 0 57	4106.2	20.41	190.16
110.00	10 2 23	1806.62	-25.31	8.55	185.49	113.78	10 32 30	1206.6	-21.88	1.08
110.00	21 51 33	4490.09	26.37	180.08	186.02	67.42	23 6 24	3890.1	23.08	172.47

DIFFERENTIAL CORRECTIONS

TDE	-.5938	TRA	-1.6390	TC3	.0030	BAU	.0893												
RDE	-.1952	RRA	.3408	RC3	-.2331	FAU	.02472												
FDE	.8622	FRA	1.4354	FC3	-.7470	BSP	6035												
BDE	.6250	BRA	1.6740	BC3	.2331	FSP	-464												

MID-COURSE EXECUTION ACCURACY

SGT	1866.0	SGR	488.9	SG3	169.6						
RRT	-.5570	RRF	.5912	RTF	-.8969						
SGB	1928.9	R23	-.0812	R13	.9000						
SG1	1886.7	SG2	401.6	THA	171.30						

ORBIT DETERMINATION ACCURACY

ST	825.2	SR	236.0	SS	845.6						
CRT	.3861	CRS	.5839	CST	.9738						
LSA	1179.6	MSA	244.7	SSA	16.3						
EL1	830.6	EL2	216.3	ALF	6.76						

LAUNCH DATE OCT 10 1965 FLIGHT TIME 112.00 ARRIVAL DATE JAN 30 1966

HELIOCENTRIC CONIC DISTANCE 277.342

RL	149.37	LAL	.00	LOL	16.48	VL	25.938	GAL	5.36	AZL	86.90	HCA	115.35	SMA	120.19	ECC	.25914	INC	3.0969	V1	29.830
RP	107.48	LAP	2.80	LOP	131.87	VP	36.952	GAP	-13.76	AZP	91.33	TAL	164.24	TAP	279.59	RCA	89.04	APO	151.34	V2	35.259
RC	40.657	GL	15.64	GP	-13.00	ZAL	55.67	ZAP	13.52	ETS	71.63	ZAE	156.61	ETE	279.79	ZAC	50.36	ETC	146.57	CLP	-3.74

PLANETOCENTRIC CONIC

C3	26.780	VHL	5.175	DLA	.76	RAL	319.67	RAD	6568.1	VEL	12.172	PTH	2.18	VHP	9.045	DPA	-33.43	RAP	314.80	ECC	1.4407

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 20 27	2308.96	-21.74	47.55	186.00	108.60	7 58 56	1709.0	-19.00	39.95
90.00	19 29 42	4906.04	20.69	213.46	185.58	70.23	20 51 28	4306.0	17.81	205.97
100.00	8 42 8	2045.45	-22.88	27.74	185.57	109.78	9 16 14	1445.4	-19.97	20.15
100.00	20 50 42	4644.79	21.82	193.80	185.13	69.04	22 8 6	4044.8	18.77	186.33
110.00	9 51 12	1829.30	-25.93	10.02	184.26	113.10	10 21 41	1229.3	-22.57	2.47
110.00	21 58 8	4433.70	24.84	176.41	183.76	65.73	23 12 2	3833.7	21.35	168.99

DIFFERENTIAL CORRECTIONS

TDE	-.6060	TRA	-1.6287	TC3	.0409	BAU	.0959												
RDE	-.1558	RRA	.3479	RC3	-.2648	FAU	.02608												
FDE	.9391	FRA	1.5032	FC3	-.8432	BSP	6257												
BDE	.6257	BRA	1.6655	BC3	.2679	FSP	-512												

MID-COURSE EXECUTION ACCURACY

SGT	1924.7	SGR	503.2	SG3	185.6						
RRT	-.6099	RRF	.6486	RTF	-.9038						
SGB	1989.4	R23	-.0925	R13	.9075						
SG1	1950.1	SG2	393.6	THA	170.55						

ORBIT DETERMINATION ACCURACY

ST	861.9	SR	207.8	SS	901.7						
CRT	.2969	CRS	.5064	CST	.9732						
LSA	1242.0	MSA	237.2	SSA	16.1						
EL1	864.3	EL2	197.9	ALF	4.32						

LAUNCH DATE OCT 10 1965 FLIGHT TIME 114.00 ARRIVAL DATE FEB 1 1966

HELIOCENTRIC CONIC DISTANCE 284.132

RL	149.37	LAL	.00	LOL	16.48	VL	26.084	GAL	5.05	AZL	86.69	HCA	118.60	SMA	121.02	ECC	.24942	INC	3.3065	V1	29.830
RP	107.48	LAP	2.90	LOP	135.12	VP	37.054	GAP	-12.96	AZP	91.58	TAL	164.37	TAP	282.97	RCA	90.84	APO	151.21	V2	35.258
RC	41.135	GL	17.38	GP	-14.14	ZAL	56.14	ZAP	15.12	ETS	66.66	ZAE	154.69	ETE	285.42	ZAC	52.26	ETC	146.86	CLP	-5.42

PLANETOCENTRIC CONIC

C3	25.164	VHL	5.016	DLA	2.37	RAL	319.00	RAD	6568.0	VEL	12.105	PTH	2.17	VHP	8.627	DPA	-34.13	RAP	316.93	ECC	1.4141

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 5 49	2343.57	-22.48	49.82	184.75	107.69	7 44 52	1743.6	-19.85	42.14
90.00	19 39 0	4840.64	19.13	209.30	183.47	68.71	20 59 40	4240.6	16.07	201.96
100.00	8 28 15	2077.64	-23.60	29.86	184.34	108.89	9 2 53	1477.6	-20.81	22.1
100.00	20 59 14	4581.81	20.23	189.80	183.00	67.51	22 15 36	3981.8	17.01	182.49
110.00	9 39 2	1856.10	-26.63	11.79	183.09	112.27	10 9 58	1256.1	-23.37	4.14
110.00	22 4 56	4376.10	23.18	172.76	181.58	64.14	23 17 52	3776.1	19.51	165.54

DIFFERENTIAL CORRECTIONS

TDE	-.6212	TRA	-1.6177	TC3	.0821	BAU	.1045												
RDE	-.1138	RRA	.3581	RC3	-.2997	FAU	.02755												
FDE	1.0273	FRA	1.5757	FC3	-.9477	BSP	6470												
BDE	.6315	BRA	1.6569	BC3	.3108	FSP	-565												

MID-COURSE EXECUTION ACCURACY

SGT	1982.4	SGR	524.3	SG3	203.1						
RRT	-.6634	RRF	.7065	RTF	-.9103						
SGB	2050.6	R23	-.1052	R13	.9145						
SG1	2013.9	SG2	386.2	THA	169.66						

ORBIT DETERMINATION ACCURACY

ST	900.7	SR	179.1	SS	963.1						
CRT	.1493	CRS	.3713	CST	.9730						
LSA	1310.7	MSA	229.8	SSA	15.9						
EL1	901.1	EL2	177.0	ALF	1.77						

LAUNCH DATE OCT 10 1965 FLIGHT TIME 116.00 ARRIVAL DATE FEB 3 1966

HELIOCENTRIC CONIC DISTANCE 290.917

RL	149.37	LAL	.00	LOL	16.48	VL	26.218	GAL	4.77	AZL	86.47	HCA	121.84	SMA	121.80	ECC	.24037	INC	3.5294	V1	29.830
RP	107.48	LAP	3.00	LOP	138.37	VP	37.148	GAP	-12.19	AZP	91.86	TAL	164.54	TAP	286.38	RCA	92.53	APO	151.08	V2	35.257
RC	41.780	GL	19.25	GP	-15.43	ZAL	56.73	ZAP	16.97	ETS	62.71	ZAE	152.55	ETE	289.92	ZAC	54.18	ETC	147.04	CLP	-7.15

PLANETOCENTRIC CONIC

C3	23.795	VHL	4.878	DLA	4.09	RAL	318.24	RAD	6568.0	VEL	12.049	PTH	2.15	VHP	8.231	DPA	-34.97	RAP	319.07	ECC	1.3916

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 49 56	2383.37	-23.27	52.47	183.58	106.60	7 29 39	1783.4	-20.78	44.68
90.00	19 48 48	4773.35	17.41	205.11	181.46	67.31	21 8 22	4173.3	14.19	197.91
100.00	8 13 12	2114.82	-24.40	32.33	183.20	107.82	8 48 26	1514.8	-21.73	24.55
100.00	21 8 14	4517.13	18.50	185.78	180.97	66.09	22 23 31	3917.1	15.11	178.62
110.00	9 25 50	1887.47	-27.42	13.88	182.01	111.26	9 57 18	1287.5	-24.28	6.12
110.00	22 12 5	4317.24	21.39	169.13	179.49	62.68	23 24 2	3717.2	17.55	162.10

DIFFERENTIAL CORRECTIONS

TDE	-.6396	TRA	-1.6052	TC3	.1258	BAU	.1147												
RDE	-.0684	RRA	.3720	RC3	-.3381	FAU	.02910												
FDE	1.1288	FRA	1.6528	FC3	-1.0589	BSP	6680												
BDE	.6433	BRA	1.6478	BC3	.3607	FSP	-623												

MID-COURSE EXECUTION ACCURACY

SGT	2037.8	SGR	554.2	SG3	222.2						
RRT	-.7156	RRF	.7625	RTF	-.9163						
SGB	2111.8	R23	-.1191	R13	.9213						
SG1	2077.4	SG2	379.7	THA	168.60						

ORBIT DETERMINATION ACCURACY

ST	941.3	SR	154.4	SS	1030.5						
CRT	-.0975	CRS	.1320	CST	.9731						
LSA	1386.4	MSA	222.5	SSA	15.6						
EL1	941.4	EL2	153.6	ALF	179.06						

LAUNCH DATE OCT 10 1965 FLIGHT TIME 118.00 ARRIVAL DATE FEB 5 1966

DISTANCE 297.694

HELIOCENTRIC CONIC

RL	149.37	LAL	.00	LOL	16.48	VL	26.342	GAL	4.50	AZL	86.23	HCA	125.08	SMA	122.54	ECC	.23197	INC	3.7685	VI	29.830
RP	107.49	LAP	3.08	LOP	141.62	VP	37.233	GAP	-11.44	AZP	92.17	TAL	164.74	TAP	289.82	RCA	94.11	APO	150.96	V2	35.255
RC	42.583	GL	21.26	GP	-16.90	ZAL	57.43	ZAP	19.06	ETS	59.61	ZAE	150.25	ETE	293.41	ZAC	56.14	ETC	147.13	CLP	-8.93

PLANETOCENTRIC CONIC

C3	22.662	VHL	4.760	DLA	5.92	RAL	317.39	RAD	6567.9	VEL	12.002	PTH	2.14	VHP	7.858	DPA	-35.97	RAP	321.25	ECC	1.3730

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 32 41	2429.00	-24.13	55.54	182.52	105.29	7 13 10	1829.0	-21.80	47.64
90.00	19 59 17	4703.93	15.54	200.87	179.56	66.03	21 17 40	4103.9	12.17	193.82
100.00	7 56 50	2157.59	-25.26	35.22	182.16	106.54	8 32 48	1557.6	-22.75	27.32
100.00	21 17 49	4450.58	16.61	181.73	179.05	64.79	22 31 59	3850.6	13.08	174.72
110.00	9 11 30	1923.90	-28.30	16.36	181.04	110.03	9 43 34	1323.9	-25.31	8.46
110.00	22 19 38	4257.04	19.46	165.52	177.52	61.33	23 30 35	3657.0	15.48	158.66

DIFFERENTIAL CORRECTIONS

TDE	-.6615	TRA	-1.5917	TC3	.1706	BAU	.1261
RDE	-.0183	RRA	.3903	RC3	-.3797	FAU	.03073
FDE	1.2454	FRA	1.7342	FC3	-1.1740	BSP	6891
BDE	.6618	BRA	1.6388	BC3	.4162	FSP	-685

MID-COURSE EXECUTION ACCURACY

SGT	2090.4	SGR	595.1	SG3	242.8		
RRT	-.7642	RRF	.8143	RTF	-.9219		
SGB	2173.4	R23	-.1338	R13	.9279		
SG1	2140.9	SG2	374.8	THA	167.33		

ORBIT DETERMINATION ACCURACY

ST	983.8	SR	143.8	SS	1104.0		
CRT	-.4551	CRS	-.2418	CST	.9735		
LSA	1469.8	MSA	215.9	SSA	15.1		
EL1	986.0	EL2	127.7	ALF	176.13		

LAUNCH DATE OCT 10 1965 FLIGHT TIME 120.00 ARRIVAL DATE FEB 7 1966

DISTANCE 304.460

HELIOCENTRIC CONIC

RL	149.37	LAL	.00	LOL	16.48	VL	26.456	GAL	4.24	AZL	85.97	HCA	128.32	SMA	123.22	ECC	.22421	INC	4.0274	VI	29.830
RP	107.50	LAP	3.16	LOP	144.87	VP	37.311	GAP	-10.71	AZP	92.50	TAL	164.97	TAP	293.29	RCA	95.59	APO	150.85	V2	35.252
RC	43.538	GL	23.40	GP	-18.59	ZAL	58.25	ZAP	21.39	ETS	57.22	ZAE	147.81	ETE	296.01	ZAC	58.15	ETC	147.12	CLP	-10.78

PLANETOCENTRIC CONIC

C3	21.763	VHL	4.665	DLA	7.87	RAL	316.45	RAD	6567.9	VEL	11.964	PTH	2.13	VHP	7.509	DPA	-37.18	RAP	323.47	ECC	1.3582

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 13 53	2481.22	-25.02	59.10	181.59	103.71	6 55 14	1881.2	-22.89	51.08
90.00	20 10 34	4632.09	13.51	196.58	177.79	64.87	21 27 47	4032.1	10.01	189.64
100.00	7 39 1	2206.62	-26.17	38.58	181.26	104.99	8 15 48	1606.6	-23.85	30.55
100.00	21 28 7	4381.92	14.58	177.65	177.26	63.61	22 41 9	3781.9	10.91	170.77
110.00	8 55 56	1965.95	-29.24	19.26	180.22	108.55	9 28 42	1365.9	-26.43	11.21
110.00	22 27 42	4195.36	17.41	161.92	175.69	60.11	23 37 38	3595.4	13.30	155.22

DIFFERENTIAL CORRECTIONS

TDE	-.6853	TRA	-1.5749	TC3	.2195	BAU	.1392
RDE	.0381	RRA	.4135	RC3	-.4250	FAU	.03249
FDE	1.3781	FRA	1.8177	FC3	-1.2924	BSP	7163
BDE	.6864	BRA	1.6283	BC3	.4783	FSP	-757

MID-COURSE EXECUTION ACCURACY

SGT	2136.2	SGR	649.9	SG3	264.9		
RRT	-.8081	RRF	.8598	RTF	-.9273		
SGB	2232.9	R23	-.1478	R13	.9344		
SG1	2201.8	SG2	371.4	THA	165.78		

ORBIT DETERMINATION ACCURACY

ST	1025.5	SR	161.2	SS	1182.7		
CRT	-.7835	CRS	-.6246	CST	.9740		
LSA	1559.5	MSA	210.3	SSA	14.5		
EL1	1033.4	EL2	99.4	ALF	172.91		

LAUNCH DATE OCT 10 1965 FLIGHT TIME 122.00 ARRIVAL DATE FEB 9 1966

DISTANCE 311.214

HELIOCENTRIC CONIC

RL	149.37	LAL	.00	LOL	16.48	VL	26.561	GAL	4.01	AZL	85.69	HCA	131.56	SMA	123.86	ECC	.21704	INC	4.3105	VI	29.830
RP	107.51	LAP	3.22	LOP	148.12	VP	37.382	GAP	-10.01	AZP	92.86	TAL	165.23	TAP	296.78	RCA	96.98	APO	150.74	V2	35.249
RC	44.633	GL	25.69	GP	-20.53	ZAL	59.19	ZAP	23.99	ETS	55.40	ZAE	145.27	ETE	297.83	ZAC	60.23	ETC	147.01	CLP	-12.69

PLANETOCENTRIC CONIC

C3	21.098	VHL	4.593	DLA	9.95	RAL	315.42	RAD	6567.9	VEL	11.936	PTH	2.12	VHP	7.188	DPA	-38.61	RAP	325.77	ECC	1.3472

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 53 19	2540.95	-25.92	63.25	180.83	101.82	6 35 40	1941.0	-24.03	55.09
90.00	20 22 56	4557.41	11.31	192.20	176.20	63.87	21 38 53	3957.4	7.70	185.37
100.00	7 19 35	2262.76	-27.10	42.49	180.54	103.13	7 57 17	1662.8	-25.02	34.31
100.00	21 39 22	4310.84	12.38	173.51	175.64	62.58	22 51 13	3710.8	8.61	166.75
110.00	8 38 59	2014.26	-30.24	22.67	179.58	106.76	9 12 33	1414.3	-27.65	14.44
110.00	22 36 26	4132.11	15.22	158.32	174.01	59.02	23 45 19	3532.1	11.01	151.75

DIFFERENTIAL CORRECTIONS

TDE	-.7163	TRA	-1.5592	TC3	.2611	BAU	.1523
RDE	.1033	RRA	.4432	RC3	-.4725	FAU	.03417
FDE	1.5317	FRA	1.9044	FC3	-1.4020	BSP	7367
BDE	.7237	BRA	1.6210	BC3	.5399	FSP	-828

MID-COURSE EXECUTION ACCURACY

SGT	2180.7	SGR	721.1	SG3	288.2		
RRT	-.8442	RRF	.8975	RTF	-.9319		
SGB	2296.8	R23	-.1625	R13	.9406		
SG1	2266.5	SG2	371.9	THA	163.96		

ORBIT DETERMINATION ACCURACY

ST	1072.1	SR	212.4	SS	1269.0		
CRT	-.9440	CRS	-.8490	CST	.9751		
LSA	1662.0	MSA	205.4	SSA	13.7		
EL1	1090.8	EL2	68.9	ALF	169.36		

LAUNCH DATE OCT 10 1965 FLIGHT TIME 124.00 ARRIVAL DATE FEB 11 1966

DISTANCE 317.953

HELIOCENTRIC CONIC

RL	149.37	LAL	.00	LOL	16.48	VL	26.656	GAL	3.79	AZL	85.38	HCA	134.80	SMA	124.45	ECC	.21045	INC	4.6235	VI	29.830
RP	107.52	LAP	3.28	LOP	151.37	VP	37.446	GAP	-9.33	AZP	93.26	TAL	165.50	TAP	300.30	RCA	98.26	APO	150.64	V2	35.244
RC	45.858	GL	28.13	GP	-22.76	ZAL	60.24	ZAP	26.86	ETS	54.06	ZAE	142.62	ETE	298.97	ZAC	62.39	ETC	146.80	CLP	-14.67

PLANETOCENTRIC CONIC

C3	20.677	VHL	4.547	DLA	12.15	RAL	314.30	RAD	6567.8	VEL	11.919	PTH	2.12	VHP	6.896	DPA	-40.31	RAP	328.17	ECC	1.3403

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 30 40	2609.39	-26.78	68.07	180.26	99.56	6 14 10	2009.4	-25.19	59.76
90.00	20 36 40	4479.30	8.93	187.69	174.81	63.02	21 51 19	3879.3	5.24	180.96
100.00	6 58 13	2327.03	-28.01	47.05	180.01	100.90	7 37 0	1727.0	-26.22	38.71
100.00	21 51 48	4236.90	10.03	169.28	174.22	61.69	23 2 25	3636.9	6.17	162.62
110.00	8 20 29	2069.61	-31.26	26.66	179.16	104.60	8 54 59	1469.6	-28.94	18.23
110.00	22 46 1	4067.08	12.91	154.69	172.52	58.07	23 53 48	3467.1	8.60	148.25

DIFFERENTIAL CORRECTIONS

TDE	-.7530	TRA	-1.5426	TC3	.2983	BAU	.1662
RDE	.1803	RRA	.4802	RC3	-.5220	FAU	.03578
FDE	1.7070	FRA	1.9907	FC3	-1.4980	BSP	7580
BDE	.7743	BRA	1.6156	BC3	.6013	FSP	-903

MID-COURSE EXECUTION ACCURACY

SGT	2219.7	SGR	812.4	SG3	312.3		
RRT	-.8733	RRF	.9274	RTF	-.9362		
SGB	2363.7	R23	-.1754	R13	.9469		
SG1	2333.6	SG2	376.5	THA	161.78		

ORBIT DETERMINATION ACCURACY

ST	1120.7	SR	293.8	SS	1361.4		
CRT	-.9915	CRS	-.9419	CST	.9764		
LSA	1776.2	MSA	201.5	SSA	12.8		
EL1	1158.0	EL2	37.0	ALF	165.42		

LAUNCH DATE OCT 10 1965 FLIGHT TIME 126.00 ARRIVAL DATE FEB 13 1966

HELIOCENTRIC CONIC DISTANCE 324.677

RL	149.37	LAL	.00	LOL	16.48	VL	26.744	GAL	3.58	AZL	85.03	HCA	138.03	SMA	125.00	ECC	.20441	INC	4.9736	V1	29.830
RP	107.54	LAP	3.32	LOP	154.62	VP	37.503	GAP	-8.67	AZP	93.70	TAL	165.79	TAP	303.82	RCA	99.44	APO	150.55	V2	35.239
RC	47.202	GL	30.72	GP	-25.33	ZAL	61.42	ZAP	30.04	ETS	53.08	ZAE	139.83	ETE	299.51	ZAC	64.66	ETC	146.50	CLP	-16.72

PLANETOCENTRIC CONIC

C3	20.518	VHL	4.530	DLA	14.49	RAL	313.09	RAD	6567.8	VEL	11.912	PTH	2.12	VHP	6.640	DPA	-42.33	RAP	330.74	ECC	1.3377

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 5 29	2688.17	-27.55	73.71	179.91	96.83	5 50 17	2088.2	-26.32	65.26
90.00	20 52 12	4396.84	6.35	183.00	173.67	62.35	22 5 29	3796.8	2.60	176.33
100.00	6 34 35	2400.82	-28.84	52.38	179.72	98.21	7 14 36	1800.8	-27.41	43.87
100.00	22 5 47	4159.42	7.50	164.92	173.05	60.98	23 15 7	3559.4	3.57	158.34
110.00	8 0 11	2132.98	-32.25	31.33	179.01	102.00	8 35 44	1533.0	-30.26	22.68
110.00	22 56 40	4000.02	10.47	151.04	171.25	57.27	24 3 20	3400.0	6.08	144.69

DIFFERENTIAL CORRECTIONS

TDE	-.7957	TRA	-1.5254	TC3	.3280	BAU	.1808
RDE	.2731	RRA	.5259	RC3	-.5719	FAU	.03720
FDE	1.9041	FRA	2.0727	FC3	-1.5694	BSP	7804
BDE	.8413	BRA	1.6135	BC3	.6593	FSP	-979

MID-COURSE EXECUTION ACCURACY

SGT	2252.3	SGR	927.2	SG3	336.4				
RRT	-.8958	RRF	.9499	RTF	-.9401				
SGB	2435.7	R23	-.1849	R13	.9531				
SG1	2405.0	SG2	386.0	THA	159.20				

ORBIT DETERMINATION ACCURACY

ST	1170.7	SR	402.5	SS	1458.4				
CRT	-.9995	CRS	-.9773	CST	.9778				
LSA	1902.6	MSA	198.7	SSA	11.8				
EL1	1237.9	EL2	11.8	ALF	161.03				

LAUNCH DATE OCT 10 1965 FLIGHT TIME 128.00 ARRIVAL DATE FEB 15 1966

HELIOCENTRIC CONIC DISTANCE 331.382

RL	149.37	LAL	.00	LOL	16.48	VL	26.823	GAL	3.39	AZL	84.63	HCA	141.27	SMA	125.50	ECC	.19889	INC	5.3705	V1	29.830
RP	107.55	LAP	3.36	LOP	157.87	VP	37.555	GAP	-8.03	AZP	94.19	TAL	166.09	TAP	307.35	RCA	100.54	APO	150.46	V2	35.234
RC	48.656	GL	33.46	GP	-28.29	ZAL	62.71	ZAP	33.56	ETS	52.40	ZAE	136.86	ETE	299.54	ZAC	67.07	ETC	146.12	CLP	-18.86

PLANETOCENTRIC CONIC

C3	20.656	VHL	4.545	DLA	16.96	RAL	311.79	RAD	6567.8	VEL	11.918	PTH	2.12	VHP	6.424	DPA	-44.71	RAP	333.54	ECC	1.3399

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 37 4	2779.68	-28.11	80.34	179.81	93.55	5 23 24	2179.7	-27.32	71.77
90.00	21 10 12	4308.52	3.54	178.04	172.85	61.89	22 22 1	3708.5	-.25	171.41
100.00	6 8 7	2486.09	-29.51	58.63	179.69	94.99	6 49 33	1886.1	-28.51	49.97
100.00	22 21 51	4077.34	4.76	160.37	172.18	60.45	23 29 48	3477.3	.79	153.83
110.00	7 37 45	2205.66	-33.15	36.81	179.17	98.87	8 14 30	1605.7	-31.57	27.94
110.00	23 8 43	3930.54	7.89	147.31	170.25	56.63	24 14 13	3330.5	3.45	141.04

DIFFERENTIAL CORRECTIONS

TDE	-.8433	TRA	-1.5046	TC3	.3517	BAU	.1970
RDE	.3866	RRA	.5810	RC3	-.6205	FAU	.03835
FDE	2.1200	FRA	2.1412	FC3	-1.6072	BSP	8102
BDE	.9277	BRA	1.6129	BC3	.7133	FSP	-1056

MID-COURSE EXECUTION ACCURACY

SGT	2272.8	SGR	1068.7	SG3	358.8				
RRT	-.9128	RRF	.9662	RTF	-.9436				
SGB	2511.5	R23	-.1889	R13	.9595				
SG1	2479.4	SG2	400.0	THA	156.11				

ORBIT DETERMINATION ACCURACY

ST	1218.3	SR	539.0	SS	1556.3				
CRT	-.9973	CRS	-.9910	CST	.9794				
LSA	2039.1	MSA	197.0	SSA	10.7				
EL1	1331.8	EL2	36.2	ALF	156.17				

LAUNCH DATE OCT 10 1965 FLIGHT TIME 130.00 ARRIVAL DATE FEB 17 1966

HELIOCENTRIC CONIC DISTANCE 338.068

RL	149.37	LAL	.00	LOL	16.48	VL	26.895	GAL	3.22	AZL	84.17	HCA	144.50	SMA	125.96	ECC	.19387	INC	5.8273	V1	29.830
RP	107.57	LAP	3.38	LOP	161.12	VP	37.600	GAP	-7.41	AZP	94.75	TAL	166.39	TAP	310.89	RCA	101.54	APO	150.38	V2	35.227
RC	50.208	GL	36.36	GP	-31.70	ZAL	64.13	ZAP	37.45	ETS	51.93	ZAE	133.64	ETE	299.12	ZAC	69.65	ETC	145.67	CLP	-21.07

PLANETOCENTRIC CONIC

C3	21.144	VHL	4.598	DLA	19.58	RAL	310.38	RAD	6567.9	VEL	11.938	PTH	2.12	VHP	6.259	DPA	-47.47	RAP	336.70	ECC	1.3480

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 4 17	2887.77	-28.31	88.24	179.94	89.60	4 52 25	2287.8	-28.07	79.58
90.00	21 31 47	4211.65	.41	172.63	172.45	61.69	22 41 59	3611.6	-3.37	166.00
100.00	5 37 56	2585.82	-29.87	66.02	179.93	91.12	6 21 1	1985.8	-29.40	57.24
100.00	22 40 50	3988.83	1.78	155.49	171.69	60.16	23 47 19	3388.8	-2.21	148.97
110.00	7 12 40	2289.43	-33.84	43.25	179.67	95.12	7 50 49	1689.4	-32.76	34.18
110.00	23 22 35	3857.99	5.16	143.47	169.59	56.16	24 26 53	3258.0	.68	137.25

DIFFERENTIAL CORRECTIONS

TDE	-.9016	TRA	-1.4866	TC3	.3588	BAU	.2131
RDE	.5288	RRA	.6482	RC3	-.6631	FAU	.03885
FDE	2.3537	FRA	2.1935	FC3	-1.5906	BSP	8359
BDE	1.0453	BRA	1.6218	BC3	.7539	FSP	-1119

MID-COURSE EXECUTION ACCURACY

SGT	2288.3	SGR	1241.3	SG3	378.2				
RRT	-.9248	RRF	.9776	RTF	-.9466				
SGB	2603.3	R23	-.1874	R13	.9660				
SG1	2569.0	SG2	420.7	THA	152.56				

ORBIT DETERMINATION ACCURACY

ST	1268.9	SR	707.6	SS	1654.4				
CRT	-.9936	CRS	-.9964	CST	.9810				
LSA	2193.0	MSA	196.2	SSA	9.5				
EL1	1451.2	EL2	69.6	ALF	150.94				

LAUNCH DATE OCT 10 1965 FLIGHT TIME 132.00 ARRIVAL DATE FEB 19 1966

HELIOCENTRIC CONIC DISTANCE 344.733

RL	149.37	LAL	.00	LOL	16.48	VL	26.960	GAL	3.06	AZL	83.64	HCA	147.73	SMA	126.38	ECC	.18933	INC	6.3625	V1	29.830
RP	107.60	LAP	3.39	LOP	164.37	VP	37.641	GAP	-6.81	AZP	95.39	TAL	166.69	TAP	314.41	RCA	102.45	APO	150.31	V2	35.220
RC	51.850	GL	39.42	GP	-35.63	ZAL	65.67	ZAP	41.73	ETS	51.60	ZAE	130.11	ETE	298.34	ZAC	72.44	ETC	145.19	CLP	-23.34

PLANETOCENTRIC CONIC

C3	22.072	VHL	4.698	DLA	22.32	RAL	308.87	RAD	6567.9	VEL	11.977	PTH	2.13	VHP	6.156	DPA	-50.66	RAP	340.40	ECC	1.3633

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	3 24 56	3019.58	-27.87	97.85	180.23	84.80	4 15 15	2419.6	-28.30	89.21
90.00	21 59 3	4100.56	-3.17	166.43	172.62	61.85	23 7 24	3500.6	-6.91	159.75
100.00	5 2 28	2705.08	-29.70	74.87	180.39	86.46	5 47 33	2105.1	-29.88	66.07
100.00	23 4 12	3890.30	-1.56	150.09	171.73	60.14	24 9 2	3290.3	-5.53	143.54
110.00	6 44 10	2386.90	-34.18	50.84	180.53	90.64	7 23 57	1786.9	-33.71	41.63
110.00	23 38 59	3781.24	2.23	139.45	169.36	55.88	24 42 1	3181.2	-2.26	133.25

DIFFERENTIAL CORRECTIONS

TDE	-.9709	TRA	-1.4692	TC3	.3498	BAU	.2294
RDE	.7096	RRA	.7283	RC3	-.6943	FAU	.03844
FDE	2.5946	FRA	2.2165	FC3	-1.5077	BSP	8665
BDE	1.2026	BRA	1.6399	BC3	.7774	FSP	-1166

MID-COURSE EXECUTION ACCURACY

SGT	2293.9	SGR	1447.9	SG3	391.7				
RRT	-.9330	RRF	.9853	RTF	-.9492				
SGB	2712.6	R23	-.1790	R13	.9724				
SG1	2675.6	SG2	446.6	THA	148.53				

ORBIT DETERMINATION ACCURACY

ST	1319.0	SR	912.3	SS	1746.4				
CRT	-.9908	CRS	-.9987	CST	.9827				
LSA	2362.9	MSA	196.0	SSA	8.4				
EL1	1600.5	EL2	101.7	ALF	145.42				

LAUNCH DATE OCT 10 1965 FLIGHT TIME 134.00 ARRIVAL DATE FEB 21 1966

HELIOCENTRIC CONIC DISTANCE 351.375

RL 149.37 LAL .00 LOL 16.48 VL 27.019 GAL 2.92 AZL 83.00 HCA 150.95 SMA 126.76 ECC .18523 INC 7.0022 V1 29.830
RP 107.62 LAP 3.39 LOP 167.61 VP 37.675 GAP -6.23 AZP 96.13 TAL 166.97 TAP 317.92 RCA 103.28 APO 150.25 V2 35.212
RC 53.572 GL 42.64 GP -40.10 ZAL 67.33 ZAP 46.42 ETS 51.35 ZAE 126.19 ETE 297.31 ZAC 75.50 ETC 144.73 CLP -25.67

PLANETOCENTRIC CONIC

C3 23.584 VHL 4.856 DLA 25.21 RAL 307.23 RAD 6568.0 VEL 12.040 PTH 2.15 VHP 6.134 DPA -54.26 RAP 344.94 ECC 1.3881

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	2 33 32	3192.56	-26.19	110.22	180.44	78.83	3 26 45	2592.6	-27.47	101.79
90.00	22 37 20	3959.82	-7.64	158.50	173.70	62.65	23 43 20	3359.8	-11.24	151.68
100.00	4 18 28	2854.29	-28.57	85.81	180.92	80.82	5 6 2	2254.3	-29.55	77.14
100.00	23 35 6	3773.32	-5.51	143.64	172.54	60.57	24 37 59	3173.3	-9.39	137.00
110.00	6 10 58	2502.27	-33.90	59.84	181.68	85.33	6 52 41	1902.3	-34.18	50.60
110.00	0 3 0	3698.11	-.94	135.12	169.71	55.83	1 4 38	3098.1	-5.42	128.89

DIFFERENTIAL CORRECTIONS
TDE-1.0496 TRA-1.4496 TC3 .3318 BAU .2472
RDE .9401 RRA .8204 RC3 -.7102 FAU .03705
FDE 2.8196 FRA 2.1916 FC3-1.3602 BSP 9103
BDE 1.4090 BRA 1.6657 BC3 .7839 FSP -1193

MID-COURSE EXECUTION ACCURACY
SGT 2282.7 SGR 1688.3 SG3 395.7
RRT -.9388 RRF .9903 RTF -.9514
SGB 2839.2 R23 -.1638 R13 .9787
SG1 2799.3 SG2 474.3 THA 144.03

ORBIT DETERMINATION ACCURACY
ST 1362.0 SR 1154.8 SS 1820.6
CRT -.9890 CRS -.9995 CST .9843
LSA 2542.6 MSA 196.2 SSA 7.2
EL1 1780.9 EL2 130.4 ALF 139.76

LAUNCH DATE OCT 10 1965 FLIGHT TIME 136.00 ARRIVAL DATE FEB 23 1966

HELIOCENTRIC CONIC DISTANCE 357.993

RL 149.37 LAL .00 LOL 16.48 VL 27.072 GAL 2.79 AZL 82.21 HCA 154.17 SMA 127.11 ECC .18156 INC 7.7859 V1 29.830
RP 107.64 LAP 3.38 LOP 170.86 VP 37.706 GAP -5.66 AZP 97.02 TAL 167.24 TAP 321.41 RCA 104.03 APO 150.19 V2 35.204
RC 55.368 GL 46.01 GP -45.17 ZAL 69.13 ZAP 51.49 ETS 51.13 ZAE 121.80 ETE 296.15 ZAC 78.86 ETC 144.37 CLP -27.98

PLANETOCENTRIC CONIC

C3 25.923 VHL 5.091 DLA 28.22 RAL 305.43 RAD 6568.0 VEL 12.137 PTH 2.18 VHP 6.220 DPA -58.20 RAP 350.80 ECC 1.4266

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	0 50 48	3532.74	-19.72	133.00	178.88	69.26	1 49 41	2932.7	-22.37	125.32
90.00	0 9 41	3666.14	-16.29	141.29	177.42	66.52	1 10 47	3066.1	-19.33	133.93
100.00	3 15 23	3066.60	-25.35	100.75	180.93	73.61	4 6 29	2466.6	-27.35	92.52
100.00	0 27 48	3607.52	-10.94	134.34	174.77	62.01	1 27 55	3007.5	-14.60	127.46
110.00	5 30 37	2643.29	-32.59	70.63	182.94	79.08	6 14 40	2043.3	-33.76	61.58
110.00	0 29 3	3603.59	-4.55	130.17	170.90	56.08	1 29 6	3003.6	-8.97	123.88

DIFFERENTIAL CORRECTIONS
TDE-1.1497 TRA-1.4381 TC3 .2914 BAU .2620
RDE 1.2405 RRA .9272 RC3 -.6976 FAU .03398
FDE 3.0125 FRA 2.1156 FC3-1.1348 BSP 9525
BDE 1.6913 BRA 1.7111 BC3 .7961 FSP -1176

MID-COURSE EXECUTION ACCURACY
SGT 2266.1 SGR 1963.6 SG3 387.6
RRT -.9420 RRF .9936 RTF -.9532
SGB 2998.5 R23 -.1434 R13 .9845
SG1 2955.6 SG2 505.1 THA 139.34

ORBIT DETERMINATION ACCURACY
ST 1406.2 SR 1440.6 SS 1873.3
CRT -.9882 CRS -.9999 CST .9859
LSA 2742.9 MSA 196.9 SSA 6.1
EL1 2007.2 EL2 154.5 ALF 134.30

LAUNCH DATE OCT 10 1965 FLIGHT TIME 138.00 ARRIVAL DATE FEB 25 1966

HELIOCENTRIC CONIC DISTANCE 364.583

RL 149.37 LAL .00 LOL 16.48 VL 27.119 GAL 2.68 AZL 81.23 HCA 157.38 SMA 127.42 ECC .17829 INC 8.7747 V1 29.830
RP 107.67 LAP 3.36 LOP 174.10 VP 37.731 GAP -5.12 AZP 98.11 TAL 167.49 TAP 324.87 RCA 104.70 APO 150.14 V2 35.195
RC 57.230 GL 49.53 GP -50.81 ZAL 71.06 ZAP 56.89 ETS 50.92 ZAE 116.88 ETE 295.03 ZAC 82.56 ETC 144.27 CLP -30.18

PLANETOCENTRIC CONIC

C3 29.511 VHL 5.432 DLA 31.34 RAL 303.45 RAD 6568.2 VEL 12.284 PTH 2.21 VHP 6.457 DPA -62.29 RAP 358.80 ECC 1.4857

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
75.98	22 27 42	3987.18	-18.94	166.26	179.16	64.56	23 34 9	3387.2	-22.21	158.88
104.02	2 13 2	3276.26	-18.93	113.72	179.15	64.55	3 7 38	2676.3	-22.20	106.34
75.98	22 27 42	3987.18	-18.94	166.26	179.16	64.56	23 34 9	3387.2	-22.21	158.88
104.02	2 13 2	3276.26	-18.93	113.72	179.15	64.55	3 7 38	2676.3	-22.20	106.34
110.00	4 36 45	2829.32	-29.38	84.15	183.74	71.68	5 23 55	2229.3	-31.60	75.64
110.00	1 7 5	3482.12	-9.12	123.74	173.49	56.91	2 5 7	2882.1	-13.41	117.27

DIFFERENTIAL CORRECTIONS
TDE-1.2729 TRA-1.4317 TC3 .2433 BAU .2746
RDE 1.6316 RRA 1.0436 RC3 -.6521 FAU .02939
FDE 3.1335 FRA 1.9708 FC3 -.8622 BSP 10099
BDE 2.0694 BRA 1.7717 BC3 .6960 FSP -1118

MID-COURSE EXECUTION ACCURACY
SGT 2235.6 SGR 2263.6 SG3 363.7
RRT -.9438 RRF .9956 RTF -.9549
SGB 3181.5 R23 -.1190 R13 .9895
SG1 3136.5 SG2 533.5 THA 134.62

ORBIT DETERMINATION ACCURACY
ST 1443.5 SR 1763.8 SS 1888.3
CRT -.9880 CRS-1.0000 CST .9874
LSA 2953.2 MSA 197.8 SSA 5.0
EL1 2272.6 EL2 173.4 ALF 129.23

LAUNCH DATE OCT 10 1965 FLIGHT TIME 140.00 ARRIVAL DATE FEB 27 1966

HELIOCENTRIC CONIC DISTANCE 371.143

RL 149.37 LAL .00 LOL 16.48 VL 27.161 GAL 2.58 AZL 79.93 HCA 160.58 SMA 127.70 ECC .17540 INC10.0701 V1 29.830
RP 107.70 LAP 3.33 LOP 177.34 VP 37.752 GAP -4.59 AZP 99.51 TAL 167.71 TAP 328.29 RCA 105.30 APO 150.10 V2 35.186
RC 59.152 GL 53.16 GP -57.01 ZAL 73.14 ZAP 62.51 ETS 50.82 ZAE 111.41 ETE 294.25 ZAC 86.64 ETC 144.68 CLP -32.04

PLANETOCENTRIC CONIC

C3 35.143 VHL 5.928 DLA 34.53 RAL 301.22 RAD 6568.4 VEL 12.511 PTH 2.27 VHP 6.913 DPA -66.12 RAP 10.18 ECC 1.5784

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
69.36	21 36 14	4162.95	-19.28	179.95	180.68	60.79	22 45 37	3563.0	-23.02	172.79
110.64	2 46 45	3188.39	-19.27	107.16	180.67	60.78	3 39 54	2588.4	-23.01	99.99
69.36	21 36 14	4162.95	-19.28	179.95	180.68	60.79	22 45 37	3563.0	-23.02	172.79
110.64	2 46 45	3188.39	-19.27	107.16	180.67	60.78	3 39 54	2588.4	-23.01	99.99
69.36	21 36 14	4162.95	-19.28	179.95	180.68	60.79	22 45 37	3563.0	-23.02	172.79
110.64	2 46 45	3188.39	-19.27	107.16	180.67	60.78	3 39 54	2588.4	-23.01	99.99

DIFFERENTIAL CORRECTIONS
TDE-1.4425 TRA-1.4432 TC3 .1860 BAU .2791
RDE 2.1478 RRA 1.1658 RC3 -.5643 FAU .02316
FDE 3.1564 FRA 1.7615 FC3 -.5707 BSP 10763
BDE 2.5873 BRA 1.8552 BC3 .5941 FSP -1012

MID-COURSE EXECUTION ACCURACY
SGT 2204.3 SGR 2574.4 SG3 323.7
RRT -.9441 RRF .9966 RTF -.9568
SGB 3389.1 R23 -.0924 R13 .9935
SG1 3342.6 SG2 559.8 THA 130.31

ORBIT DETERMINATION ACCURACY
ST 1483.9 SR 2116.1 SS 1859.3
CRT -.9881 CRS-1.0000 CST .9889
LSA 3177.6 MSA 199.2 SSA 4.0
EL1 2577.7 EL2 187.2 ALF 124.93

LAUNCH DATE OCT 10 1965 FLIGHT TIME 142.00 ARRIVAL DATE MAR 1 1966

HELIOCENTRIC CONIC DISTANCE 377.667

RL	149.37	LAL	.00	LOL	16.48	VL	27.198	GAL	2.50	AZL	78.15	HCA	163.77	SMA	127.95	ECC	.17288	INC	11.8518	V1	29.830
RP	107.73	LAP	3.29	LOP	180.58	VP	37.770	GAP	-4.08	AZP	101.39	TAL	167.88	TAP	331.65	RCA	105.83	APO	150.07	V2	35.176
RC	61.127	GL	56.85	GP	-63.67	ZAL	75.37	ZAP	68.17	ETS	51.29	ZAE	105.38	ETE	294.40	ZAC	91.12	ETC	146.23	CLP	-33.00

PLANETOCENTRIC CONIC

C3	44.433	VHL	6.666	DLA	37.70	RAL	298.69	RAD	6568.7	VEL	12.876	PTH	2.35	VHP	7.703	DPA	-68.95	RAP	26.31	ECC	1.7313

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
64.00	20 56 47	4309.53	-18.69	191.30	182.75	56.64	22 8 36	3709.5	-22.94	184.47
116.00	3 5 59	3160.24	-18.67	104.52	182.74	56.63	3 58 40	2560.2	-22.93	97.69
64.00	20 56 47	4309.53	-18.69	191.30	182.75	56.64	22 8 36	3709.5	-22.94	184.47
116.00	3 5 59	3160.24	-18.67	104.52	182.74	56.63	3 58 40	2560.2	-22.93	97.69
64.00	20 56 47	4309.53	-18.69	191.30	182.75	56.64	22 8 36	3709.5	-22.94	184.47
116.00	3 5 59	3160.24	-18.67	104.52	182.74	56.63	3 58 40	2560.2	-22.93	97.69

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-1.7129	TRA	-1.4968	TC3	.1231	BAU	.2657	SGT	2199.7	SGR	2865.9	SG3	270.2	ST	1551.0	SR	2473.7	SS	1784.2
RDE	2.8365	RRA	1.2823	RC3	-.4301	FAU	.01555	RRT	-.9436	RRF	.9968	RTF	-.9600	CRT	-.9887	CRS	-.9999	CST	.9908
FDE	3.0661	FRA	1.5041	FC3	-.3030	BSP	11439	SGB	3612.8	R23	-.0646	R13	.9964	LSA	3415.8	MSA	201.7	SSA	3.1
BDE	3.3136	BRA	1.9709	BC3	.4474	FSP	-857	SG1	3565.1	SG2	585.3	THA	127.08	EL1	2913.1	EL2	197.1	ALF	121.96

LAUNCH DATE OCT 10 1965 FLIGHT TIME 144.00 ARRIVAL DATE MAR 3 1966

HELIOCENTRIC CONIC DISTANCE 384.143

RL	149.37	LAL	.00	LOL	16.48	VL	27.230	GAL	2.44	AZL	75.53	HCA	166.93	SMA	128.16	ECC	.17072	INC	14.4709	V1	29.830
RP	107.76	LAP	3.24	LOP	183.82	VP	37.783	GAP	-3.58	AZP	104.11	TAL	168.00	TAP	334.94	RCA	106.28	APO	150.04	V2	35.166
RC	63.151	GL	60.43	GP	-70.70	ZAL	77.77	ZAP	73.63	ETS	54.00	ZAE	98.75	ETE	297.26	ZAC	96.09	ETC	150.72	CLP	-31.51

PLANETOCENTRIC CONIC

C3	61.096	VHL	7.816	DLA	40.68	RAL	295.76	RAD	6569.1	VEL	13.508	PTH	2.47	VHP	9.052	DPA	-69.66	RAP	46.84	ECC	2.0055

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
59.48	20 23 39	4449.74	-16.74	201.56	185.29	52.37	21 37 48	3849.7	-21.50	195.18
120.52	3 15 46	3177.89	-16.72	104.54	185.28	52.36	4 8 44	2577.9	-21.49	98.15
59.48	20 23 39	4449.74	-16.74	201.56	185.29	52.37	21 37 48	3849.7	-21.50	195.18
120.52	3 15 46	3177.89	-16.72	104.54	185.28	52.36	4 8 44	2577.9	-21.49	98.15
59.48	20 23 39	4449.74	-16.74	201.56	185.29	52.37	21 37 48	3849.7	-21.50	195.18
120.52	3 15 46	3177.89	-16.72	104.54	185.28	52.36	4 8 44	2577.9	-21.49	98.15

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-2.2649	TRA	-1.6480	TC3	.0694	BAU	.2219	SGT	2303.4	SGR	3050.8	SG3	208.9	ST	1727.7	SR	2759.4	SS	1667.6
RDE	3.7270	RRA	1.3391	RC3	-.2627	FAU	.00757	RRT	-.9452	RRF	.9955	RTF	-.9681	CRT	-.9903	CRS	-.9997	CST	.9936
FDE	2.8683	FRA	1.2219	FC3	-.1072	BSP	12391	SGB	3822.7	R23	-.0358	R13	.9983	LSA	3652.2	MSA	204.4	SSA	2.4
BDE	4.3612	BRA	2.1235	BC3	.2717	FSP	-690	SG1	3774.0	SG2	608.0	THA	126.62	EL1	3249.3	EL2	203.4	ALF	121.94

LAUNCH DATE OCT 10 1965 FLIGHT TIME 146.00 ARRIVAL DATE MAR 5 1966

HELIOCENTRIC CONIC DISTANCE 390.551

RL	149.37	LAL	.00	LOL	16.48	VL	27.258	GAL	2.40	AZL	71.29	HCA	170.05	SMA	128.35	ECC	.16891	INC	18.7085	V1	29.830
RP	107.80	LAP	3.18	LOP	187.05	VP	37.793	GAP	-3.12	AZP	108.45	TAL	168.04	TAP	338.09	RCA	106.67	APO	150.03	V2	35.155
RC	65.219	GL	63.52	GP	-77.79	ZAL	80.33	ZAP	78.65	ETS	67.77	ZAE	91.33	ETE	311.61	ZAC	101.84	ETC	167.06	CLP	-21.46

PLANETOCENTRIC CONIC

C3	95.244	VHL	9.759	DLA	43.04	RAL	292.38	RAD	6569.9	VEL	14.717	PTH	2.66	VHP	11.449	DPA	-67.24	RAP	67.48	ECC	2.5675

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
56.12	19 55 51	4591.61	-13.00	210.73	188.09	48.59	21 12 23	3991.6	-18.20	204.84
123.88	3 16 35	3241.28	-12.98	106.86	188.08	48.59	4 10 36	2641.3	-18.19	100.97
56.12	19 55 51	4591.61	-13.00	210.73	188.09	48.59	21 12 23	3991.6	-18.20	204.84
123.88	3 16 35	3241.28	-12.98	106.86	188.08	48.59	4 10 36	2641.3	-18.19	100.97
56.12	19 55 51	4591.61	-13.00	210.73	188.09	48.59	21 12 23	3991.6	-18.20	204.84
123.88	3 16 35	3241.28	-12.98	106.86	188.08	48.59	4 10 36	2641.3	-18.19	100.97

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-4.2851	TRA	-2.1988	TC3	-.0126	BAU	.0948	SGT	3074.0	SGR	2646.7	SG3	151.4	ST	2570.9	SR	2522.9	SS	1560.6
RDE	4.2766	RRA	1.0270	RC3	-.0733	FAU	-.00185	RRT	-.9550	RRF	.9853	RTF	-.9902	CRT	-.9940	CRS	-.9985	CST	.9985
FDE	2.6561	FRA	.9928	FC3	.0168	BSP	12103	SGB	4056.4	R23	-.0067	R13	.9992	LSA	3920.6	MSA	196.8	SSA	1.9
BDE	6.0540	BRA	2.4268	BC3	.0744	FSP	-472	SG1	4011.6	SG2	601.3	THA	139.47	EL1	3596.7	EL2	196.8	ALF	135.54

LAUNCH DATE OCT 10 1965 FLIGHT TIME 148.00 ARRIVAL DATE MAR 7 1966

HELIOCENTRIC CONIC DISTANCE 396.819

RL	149.37	LAL	.00	LOL	16.48	VL	27.281	GAL	2.40	AZL	63.34	HCA	173.07	SMA	128.51	ECC	.16748	INC	26.6616	V1	29.830
RP	107.83	LAP	3.10	LOP	190.28	VP	37.800	GAP	-2.69	AZP	116.49	TAL	167.93	TAP	341.00	RCA	106.99	APO	150.04	V2	35.143
RC	67.327	GL	64.99	GP	-82.19	ZAL	83.03	ZAP	82.97	ETS	140.74	ZAE	82.34	ETE	25.39	ZAC	109.22	ETC	243.57	CLP	25.75

PLANETOCENTRIC CONIC

C3	182.166	VHL	13.497	DLA	43.68	RAL	288.65	RAD	6571.0	VEL	17.421	PTH	2.96	VHP	16.178	DPA	-61.02	RAP	83.74	ECC	3.9980

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
55.24	19 37 28	4724.95	-7.43	217.51	190.82	46.83	20 56 13	4124.9	-12.86	211.95
124.76	3 5 13	3355.82	-7.42	111.96	190.80	46.83	4 1 9	2755.8	-12.84	106.40
55.24	19 37 28	4724.95	-7.43	217.51	190.82	46.83	20 56 13	4124.9	-12.86	211.95
124.76	3 5 13	3355.82	-7.42	111.96	190.80	46.83	4 1 9	2755.8	-12.84	106.40
55.24	19 37 28	4724.95	-7.43	217.51	190.82	46.83	20 56 13	4124.9	-12.86	211.95
124.76	3 5 13	3355.82	-7.42	111.96	190.80	46.83	4 1 9	2755.8	-12.84	106.40

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-5.9901	TRA	-1.6686	TC3	-.1030	BAU	.3442	SGT	2739.1	SGR	3163.9	SG3	103.0	ST	2559.8	SR	2843.2	SS	1518.4
RDE	-6.6210	RRA	-2.4346	RC3	-.0967	FAU	-.01166	RRT	.9946	RRF	-.9982	RTF	-.9979	CRT	.9993	CRS	.9999	CST	.9998
FDE	2.5351	FRA	.8367	FC3	.0554	BSP	12817	SGB	4184.8	R23	.0048	R13	-.9994	LSA	4115.5	MSA	69.1	SSA	1.7
BDE	8.9286	BRA	2.9515	BC3	.1413	FSP	-333	SG1	4179.3	SG2	215.4	THA	49.14	EL1	3825.1	EL2	69.1	ALF	48.00

LAUNCH DATE OCT 10 1965 FLIGHT TIME 150.00 ARRIVAL DATE MAR 9 1966

HELIOCENTRIC CONIC DISTANCE 402.698

RL 149.37 LAL .00 LOL 16.48 VL 27.301 GAL 2.47 AZL 44.47 HCA 175.76 SMA 128.65 ECC .16663 INC45.5280 V1 29.830
RP 107.87 LAP 3.02 LOP 193.51 VP 37.803 GAP -2.38 AZP 135.45 TAL 167.46 TAP 343.22 RCA 107.21 APO 150.08 V2 35.132
RC 69.470 GL 60.87 GP -72.79 ZAL 85.69 ZAP 86.28 ETS 178.39 ZAE 68.78 ETE 63.12 ZAC 121.35 ETC 286.65 CLP 77.35

PLANETOCENTRIC CONIC

C3 496.517 VHL 22.283 DLA 38.78 RAL 285.52 RAD 6572.4 VEL 24.856 PTH 3.34 VHP 27.419 DPA -48.40 RAP 95.10 ECC 9.1714

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
62.31	19 55 54	4759.99	-1.61	215.46	193.53	51.24	21 15 14	4160.0	-6.60	209.60
117.69	2 21 48	3562.43	-1.60	124.70	193.52	51.24	3 21 10	2962.4	-6.58	118.84
62.31	19 55 54	4759.99	-1.61	215.46	193.53	51.24	21 15 14	4160.0	-6.60	209.60
117.69	2 21 48	3562.43	-1.60	124.70	193.52	51.24	3 21 10	2962.4	-6.58	118.84
62.31	19 55 54	4759.99	-1.61	215.46	193.53	51.24	21 15 14	4160.0	-6.60	209.60
117.69	2 21 48	3562.43	-1.60	124.70	193.52	51.24	3 21 10	2962.4	-6.58	118.84

DIFFERENTIAL CORRECTIONS

TDE-4.3839 TRA .2864 TC3 -.0924 BAU 1.7573
RD-13.6476 RRA-4.4564 RC3 -.2481 FAU-.03367
FDE 2.8906 FRA .9559 FC3 .0587 BSP 12915
BDE14.3345 BRA 4.4656 BC3 .2647 FSP -241

MID-COURSE EXECUTION ACCURACY

SGT 1203.8 SGR 3962.1 SG3 73.3
RRT .8957 RRF -.9995 RTF -.8963
SGB 4140.9 R23 -.0324 R13 -.9990
SG1 4108.6 SG2 516.1 THA 74.53

ORBIT DETERMINATION ACCURACY

ST 1127.7 SR 3537.0 SS 1775.1
CRT .9887 CRS 1.0000 CST .9885
LSA 4111.8 MSA 162.7 SSA 1.9
EL1 3708.9 EL2 160.9 ALF 72.47

LAUNCH DATE OCT 10 1965 FLIGHT TIME 152.00 ARRIVAL DATE MAR 11 1966

HELIOCENTRIC CONIC DISTANCE 413.645

RL 149.37 LAL .00 LOL 16.48 VL 27.318 GAL 1.62 AZL 175.01 HCA 182.94 SMA 128.76 ECC .16250 INC85.0076 V1 29.830
RP 107.90 LAP 2.93 LOP 196.74 VP 37.804 GAP -.76 AZP 5.00 TAL 171.58 TAP 354.53 RCA 107.84 APO 149.68 V2 35.120
RC 71.643 GL -44.71 GP 48.87 ZAL 88.12 ZAP 89.18 ETS 185.60 ZAE 58.99 ETE 299.76 ZAC 114.45 ETC 73.25 CLP 88.75

PLANETOCENTRIC CONIC

C31495.115 VHL 38.667 DLA -65.86 RAL 304.73 RAD 6573.2 VEL 40.204 PTH 3.56 VHP 50.106 DPA 72.78 RAP 116.33 ECC25.6058

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
27.68	7 22 8	2438.31	-1.34	75.90	215.31	155.86	8 2 46	1838.3	5.96	73.03
152.32	17 28 48	714.21	-1.33	291.04	215.34	155.86	17 40 42	114.2	5.97	288.18
27.68	7 22 8	2438.31	-1.34	75.90	215.31	155.86	8 2 46	1838.3	5.96	73.03
152.32	17 28 48	714.21	-1.33	291.04	215.34	155.86	17 40 42	114.2	5.97	288.18
27.68	7 22 8	2438.31	-1.34	75.90	215.31	155.86	8 2 46	1838.3	5.96	73.03
152.32	17 28 48	714.21	-1.33	291.04	215.34	155.86	17 40 42	114.2	5.97	288.18

DIFFERENTIAL CORRECTIONS

TDE 7.9153 TRA-1.4115 TC3 -.1331 BAU 5.3659
RDE-9.6371 RRA 5.4657 RC3 .2331 FAU-.09754
FDE-2.5731 FRA 1.3177 FC3 .0565 BSP 10851
BDE12.4710 BRA 5.6450 BC3 .2685 FSP -211

MID-COURSE EXECUTION ACCURACY

SGT 1642.3 SGR 3035.1 SG3 64.9
RRT -.9116 RRF .9991 RTF -.9251
SGB 3451.0 R23 -.0561 R13 .9981
SG1 3397.9 SG2 603.1 THA 117.18

ORBIT DETERMINATION ACCURACY

ST 1183.3 SR 1547.6 SS 1764.2
CRT -.9653 CRS -.9994 CST .9738
LSA 2615.3 MSA 260.2 SSA 2.2
EL1 1932.4 EL2 247.5 ALF 127.14

LAUNCH DATE OCT 10 1965 FLIGHT TIME 154.00 ARRIVAL DATE MAR 13 1966

HELIOCENTRIC CONIC DISTANCE 418.186

RL 149.37 LAL .00 LOL 16.48 VL 27.331 GAL 1.97 AZL 129.15 HCA 184.48 SMA 128.85 ECC .16284 INC39.1464 V1 29.830
RP 107.94 LAP 2.83 LOP 199.96 VP 37.802 GAP -.80 AZP 50.94 TAL 169.80 TAP 354.28 RCA 107.87 APO 149.83 V2 35.108
RC 73.845 GL -63.07 GP 75.09 ZAL 85.75 ZAP 88.32 ETS 199.17 ZAE 83.28 ETE 307.81 ZAC 89.99 ETC 85.44 CLP 83.48

PLANETOCENTRIC CONIC

C3 374.107 VHL 19.342 DLA -78.53 RAL 354.49 RAD 6572.0 VEL 22.258 PTH 3.25 VHP 25.630 DPA 80.25 RAP 268.71 ECC 7.1568

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
13.05	10 9 58	2387.97	4.24	82.34	263.62	168.50	10 49 46	1788.0	12.08	81.13
166.95	21 18 0	5882.37	4.25	260.29	263.64	168.50	22 56 2	5282.4	12.08	259.08
13.05	10 9 58	2387.97	4.24	82.34	263.62	168.50	10 49 46	1788.0	12.08	81.13
166.95	21 18 0	5882.37	4.25	260.29	263.64	168.50	22 56 2	5282.4	12.08	259.08
13.05	10 9 58	2387.97	4.24	82.34	263.62	168.50	10 49 46	1788.0	12.08	81.13
166.95	21 18 0	5882.37	4.25	260.29	263.64	168.50	22 56 2	5282.4	12.08	259.08

DIFFERENTIAL CORRECTIONS

TDE 1.2117 TRA-1.6131 TC3 -.1491 BAU 1.3066
RDE 1.7131 RRA 2.3436 RC3 .2145 FAU-.02248
FDE .2495 FRA .6117 FC3 .0520 BSP 13541
BDE 2.0983 BRA 2.8450 BC3 .2612 FSP -255

MID-COURSE EXECUTION ACCURACY

SGT 2497.3 SGR 3624.4 SG3 80.9
RRT -.9597 RRF .9980 RTF -.9750
SGB 4401.4 R23 -.0291 R13 .9994
SG1 4362.7 SG2 582.7 THA 124.17

ORBIT DETERMINATION ACCURACY

ST 805.5 SR 1164.1 SS 627.3
CRT -.6115 CRS -.9826 CST .7479
LSA 1438.1 MSA 574.0 SSA 1.0
EL1 1294.4 EL2 573.2 ALF 119.19

LAUNCH DATE OCT 10 1965 FLIGHT TIME 156.00 ARRIVAL DATE MAR 15 1966

HELIOCENTRIC CONIC DISTANCE 424.065

RL 149.37 LAL .00 LOL 16.48 VL 27.341 GAL 2.07 AZL 112.15 HCA 187.23 SMA 128.92 ECC .16262 INC22.1454 V1 29.830
RP 107.98 LAP 2.72 LOP 203.18 VP 37.798 GAP -.49 AZP 68.01 TAL 169.23 TAP 356.46 RCA 107.95 APO 149.88 V2 35.095
RC 76.070 GL -65.21 GP 87.05 ZAL 82.48 ZAP 87.95 ETS 268.90 ZAE 95.14 ETE 15.36 ZAC 78.61 ETC 151.01 CLP 45.95

PLANETOCENTRIC CONIC

C3 128.705 VHL 11.345 DLA -75.95 RAL 10.65 RAD 6570.4 VEL 15.813 PTH 2.80 VHP 15.405 DPA 68.11 RAP 281.74 ECC 3.1182

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
16.00	11 20 17	2226.44	14.54	78.69	276.92	165.48	11 57 24	1626.4	22.28	76.94
164.00	22 16 37	5730.35	14.55	259.54	276.94	165.48	23 52 7	5130.3	22.28	257.80
16.00	11 20 17	2226.44	14.54	78.69	276.92	165.48	11 57 24	1626.4	22.28	76.94
164.00	22 16 37	5730.35	14.55	259.54	276.94	165.48	23 52 7	5130.3	22.28	257.80
16.00	11 20 17	2226.44	14.54	78.69	276.92	165.48	11 57 24	1626.4	22.28	76.94
164.00	22 16 37	5730.35	14.55	259.54	276.94	165.48	23 52 7	5130.3	22.28	257.80

DIFFERENTIAL CORRECTIONS

TDE-3.0927 TRA-2.0149 TC3 -.0724 BAU .1289
RDE .3060 RRA -.5466 RC3 .0194 FAU-.00059
FDE .9427 FRA .6104 FC3 .0040 BSP 14488
BDE 3.1078 BRA 2.0877 BC3 .0749 FSP -377

MID-COURSE EXECUTION ACCURACY

SGT 4477.4 SGR 1148.8 SG3 117.2
RRT .8789 RRF -.8797 RTF -.9995
SGB 4622.5 R23 .0241 R13 -.9993
SG1 4591.5 SG2 534.3 THA 12.89

ORBIT DETERMINATION ACCURACY

ST 2005.5 SR 374.6 SS 811.7
CRT .2501 CRS .2472 CST 1.0000
LSA 2165.6 MSA 362.4 SSA 1.5
EL1 2007.7 EL2 362.3 ALF 2.77

LAUNCH DATE OCT 10 1965 FLIGHT TIME 158.00 ARRIVAL DATE MAR 17 1966

HELIOCENTRIC CONIC DISTANCE 430.236

RL	149.37	LAL	.00	LOL	16.48	VL	27.348	GAL	2.13	AZL	104.77	HCA	190.25	SMA	128.97	ECC	.16242	INC	14.7713	VI	29.830
RP	108.02	LAP	2.60	LOP	206.40	VP	37.791	GAP	-.12	AZP	75.45	TAL	168.91	TAP	359.16	RCA	108.02	APO	149.91	V2	35.082
RC	78.316	GL	-61.89	GP	83.95	ZAL	78.96	ZAP	88.39	ETS	332.28	ZAE	102.42	ETE	77.20	ZAC	71.65	ETC	209.94	CLP	-74.53

PLANETOCENTRIC CONIC

C3	62.401	VHL	7.899	DLA	-72.15	RAL	4.14	RAD	6569.2	VEL	13.556	PTH	2.48	VHP	10.938	DPA	60.38	RAP	284.93	ECC	2.0270

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
20.38	11 3 16	2057.91	24.53	72.41	265.67	160.31	11 37 34	1457.9	32.03	69.66
159.62	21 41 39	5579.96	24.53	257.68	265.69	160.31	23 14 39	4980.0	32.03	254.93
20.38	11 3 16	2057.91	24.53	72.41	265.67	160.31	11 37 34	1457.9	32.03	69.66
159.62	21 41 39	5579.96	24.53	257.68	265.69	160.31	23 14 39	4980.0	32.03	254.93
20.38	11 3 16	2057.91	24.53	72.41	265.67	160.31	11 37 34	1457.9	32.03	69.66
159.62	21 41 39	5579.96	24.53	257.68	265.69	160.31	23 14 39	4980.0	32.03	254.93

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-1.0172	TRA	-.2771	TC3	-.0282	BAU	.2476	SGT	988.0	SGR	4598.4	SG3	172.6	ST	763.6	SR	1646.9	SS	738.5		
RDE	-1.3155	RRA	-1.8910	RC3	.2955	FAU	.01172	RRT	.7960	RRF	-.9978	RTF	-.8269	CRT	.7698	CRS	.9915	CST	.8463		
FDE	.7333	FRA	.8066	FC3	-.1626	BSP	14780	SGB	4703.3	R23	.0321	R13	-.9987	LSA	1905.6	MSA	457.4	SSA	2.1		
BDE	1.6629	BRA	1.9112	BC3	.2968	FSP	-559	SG1	4666.2	SG2	589.3	THA	80.14	EL1	1756.8	EL2	456.9	ALF	68.86		

LAUNCH DATE OCT 10 1965 FLIGHT TIME 160.00 ARRIVAL DATE MAR 19 1966

HELIOCENTRIC CONIC DISTANCE 436.487

RL	149.37	LAL	.00	LOL	16.48	VL	27.352	GAL	2.18	AZL	100.77	HCA	193.36	SMA	129.00	ECC	.16237	INC	10.7664	VI	29.830
RP	108.06	LAP	2.47	LOP	209.62	VP	37.782	GAP	.28	AZP	79.52	TAL	168.62	TAP	1.98	RCA	108.05	APO	149.94	V2	35.069
RC	80.581	GL	-56.74	GP	78.04	ZAL	75.41	ZAP	89.66	ETS	348.79	ZAE	107.85	ETE	92.69	ZAC	66.21	ETC	222.10	CLP	-88.38

PLANETOCENTRIC CONIC

C3	37.284	VHL	6.106	DLA	-67.61	RAL	355.43	RAD	6568.5	VEL	12.596	PTH	2.28	VHP	8.560	DPA	54.30	RAP	286.26	ECC	1.6136

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
25.64	10 39 51	1915.28	31.66	63.91	250.70	153.41	11 11 46	1315.3	38.74	59.74
154.36	20 55 38	5465.96	31.67	254.72	250.72	153.41	22 26 44	4866.0	38.74	250.56
25.64	10 39 51	1915.28	31.66	63.91	250.70	153.41	11 11 46	1315.3	38.74	59.74
154.36	20 55 38	5465.96	31.67	254.72	250.72	153.41	22 26 44	4866.0	38.74	250.56
25.64	10 39 51	1915.28	31.66	63.91	250.70	153.41	11 11 46	1315.3	38.74	59.74
154.36	20 55 38	5465.96	31.67	254.72	250.72	153.41	22 26 44	4866.0	38.74	250.56

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-.5395	TRA	.2148	TC3	-.2086	BAU	.3819	SGT	775.3	SGR	4674.0	SG3	243.0	ST	530.6	SR	1474.5	SS	683.7		
RDE	-.5915	RRA	-1.8484	RC3	.7372	FAU	.02277	RRT	-.6505	RRF	-.9984	RTF	.6276	CRT	.0818	CRS	.9933	CST	.1964		
FDE	.4739	FRA	1.0966	FC3	-.5287	BSP	14870	SGB	4737.8	R23	.0424	R13	-.9980	LSA	1624.8	MSA	532.3	SSA	2.8		
BDE	.8006	BRA	1.8608	BC3	.7661	FSP	-788	SG1	4701.5	SG2	585.4	THA	96.26	EL1	1475.3	EL2	528.5	ALF	88.07		

LAUNCH DATE OCT 10 1965 FLIGHT TIME 162.00 ARRIVAL DATE MAR 21 1966

HELIOCENTRIC CONIC DISTANCE 442.761

RL	149.37	LAL	.00	LOL	16.48	VL	27.354	GAL	2.24	AZL	98.26	HCA	196.51	SMA	129.01	ECC	.16248	INC	8.2614	VI	29.830
RP	108.10	LAP	2.34	LOP	212.83	VP	37.771	GAP	.68	AZP	82.07	TAL	168.33	TAP	4.84	RCA	108.05	APO	149.97	V2	35.056
RC	82.862	GL	-50.94	GP	72.82	ZAL	71.97	ZAP	91.69	ETS	357.77	ZAE	112.27	ETE	101.23	ZAC	61.41	ETC	226.89	CLP	-95.73

PLANETOCENTRIC CONIC

C3	25.584	VHL	5.058	DLA	-62.48	RAL	348.34	RAD	6568.0	VEL	12.123	PTH	2.17	VHP	7.126	DPA	48.99	RAP	286.74	ECC	1.4210

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
31.66	10 25 24	1799.30	35.60	53.74	236.43	145.37	10 55 23	1199.3	42.03	48.05
148.34	20 13 28	5393.06	35.61	251.32	236.44	145.37	21 43 21	4793.1	42.04	245.63
31.66	10 25 24	1799.30	35.60	53.74	236.43	145.37	10 55 23	1199.3	42.03	48.05
148.34	20 13 28	5393.06	35.61	251.32	236.44	145.37	21 43 21	4793.1	42.04	245.63
31.66	10 25 24	1799.30	35.60	53.74	236.43	145.37	10 55 23	1199.3	42.03	48.05
148.34	20 13 28	5393.06	35.61	251.32	236.44	145.37	21 43 21	4793.1	42.04	245.63

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-.4162	TRA	.4741	TC3	-.5246	BAU	.4494	SGT	1362.0	SGR	4546.7	SG3	323.2	ST	586.7	SR	1334.0	SS	686.1		
RDE	-.2098	RRA	-1.7840	RC3	1.2046	FAU	.03375	RRT	-.9073	RRF	-.9984	RTF	.8976	CRT	-.4423	CRS	.9922	CST	-.3268		
FDE	.2948	FRA	1.4447	FC3	-1.1421	BSP	14921	SGB	4746.3	R23	.0519	R13	-.9972	LSA	1521.0	MSA	530.3	SSA	3.6		
BDE	.4661	BRA	1.8460	BC3	1.3138	FSP	-1054	SG1	4714.1	SG2	552.3	THA	105.42	EL1	1363.4	EL2	514.9	ALF	102.87		

LAUNCH DATE OCT 10 1965 FLIGHT TIME 164.00 ARRIVAL DATE MAR 23 1966

HELIOCENTRIC CONIC DISTANCE 449.034

RL	149.37	LAL	.00	LOL	16.48	VL	27.354	GAL	2.30	AZL	96.54	HCA	199.67	SMA	129.01	ECC	.16278	INC	6.5435	VI	29.830
RP	108.14	LAP	2.20	LOP	216.04	VP	37.759	GAP	1.07	AZP	83.84	TAL	168.01	TAP	7.68	RCA	108.01	APO	150.01	V2	35.043
RC	85.157	GL	-45.01	GP	68.02	ZAL	68.74	ZAP	94.35	ETS	4.33	ZAE	115.97	ETE	108.00	ZAC	56.94	ETC	229.49	CLP	-101.70

PLANETOCENTRIC CONIC

C3	19.392	VHL	4.404	DLA	-57.09	RAL	343.08	RAD	6567.8	VEL	11.865	PTH	2.10	VHP	6.194	DPA	44.10	RAP	286.75	ECC	1.3191

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
38.11	10 20 49	1701.81	36.84	42.92	224.05	137.23	10 49 11	1101.8	42.50	35.98
141.89	19 36 8	5356.34	36.86	248.46	224.07	137.23	21 5 24	4756.3	42.51	241.51
38.11	10 20 49	1701.81	36.84	42.92	224.05	137.23	10 49 11	1101.8	42.50	35.98
141.89	19 36 8	5356.34	36.86	248.46	224.07	137.23	21 5 24	4756.3	42.51	241.51
38.11	10 20 49	1701.81	36.84	42.92	224.05	137.23	10 49 11	1101.8	42.50	35.98
141.89	19 36 8	5356.34	36.86	248.46	224.07	137.23	21 5 24	4756.3	42.51	241.51

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-.3542	TRA	.6802	TC3	-.9518	BAU	.4876	SGT	1888.8	SGR	4357.5	SG3	407.8	ST	672.1	SR	1238.7	SS	720.2		
RDE	-.0688	RRA	-1.7188	RC3	1.6219	FAU	.04436	RRT	-.9549	RRF	-.9981	RTF	.9485	CRT	-.6764	CRS	.9894	CST	-.5627		
FDE	.2233	FRA	1.8279	FC3	-1.9804	BSP	14860	SGB	4749.2	R23	.0616	R13	-.9964	LSA	1503.4	MSA	494.5	SSA	4.4		
BDE	.3608	BRA	1.8485	BC3	1.8806	FSP	-1330	SG1	4720.9	SG2	517.6	THA	112.77	EL1	1332.0	EL2	460.4	ALF	113.07		

LAUNCH DATE OCT 10 1965 FLIGHT TIME 166.00 ARRIVAL DATE MAR 25 1966

HELIOCENTRIC CONIC DISTANCE 455.298

RL 149.37 LAL .00 LOL 16.48 VL 27.351 GAL 2.38 AZL 95.29 HCA 202.85 SMA 128.99 ECC .16326 INC 5.2873 V1 29.830
RP 108.18 LAP 2.05 LOP 219.24 VP 37.744 GAP 1.47 AZP 85.13 TAL 167.64 TAP 10.49 RCA 107.93 APO 150.05 V2 35.030
RC 87.465 GL -39.24 GP 63.49 ZAL 65.78 ZAP 97.53 ETS 9.61 ZAE 119.06 ETE 114.12 ZAC 52.67 ETC 231.00 CLP-107.07

PLANETOCENTRIC CONIC

C3 15.845 VHL 3.981 DLA -51.69 RAL 339.27 RAD 6567.6 VEL 11.714 PTH 2.06 VHP 5.562 DPA 39.49 RAP 286.50 ECC 1.2608

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
44.76	10 24 40	1614.06	36.17	32.25	213.98	129.84	10 51 34	1014.1	41.03	24.52
135.24	19 1 51	5350.42	36.18	247.00	213.99	129.83	20 31 2	4750.4	41.04	239.27
44.76	10 24 40	1614.06	36.17	32.25	213.98	129.84	10 51 34	1014.1	41.03	24.52
135.24	19 1 51	5350.42	36.18	247.00	213.99	129.83	20 31 2	4750.4	41.04	239.27
44.76	10 24 40	1614.06	36.17	32.25	213.98	129.84	10 51 34	1014.1	41.03	24.52
135.24	19 1 51	5350.42	36.18	247.00	213.99	129.83	20 31 2	4750.4	41.04	239.27

DIFFERENTIAL CORRECTIONS

TDE -.2937 TRA .8663 TC3-1.4544 BAU .5143
RDE -.0394 RRA-1.6448 RC3 1.9444 FAU .05433
FDE .2441 FRA 2.2173 FC3-2.9688 BSP 14851
BDE .2963 BRA 1.8590 BC3 2.4281 FSP -1606

MID-COURSE EXECUTION ACCURACY

SGT 2359.3 SGR 4121.6 SG3 490.4
RRT -.9720 RRF -.9978 RTF .9667
SGB 4749.0 R23 .0711 R13 -.9954
SG1 4724.4 SG2 483.5 THA 119.43

ORBIT DETERMINATION ACCURACY

ST 737.6 SR 1148.2 SS 762.0
CRT -.7901 CRS .9849 CST -.6721
LSA 1494.9 MSA 456.5 SSA 5.3
EL1 1305.5 EL2 397.7 ALF 119.98

LAUNCH DATE OCT 10 1965 FLIGHT TIME 168.00 ARRIVAL DATE MAR 27 1966

HELIOCENTRIC CONIC DISTANCE 461.548

RL 149.37 LAL .00 LOL 16.48 VL 27.346 GAL 2.47 AZL 94.32 HCA 206.03 SMA 128.96 ECC .16392 INC 4.3244 V1 29.830
RP 108.22 LAP 1.90 LOP 222.45 VP 37.729 GAP 1.86 AZP 86.11 TAL 167.24 TAP 13.27 RCA 107.82 APO 150.10 V2 35.016
RC 89.783 GL -33.79 GP 59.16 ZAL 63.12 ZAP 101.09 ETS 13.97 ZAE 121.60 ETE 119.94 ZAC 48.59 ETC 231.74 CLP-112.03

PLANETOCENTRIC CONIC

C3 13.718 VHL 3.704 DLA -46.49 RAL 336.50 RAD 6567.5 VEL 11.623 PTH 2.04 VHP 5.126 DPA 35.09 RAP 286.13 ECC 1.2258

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
51.45	10 35 51	1528.31	34.29	21.98	206.16	123.57	11 1 19	928.3	38.42	13.89
128.55	18 28 36	5371.95	34.30	247.42	206.17	123.56	19 58 8	4772.0	38.43	239.33
51.45	10 35 51	1528.31	34.29	21.98	206.16	123.57	11 1 19	928.3	38.42	13.89
128.55	18 28 36	5371.95	34.30	247.42	206.17	123.56	19 58 8	4772.0	38.43	239.33
51.45	10 35 51	1528.31	34.29	21.98	206.16	123.57	11 1 19	928.3	38.42	13.89
128.55	18 28 36	5371.95	34.30	247.42	206.17	123.56	19 58 8	4772.0	38.43	239.33

DIFFERENTIAL CORRECTIONS

TDE -.2210 TRA 1.0423 TC3-1.9873 BAU .5359
RDE -.0581 RRA-1.5635 RC3 2.1423 FAU .06312
FDE .3401 FRA 2.5909 FC3-3.9834 BSP 14871
BDE .2285 BRA 1.8791 BC3 2.9221 FSP -1863

MID-COURSE EXECUTION ACCURACY

SGT 2787.4 SGR 3856.1 SG3 565.7
RRT -.9800 RRF -.9974 RTF .9752
SGB 4758.0 R23 .0794 R13 -.9943
SG1 4736.6 SG2 451.1 THA 125.69

ORBIT DETERMINATION ACCURACY

ST 782.6 SR 1058.9 SS 808.8
CRT -.8591 CRS .9786 CST -.7356
LSA 1486.3 MSA 422.7 SSA 6.4
EL1 1273.9 EL2 332.9 ALF 125.17

LAUNCH DATE OCT 10 1965 FLIGHT TIME 170.00 ARRIVAL DATE MAR 29 1966

HELIOCENTRIC CONIC DISTANCE 467.781

RL 149.37 LAL .00 LOL 16.48 VL 27.340 GAL 2.57 AZL 93.56 HCA 209.21 SMA 128.91 ECC .16476 INC 3.5588 V1 29.830
RP 108.26 LAP 1.74 LOP 225.65 VP 37.712 GAP 2.25 AZP 86.89 TAL 166.79 TAP 16.00 RCA 107.67 APO 150.15 V2 35.003
RC 92.112 GL -28.75 GP 55.03 ZAL 60.76 ZAP 104.89 ETS 17.58 ZAE 123.60 ETE 125.51 ZAC 44.71 ETC 231.82 CLP-116.65

PLANETOCENTRIC CONIC

C3 12.424 VHL 3.525 DLA -41.60 RAL 334.50 RAD 6567.5 VEL 11.568 PTH 2.02 VHP 4.826 DPA 30.90 RAP 285.74 ECC 1.2045

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
58.15	10 54 12	1437.09	31.74	11.91	200.31	118.44	11 18 9	837.1	35.26	3.71
121.85	17 54 14	5420.41	31.75	249.98	200.32	118.42	19 24 35	4820.4	35.27	241.78
58.15	10 54 12	1437.09	31.74	11.91	200.31	118.44	11 18 9	837.1	35.26	3.71
121.85	17 54 14	5420.41	31.75	249.98	200.32	118.42	19 24 35	4820.4	35.27	241.78
58.15	10 54 12	1437.09	31.74	11.91	200.31	118.44	11 18 9	837.1	35.26	3.71
121.85	17 54 14	5420.41	31.75	249.98	200.32	118.42	19 24 35	4820.4	35.27	241.78

DIFFERENTIAL CORRECTIONS

TDE -.1347 TRA 1.2109 TC3-2.5070 BAU .5557
RDE -.0904 RRA-1.4767 RC3 2.2154 FAU .07031
FDE .4858 FRA 2.9278 FC3-4.8992 BSP 14950
BDE .1622 BRA 1.9097 BC3 3.3456 FSP -2086

MID-COURSE EXECUTION ACCURACY

SGT 3178.1 SGR 3572.7 SG3 629.3
RRT -.9844 RRF -.9967 RTF .9799
SGB 4781.7 R23 .0851 R13 -.9931
SG1 4763.2 SG2 419.3 THA 131.60

ORBIT DETERMINATION ACCURACY

ST 821.2 SR 975.2 SS 862.6
CRT -.9125 CRS .9712 CST -.7890
LSA 1489.2 MSA 389.7 SSA 7.6
EL1 1247.6 EL2 262.6 ALF 129.64

LAUNCH DATE OCT 10 1965 FLIGHT TIME 172.00 ARRIVAL DATE MAR 31 1966

HELIOCENTRIC CONIC DISTANCE 473.995

RL 149.37 LAL .00 LOL 16.48 VL 27.332 GAL 2.68 AZL 92.93 HCA 212.39 SMA 128.85 ECC .16578 INC 2.9322 V1 29.830
RP 108.31 LAP 1.57 LOP 228.84 VP 37.693 GAP 2.63 AZP 87.52 TAL 166.30 TAP 18.69 RCA 107.49 APO 150.22 V2 34.990
RC 94.449 GL -24.15 GP 51.09 ZAL 58.68 ZAP 108.84 ETS 20.57 ZAE 125.11 ETE 130.82 ZAC 41.08 ETC 231.24 CLP-120.93

PLANETOCENTRIC CONIC

C3 11.654 VHL 3.414 DLA -37.07 RAL 333.05 RAD 6567.4 VEL 11.534 PTH 2.01 VHP 4.626 DPA 26.92 RAP 285.41 ECC 1.1918

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
65.01	11 20 54	1330.99	28.91	1.41	196.05	114.28	11 43 5	731.0	31.93	353.23
114.99	17 16 0	5499.53	28.92	254.98	196.06	114.27	18 47 40	4899.5	31.94	246.80
65.01	11 20 54	1330.99	28.91	1.41	196.05	114.28	11 43 5	731.0	31.93	353.23
114.99	17 16 0	5499.53	28.92	254.98	196.06	114.27	18 47 40	4899.5	31.94	246.80
65.01	11 20 54	1330.99	28.91	1.41	196.05	114.28	11 43 5	731.0	31.93	353.23
114.99	17 16 0	5499.53	28.92	254.98	196.06	114.27	18 47 40	4899.5	31.94	246.80

DIFFERENTIAL CORRECTIONS

TDE -.0366 TRA 1.3740 TC3-2.9796 BAU .5754
RDE -.1219 RRA-1.3876 RC3 2.1818 FAU .07563
FDE .6609 FRA 3.2140 FC3-5.6185 BSP 15088
BDE .1273 BRA 1.9528 BC3 3.6930 FSP -2264

MID-COURSE EXECUTION ACCURACY

SGT 3534.8 SGR 3283.1 SG3 678.4
RRT -.9869 RRF -.9959 RTF .9827
SGB 4824.3 R23 .0874 R13 -.9920
SG1 4808.5 SG2 389.9 THA 137.14

ORBIT DETERMINATION ACCURACY

ST 871.3 SR 900.3 SS 925.1
CRT -.9552 CRS .9636 CST -.8416
LSA 1515.9 MSA 357.0 SSA 8.9
EL1 1238.8 EL2 187.4 ALF 134.02

LAUNCH DATE OCT 10 1965 FLIGHT TIME 174.00 ARRIVAL DATE APR 2 1966

HELIOCENTRIC CONIC DISTANCE 480.188

RL 149.37 LAL .00 LOL 16.48 VL 27.322 GAL 2.80 AZL 92.41 HCA 215.58 SMA 128.79 ECC .16697 INC 2.4070 V1 29.830
RP 108.35 LAP 1.40 LOP 232.04 VP 37.674 GAP 3.01 AZP 88.04 TAL 165.76 TAP 21.34 RCA 107.28 APO 150.29 V2 34.977
RC 96.794 GL -19.99 GP 47.37 ZAL 56.83 ZAP 112.81 ETS 23.01 ZAE 126.17 ETE 135.81 ZAC 37.74 ETC 230.01 CLP-124.91

PLANETOCENTRIC CONIC

C3 11.236 VHL 3.352 DLA -32.92 RAL 332.03 RAD 6567.4 VEL 11.516 PTH 2.01 VHP 4.502 DPA 23.17 RAP 285.18 ECC 1.1849

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
72.47	12 0 3	1192.84	26.02	349.17	193.05	110.90	12 19 56	592.8	28.63	341.07
107.53	16 28 43	5622.51	26.04	263.32	193.06	110.89	18 2 26	5022.5	28.64	255.21
72.47	12 0 3	1192.84	26.02	349.17	193.05	110.90	12 19 56	592.8	28.63	341.07
107.53	16 28 43	5622.51	26.04	263.32	193.06	110.89	18 2 26	5022.5	28.64	255.21
110.00	15 33 43	5791.82	20.77	273.80	190.46	117.78	17 10 15	5191.8	24.32	266.46
110.00	17 54 14	5359.56	31.53	244.95	195.02	103.93	19 23 33	4759.6	33.13	236.08

DIFFERENTIAL CORRECTIONS

TDE .0729 TRA 1.5352 TC3-3.3747 BAU .5938
RDE -.1485 RRA-1.3015 RC3 2.0585 FAU .07863
FDE .8523 FRA 3.4486 FC3-6.0589 BSP 15215
BDE .1654 BRA 2.0127 BC3 3.9530 FSP -2377

MID-COURSE EXECUTION ACCURACY

SGT 3860.8 SGR 2998.7 SG3 712.1
RRT -.9880 RRF -.9947 RTF .9843
SGB 4888.5 R23 .0862 R13 -.9910
SG1 4874.7 SG2 367.3 THA 142.25

ORBIT DETERMINATION ACCURACY

ST 948.5 SR 835.6 SS 997.3
CRT -.9842 CRS .9566 CST -.8903
LSA 1576.8 MSA 325.8 SSA 10.3
EL1 1259.1 EL2 111.4 ALF 138.68

LAUNCH DATE OCT 10 1965 FLIGHT TIME 176.00 ARRIVAL DATE APR 4 1966

HELIOCENTRIC CONIC DISTANCE 486.361

RL 149.37 LAL .00 LOL 16.48 VL 27.310 GAL 2.94 AZL 91.96 HCA 218.76 SMA 128.71 ECC .16834 INC 1.9580 V1 29.830
RP 108.39 LAP 1.23 LOP 235.23 VP 37.654 GAP 3.39 AZP 88.47 TAL 165.18 TAP 23.94 RCA 107.04 APO 150.38 V2 34.964
RC 99.145 GL -16.27 GP 43.88 ZAL 55.19 ZAP 116.73 ETS 25.01 ZAE 126.81 ETE 140.44 ZAC 34.74 ETC 228.10 CLP-128.61

PLANETOCENTRIC CONIC

C3 11.068 VHL 3.327 DLA -29.14 RAL 331.34 RAD 6567.4 VEL 11.509 PTH 2.00 VHP 4.436 DPA 19.66 RAP 285.08 ECC 1.1822

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
82.81	13 12 7	952.94	23.22	330.07	191.02	108.12	13 28 0	352.9	25.48	322.06
97.19	15 11 8	5856.20	23.23	279.76	191.02	108.11	16 48 44	5256.2	25.49	271.75
100.00	14 36 46	678.49	19.40	308.46	189.47	113.20	14 48 4	78.5	22.37	300.92
100.00	16 29 10	5605.88	27.16	262.45	192.23	102.99	18 2 36	5005.9	28.68	253.97
110.00	14 22 19	723.99	13.29	308.58	186.16	121.79	14 34 23	124.0	17.40	301.88
110.00	19 0 7	5133.15	33.97	227.77	193.42	94.07	20 25 40	4533.1	34.16	218.53

DIFFERENTIAL CORRECTIONS

TDE .1871 TRA 1.6908 TC3-3.6974 BAU .6149
RDE -.1628 RRA-1.2158 RC3 1.8975 FAU .08017
FDE 1.0304 FRA 3.6160 FC3-6.2712 BSP 15500
BDE .2480 BRA 2.0825 BC3 4.1558 FSP -2457

MID-COURSE EXECUTION ACCURACY

SGT 4155.9 SGR 2723.9 SG3 730.1
RRT -.9884 RRF -.9931 RTF .9855
SGB 4969.0 R23 .0803 R13 -.9902
SG1 4956.8 SG2 346.9 THA 146.88

ORBIT DETERMINATION ACCURACY

ST 1053.4 SR 772.8 SS 1066.4
CRT -.9980 CRS .9491 CST -.9283
LSA 1659.9 MSA 297.8 SSA 11.6
EL1 1305.9 EL2 39.6 ALF 143.75

LAUNCH DATE OCT 10 1965 FLIGHT TIME 178.00 ARRIVAL DATE APR 6 1966

HELIOCENTRIC CONIC DISTANCE 492.512

RL 149.37 LAL .00 LOL 16.48 VL 27.298 GAL 3.10 AZL 91.57 HCA 221.94 SMA 128.62 ECC .16989 INC 1.5674 V1 29.830
RP 108.43 LAP 1.05 LOP 238.42 VP 37.633 GAP 3.77 AZP 88.83 TAL 164.56 TAP 26.51 RCA 106.77 APO 150.47 V2 34.951
RC 101.502 GL -12.94 GP 40.64 ZAL 53.71 ZAP 120.53 ETS 26.63 ZAE 127.12 ETE 144.64 ZAC 32.12 ETC 225.51 CLP-132.03

PLANETOCENTRIC CONIC

C3 11.089 VHL 3.330 DLA -25.72 RAL 330.91 RAD 6567.4 VEL 11.510 PTH 2.00 VHP 4.418 DPA 16.42 RAP 285.14 ECC 1.1825

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 23 45	1110.53	13.82	337.65	187.13	114.96	12 42 16	510.5	17.08	330.48
90.00	15 56 3	5699.38	27.63	269.39	191.27	96.47	17 31 3	5099.4	28.24	260.78
100.00	13 19 21	931.02	11.97	323.52	186.19	117.59	13 34 52	331.0	15.58	316.59
100.00	17 43 9	5354.12	29.68	244.20	191.48	93.73	19 12 23	4754.1	29.88	235.40
110.00	13 40 42	864.01	8.15	316.17	183.91	123.31	13 55 6	264.0	12.48	309.75
110.00	19 38 17	4993.89	34.11	216.90	191.54	87.65	21 1 31	4393.9	33.41	207.73

DIFFERENTIAL CORRECTIONS

TDE .3068 TRA 1.8448 TC3-3.9360 BAU .6361
RDE -.1688 RRA-1.1354 RC3 1.7077 FAU .07992
FDE 1.1940 FRA 3.7284 FC3-6.2398 BSP 15819
BDE .3502 BRA 2.1662 BC3 4.2905 FSP -2488

MID-COURSE EXECUTION ACCURACY

SGT 4423.0 SGR 2465.8 SG3 734.1
RRT -.9879 RRF -.9911 RTF .9863
SGB 5063.9 R23 .0715 R13 -.9896
SG1 5052.9 SG2 334.3 THA 151.02

ORBIT DETERMINATION ACCURACY

ST 1184.1 SR 713.2 SS 1132.4
CRT -.9989 CRS .9408 CST -.9544
LSA 1765.6 MSA 275.3 SSA 12.7
EL1 1382.0 EL2 28.8 ALF 148.95

LAUNCH DATE OCT 10 1965 FLIGHT TIME 180.00 ARRIVAL DATE APR 8 1966

HELIOCENTRIC CONIC DISTANCE 498.640

RL 149.37 LAL .00 LOL 16.48 VL 27.284 GAL 3.26 AZL 91.22 HCA 225.12 SMA 128.53 ECC .17162 INC 1.2226 V1 29.830
RP 108.46 LAP .87 LOP 241.60 VP 37.611 GAP 4.14 AZP 89.14 TAL 163.90 TAP 29.03 RCA 106.47 APO 150.59 V2 34.939
RC 103.862 GL -9.97 GP 37.65 ZAL 52.36 ZAP 124.18 ETS 27.96 ZAE 127.15 ETE 148.41 ZAC 29.92 ETC 222.27 CLP-135.20

PLANETOCENTRIC CONIC

C3 11.259 VHL 3.356 DLA -22.63 RAL 330.68 RAD 6567.4 VEL 11.517 PTH 2.01 VHP 4.439 DPA 13.44 RAP 285.37 ECC 1.1853

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 32 11	1289.81	8.45	348.07	185.37	117.13	11 53 41	689.8	12.02	341.21
90.00	16 45 51	5526.40	28.32	256.80	190.43	90.20	18 17 58	4926.4	28.04	248.14
100.00	12 36 46	1081.34	7.10	332.03	184.65	119.11	12 54 47	481.3	10.93	325.33
100.00	18 23 57	5210.10	29.84	233.50	190.41	88.11	19 50 47	4610.1	29.26	224.75
110.00	13 10 38	975.18	3.96	322.04	182.70	123.98	13 26 53	375.2	8.39	315.76
110.00	20 6 35	4889.02	33.52	208.78	190.07	82.87	21 28 4	4289.0	32.17	199.80

DIFFERENTIAL CORRECTIONS

TDE .4305 TRA 1.9980 TC3-4.0985 BAU .6576
RDE -.1672 RRA-1.0613 RC3 1.5132 FAU .07836
FDE 1.3358 FRA 3.7917 FC3-6.0248 BSP 16180
BDE .4618 BRA 2.2624 BC3 4.3689 FSP -2479

MID-COURSE EXECUTION ACCURACY

SGT 4665.5 SGR 2228.8 SG3 726.7
RRT -.9867 RRF -.9883 RTF .9868
SGB 5170.6 R23 .0609 R13 -.9890
SG1 5160.1 SG2 327.9 THA 154.65

ORBIT DETERMINATION ACCURACY

ST 1332.9 SR 655.2 SS 1191.1
CRT -.9909 CRS .9309 CST -.9711
LSA 1886.2 MSA 258.7 SSA 13.6
EL1 1483.1 EL2 79.1 ALF 153.95

LAUNCH DATE OCT 10 1965 FLIGHT TIME 182.00 ARRIVAL DATE APR 10 1966

HELIOCENTRIC CONIC DISTANCE 504.746

RL 149.37 LAL .00 LOL 16.48 VL 27.268 GAL 3.44 AZL 90.91 HCA 228.30 SMA 128.42 ECC .17354 INC .9142 VI 29.830
RP 108.50 LAP .68 LOP 244.78 VP 37.589 GAP 4.52 AZP 89.39 TAL 163.20 TAP 31.51 RCA 106.14 APO 150.71 V2 34.926
RC 106.225 GL -7.34 GP 34.91 ZAL 51.12 ZAP 127.64 ETS 29.06 ZAE 126.97 ETE 151.74 ZAC 28.17 ETC 218.46 CLP-138.14

PLANETOCENTRIC CONIC

C3 11.556 VHL 3.399 DLA -19.83 RAL 330.63 RAD 6567.4 VEL 11.530 PTH 2.01 VHP 4.491 DPA 10.72 RAP 285.76 ECC 1.1902

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 57 25	1420.71	4.32	355.47	184.60	118.01	11 21 6	820.7	8.03	348.76
90.00	17 20 12	5406.30	28.03	248.03	189.77	85.82	18 50 19	4806.3	27.16	239.47
100.00	12 6 10	1198.87	3.17	338.53	183.97	119.74	12 26 8	598.9	7.10	331.95
100.00	18 54 9	5103.38	29.34	225.61	189.64	83.99	20 19 12	4503.4	28.19	217.00
110.00	12 47 21	1069.81	.34	326.98	182.21	124.18	13 5 10	469.8	4.83	320.77
110.00	20 29 27	4805.20	32.63	202.40	189.07	79.20	21 49 33	4205.2	30.80	193.66

DIFFERENTIAL CORRECTIONS
TDE .5594 TRA 2.1544 TC3-4.1821 BAU .6775
RDE -.1609 RRA -.9955 RC3 1.3189 FAU .07540
FDE 1.4587 FRA 3.8202 FC3-5.6488 BSP 16502
BDE .5821 BRA 2.3733 BC3 4.3851 FSP -2425

MID-COURSE EXECUTION ACCURACY
SGT 4886.1 SGR 2014.7 SG3 710.6
RRT -.9844 RRF -.9849 RTF .9869
SGB 5285.2 R23 .0509 R13 -.9885
SG1 5275.0 SG2 328.4 THA 157.82

ORBIT DETERMINATION ACCURACY
ST 1495.8 SR 600.5 SS 1243.8
CRT -.9771 CRS .9189 CST -.9815
LSA 2020.8 MSA 247.0 SSA 14.2
EL1 1607.4 EL2 118.8 ALF 158.46

LAUNCH DATE OCT 10 1965 FLIGHT TIME 184.00 ARRIVAL DATE APR 12 1966

HELIOCENTRIC CONIC DISTANCE 510.828

RL 149.37 LAL .00 LOL 16.48 VL 27.252 GAL 3.64 AZL 90.64 HCA 231.48 SMA 128.31 ECC .17565 INC .6349 VI 29.830
RP 108.54 LAP .50 LOP 247.97 VP 37.566 GAP 4.89 AZP 89.60 TAL 162.47 TAP 33.95 RCA 105.77 APO 150.85 V2 34.914
RC 108.588 GL -5.00 GP 32.42 ZAL 49.95 ZAP 130.90 ETS 29.99 ZAE 126.65 ETE 154.65 ZAC 26.86 ETC 214.17 CLP-140.87

PLANETOCENTRIC CONIC

C3 11.965 VHL 3.459 DLA -17.30 RAL 330.72 RAD 6567.5 VEL 11.548 PTH 2.02 VHP 4.570 DPA 8.26 RAP 286.32 ECC 1.1969

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 31 4	1528.32	.85	1.49	184.46	118.31	10 56 32	928.3	4.63	354.84
90.00	17 47 16	5313.24	27.39	241.30	189.44	82.51	19 15 50	4713.2	26.07	232.88
100.00	11 42 25	1298.11	-.19	343.98	183.88	119.89	12 4 3	698.1	3.78	337.45
100.00	19 18 37	5018.68	28.57	219.43	189.24	80.82	20 42 15	4418.7	27.01	210.98
110.00	12 28 40	1153.21	-2.84	331.33	182.22	124.08	12 47 53	553.2	1.65	325.13
110.00	20 48 51	4736.35	31.64	197.28	188.53	76.32	22 7 47	4136.4	29.43	188.76

DIFFERENTIAL CORRECTIONS
TDE .6879 TRA 2.3092 TC3-4.2142 BAU .6985
RDE -.1484 RRA -.9348 RC3 1.1453 FAU .07202
FDE 1.5506 FRA 3.8096 FC3-5.2112 BSP 16920
BDE .7037 BRA 2.4913 BC3 4.3670 FSP -2363

MID-COURSE EXECUTION ACCURACY
SGT 5084.2 SGR 1821.7 SG3 687.3
RRT -.9812 RRF -.9804 RTF .9870
SGB 5400.7 R23 .0406 R13 -.9881
SG1 5390.5 SG2 331.6 THA 160.55

ORBIT DETERMINATION ACCURACY
ST 1658.5 SR 545.6 SS 1281.9
CRT -.9580 CRS .9024 CST -.9879
LSA 2152.7 MSA 239.5 SSA 14.5
EL1 1739.6 EL2 149.2 ALF 162.37

LAUNCH DATE OCT 10 1965 FLIGHT TIME 186.00 ARRIVAL DATE APR 14 1966

HELIOCENTRIC CONIC DISTANCE 516.885

RL 149.37 LAL .00 LOL 16.48 VL 27.235 GAL 3.85 AZL 90.38 HCA 234.66 SMA 128.20 ECC .17795 INC .3794 VI 29.830
RP 108.58 LAP .31 LOP 251.14 VP 37.542 GAP 5.27 AZP 89.78 TAL 161.69 TAP 36.35 RCA 105.38 APO 151.01 V2 34.903
RC 110.951 GL -2.92 GP 30.16 ZAL 48.85 ZAP 133.97 ETS 30.80 ZAE 126.22 ETE 157.18 ZAC 26.00 ETC 209.59 CLP-143.42

PLANETOCENTRIC CONIC

C3 12.476 VHL 3.532 DLA -15.01 RAL 330.93 RAD 6567.5 VEL 11.570 PTH 2.02 VHP 4.672 DPA 6.05 RAP 287.03 ECC 1.2053

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 10 4	1621.38	-2.15	6.68	184.78	118.24	10 37 6	1021.4	1.64	.05
90.00	18 9 55	5237.92	26.60	235.93	189.43	79.92	19 37 13	4637.9	24.94	227.65
100.00	11 23 17	1385.18	-3.14	348.76	184.23	119.74	11 46 22	785.2	.84	342.24
100.00	19 39 24	4949.35	27.72	214.46	189.19	78.34	21 1 54	4349.3	25.83	206.17
110.00	12 13 22	1228.30	-5.70	335.27	182.64	123.76	12 33 50	628.3	-1.22	329.05
110.00	21 5 48	4679.00	30.64	193.11	188.37	74.04	22 23 47	4079.0	28.15	184.80

DIFFERENTIAL CORRECTIONS
TDE .8186 TRA 2.4675 TC3-4.1938 BAU .7187
RDE -.1328 RRA -.8816 RC3 .9882 FAU .06806
FDE 1.6213 FRA 3.7774 FC3-4.7229 BSP 17321
BDE .8293 BRA 2.6203 BC3 4.3087 FSP -2279

MID-COURSE EXECUTION ACCURACY
SGT 5264.4 SGR 1651.0 SG3 659.7
RRT -.9768 RRF -.9748 RTF .9869
SGB 5517.2 R23 .0321 R13 -.9877
SG1 5506.8 SG2 338.1 THA 162.90

ORBIT DETERMINATION ACCURACY
ST 1821.2 SR 494.1 SS 1311.0
CRT -.9336 CRS .8811 CST -.9919
LSA 2285.6 MSA 235.0 SSA 14.7
EL1 1879.2 EL2 171.6 ALF 165.66

LAUNCH DATE OCT 10 1965 FLIGHT TIME 188.00 ARRIVAL DATE APR 16 1966

HELIOCENTRIC CONIC DISTANCE 522.917

RL 149.37 LAL .00 LOL 16.48 VL 27.216 GAL 4.07 AZL 90.14 HCA 237.84 SMA 128.07 ECC .18046 INC .1435 VI 29.830
RP 108.61 LAP .12 LOP 254.32 VP 37.518 GAP 5.65 AZP 89.92 TAL 160.89 TAP 38.72 RCA 104.96 APO 151.18 V2 34.892
RC 113.313 GL -1.08 GP 28.12 ZAL 47.79 ZAP 136.83 ETS 31.53 ZAE 125.73 ETE 159.37 ZAC 25.57 ETC 204.91 CLP-145.79

PLANETOCENTRIC CONIC

C3 13.088 VHL 3.618 DLA -12.94 RAL 331.24 RAD 6567.5 VEL 11.596 PTH 2.03 VHP 4.793 DPA 4.07 RAP 287.90 ECC 1.2154

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 52 52	1704.18	-4.80	11.31	185.45	117.94	10 21 16	1104.2	-1.03	4.67
90.00	18 29 34	5175.64	25.79	231.55	189.72	77.87	19 55 49	4575.6	23.86	223.41
100.00	11 7 31	1463.37	-5.77	353.08	184.92	119.38	11 31 54	863.4	-1.81	346.53
100.00	19 57 37	4891.68	26.86	210.39	189.44	76.36	21 19 8	4291.7	24.72	202.24
110.00	12 0 39	1296.92	-8.28	338.91	183.38	123.28	12 22 16	696.9	-3.84	332.63
110.00	21 20 57	4630.89	29.69	189.68	188.54	72.22	22 38 8	4030.9	26.97	181.55

DIFFERENTIAL CORRECTIONS
TDE .9504 TRA 2.6288 TC3-4.1318 BAU .7381
RDE -.1147 RRA -.8345 RC3 .8500 FAU .06383
FDE 1.6708 FRA 3.7271 FC3-4.2222 BSP 17742
BDE .9573 BRA 2.7581 BC3 4.2184 FSP -2187

MID-COURSE EXECUTION ACCURACY
SGT 5426.9 SGR 1500.1 SG3 629.1
RRT -.9710 RRF -.9680 RTF .9867
SGB 5630.4 R23 .0250 R13 -.9872
SG1 5619.8 SG2 346.1 THA 164.92

ORBIT DETERMINATION ACCURACY
ST 1978.9 SR 445.9 SS 1329.9
CRT -.9025 CRS .8530 CST -.9945
LSA 2414.4 MSA 232.4 SSA 14.8
EL1 2019.7 EL2 188.2 ALF 168.40

LAUNCH DATE OCT 10 1965 FLIGHT TIME 190.00 ARRIVAL DATE APR 18 1966

HELIOCENTRIC CONIC DISTANCE 528.923

RL 149.37 LAL .00 LOL 16.48 VL 27.197 GAL 4.32 AZL 89.92 HCA 241.01 SMA 127.94 ECC .18319 INC .0753 V1 29.830
RP 108.64 LAP -.07 LOP 257.49 VP 37.494 GAP 6.04 AZP 90.04 TAL 160.05 TAP 41.06 RCA 104.51 APO 151.38 V2 34.881
RC 115.673 GL .56 GP 26.28 ZAL 46.77 ZAP 139.51 ETS 32.21 ZAE 125.20 ETE 161.26 ZAC 25.54 ETC 200.31 CLP-148.02

PLANETOCENTRIC CONIC

C3 13.798 VHL 3.715 DLA -11.05 RAL 331.63 RAD 6567.5 VEL 11.627 PTH 2.04 VHP 4.932 DPA 2.30 RAP 288.90 ECC 1.2271

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 38 32	1779.26	-7.18	15.55	186.40	117.46	10 8 11	1179.3	-3.45	8.86
90.00	18 47 0	5123.56	24.99	227.94	190.26	76.23	20 12 24	4523.6	22.85	219.92
100.00	10 54 20	1534.72	-8.14	357.05	185.89	118.86	11 19 55	934.7	-4.22	350.45
100.00	20 13 53	4843.34	26.04	207.03	189.96	74.77	21 34 37	4243.3	23.69	199.02
110.00	11 50 1	1360.35	-10.63	342.32	184.38	122.68	12 12 41	760.4	-6.25	335.97
110.00	21 34 42	4590.47	28.81	186.86	188.99	70.76	22 51 13	3990.5	25.92	178.88

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE 1.0844 TRA 2.7952 TC3-4.0336 BAU .7562 SGT 5574.5 SGR 1367.6 SG3 597.2 ST 2131.3 SR 402.2 SS 1341.3
RDE -.0952 RRA -.7935 RC3 .7294 FAU .05942 RRT -.9638 RRF -.9597 RTF .9864 CRT -.8633 CRS .8168 CST -.9962
FDE 1.7047 FRA 3.6661 FC3-3.7282 BSP 18136 SGB 5739.8 R23 .0193 R13 -.9868 LSA 2539.6 MSA 231.1 SSA 14.8
BDE 1.0885 BRA 2.9056 BC3 4.0990 FSP -2087 SG1 5728.8 SG2 354.9 THA 166.65 EL1 2159.6 EL2 200.3 ALF 170.66

LAUNCH DATE OCT 10 1965 FLIGHT TIME 192.00 ARRIVAL DATE APR 20 1966

HELIOCENTRIC CONIC DISTANCE 534.902

RL 149.37 LAL .00 LOL 16.48 VL 27.177 GAL 4.58 AZL 89.72 HCA 244.18 SMA 127.81 ECC .18614 INC .2824 V1 29.830
RP 108.68 LAP -.25 LOP 260.67 VP 37.470 GAP 6.42 AZP 90.12 TAL 159.18 TAP 43.37 RCA 104.02 APO 151.60 V2 34.870
RC 118.029 GL 2.00 GP 24.62 ZAL 45.77 ZAP 142.01 ETS 32.88 ZAE 124.66 ETE 162.88 ZAC 25.85 ETC 195.96 CLP-150.10

PLANETOCENTRIC CONIC

C3 14.612 VHL 3.823 DLA -9.34 RAL 332.08 RAD 6567.6 VEL 11.662 PTH 2.05 VHP 5.087 DPA .74 RAP 290.03 ECC 1.2405

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 26 27	1848.28	-9.33	19.48	187.60	116.86	9 57 15	1248.3	-5.65	12.73
90.00	19 2 45	5079.81	24.25	224.95	191.04	74.91	20 27 25	4479.8	21.94	217.04
100.00	10 43 13	1600.61	-10.28	.77	187.09	118.22	11 9 54	1000.6	-6.43	354.09
100.00	20 28 40	4802.71	25.28	204.25	190.72	73.50	21 48 43	4202.7	22.78	196.35
110.00	11 41 3	1419.52	-12.79	345.55	185.61	121.98	12 4 43	819.5	-8.47	339.11
110.00	21 47 19	4556.57	28.03	184.53	189.69	69.58	23 3 16	3956.6	24.99	176.68

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE 1.2230 TRA 2.9699 TC3-3.9002 BAU .7715 SGT 5710.0 SGR 1252.0 SG3 565.4 ST 2280.4 SR 364.1 SS 1349.0
RDE -.0757 RRA -.7586 RC3 .6230 FAU .05478 RRT -.9549 RRF -.9498 RTF .9859 CRT -.8155 CRS .7720 CST -.9973
FDE 1.7296 FRA 3.6027 FC3-3.2458 BSP 18449 SGB 5845.6 R23 .0152 R13 -.9862 LSA 2664.5 MSA 230.5 SSA 14.8
BDE 1.2253 BRA 3.0653 BC3 3.9497 FSP -1974 SG1 5834.3 SG2 363.8 THA 168.13 EL1 2299.8 EL2 208.9 ALF 172.52

LAUNCH DATE OCT 10 1965 FLIGHT TIME 194.00 ARRIVAL DATE APR 22 1966

HELIOCENTRIC CONIC DISTANCE 540.851

RL 149.37 LAL .00 LOL 16.48 VL 27.157 GAL 4.86 AZL 89.52 HCA 247.35 SMA 127.67 ECC .18934 INC .4781 V1 29.830
RP 108.71 LAP -.44 LOP 263.84 VP 37.446 GAP 6.82 AZP 90.18 TAL 158.29 TAP 45.64 RCA 103.50 APO 151.85 V2 34.860
RC 120.382 GL 3.29 GP 23.12 ZAL 44.80 ZAP 144.35 ETS 33.56 ZAE 124.13 ETE 164.28 ZAC 26.48 ETC 191.98 CLP-152.07

PLANETOCENTRIC CONIC

C3 15.532 VHL 3.941 DLA -7.77 RAL 332.60 RAD 6567.6 VEL 11.701 PTH 2.06 VHP 5.256 DPA -.64 RAP 291.28 ECC 1.2556

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 16 11	1912.39	-11.28	23.19	188.99	116.15	9 48 3	1312.4	-7.67	16.36
90.00	19 17 9	5043.06	23.58	222.47	192.01	73.84	20 41 12	4443.1	21.13	214.65
100.00	10 33 47	1662.05	-12.23	4.28	188.50	117.49	11 1 29	1062.0	-8.46	357.53
100.00	20 42 14	4768.64	24.60	201.95	191.67	72.46	22 1 43	4168.6	21.97	194.14
110.00	11 33 29	1475.12	-14.77	348.63	187.04	121.18	11 58 4	875.1	-10.53	342.10
110.00	21 59 1	4528.33	27.34	182.62	190.59	68.64	23 14 30	3928.3	24.19	174.87

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE 1.3603 TRA 3.1478 TC3-3.7537 BAU .7873 SGT 5830.7 SGR 1150.2 SG3 533.6 ST 2416.4 SR 330.1 SS 1347.5
RDE -.0546 RRA -.7274 RC3 .5343 FAU .05046 RRT -.9443 RRF -.9382 RTF .9854 CRT -.7544 CRS .7137 CST -.9981
FDE 1.7381 FRA 3.5310 FC3-2.8125 BSP 18824 SGB 5943.1 R23 .0116 R13 -.9856 LSA 2776.8 MSA 230.5 SSA 14.7
BDE 1.3614 BRA 3.2307 BC3 3.7915 FSP -1873 SG1 5931.4 SG2 372.1 THA 169.41 EL1 2429.3 EL2 215.6 ALF 174.07

LAUNCH DATE OCT 10 1965 FLIGHT TIME 196.00 ARRIVAL DATE APR 24 1966

HELIOCENTRIC CONIC DISTANCE 546.771

RL 149.37 LAL .00 LOL 16.48 VL 27.135 GAL 5.16 AZL 89.33 HCA 250.52 SMA 127.53 ECC .19279 INC .6650 V1 29.830
RP 108.74 LAP -.63 LOP 267.00 VP 37.422 GAP 7.22 AZP 90.22 TAL 157.37 TAP 47.90 RCA 102.94 APO 152.12 V2 34.851
RC 122.731 GL 4.42 GP 21.77 ZAL 43.85 ZAP 146.53 ETS 34.27 ZAE 123.61 ETE 165.49 ZAC 27.35 ETC 188.42 CLP-153.93

PLANETOCENTRIC CONIC

C3 16.567 VHL 4.070 DLA -6.35 RAL 333.17 RAD 6567.7 VEL 11.745 PTH 2.07 VHP 5.439 DPA -1.85 RAP 292.64 ECC 1.2726

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 7 25	1972.46	-13.05	26.70	190.57	115.35	9 40 18	1372.5	-9.53	19.79
90.00	19 30 26	5012.32	22.98	220.41	193.16	72.98	20 53 58	4412.3	20.43	212.67
100.00	10 25 45	1719.78	-14.02	7.64	190.08	116.67	10 54 25	1119.8	-10.33	.79
100.00	20 54 47	4740.23	24.01	200.05	192.80	71.63	22 13 48	4140.2	21.27	192.31
110.00	11 27 5	1527.73	-16.60	351.61	188.63	120.32	11 52 33	927.7	-12.45	344.96
110.00	22 9 56	4505.05	26.76	181.07	191.68	67.89	23 25 1	3905.1	23.52	173.40

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE 1.4997 TRA 3.3329 TC3-3.5906 BAU .8017 SGT 5940.0 SGR 1061.1 SG3 502.7 ST 2543.6 SR 301.5 SS 1341.6
RDE -.0332 RRA -.7005 RC3 .4584 FAU .04626 RRT -.9318 RRF -.9247 RTF .9849 CRT -.6797 CRS .6420 CST -.9987
FDE 1.7382 FRA 3.4588 FC3-2.4175 BSP 19176 SGB 6034.0 R23 .0087 R13 -.9851 LSA 2882.2 MSA 230.7 SSA 14.6
BDE 1.5001 BRA 3.4057 BC3 3.6197 FSP -1772 SG1 6022.1 SG2 379.8 THA 170.51 EL1 2551.9 EL2 220.4 ALF 175.36

LAUNCH DATE OCT 10 1965 FLIGHT TIME 198.00 ARRIVAL DATE APR 26 1966

HELIOCENTRIC CONIC DISTANCE 552.658

RL 149.37 LAL .00 LOL 16.48 VL 27.114 GAL 5.47 AZL 89.16 HCA 253.69 SMA 127.39 ECC .19651 INC .8445 V1 29.830
RP 108.76 LAP -.81 LOP 270.17 VP 37.398 GAP 7.63 AZP 90.24 TAL 156.43 TAP 50.12 RCA 102.35 APO 152.42 V2 34.842
RC 125.075 GL 5.42 GP 20.55 ZAL 42.91 ZAP 148.57 ETS 35.04 ZAE 123.11 ETE 166.53 ZAC 28.45 ETC 185.30 CLP-155.69

PLANETOCENTRIC CONIC

C3 17.726 VHL 4.210 DLA -5.04 RAL 333.78 RAD 6567.7 VEL 11.794 PTH 2.09 VHP 5.635 DPA -2.91 RAP 294.09 ECC 1.2917

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 59 55	2029.15	-14.68	30.07	192.29	114.49	9 33 45	1429.2	-11.25	23.07
90.00	19 42 46	4986.84	22.46	218.73	194.46	72.29	21 5 53	4386.8	19.83	211.04
100.00	10 18 53	1774.41	-15.67	10.86	191.81	115.79	10 48 28	1174.4	-12.07	3.91
100.00	21 6 29	4716.82	23.50	198.49	194.08	70.97	22 25 6	4116.8	20.68	190.83
110.00	11 21 42	1577.80	-18.30	354.50	190.37	119.39	11 47 59	977.8	-14.24	347.73
110.00	22 20 11	4486.20	26.27	179.82	192.92	67.29	23 34 57	3886.2	22.96	172.22

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE 1.6421 TRA 3.5262 TC3-3.4148 BAU .8146 SGT 6038.9 SGR 982.8 SG3 473.2 ST 2662.6 SR 278.2 SS 1332.6
RDE -.0119 RRA -.6772 RC3 .3933 FAU .04221 RRT -.9175 RRF -.9095 RTF .9844 CRT -.5916 CRS .5571 CST -.9990
FDE 1.7327 FRA 3.3879 FC3-2.0615 BSP 19509 SGB 6118.4 R23 .0065 R13 -.9845 LSA 2981.5 MSA 230.9 SSA 14.4
BDE 1.6421 BRA 3.5907 BC3 3.4374 FSP -1674 SG1 6106.2 SG2 386.6 THA 171.47 EL1 2667.8 EL2 223.9 ALF 176.44

LAUNCH DATE OCT 10 1965 FLIGHT TIME 200.00 ARRIVAL DATE APR 28 1966

HELIOCENTRIC CONIC DISTANCE 558.510

RL 149.37 LAL .00 LOL 16.48 VL 27.091 GAL 5.81 AZL 88.98 HCA 256.86 SMA 127.24 ECC .20053 INC 1.0181 V1 29.830
RP 108.79 LAP -.99 LOP 273.34 VP 37.374 GAP 8.05 AZP 90.23 TAL 155.47 TAP 52.33 RCA 101.72 APO 152.75 V2 34.834
RC 127.413 GL 6.31 GP 19.45 ZAL 42.00 ZAP 150.49 ETS 35.88 ZAE 122.64 ETE 167.44 ZAC 29.71 ETC 182.60 CLP-157.36

PLANETOCENTRIC CONIC

C3 19.021 VHL 4.361 DLA -3.85 RAL 334.42 RAD 6567.8 VEL 11.849 PTH 2.10 VHP 5.845 DPA -3.82 RAP 295.62 ECC 1.3130

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 53 30	2082.98	-16.17	33.32	194.15	113.56	9 28 13	1483.0	-12.85	26.22
90.00	19 54 18	4966.03	22.02	217.36	195.89	71.74	21 17 4	4366.0	19.32	209.72
100.00	10 13 3	1826.40	-17.18	13.98	193.68	114.84	10 43 29	1226.4	-13.69	6.93
100.00	21 17 27	4697.85	23.07	197.25	195.50	70.44	22 35 45	4097.8	20.19	189.63
110.00	11 17 9	1625.69	-19.87	357.32	192.26	118.40	11 44 15	1025.7	-15.92	350.42
110.00	22 29 50	4471.32	25.87	178.84	194.30	66.84	23 44 21	3871.3	22.51	171.30

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE 1.7873 TRA 3.7289 TC3-3.2297 BAU .8257 SGT 6128.3 SGR 913.8 SG3 445.1 ST 2773.1 SR 260.0 SS 1320.9
RDE .0095 RRA -.6570 RC3 .3374 FAU .03833 RRT -.9012 RRF -.8923 RTF .9838 CRT -.4907 CRS .4597 CST -.9993
FDE 1.7222 FRA 3.3198 FC3-1.7444 BSP 19813 SGB 6196.1 R23 .0047 R13 -.9839 LSA 3073.9 MSA 231.0 SSA 14.3
BDE 1.7873 BRA 3.7863 BC3 3.2473 FSP -1579 SG1 6183.6 SG2 392.5 THA 172.31 EL1 2776.1 EL2 226.3 ALF 177.35

LAUNCH DATE OCT 10 1965 FLIGHT TIME 202.00 ARRIVAL DATE APR 30 1966

HELIOCENTRIC CONIC DISTANCE 564.326

RL 149.37 LAL .00 LOL 16.48 VL 27.068 GAL 6.18 AZL 88.81 HCA 260.02 SMA 127.09 ECC .20486 INC 1.1874 V1 29.830
RP 108.81 LAP -1.17 LOP 276.50 VP 37.350 GAP 8.48 AZP 90.21 TAL 154.49 TAP 54.51 RCA 101.05 APO 153.12 V2 34.826
RC 129.747 GL 7.08 GP 18.46 ZAL 41.09 ZAP 152.29 ETS 36.81 ZAE 122.19 ETE 168.23 ZAC 31.12 ETC 180.30 CLP-158.96

PLANETOCENTRIC CONIC

C3 20.466 VHL 4.524 DLA -2.76 RAL 335.08 RAD 6567.8 VEL 11.910 PTH 2.12 VHP 6.068 DPA -4.60 RAP 297.24 ECC 1.3368

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 48 0	2134.38	-17.54	36.47	196.14	112.59	9 23 35	1534.4	-14.33	29.26
90.00	20 5 8	4949.40	21.66	216.27	197.45	71.31	21 27 37	4349.4	18.91	208.68
100.00	10 8 4	1876.13	-18.58	17.01	195.67	113.85	10 39 20	1276.1	-15.20	9.85
100.00	21 27 45	4682.89	22.73	196.27	197.05	70.04	22 45 48	4082.9	19.80	188.69
110.00	11 13 22	1671.73	-21.34	.09	194.27	117.36	11 41 13	1071.7	-17.50	353.06
110.00	22 38 57	4460.05	25.57	178.11	195.80	66.50	23 53 17	3860.1	22.17	170.61

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE 1.9383 TRA 3.9437 TC3-3.0338 BAU .8338 SGT 6210.1 SGR 852.9 SG3 418.8 ST 2878.1 SR 246.5 SS 1308.9
RDE .0305 RRA -.6396 RC3 .2885 FAU .03451 RRT -.8831 RRF -.8734 RTF .9832 CRT -.3819 CRS .3545 CST -.9995
FDE 1.7110 FRA 3.2569 FC3-1.4598 BSP 20032 SGB 6268.4 R23 .0033 R13 -.9833 LSA 3162.9 MSA 230.9 SSA 14.2
BDE 1.9385 BRA 3.9952 BC3 3.0475 FSP -1482 SG1 6255.8 SG2 397.2 THA 173.06 EL1 2879.7 EL2 227.7 ALF 178.11

LAUNCH DATE OCT 10 1965 FLIGHT TIME 204.00 ARRIVAL DATE MAY 2 1966

HELIOCENTRIC CONIC DISTANCE 570.101

RL 149.37 LAL .00 LOL 16.48 VL 27.045 GAL 6.56 AZL 88.65 HCA 263.19 SMA 126.94 ECC .20954 INC 1.3532 V1 29.830
RP 108.84 LAP -1.34 LOP 279.67 VP 37.327 GAP 8.92 AZP 90.16 TAL 153.50 TAP 56.68 RCA 100.34 APO 153.53 V2 34.819
RC 132.074 GL 7.76 GP 17.56 ZAL 40.20 ZAP 153.99 ETS 37.85 ZAE 121.77 ETE 168.92 ZAC 32.65 ETC 178.35 CLP-160.50

PLANETOCENTRIC CONIC

C3 22.078 VHL 4.699 DLA -1.76 RAL 335.77 RAD 6567.9 VEL 11.977 PTH 2.13 VHP 6.305 DPA -5.25 RAP 298.92 ECC 1.3633

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 43 19	2183.67	-18.81	39.53	198.24	111.57	9 19 43	1583.7	-15.71	32.22
90.00	20 15 19	4936.59	21.38	215.44	199.11	70.98	21 37 35	4336.6	18.59	207.87
100.00	10 3 51	1923.92	-19.87	19.97	197.78	112.81	10 35 55	1323.9	-16.61	12.70
100.00	21 37 28	4671.58	22.46	195.53	198.70	69.74	22 55 20	4071.6	19.50	187.99
110.00	11 10 13	1716.16	-22.70	2.81	196.39	116.27	11 38 49	1116.2	-18.99	355.65
110.00	22 47 35	4452.10	25.35	177.59	197.42	66.26	24 1 48	3852.1	21.92	170.12

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE 2.0897 TRA 4.1661 TC3-2.8412 BAU .8418 SGT 6281.3 SGR 798.4 SG3 393.8 ST 2970.6 SR 237.1 SS 1293.4
RDE .0520 RRA -.6239 RC3 .2474 FAU .03104 RRT -.8630 RRF -.8525 RTF .9827 CRT -.2658 CRS .2422 CST -.9996
FDE 1.6942 FRA 3.1952 FC3-1.2174 BSP 20314 SGB 6331.8 R23 .0020 R13 -.9827 LSA 3240.4 MSA 230.6 SSA 14.0
BDE 2.0904 BRA 4.2126 BC3 2.8519 FSP -1398 SG1 6319.1 SG2 400.9 THA 173.71 EL1 2971.3 EL2 228.5 ALF 178.78

LAUNCH DATE OCT 10 1965 FLIGHT TIME 206.00 ARRIVAL DATE MAY 4 1966

DISTANCE 575.833

HELIOCENTRIC CONIC

RL 149.37 LAL .00 LOL 16.48 VL 27.022 GAL 6.98 AZL 88.48 HCA 266.35 SMA 126.78 ECC .21458 INC 1.5169 V1 29.830
RP 108.86 LAP -1.51 LOP 282.83 VP 37.304 GAP 9.38 AZP 90.10 TAL 152.49 TAP 58.84 RCA 99.58 APO 153.99 V2 34.812
RC 134.395 GL 8.35 GP 16.75 ZAL 39.32 ZAP 155.58 ETS 39.02 ZAE 121.37 ETE 169.52 ZAC 34.27 ETC 176.69 CLP-161.97

PLANETOCENTRIC CONIC

C3 23.877 VHL 4.886 DLA -.84 RAL 336.48 RAD 6568.0 VEL 12.052 PTH 2.15 VHP 6.557 DPA -5.80 RAP 300.65 ECC 1.3930

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 39 20	2231.15	-19.97	42.53	200.44	110.51	9 16 31	1631.1	-17.00	35.12
90.00	20 24 55	4927.26	21.17	214.83	200.88	70.75	21 47 2	4327.3	18.35	207.29
100.00	10 0 17	1970.02	-21.06	22.88	199.99	111.72	10 33 7	1370.0	-17.92	15.49
100.00	21 46 39	4663.62	22.27	195.02	200.45	69.53	23 4 22	4063.6	19.29	187.49
110.00	11 7 38	1759.20	-23.98	5.51	198.62	115.13	11 36 57	1159.2	-20.39	358.20
110.00	22 55 47	4447.20	25.22	177.28	199.14	66.12	24 9 54	3847.2	21.77	169.82

DIFFERENTIAL CORRECTIONS

TDE 2.2453 TRA 4.4001 TC3-2.6473 BAU .8478
RDE .0735 RRA -.6098 RC3 .2119 FAU .02778
FDE 1.6762 FRA 3.1374 FC3-1.0072 BSP 20564
BDE 2.2465 BRA 4.4422 BC3 2.6558 FSP -1317

MID-COURSE EXECUTION ACCURACY

SGT 6344.3 SGR 749.4 SG3 370.3
RRT -.8410 RRF -.8298 RTF .9822
SGB 6388.4 R23 .0009 R13 -.9822
SG1 6375.6 SG2 403.5 THA 174.30

ORBIT DETERMINATION ACCURACY

ST 3055.1 SR 231.3 SS 1277.1
CRT -.1494 CRS .1295 CST -.9997
LSA 3311.4 MSA 230.0 SSA 13.9
EL1 3055.3 EL2 228.7 ALF 179.35

LAUNCH DATE OCT 10 1965 FLIGHT TIME 208.00 ARRIVAL DATE MAY 6 1966

DISTANCE 581.515

HELIOCENTRIC CONIC

RL 149.37 LAL .00 LOL 16.48 VL 26.998 GAL 7.42 AZL 88.32 HCA 269.51 SMA 126.62 ECC .22004 INC 1.6793 V1 29.830
RP 108.87 LAP -1.68 LOP 285.99 VP 37.281 GAP 9.86 AZP 90.01 TAL 151.48 TAP 60.99 RCA 98.76 APO 154.49 V2 34.806
RC 136.709 GL 8.87 GP 16.01 ZAL 38.46 ZAP 157.09 ETS 40.34 ZAE 120.99 ETE 170.06 ZAC 35.96 ETC 175.30 CLP-163.39

PLANETOCENTRIC CONIC

C3 25.887 VHL 5.088 DLA -.00 RAL 337.19 RAD 6568.0 VEL 12.135 PTH 2.17 VHP 6.824 DPA -6.23 RAP 302.44 ECC 1.4260

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 35 58	2277.04	-21.03	45.48	202.73	109.41	9 13 55	1677.0	-18.20	37.95
90.00	20 33 59	4921.16	21.04	214.44	202.73	70.60	21 56 0	4321.2	18.20	206.91
100.00	9 57 19	2014.66	-22.15	25.74	202.29	110.60	10 30 53	1414.7	-19.15	18.23
100.00	21 55 20	4658.77	22.16	194.70	202.29	69.40	23 12 58	4058.8	19.15	187.19
110.00	11 5 33	1801.05	-25.16	8.19	200.95	113.94	11 35 34	1201.0	-21.71	.73
110.00	23 3 34	4445.15	25.16	177.14	200.95	66.06	24 17 39	3845.1	21.71	169.69

DIFFERENTIAL CORRECTIONS

TDE 2.4057 TRA 4.6474 TC3-2.4543 BAU .8517
RDE .0952 RRA -.5970 RC3 .1810 FAU .02469
FDE 1.6577 FRA 3.0848 FC3 -.8256 BSP 20794
BDE 2.4076 BRA 4.6856 BC3 2.4609 FSP -1241

MID-COURSE EXECUTION ACCURACY

SGT 6400.4 SGR 705.2 SG3 348.4
RRT -.8171 RRF -.8053 RTF .9817
SGB 6439.1 R23 -.0000 R13 -.9817
SG1 6426.4 SG2 405.0 THA 174.84

ORBIT DETERMINATION ACCURACY

ST 3132.0 SR 228.4 SS 1260.6
CRT -.0374 CRS .0211 CST -.9998
LSA 3376.1 MSA 229.1 SSA 13.7
EL1 3132.0 EL2 228.3 ALF 179.84

LAUNCH DATE OCT 10 1965 FLIGHT TIME 210.00 ARRIVAL DATE MAY 8 1966

DISTANCE 587.145

HELIOCENTRIC CONIC

RL 149.37 LAL .00 LOL 16.48 VL 26.974 GAL 7.89 AZL 88.16 HCA 272.67 SMA 126.47 ECC .22594 INC 1.8415 V1 29.830
RP 108.89 LAP -1.84 LOP 289.16 VP 37.258 GAP 10.36 AZP 89.91 TAL 150.46 TAP 63.13 RCA 97.89 APO 155.04 V2 34.801
RC 139.015 GL 9.31 GP 15.33 ZAL 37.62 ZAP 158.51 ETS 41.83 ZAE 120.63 ETE 170.53 ZAC 37.71 ETC 174.12 CLP-164.76

PLANETOCENTRIC CONIC

C3 28.137 VHL 5.304 DLA .77 RAL 337.91 RAD 6568.1 VEL 12.228 PTH 2.20 VHP 7.107 DPA -6.58 RAP 304.27 ECC 1.4631

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 33 10	2321.55	-22.01	48.37	205.11	108.28	9 11 51	1721.5	-19.31	40.74
90.00	20 42 33	4918.05	20.97	214.24	204.66	70.52	22 4 31	4318.1	18.12	206.72
100.00	9 54 51	2058.02	-23.16	28.57	204.68	109.44	10 29 9	1458.0	-20.30	20.94
100.00	22 3 32	4656.81	22.11	194.58	204.22	69.35	23 21 9	4056.8	19.10	187.07
110.00	11 3 55	1841.85	-26.26	10.85	203.37	112.72	11 34 37	1241.8	-22.95	3.25
110.00	23 10 58	4445.75	25.18	177.18	202.84	66.08	24 25 4	3845.8	21.73	169.73

DIFFERENTIAL CORRECTIONS

TDE 2.5749 TRA 4.9119 TC3-2.2576 BAU .8512
RDE .1166 RRA -.5854 RC3 .1535 FAU .02163
FDE 1.6418 FRA 3.0392 FC3 -.6656 BSP 20919
BDE 2.5775 BRA 4.9467 BC3 2.2628 FSP -1163

MID-COURSE EXECUTION ACCURACY

SGT 6451.9 SGR 665.0 SG3 328.1
RRT -.7913 RRF -.7792 RTF .9813
SGB 6486.0 R23 -.0007 R13 -.9813
SG1 6473.4 SG2 405.2 THA 175.32

ORBIT DETERMINATION ACCURACY

ST 3205.4 SR 227.7 SS 1245.7
CRT .0656 CRS -.0786 CST -.9998
LSA 3438.9 MSA 227.7 SSA 13.5
EL1 3205.4 EL2 227.2 ALF .27

LAUNCH DATE OCT 10 1965 FLIGHT TIME 212.00 ARRIVAL DATE MAY 10 1966

DISTANCE 592.714

HELIOCENTRIC CONIC

RL 149.37 LAL .00 LOL 16.48 VL 26.949 GAL 8.40 AZL 88.00 HCA 275.83 SMA 126.31 ECC .23232 INC 2.0044 V1 29.830
RP 108.90 LAP -1.99 LOP 292.32 VP 37.237 GAP 10.89 AZP 89.80 TAL 149.43 TAP 65.26 RCA 96.96 APO 155.65 V2 34.797
RC 141.312 GL 9.70 GP 14.72 ZAL 36.79 ZAP 159.86 ETS 43.53 ZAE 120.29 ETE 170.96 ZAC 39.52 ETC 173.13 CLP-166.10

PLANETOCENTRIC CONIC

C3 30.659 VHL 5.537 DLA 1.47 RAL 338.64 RAD 6568.2 VEL 12.330 PTH 2.22 VHP 7.409 DPA -6.83 RAP 306.13 ECC 1.5046

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 30 50	2364.82	-22.91	51.23	207.56	107.12	9 10 15	1764.8	-20.35	43.49
90.00	20 50 39	4917.75	20.96	214.22	206.67	70.51	22 12 37	4317.8	18.11	206.70
100.00	9 52 52	2100.24	-24.09	31.36	207.15	108.25	10 27 52	1500.2	-21.37	23.62
100.00	22 11 19	4657.56	22.13	194.62	206.21	69.37	23 28 56	4057.6	19.12	187.12
110.00	11 2 40	1881.72	-27.28	13.50	205.87	111.45	11 34 2	1281.7	-24.12	5.75
110.00	23 17 59	4448.85	25.26	177.38	204.82	66.17	24 32 8	3848.8	21.82	169.92

DIFFERENTIAL CORRECTIONS

TDE 2.7461 TRA 5.1877 TC3-2.0703 BAU .8503
RDE .1387 RRA -.5738 RC3 .1302 FAU .01890
FDE 1.6234 FRA 2.9955 FC3 -.5337 BSP 21114
BDE 2.7496 BRA 5.2193 BC3 2.0744 FSP -1097

MID-COURSE EXECUTION ACCURACY

SGT 6493.6 SGR 627.8 SG3 308.9
RRT -.7634 RRF -.7510 RTF .9810
SGB 6523.8 R23 -.0014 R13 -.9810
SG1 6511.3 SG2 404.4 THA 175.76

ORBIT DETERMINATION ACCURACY

ST 3267.2 SR 228.8 SS 1229.2
CRT .1610 CRS -.1711 CST -.9999
LSA 3490.9 MSA 226.1 SSA 13.3
EL1 3267.4 EL2 225.8 ALF .65

LAUNCH DATE OCT 10 1965 FLIGHT TIME 214.00 ARRIVAL DATE MAY 12 1966

HELIOCENTRIC CONIC DISTANCE 598.216

RL 149.37 LAL .00 LOL 16.48 VL 26.925 GAL 8.94 AZL 87.83 HCA 278.99 SMA 126.15 ECC .23924 INC 2.1692 V1 29.830
RP 108.92 LAP -2.14 LOP 295.48 VP 37.215 GAP 11.44 AZP 89.66 TAL 148.41 TAP 67.40 RCA 95.97 APO 156.33 V2 34.793
RC 143.598 GL 10.02 GP 14.17 ZAL 35.98 ZAP 161.13 ETS 45.46 ZAE 119.96 ETE 171.34 ZAC 41.36 ETC 172.30 CLP-167.40

PLANETOCENTRIC CONIC

C3 33.493 VHL 5.787 DLA 2.11 RAL 339.36 RAD 6568.3 VEL 12.444 PTH 2.25 VHP 7.730 DPA -7.00 RAP 308.02 ECC 1.5512

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 28 57	2406.98	-23.72	54.05	210.08	105.93	9 9 4	1807.0	-21.31	46.21
90.00	20 58 18	4920.09	21.01	214.37	208.75	70.57	22 20 18	4320.1	18.17	206.84
100.00	9 51 16	2141.44	-24.94	34.13	209.69	107.03	10 26 58	1541.4	-22.37	26.27
100.00	22 18 39	4660.87	22.21	194.84	208.28	69.46	23 36 20	4060.9	19.21	187.32
110.00	11 1 46	1920.77	-28.22	16.14	208.46	110.14	11 33 47	1320.8	-25.22	8.26
110.00	23 24 39	4454.30	25.41	177.74	206.86	66.33	24 38 53	3854.3	21.99	170.25

DIFFERENTIAL CORRECTIONS

TOE 2.9236 TRA 5.4799 TC3-1.8876 BAU .8466
RDE .1611 RRA -.5624 RC3 .1098 FAU .01631
FDE 1.6059 FRA 2.9570 FC3 -.4217 BSP .21294
BDE 2.9280 BRA 5.5087 BC3 1.8908 FSP -1034

MID-COURSE EXECUTION ACCURACY

SGT 6528.7 SGR 593.3 SG3 291.1
RRT -.7334 RRF -.7209 RTF .9809
SGB 6555.6 R23 -.0019 R13 -.9809
SG1 6543.2 SG2 402.4 THA 176.17

ORBIT DETERMINATION ACCURACY

ST 3321.8 SR 231.0 SS 1213.4
CRT .2463 CRS -.2539 CST -.9999
LSA 3536.9 MSA 224.0 SSA 13.1
EL1 3322.3 EL2 223.9 ALF .99

LAUNCH DATE OCT 10 1965 FLIGHT TIME 216.00 ARRIVAL DATE MAY 14 1966

HELIOCENTRIC CONIC DISTANCE 603.641

RL 149.37 LAL .00 LOL 16.48 VL 26.900 GAL 9.53 AZL 87.66 HCA 282.15 SMA 125.99 ECC .24676 INC 2.3369 V1 29.830
RP 108.93 LAP -2.28 LOP 298.64 VP 37.194 GAP 12.02 AZP 89.51 TAL 147.40 TAP 69.54 RCA 94.90 APO 157.08 V2 34.790
RC 145.874 GL 10.29 GP 13.66 ZAL 35.19 ZAP 162.33 ETS 47.66 ZAE 119.64 ETE 171.68 ZAC 43.24 ETC 171.59 CLP-168.68

PLANETOCENTRIC CONIC

C3 36.687 VHL 6.057 DLA 2.70 RAL 340.08 RAD 6568.4 VEL 12.572 PTH 2.28 VHP 8.073 DPA -7.10 RAP 309.93 ECC 1.6038

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 27 27	2448.15	-24.47	56.84	212.67	104.72	9 8 15	1848.1	-22.21	48.90
90.00	21 5 30	4924.92	21.12	214.68	210.89	70.69	22 27 35	4324.9	18.29	207.15
100.00	9 50 3	2181.72	-25.72	36.87	212.29	105.79	10 26 25	1581.7	-23.30	28.90
100.00	22 25 35	4666.58	22.34	195.21	210.42	69.61	23 43 22	4066.6	19.37	187.68
110.00	11 1 11	1959.09	-29.09	18.78	211.11	108.79	11 33 50	1359.1	-26.25	10.75
110.00	23 30 57	4461.98	25.62	178.23	208.97	66.56	24 45 19	3862.0	22.23	170.72

DIFFERENTIAL CORRECTIONS

TOE 3.1087 TRA 5.7899 TC3-1.7096 BAU .8397
RDE .1839 RRA -.5507 RC3 .0919 FAU .01387
FDE 1.5899 FRA 2.9235 FC3 -.3273 BSP .21456
BDE 3.1142 BRA 5.8160 BC3 1.7121 FSP -975

MID-COURSE EXECUTION ACCURACY

SGT 6557.5 SGR 561.0 SG3 274.4
RRT -.7010 RRF -.6885 RTF .9808
SGB 6581.4 R23 -.0023 R13 -.9808
SG1 6569.3 SG2 399.3 THA 176.56

ORBIT DETERMINATION ACCURACY

ST 3370.1 SR 234.0 SS 1198.4
CRT .3220 CRS -.3274 CST -.9999
LSA 3577.6 MSA 221.5 SSA 12.9
EL1 3370.9 EL2 221.5 ALF 1.29

LAUNCH DATE OCT 10 1965 FLIGHT TIME 218.00 ARRIVAL DATE MAY 16 1966

HELIOCENTRIC CONIC DISTANCE 608.978

RL 149.37 LAL .00 LOL 16.48 VL 26.876 GAL 10.16 AZL 87.49 HCA 285.30 SMA 125.83 ECC .25495 INC 2.5086 V1 29.830
RP 108.93 LAP -2.42 LOP 301.80 VP 37.174 GAP 12.63 AZP 89.34 TAL 146.39 TAP 71.70 RCA 93.75 APO 157.91 V2 34.787
RC 148.138 GL 10.51 GP 13.19 ZAL 34.43 ZAP 163.46 ETS 50.18 ZAE 119.33 ETE 172.00 ZAC 45.13 ETC 171.00 CLP-169.94

PLANETOCENTRIC CONIC

C3 40.296 VHL 6.348 DLA 3.23 RAL 340.78 RAD 6568.5 VEL 12.715 PTH 2.31 VHP 8.441 DPA -7.12 RAP 311.86 ECC 1.6632

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 26 19	2488.37	-25.13	59.60	215.31	103.49	9 7 47	1888.4	-23.03	51.56
90.00	21 12 17	4932.12	21.28	215.15	213.09	70.87	22 34 29	4332.1	18.48	207.59
100.00	9 49 10	2221.14	-26.42	39.55	214.95	104.52	10 26 11	1621.1	-24.17	31.51
100.00	22 32 7	4674.58	22.53	195.73	212.60	69.82	23 50 2	4074.6	19.58	188.18
110.00	11 0 52	1996.72	-29.89	21.42	213.83	107.42	11 34 9	1396.7	-27.22	13.25
110.00	23 36 54	4471.77	25.88	178.87	211.14	66.85	24 51 26	3871.8	22.53	171.33

DIFFERENTIAL CORRECTIONS

TOE 3.3028 TRA 6.1210 TC3-1.5363 BAU .8287
RDE .2072 RRA -.5386 RC3 .0762 FAU .01152
FDE 1.5759 FRA 2.8958 FC3 -.2475 BSP 21580
BDE 3.3093 BRA 6.1447 BC3 1.5382 FSP -918

MID-COURSE EXECUTION ACCURACY

SGT 6581.1 SGR 530.5 SG3 258.8
RRT -.6661 RRF -.6538 RTF .9809
SGB 6602.5 R23 -.0026 R13 -.9809
SG1 6590.6 SG2 395.1 THA 176.92

ORBIT DETERMINATION ACCURACY

ST 3412.6 SR 237.3 SS 1184.9
CRT .3887 CRS -.3922 CST -.9999
LSA 3613.6 MSA 218.6 SSA 12.6
EL1 3413.9 EL2 218.6 ALF 1.55

LAUNCH DATE OCT 10 1965 FLIGHT TIME 220.00 ARRIVAL DATE MAY 18 1966

HELIOCENTRIC CONIC DISTANCE 614.215

RL 149.37 LAL .00 LOL 16.48 VL 26.851 GAL 10.83 AZL 87.31 HCA 288.46 SMA 125.68 ECC .26386 INC 2.6855 V1 29.830
RP 108.94 LAP -2.55 LOP 304.96 VP 37.155 GAP 13.29 AZP 89.15 TAL 145.41 TAP 73.87 RCA 92.51 APO 158.84 V2 34.786
RC 150.390 GL 10.69 GP 12.77 ZAL 33.69 ZAP 164.52 ETS 53.07 ZAE 119.02 ETE 172.29 ZAC 47.04 ETC 170.49 CLP-171.18

PLANETOCENTRIC CONIC

C3 44.391 VHL 6.663 DLA 3.71 RAL 341.48 RAD 6568.7 VEL 12.875 PTH 2.35 VHP 8.835 DPA -7.07 RAP 313.80 ECC 1.7306

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 25 30	2527.72	-25.73	62.32	218.00	102.25	9 7 37	1927.7	-23.78	54.19
90.00	21 18 38	4941.57	21.49	215.76	215.33	71.11	22 41 0	4341.6	18.72	208.19
100.00	9 48 34	2259.75	-27.05	42.28	217.66	103.23	10 26 14	1659.8	-24.96	34.11
100.00	22 38 14	4684.76	22.77	196.39	214.85	70.09	23 56 19	4084.8	19.85	188.81
110.00	11 0 48	2033.71	-30.61	24.06	216.60	106.01	11 34 41	1433.7	-28.12	15.76
110.00	23 42 30	4483.57	26.20	179.65	213.37	67.21	24 57 14	3883.6	22.88	172.06

DIFFERENTIAL CORRECTIONS

TOE 3.5090 TRA 6.4764 TC3-1.3670 BAU .8121
RDE .2310 RRA -.5256 RC3 .0623 FAU .00922
FDE 1.5651 FRA 2.8747 FC3 -.1798 BSP 21628
BDE 3.5166 BRA 6.4977 BC3 1.3684 FSP -862

MID-COURSE EXECUTION ACCURACY

SGT 6601.0 SGR 501.5 SG3 244.5
RRT -.6282 RRF -.6164 RTF .9811
SGB 6620.0 R23 -.0028 R13 -.9811
SG1 6608.5 SG2 389.7 THA 177.26

ORBIT DETERMINATION ACCURACY

ST 3451.4 SR 240.7 SS 1173.6
CRT .4475 CRS -.4495 CST -.9999
LSA 3647.1 MSA 215.1 SSA 12.4
EL1 3453.1 EL2 215.1 ALF 1.79

LAUNCH DATE OCT 11 1965 FLIGHT TIME 70.00 ARRIVAL DATE DEC 20 1965

HELIOCENTRIC CONIC DISTANCE 140.519

RL	149.33	LAL	.00	LOL	17.47	VL	18.574	GAL	15.17	AZL	90.86	HCA	48.06	SMA	92.65	ECC	.64590	INC	.8595	V1	29.839
RP	107.90	LAP	-.64	LOP	65.53	VP	32.053	GAP	-39.29	AZP	90.57	TAL	171.27	TAP	219.33	RCA	32.81	APO	152.49	V2	35.120
RC	62.721	GL	-1.18	GP	-4.28	ZAL	65.79	ZAP	27.62	ETS	168.51	ZAE	143.58	ETE	185.26	ZAC	19.92	ETC	108.31	CLP	27.31

PLANETOCENTRIC CONIC

C3 170.624 VHL 13.062 DLA -18.42 RAL 314.50 RAD 6570.8 VEL 17.087 PTH 2.93 VHP 22.661 DPA -28.65 RAP 272.90 ECC 3.8080

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 33 44	2094.10	-16.47	34.00	205.95	113.36	10 8 39	1494.1	-13.17	26.87
90.00	16 27 16	676.90	24.19	310.14	219.83	105.18	16 38 33	76.9	26.04	301.96
100.00	10 44 2	1867.28	-18.33	16.47	205.09	114.03	11 15 9	1267.3	-14.93	9.32
100.00	17 59 40	5666.99	26.15	266.71	220.42	105.01	19 34 7	5067.0	27.96	258.37
110.00	11 28 11	1728.93	-23.09	3.61	202.73	115.94	11 57 0	1128.9	-19.41	356.40
110.00	19 32 0	5378.11	31.22	246.30	221.95	104.68	21 1 38	4778.1	32.92	237.49

DIFFERENTIAL CORRECTIONS

TDE	-.4915	TRA	-1.5788	TC3	-.1190	BAU	.2722												
RDE	-.9396	RRA	.3961	RC3	-.0084	FAU	.01307												
FDE	.2391	FRA	.6540	FC3	-.0663	BSP	2166												
BDE	1.0604	BRA	1.6278	BC3	.1193	FSP	-66												

MID-COURSE EXECUTION ACCURACY

SGT	822.2	SGR	451.5	SG3	31.4						
RRT	-.1024	RRF	.0969	RTF	-.6330						
SGB	938.0	R23	-.0047	R13	.6338						
SG1	824.0	SG2	448.1	THA	175.42						

ORBIT DETERMINATION ACCURACY

ST	307.4	SR	415.8	SS	271.7						
CRT	.6011	CRS	.6628	CST	.9945						
LSA	526.9	MSA	251.8	SSA	13.8						
ELI	469.0	EL2	217.8	ALF	58.51						

LAUNCH DATE OCT 11 1965 FLIGHT TIME 72.00 ARRIVAL DATE DEC 22 1965

HELIOCENTRIC CONIC DISTANCE 146.544

RL	149.33	LAL	.00	LOL	17.47	VL	19.223	GAL	14.54	AZL	90.58	HCA	51.28	SMA	94.26	ECC	.61873	INC	.5779	V1	29.839
RP	107.87	LAP	-.45	LOP	68.75	VP	32.446	GAP	-37.45	AZP	90.36	TAL	170.60	TAP	221.88	RCA	35.94	APO	152.58	V2	35.132
RC	60.751	GL	-.87	GP	-4.42	ZAL	64.64	ZAP	26.13	ETS	167.70	ZAE	144.14	ETE	186.22	ZAC	20.72	ETC	112.49	CLP	25.78

PLANETOCENTRIC CONIC

C3 154.433 VHL 12.427 DLA -17.79 RAL 315.56 RAD 6570.7 VEL 16.606 PTH 2.89 VHP 21.739 DPA -28.84 RAP 274.81 ECC 3.5416

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 31 33	2101.11	-16.66	34.42	205.86	113.23	10 6 34	1501.1	-13.38	27.29
90.00	16 37 56	635.33	24.91	307.30	219.50	103.93	16 48 31	35.3	26.58	299.03
100.00	10 42 27	1872.34	-18.47	16.78	205.03	113.93	11 13 39	1272.3	-15.09	9.62
100.00	18 9 43	5627.37	26.82	263.96	220.02	103.71	19 43 31	5027.4	28.44	255.53
110.00	11 27 48	1730.24	-23.13	3.69	202.72	115.90	11 56 38	1130.2	-19.45	356.48
110.00	19 40 52	5342.23	31.81	243.67	221.39	103.23	21 9 54	4742.2	33.30	234.76

DIFFERENTIAL CORRECTIONS

TDE	-.4980	TRA	-1.5860	TC3	-.1255	BAU	.2601												
RDE	-.8976	RRA	.3944	RC3	-.0106	FAU	.01327												
FDE	.2554	FRA	.6794	FC3	-.0744	BSP	2331												
BDE	1.0265	BRA	1.6343	BC3	.1260	FSP	-73												

MID-COURSE EXECUTION ACCURACY

SGT	860.1	SGR	456.5	SG3	34.2						
RRT	-.1105	RRF	.1051	RTF	-.6529						
SGB	973.8	R23	-.0053	R13	.6537						
SG1	862.2	SG2	452.7	THA	175.36						

ORBIT DETERMINATION ACCURACY

ST	325.4	SR	417.8	SS	288.8						
CRT	.6019	CRS	.6706	CST	.9939						
LSA	544.8	MSA	258.5	SSA	14.0						
ELI	478.5	EL2	226.9	ALF	56.38						

LAUNCH DATE OCT 11 1965 FLIGHT TIME 74.00 ARRIVAL DATE DEC 24 1965

HELIOCENTRIC CONIC DISTANCE 152.655

RL	149.33	LAL	.00	LOL	17.47	VL	19.829	GAL	13.92	AZL	90.32	HCA	54.50	SMA	95.87	ECC	.59226	INC	.3203	V1	29.839
RP	107.83	LAP	-.26	LOP	71.97	VP	32.821	GAP	-35.70	AZP	90.19	TAL	169.95	TAP	224.45	RCA	39.09	APO	152.65	V2	35.144
RC	58.824	GL	-.52	GP	-4.57	ZAL	63.55	ZAP	24.66	ETS	166.77	ZAE	144.80	ETE	187.31	ZAC	21.65	ETC	116.37	CLP	24.26

PLANETOCENTRIC CONIC

C3 139.855 VHL 11.826 DLA -17.15 RAL 316.54 RAD 6570.5 VEL 16.161 PTH 2.84 VHP 20.851 DPA -29.02 RAP 276.76 ECC 3.3017

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 29 4	2107.46	-16.83	34.81	205.65	113.11	10 4 11	1507.5	-13.56	27.66
90.00	16 48 17	5880.90	25.57	282.27	218.98	102.60	18 26 18	5280.9	27.05	273.92
100.00	10 40 33	1876.82	-18.60	17.05	204.85	113.83	11 11 50	1276.8	-15.22	9.89
100.00	18 19 29	5586.77	27.45	261.10	219.44	102.33	19 52 36	4986.8	28.87	252.59
110.00	11 27 4	1731.06	-23.15	3.74	202.59	115.88	11 55 55	1131.1	-19.48	356.53
110.00	19 49 27	5305.30	32.35	240.93	220.65	101.69	21 17 52	4705.3	33.62	231.92

DIFFERENTIAL CORRECTIONS

TDE	-.5061	TRA	-1.5955	TC3	-.1324	BAU	.2489												
RDE	-.8560	RRA	.3918	RC3	-.0133	FAU	.01347												
FDE	.2725	FRA	.7057	FC3	-.0834	BSP	2447												
BDE	.9944	BRA	1.6429	BC3	.1331	FSP	-80												

MID-COURSE EXECUTION ACCURACY

SGT	901.5	SGR	460.9	SG3	37.1						
RRT	-.1184	RRF	.1138	RTF	-.6718						
SGB	1012.5	R23	-.0069	R13	.6726						
SG1	903.7	SG2	456.6	THA	175.34						

ORBIT DETERMINATION ACCURACY

ST	345.1	SR	419.0	SS	306.7						
CRT	.6033	CRS	.6778	CST	.9933						
LSA	564.4	MSA	264.6	SSA	14.2						
ELI	488.9	EL2	235.9	ALF	53.96						

LAUNCH DATE OCT 11 1965 FLIGHT TIME 76.00 ARRIVAL DATE DEC 26 1965

HELIOCENTRIC CONIC DISTANCE 158.846

RL	149.33	LAL	.00	LOL	17.47	VL	20.395	GAL	13.31	AZL	90.08	HCA	57.72	SMA	97.47	ECC	.56658	INC	.0828	V1	29.839
RP	107.80	LAP	-.07	LOP	75.19	VP	33.178	GAP	-34.04	AZP	90.04	TAL	169.33	TAP	227.05	RCA	42.25	APO	152.70	V2	35.155
RC	56.947	GL	-.15	GP	-4.73	ZAL	62.53	ZAP	23.22	ETS	166.71	ZAE	145.57	ETE	188.54	ZAC	22.68	ETC	119.95	CLP	22.76

PLANETOCENTRIC CONIC

C3 126.716 VHL 11.257 DLA -16.50 RAL 317.45 RAD 6570.3 VEL 15.750 PTH 2.79 VHP 19.995 DPA -29.18 RAP 278.73 ECC 3.0854

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 26 17	2113.23	-16.99	35.16	205.33	113.00	10 1 30	1513.2	-13.73	28.00
90.00	16 58 19	5837.50	26.18	279.24	218.28	101.20	18 35 37	5237.5	27.46	270.81
100.00	10 38 19	1880.77	-18.71	17.30	204.55	113.75	11 9 40	1280.8	-15.34	10.12
100.00	18 28 58	5545.19	28.02	258.14	218.69	100.87	20 1 23	4945.2	29.23	249.55
110.00	11 25 59	1731.43	-23.16	3.76	202.34	115.87	11 54 51	1131.4	-19.49	356.55
110.00	19 57 47	5267.30	32.84	238.07	219.72	100.06	21 25 34	4667.3	33.88	228.99

DIFFERENTIAL CORRECTIONS

TDE	-.5114	TRA	-1.6027	TC3	-.1384	BAU	.2362												
RDE	-.8149	RRA	.3885	RC3	-.0164	FAU	.01372												
FDE	.2900	FRA	.7324	FC3	-.0937	BSP	2617												
BDE	.9621	BRA	1.6491	BC3	.1394	FSP	-89												

MID-COURSE EXECUTION ACCURACY

SGT	942.7	SGR	464.7	SG3	40.3						
RRT	-.1278	RRF	.1234	RTF	-.6902						
SGB	1051.0	R23	-.0078	R13	.6911						
SG1	945.1	SG2	459.7	THA	175.28						

ORBIT DETERMINATION ACCURACY

ST	364.7	SR	419.4	SS	325.2						
CRT	.6028	CRS	.6841	CST	.9925						
LSA	584.3	MSA	270.1	SSA	14.4						
ELI	499.1	EL2	244.5	ALF	51.55						

LAUNCH DATE OCT 11 1965 FLIGHT TIME 78.00 ARRIVAL DATE DEC 28 1965

HELIOCENTRIC CONIC DISTANCE 165.113

RL	149.33	LAL	.00	LOL	17.47	VL	20.923	GAL	12.72	AZL	89.86	HCA	60.94	SMA	99.06	ECC	.54172	INC	.1379	V1	29.839
RP	107.76	LAP	.12	LOP	78.42	VP	33.517	GAP	-32.45	AZP	89.93	TAL	168.74	TAP	229.68	RCA	45.40	APO	152.73	V2	35.166
RC	55.125	GL	.26	GP	-4.91	ZAL	61.57	ZAP	21.81	ETS	164.47	ZAE	146.46	ETE	189.94	ZAC	23.82	ETC	123.22	CLP	21.28

PLANETOCENTRIC CONIC

C3 114.867 VHL 10.718 DLA -15.82 RAL 318.28 RAD 6570.2 VEL 15.369 PTH 2.75 VHP 19.169 DPA -29.34 RAP 280.72 ECC 2.8904

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 23 10	2118.51	-17.13	35.49	204.89	112.90	9 58 28	1518.5	-13.88	28.32
90.00	17 8 4	5793.15	26.73	276.11	217.41	99.72	18 44 37	5193.2	27.80	267.60
100.00	10 35 45	1884.30	-18.80	17.51	204.14	113.68	11 7 9	1284.3	-15.44	10.33
100.00	18 38 10	5502.60	28.53	255.08	217.75	99.34	20 9 52	4902.6	29.52	246.41
110.00	11 24 33	1731.43	-23.16	3.76	201.98	115.87	11 53 24	1131.4	-19.49	356.55
110.00	20 5 51	5228.24	33.27	235.10	218.61	98.35	21 32 59	4628.2	34.06	225.95

DIFFERENTIAL CORRECTIONS

TDE	-.5164	TRA	-1.6099	TC3	-.1440	BAU	.2234												
RDE	-.7743	RRA	.3845	RC3	-.0201	FAU	.01398												
FDE	.3082	FRA	.7599	FC3	-.1054	BSP	2790												
BDE	.9307	BRA	1.6552	BC3	.1454	FSP	-98												

MID-COURSE EXECUTION ACCURACY

SGT	985.8	SGR	467.8	SG3	43.8						
RRT	-.1378	RRF	.1340	RTF	-.7080						
SGB	1091.1	R23	-.0090	R13	.7089						
SG1	988.5	SG2	462.1	THA	175.21						

ORBIT DETERMINATION ACCURACY

ST	385.1	SR	418.9	SS	344.4						
CRT	.6018	CRS	.6897	CST	.9917						
LSA	605.5	MSA	274.9	SSA	14.6						
EL1	509.8	EL2	252.7	ALF	48.98						

LAUNCH DATE OCT 11 1965 FLIGHT TIME 80.00 ARRIVAL DATE DEC 30 1965

HELIOCENTRIC CONIC DISTANCE 171.450

RL	149.33	LAL	.00	LOL	17.47	VL	21.416	GAL	12.14	AZL	89.65	HCA	64.17	SMA	100.63	ECC	.51773	INC	.3464	V1	29.839
RP	107.73	LAP	.31	LOP	81.64	VP	33.838	GAP	-30.94	AZP	89.85	TAL	168.18	TAP	232.35	RCA	48.53	APO	152.73	V2	35.176
RC	53.365	GL	.71	GP	-5.11	ZAL	60.67	ZAP	20.42	ETS	163.02	ZAE	147.45	ETE	191.54	ZAC	25.05	ETC	126.20	CLP	19.80

PLANETOCENTRIC CONIC

C3 104.175 VHL 10.207 DLA -15.12 RAL 319.04 RAD 6570.0 VEL 15.017 PTH 2.70 VHP 18.373 DPA -29.49 RAP 282.74 ECC 2.7145

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 19 42	2123.43	-17.26	35.79	204.35	112.80	9 55 5	1523.4	-14.02	28.61
90.00	17 17 32	5747.82	27.21	272.88	216.36	98.17	18 53 20	5147.8	28.06	264.31
100.00	10 32 49	1887.50	-18.89	17.71	203.61	113.61	11 4 17	1287.5	-15.54	10.52
100.00	18 47 6	5458.99	28.97	251.91	216.64	97.73	20 18 5	4859.0	29.73	243.19
110.00	11 22 44	1731.14	-23.15	3.75	201.51	115.88	11 51 35	1131.1	-19.48	356.53
110.00	20 13 40	5188.10	33.62	232.02	217.32	96.56	21 40 9	4588.1	34.16	222.82

DIFFERENTIAL CORRECTIONS

TDE	-.5204	TRA	-1.6164	TC3	-.1488	BAU	.2101												
RDE	-.7343	RRA	.3800	RC3	-.0244	FAU	.01429												
FDE	.3272	FRA	.7882	FC3	-.1187	BSP	2975												
BDE	.9000	BRA	1.6604	BC3	.1508	FSP	-109												

MID-COURSE EXECUTION ACCURACY

SGT	1030.1	SGR	470.3	SG3	47.5						
RRT	-.1489	RRF	.1455	RTF	-.7250						
SGB	1132.4	R23	-.0102	R13	.7260						
SG1	1033.1	SG2	463.7	THA	175.13						

ORBIT DETERMINATION ACCURACY

ST	406.1	SR	417.5	SS	364.4						
CRT	.6000	CRS	.6947	CST	.9907						
LSA	627.7	MSA	279.0	SSA	14.8						
EL1	521.0	EL2	260.3	ALF	46.32						

LAUNCH DATE OCT 11 1965 FLIGHT TIME 82.00 ARRIVAL DATE JAN 1 1966

HELIOCENTRIC CONIC DISTANCE 177.851

RL	149.33	LAL	.00	LOL	17.47	VL	21.877	GAL	11.57	AZL	89.46	HCA	67.40	SMA	102.18	ECC	.49462	INC	.5436	V1	29.839
RP	107.70	LAP	.50	LOP	84.87	VP	34.141	GAP	-29.50	AZP	89.79	TAL	167.64	TAP	235.04	RCA	51.64	APO	152.71	V2	35.186
RC	51.675	GL	1.20	GP	-5.32	ZAL	59.84	ZAP	19.07	ETS	161.32	ZAE	148.56	ETE	193.39	ZAC	26.36	ETC	128.89	CLP	18.34

PLANETOCENTRIC CONIC

C3 94.527 VHL 9.722 DLA -14.41 RAL 319.71 RAD 6569.8 VEL 14.693 PTH 2.66 VHP 17.605 DPA -29.63 RAP 284.77 ECC 2.5557

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 15 52	2128.11	-17.38	36.08	203.70	112.71	9 51 20	1528.1	-14.15	28.89
90.00	17 26 45	5701.49	27.61	269.55	215.15	96.55	19 1 46	5101.5	28.23	260.94
100.00	10 29 31	1890.49	-18.97	17.90	202.98	113.54	11 1 1	1290.5	-15.63	10.70
100.00	18 55 47	5414.34	29.33	248.64	215.36	96.04	20 26 2	4814.3	29.86	239.88
110.00	11 20 32	1730.70	-23.14	3.72	200.93	115.89	11 49 22	1130.7	-19.47	356.51
110.00	20 21 16	5146.90	33.90	228.84	215.87	94.70	21 47 3	4546.9	34.18	219.60

DIFFERENTIAL CORRECTIONS

TDE	-.5268	TRA	-1.6249	TC3	-.1540	BAU	.1981												
RDE	-.6947	RRA	.3751	RC3	-.0293	FAU	.01461												
FDE	.3475	FRA	.8179	FC3	-.1338	BSP	3101												
BDE	.8718	BRA	1.6676	BC3	.1567	FSP	-119												

MID-COURSE EXECUTION ACCURACY

SGT	1078.6	SGR	472.2	SG3	51.6						
RRT	-.1599	RRF	.1579	RTF	-.7409						
SGB	1177.4	R23	-.0126	R13	.7419						
SG1	1081.9	SG2	464.7	THA	175.09						

ORBIT DETERMINATION ACCURACY

ST	429.4	SR	415.1	SS	385.6						
CRT	.5991	CRS	.6994	CST	.9899						
LSA	652.3	MSA	282.2	SSA	15.0						
EL1	534.2	EL2	267.2	ALF	43.37						

LAUNCH DATE OCT 11 1965 FLIGHT TIME 84.00 ARRIVAL DATE JAN 3 1966

HELIOCENTRIC CONIC DISTANCE 184.311

RL	149.33	LAL	.00	LOL	17.47	VL	22.307	GAL	11.02	AZL	89.27	HCA	70.63	SMA	103.69	ECC	.47243	INC	.7319	V1	29.839
RP	107.67	LAP	.69	LOP	88.10	VP	34.428	GAP	-28.11	AZP	89.76	TAL	167.15	TAP	237.78	RCA	54.70	APO	152.68	V2	35.196
RC	50.062	GL	1.73	GP	-5.55	ZAL	59.07	ZAP	17.74	ETS	159.30	ZAE	149.78	ETE	195.54	ZAC	27.74	ETC	131.32	CLP	16.88

PLANETOCENTRIC CONIC

C3 85.817 VHL 9.264 DLA -13.66 RAL 320.30 RAD 6569.7 VEL 14.393 PTH 2.62 VHP 16.863 DPA -29.76 RAP 286.82 ECC 2.4123

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 11 39	2132.70	-17.50	36.36	202.94	112.62	9 47 11	1532.7	-14.28	29.16
90.00	17 35 43	5654.14	27.93	266.12	213.77	94.86	19 9 57	5054.1	28.31	257.47
100.00	10 25 48	1893.43	-19.05	18.08	202.24	113.48	10 57 22	1293.4	-15.71	10.88
100.00	19 4 15	5368.64	29.61	245.27	213.93	94.29	20 33 43	4768.6	29.89	236.48
110.00	11 17 55	1730.21	-23.12	3.69	200.24	115.90	11 46 45	1130.2	-19.45	356.48
110.00	20 28 37	5104.63	34.08	225.55	214.25	92.76	21 53 42	4504.6	34.09	216.30

DIFFERENTIAL CORRECTIONS

TDE	-.5302	TRA	-1.6305	TC3	-.1572	BAU	.1848												
RDE	-.6557	RRA	.3697	RC3	-.0351	FAU	.01498												
FDE	.3685	FRA	.8484	FC3	-.1511	BSP	3289												
BDE	.8433	BRA	1.6719	BC3	.1610	FSP	-132												

MID-COURSE EXECUTION ACCURACY

SGT	1126.7	SGR	473.4	SG3	56.1						
RRT	-.1730	RRF	.1720	RTF	-.7565						
SGB	1222.1	R23	-.0144	R13	.7575						
SG1	1130.3	SG2	464.8	THA	174.99						

ORBIT DETERMINATION ACCURACY

ST	452.3	SR	411.7	SS	407.6						
CRT	.5964	CRS	.7031	CST	.9888						
LSA	677.4	MSA	284.8	SSA	15.1						
EL1	547.2	EL2	273.1	ALF	40.51						

LAUNCH DATE OCT 11 1965 FLIGHT TIME 86.00 ARRIVAL DATE JAN 5 1966

HELIOCENTRIC CONIC DISTANCE 190.824

RL 149.33 LAL .00 LOL 17.47 VL 22.708 GAL 10.49 AZL 89.09 HCA 73.86 SMA 105.18 ECC .45116 INC .9129 VI 29.839
RP 107.64 LAP -.88 LOP 91.33 VP 34.698 GAP -26.79 AZP 89.75 TAL 166.69 TAP 240.55 RCA 57.72 APO 152.63 V2 35.204
RC 48.537 GL 2.31 GP -5.81 ZAL 58.37 ZAP 16.46 ETS 156.89 ZAE 151.09 ETE 198.05 ZAC 29.18 ETC 133.51 CLP 15.42

PLANETOCENTRIC CONIC

C3 77.958 VHL 8.829 DLA -12.89 RAL 320.82 RAD 6569.5 VEL 14.118 PTH 2.57 VHP 16.147 DPA -29.89 RAP 288.88 ECC 2.2830

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 7 0	2137.38	-17.62	36.65	202.08	112.53	9 42 37	1537.4	-14.42	29.44
90.00	17 44 28	5605.75	28.16	262.60	212.24	93.11	19 17 54	5005.8	28.29	253.93
100.00	10 21 40	1896.48	-19.13	18.27	201.41	113.41	10 53 16	1296.5	-15.80	11.06
100.00	19 12 29	5321.88	29.80	241.81	212.33	92.48	20 41 11	4721.9	29.82	233.01
110.00	11 14 52	1729.84	-23.11	3.67	199.45	115.91	11 43 42	1129.8	-19.44	356.46
110.00	20 35 46	5061.30	34.18	222.17	212.48	90.76	22 0 7	4461.3	33.90	212.93

DIFFERENTIAL CORRECTIONS
TDE -.5331 TRA-1.6350 TC3 -.1590 BAU .1714
RDE -.6174 RRA .3642 RC3 -.0418 FAU .01540
FDE .3906 FRA .8800 FC3 -.1710 BSP 3485
BDE .8157 BRA 1.6750 BC3 .1644 FSP -146

MID-COURSE EXECUTION ACCURACY
SGT 1176.1 SGR 474.1 SG3 61.0
RRT -.1875 RRF .1875 RTF -.7713
SGB 1268.0 R23 -.0165 R13 .7723
SG1 1180.1 SG2 464.1 THA 174.88

ORBIT DETERMINATION ACCURACY
ST 475.8 SR 407.2 SS 430.5
CRT .5929 CRS .7064 CST .9876
LSA 703.7 MSA 286.4 SSA 15.3
EL1 561.1 EL2 278.0 ALF 37.62

LAUNCH DATE OCT 11 1965 FLIGHT TIME 88.00 ARRIVAL DATE JAN 7 1966

HELIOCENTRIC CONIC DISTANCE 197.386

RL 149.33 LAL .00 LOL 17.47 VL 23.082 GAL 9.97 AZL 88.91 HCA 77.10 SMA 106.62 ECC .43081 INC 1.0882 VI 29.839
RP 107.62 LAP 1.06 LOP 94.57 VP 34.953 GAP -25.51 AZP 89.76 TAL 166.27 TAP 243.37 RCA 60.69 APO 152.56 V2 35.213
RC 47.108 GL 2.94 GP -6.09 ZAL 57.74 ZAP 15.22 ETS 153.99 ZAE 152.48 ETE 201.01 ZAC 30.68 ETC 135.47 CLP 13.97

PLANETOCENTRIC CONIC

C3 70.868 VHL 8.418 DLA -12.09 RAL 321.25 RAD 6569.4 VEL 13.864 PTH 2.53 VHP 15.456 DPA -30.02 RAP 290.95 ECC 2.1663

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 1 54	2142.36	-17.75	36.96	201.13	112.43	9 37 36	1542.4	-14.56	29.74
90.00	17 53 1	5556.31	28.29	258.99	210.57	91.30	19 25 37	4956.3	28.17	250.32
100.00	10 17 4	1899.83	-19.22	18.47	200.48	113.34	10 48 44	1299.8	-15.90	11.26
100.00	19 20 32	5274.07	29.89	238.26	210.60	90.61	20 48 26	4674.1	29.65	229.46
110.00	11 11 23	1729.75	-23.11	3.66	198.57	115.92	11 40 12	1129.8	-19.44	356.45
110.00	20 42 43	5016.91	34.16	218.70	210.57	88.71	22 6 20	4416.9	33.61	209.50

DIFFERENTIAL CORRECTIONS
TDE -.5362 TRA-1.6389 TC3 -.1595 BAU .1583
RDE -.5796 RRA .3585 RC3 -.0495 FAU .01585
FDE .4143 FRA .9130 FC3 -.1936 BSP 3677
BDE .7896 BRA 1.6777 BC3 .1670 FSP -161

MID-COURSE EXECUTION ACCURACY
SGT 1227.5 SGR 474.2 SG3 66.3
RRT -.2034 RRF .2047 RTF -.7854
SGB 1315.9 R23 -.0189 R13 .7865
SG1 1231.9 SG2 462.6 THA 174.77

ORBIT DETERMINATION ACCURACY
ST 500.4 SR 401.5 SS 454.8
CRT .5891 CRS .7090 CST .9864
LSA 731.9 MSA 287.2 SSA 15.4
EL1 576.4 EL2 281.7 ALF 34.68

LAUNCH DATE OCT 11 1965 FLIGHT TIME 90.00 ARRIVAL DATE JAN 9 1966

HELIOCENTRIC CONIC DISTANCE 203.991

RL 149.33 LAL .00 LOL 17.47 VL 23.431 GAL 9.47 AZL 88.74 HCA 80.33 SMA 108.03 ECC .41139 INC 1.2591 VI 29.839
RP 107.60 LAP 1.24 LOP 97.80 VP 35.192 GAP -24.29 AZP 89.79 TAL 165.89 TAP 246.22 RCA 63.59 APO 152.48 V2 35.220
RC 45.785 GL 3.63 GP -6.41 ZAL 57.18 ZAP 14.04 ETS 150.48 ZAE 153.92 ETE 204.51 ZAC 32.23 ETC 137.24 CLP 12.52

PLANETOCENTRIC CONIC

C3 64.476 VHL 8.030 DLA -11.26 RAL 321.60 RAD 6569.2 VEL 13.632 PTH 2.49 VHP 14.789 DPA -30.15 RAP 293.04 ECC 2.0611

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 56 19	2147.84	-17.89	37.30	200.10	112.32	9 32 7	1547.8	-14.71	30.07
90.00	18 1 24	5505.80	28.31	255.29	208.76	89.45	19 33 9	4905.8	27.94	246.65
100.00	10 12 0	1903.69	-19.33	18.71	199.46	113.26	10 43 43	1303.7	-16.02	11.49
100.00	19 28 24	5225.19	29.87	234.62	208.73	88.70	20 55 29	4625.2	29.37	225.86
110.00	11 7 25	1730.15	-23.12	3.69	197.60	115.91	11 36 15	1130.2	-19.45	356.47
110.00	20 49 29	4971.49	34.04	215.16	208.53	86.62	22 12 20	4371.5	33.19	206.02

DIFFERENTIAL CORRECTIONS
TDE -.5385 TRA-1.6414 TC3 -.1579 BAU .1451
RDE -.5424 RRA .3529 RC3 -.0583 FAU .01636
FDE .4396 FRA .9476 FC3 -.2197 BSP 3886
BDE .7643 BRA 1.6790 BC3 .1683 FSP -177

MID-COURSE EXECUTION ACCURACY
SGT 1279.9 SGR 473.8 SG3 72.2
RRT -.2212 RRF .2240 RTF -.7989
SGB 1364.8 R23 -.0215 R13 .8001
SG1 1284.8 SG2 460.3 THA 174.63

ORBIT DETERMINATION ACCURACY
ST 525.4 SR 394.6 SS 480.2
CRT .5842 CRS .7108 CST .9851
LSA 761.4 MSA 287.2 SSA 15.6
EL1 592.6 EL2 284.0 ALF 31.80

LAUNCH DATE OCT 11 1965 FLIGHT TIME 92.00 ARRIVAL DATE JAN 11 1966

HELIOCENTRIC CONIC DISTANCE 210.634

RL 149.33 LAL .00 LOL 17.47 VL 23.757 GAL 8.99 AZL 88.57 HCA 83.57 SMA 109.40 ECC .39289 INC 1.4268 VI 29.839
RP 107.57 LAP 1.42 LOP 101.04 VP 35.416 GAP -23.12 AZP 89.84 TAL 165.55 TAP 249.12 RCA 66.42 APO 152.38 V2 35.227
RC 44.580 GL 4.37 GP -6.75 ZAL 56.69 ZAP 12.94 ETS 146.22 ZAE 155.39 ETE 208.69 ZAC 33.83 ETC 138.82 CLP 11.07

PLANETOCENTRIC CONIC

C3 58.717 VHL 7.663 DLA -10.38 RAL 321.87 RAD 6569.1 VEL 13.419 PTH 2.45 VHP 14.145 DPA -30.29 RAP 295.12 ECC 1.9663

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 50 13	2154.06	-18.06	37.69	198.98	112.19	9 26 7	1554.1	-14.89	30.44
90.00	18 9 37	5454.22	28.22	251.52	206.84	87.56	19 40 31	4854.2	27.58	242.91
100.00	10 6 24	1908.28	-19.45	19.00	198.36	113.16	10 38 12	1308.3	-16.15	11.76
100.00	19 36 7	5175.24	29.73	230.92	206.75	86.75	21 2 22	4575.2	28.96	222.20
110.00	11 2 56	1731.25	-23.16	3.75	196.55	115.88	11 31 47	1131.2	-19.48	356.54
110.00	20 56 5	4925.03	33.79	211.55	206.39	84.50	22 18 10	4325.0	32.66	202.50

DIFFERENTIAL CORRECTIONS
TDE -.5411 TRA-1.6431 TC3 -.1544 BAU .1326
RDE -.5058 RRA .3475 RC3 -.0684 FAU .01693
FDE .4667 FRA .9838 FC3 -.2496 BSP 4092
BDE .7406 BRA 1.6794 BC3 .1689 FSP -196

MID-COURSE EXECUTION ACCURACY
SGT 1334.1 SGR 473.1 SG3 78.6
RRT -.2410 RRF .2456 RTF -.8115
SGB 1415.5 R23 -.0247 R13 .8128
SG1 1339.6 SG2 457.2 THA 174.47

ORBIT DETERMINATION ACCURACY
ST 551.5 SR 386.4 SS 507.2
CRT .5788 CRS .7119 CST .9838
LSA 792.8 MSA 286.2 SSA 15.7
EL1 610.2 EL2 284.8 ALF 28.94

LAUNCH DATE OCT 11 1965 FLIGHT TIME 94.00 ARRIVAL DATE JAN 13 1966

HELIOCENTRIC CONIC DISTANCE 217.310

RL	149.33	LAL	.00	LOL	17.47	VL	24.060	GAL	8.52	AZL	88.41	HCA	86.81	SMA	110.72	ECC	.37531	INC	1.5924	V1	29.839
RP	107.55	LAP	1.59	LOP	104.28	VP	35.627	GAP	-21.99	AZP	89.91	TAL	165.26	TAP	252.07	RCA	69.17	APO	152.28	V2	35.234
RC	43.503	GL	5.19	GP	-7.13	ZAL	56.28	ZAP	11.94	ETS	141.04	ZAE	156.82	ETE	213.66	ZAC	35.46	ETC	140.23	CLP	9.61

PLANETOCENTRIC CONIC

C3	53.535	VHL	7.317	DLA	-9.47	RAL	322.05	RAD	6568.9	VEL	13.225	PTH	2.42	VHP	13.523	DPA	-30.43	RAP	297.22	ECC	1.8810

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 43 34	2161.29	-18.24	38.13	197.79	112.04	9 19 35	1561.3	-15.09	30.87
90.00	18 17 43	5401.55	28.01	247.68	204.81	85.65	19 47 45	4801.6	27.11	239.13
100.00	10 0 15	1913.86	-19.60	19.35	197.19	113.03	10 32 9	1313.9	-16.31	12.09
100.00	19 43 43	5124.21	29.48	227.15	204.67	84.78	21 9 7	4524.2	28.44	218.50
110.00	10 57 56	1733.27	-23.22	3.88	195.43	115.82	11 26 49	1133.3	-19.55	356.66
110.00	21 2 32	4877.56	33.42	207.90	204.15	82.36	22 23 49	4277.6	32.00	198.95

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TDE	-.5437	TRA	-1.6438	TC3	-.1485	BAU	.1207	SGT	1389.8	SGR	472.0	SG3	85.6	ST	578.5	SR	376.7	SS	536.0
RDE	-.4696	RRA	.3423	RC3	-.0800	FAU	.01755	RRT	-.2632	RRF	.2698	RTF	-.8235	CRT	.5722	CRS	.7120	CST	.9824
FDE	.4963	FRA	1.0221	FC3	-.2838	BSP	4299	SGB	1467.8	R23	-.0282	R13	.8249	LSA	826.3	MSA	284.3	SSA	15.8
BDE	.7185	BRA	1.6791	BC3	.1687	FSP	-216	SG1	1396.0	SG2	453.3	THA	174.29	EL1	629.2	EL2	284.0	ALF	26.15

LAUNCH DATE OCT 11 1965 FLIGHT TIME 96.00 ARRIVAL DATE JAN 15 1966

HELIOCENTRIC CONIC DISTANCE 224.016

RL	149.33	LAL	.00	LOL	17.47	VL	24.342	GAL	8.07	AZL	88.24	HCA	90.05	SMA	112.00	ECC	.35862	INC	1.7571	V1	29.839
RP	107.54	LAP	1.76	LOP	107.52	VP	35.824	GAP	-20.90	AZP	90.00	TAL	165.02	TAP	255.07	RCA	71.84	APO	152.17	V2	35.239
RC	42.563	GL	6.07	GP	-7.55	ZAL	55.94	ZAP	11.08	ETS	134.79	ZAE	158.15	ETE	219.58	ZAC	37.13	ETC	141.49	CLP	8.14

PLANETOCENTRIC CONIC

C3	48.878	VHL	6.991	DLA	-8.51	RAL	322.14	RAD	6568.8	VEL	13.048	PTH	2.38	VHP	12.924	DPA	-30.59	RAP	299.31	ECC	1.8044

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 36 19	2169.79	-18.46	38.67	196.54	111.86	9 12 28	1569.8	-15.33	31.39
90.00	18 25 44	5347.78	27.67	243.79	202.70	83.72	19 54 52	4747.8	26.51	235.31
100.00	9 53 31	1920.70	-19.78	19.77	195.96	112.88	10 25 32	1320.7	-16.51	12.50
100.00	19 51 12	5072.11	29.09	223.32	202.51	82.81	21 15 44	4472.1	27.79	214.76
110.00	10 52 21	1736.48	-23.31	4.08	194.25	115.74	11 21 18	1136.5	-19.66	356.85
110.00	21 8 52	4829.09	32.92	204.20	201.84	80.23	22 29 21	4229.1	31.22	195.39

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TDE	-.5490	TRA	-1.6454	TC3	-.1416	BAU	.1107	SGT	1449.4	SGR	470.8	SG3	93.3	ST	608.1	SR	365.4	SS	567.1
RDE	-.4338	RRA	.3377	RC3	-.0931	FAU	.01821	RRT	-.2870	RRF	.2969	RTF	-.8345	CRT	.5656	CRS	.7109	CST	.9813
FDE	.5290	FRA	1.0628	FC3	-.3226	BSP	4455	SGB	1523.9	R23	-.0334	R13	.8360	LSA	863.4	MSA	281.4	SSA	16.0
BDE	.6997	BRA	1.6797	BC3	.1694	FSP	-237	SG1	1456.3	SG2	448.9	THA	174.11	EL1	651.2	EL2	281.3	ALF	23.38

LAUNCH DATE OCT 11 1965 FLIGHT TIME 98.00 ARRIVAL DATE JAN 17 1966

HELIOCENTRIC CONIC DISTANCE 230.745

RL	149.33	LAL	.00	LOL	17.47	VL	24.605	GAL	7.64	AZL	88.08	HCA	93.29	SMA	113.23	ECC	.34281	INC	1.9218	V1	29.839
RP	107.52	LAP	1.92	LOP	110.76	VP	36.008	GAP	-19.85	AZP	90.11	TAL	164.82	TAP	258.11	RCA	74.41	APO	152.05	V2	35.244
RC	41.769	GL	7.03	GP	-8.01	ZAL	55.69	ZAP	10.41	ETS	127.39	ZAE	159.30	ETE	226.51	ZAC	38.82	ETC	142.60	CLP	6.67

PLANETOCENTRIC CONIC

C3	44.698	VHL	6.686	DLA	-7.50	RAL	322.15	RAD	6568.7	VEL	12.887	PTH	2.35	VHP	12.346	DPA	-30.77	RAP	301.41	ECC	1.7356

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 28 25	2179.88	-18.71	39.30	195.23	111.65	9 4 45	1579.9	-15.61	31.99
90.00	18 33 41	5292.88	27.20	239.84	200.51	81.80	20 1 54	4692.9	25.78	231.46
100.00	9 46 10	1929.08	-20.00	20.30	194.68	112.69	10 18 19	1329.1	-16.76	13.01
100.00	19 58 37	5018.91	28.58	219.45	200.27	80.83	21 22 16	4418.9	27.01	211.00
110.00	10 46 11	1741.14	-23.45	4.37	193.01	115.62	11 15 12	1141.1	-19.81	357.13
110.00	21 15 5	4779.61	32.29	200.48	199.47	78.11	22 34 45	4179.6	30.31	191.82

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TDE	-.5521	TRA	-1.6434	TC3	-.1297	BAU	.1009	SGT	1507.3	SGR	469.8	SG3	101.8	ST	636.8	SR	352.3	SS	599.8
RDE	-.3985	RRA	.3337	RC3	-.1080	FAU	.01897	RRT	-.3150	RRF	.3278	RTF	-.8452	CRT	.5560	CRS	.7080	CST	.9799
FDE	.5642	FRA	1.1056	FC3	-.3674	BSP	4671	SGB	1578.8	R23	-.0382	R13	.8468	LSA	901.2	MSA	277.7	SSA	16.1
BDE	.6809	BRA	1.6770	BC3	.1688	FSP	-262	SG1	1515.2	SG2	443.5	THA	173.86	EL1	673.0	EL2	277.1	ALF	20.78

LAUNCH DATE OCT 11 1965 FLIGHT TIME 100.00 ARRIVAL DATE JAN 19 1966

HELIOCENTRIC CONIC DISTANCE 237.495

RL	149.33	LAL	.00	LOL	17.47	VL	24.850	GAL	7.23	AZL	87.91	HCA	96.53	SMA	114.41	ECC	.32787	INC	2.0876	V1	29.839
RP	107.51	LAP	2.07	LOP	114.01	VP	36.179	GAP	-18.84	AZP	90.24	TAL	164.66	TAP	261.19	RCA	76.90	APO	151.92	V2	35.249
RC	41.131	GL	8.07	GP	-8.53	ZAL	55.53	ZAP	9.96	ETS	118.88	ZAE	160.16	ETE	234.47	ZAC	40.55	ETC	143.59	CLP	5.17

PLANETOCENTRIC CONIC

C3	40.956	VHL	6.400	DLA	-6.43	RAL	322.07	RAD	6568.6	VEL	12.741	PTH	2.32	VHP	11.789	DPA	-30.98	RAP	303.50	ECC	1.6740

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 19 50	2191.86	-19.01	40.05	193.88	111.39	8 56 22	1591.9	-15.94	32.72
90.00	18 41 37	5236.83	26.59	235.85	198.28	79.89	20 8 53	4636.8	24.92	227.58
100.00	9 38 7	1939.31	-20.27	20.94	193.35	112.45	10 10 27	1339.3	-17.05	13.63
100.00	20 6 1	4964.61	27.92	215.55	197.99	78.88	21 28 45	4364.6	26.11	207.22
110.00	10 39 22	1747.54	-23.64	4.77	191.74	115.45	11 8 30	1147.5	-20.01	357.51
110.00	21 21 15	4729.14	31.52	196.75	197.07	76.03	22 40 4	4129.1	29.28	188.26

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TDE	-.5559	TRA	-1.6402	TC3	-.1142	BAU	.0927	SGT	1566.2	SGR	469.1	SG3	111.1	ST	666.5	SR	337.4	SS	635.0
RDE	-.3634	RRA	.3305	RC3	-.1249	FAU	.01981	RRT	-.3467	RRF	.3625	RTF	-.8553	CRT	.5440	CRS	.7028	CST	.9785
FDE	.6032	FRA	1.1510	FC3	-.4187	BSP	4891	SGB	1634.9	R23	-.0436	R13	.8571	LSA	941.5	MSA	273.3	SSA	16.2
BDE	.6641	BRA	1.6732	BC3	.1692	FSP	-289	SG1	1575.3	SG2	437.4	THA	173.57	EL1	696.1	EL2	271.1	ALF	18.26

LAUNCH DATE OCT 11 1965 FLIGHT TIME 102.00 ARRIVAL DATE JAN 21 1966

HELIOCENTRIC CONIC DISTANCE 244.261

RL 149.33 LAL .00 LOL 17.47 VL 25.077 GAL 6.83 AZL 87.74 HCA 99.77 SMA 115.54 ECC .31377 INC 2.2557 V1 29.839
RP 107.50 LAP 2.22 LOP 117.25 VP 36.339 GAP -17.86 AZP 90.38 TAL 164.56 TAP 264.33 RCA 79.29 APO 151.79 V2 35.252
RC 40.657 GL 9.20 GP -9.10 ZAL 55.45 ZAP 9.80 ETS 109.58 ZAE 160.63 ETE 243.25 ZAC 42.30 ETC 144.45 CLP 3.66

PLANETOCENTRIC CONIC

C3 37.613 VHL 6.133 DLA -5.29 RAL 321.90 RAD 6568.5 VEL 12.609 PTH 2.29 VHP 11.253 DPA -31.22 RAP 305.60 ECC 1.6190

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 10 31	2206.08	-19.36	40.94	192.50	111.08	8 47 18	1606.1	-16.32	33.58
90.00	18 49 33	5179.59	25.84	231.82	196.01	78.00	20 15 53	4579.6	23.93	223.68
100.00	9 29 22	1951.73	-20.59	21.72	191.99	112.16	10 1 54	1351.7	-17.41	14.38
100.00	20 13 24	4909.17	27.13	211.62	195.68	76.95	21 35 13	4309.2	25.07	203.43
110.00	10 31 53	1755.99	-23.88	5.31	190.43	115.22	11 1 9	1156.0	-20.29	358.01
110.00	21 27 22	4677.68	30.61	193.01	194.66	73.99	22 45 20	4077.7	28.11	184.71

DIFFERENTIAL CORRECTIONS
TDE -.5608 TRA-1.6360 TC3 -.0952 BAU .0868
RDE -.3283 RRA .3283 RC3 -.1440 FAU .02072
FDE .6466 FRA 1.1994 FC3 -.4769 BSP 5103
BDE .6498 BRA 1.6687 BC3 .1726 FSP -319

MID-COURSE EXECUTION ACCURACY
SGT 1626.1 SGR 469.2 SG3 121.4
RRT -.3820 RRF .4015 RTF -.8648
SGB 1692.5 R23 -.0499 R13 .8668
SG1 1636.7 SG2 430.8 THA 173.24

ORBIT DETERMINATION ACCURACY
ST 697.5 SR 320.4 SS 673.1
CRT .5287 CRS .6944 CST .9773
LSA 984.9 MSA 268.0 SSA 16.3
EL1 721.1 EL2 263.0 ALF 15.81

LAUNCH DATE OCT 11 1965 FLIGHT TIME 104.00 ARRIVAL DATE JAN 23 1966

HELIOCENTRIC CONIC DISTANCE 251.038

RL 149.33 LAL .00 LOL 17.47 VL 25.288 GAL 6.45 AZL 87.57 HCA 103.02 SMA 116.62 ECC .30050 INC 2.4270 V1 29.839
RP 107.49 LAP 2.36 LOP 120.50 VP 36.488 GAP -16.92 AZP 90.55 TAL 164.50 TAP 267.51 RCA 81.57 APO 151.66 V2 35.255
RC 40.351 GL 10.42 GP -9.74 ZAL 55.46 ZAP 9.97 ETS 100.02 ZAE 160.63 ETE 252.46 ZAC 44.07 ETC 145.20 CLP 2.13

PLANETOCENTRIC CONIC

C3 34.636 VHL 5.885 DLA -4.09 RAL 321.64 RAD 6568.4 VEL 12.490 PTH 2.26 VHP 10.737 DPA -31.51 RAP 307.69 ECC 1.5700

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 0 25	2222.88	-19.77	42.01	191.11	110.70	8 37 28	1622.9	-16.78	34.61
90.00	18 57 34	5121.13	24.95	227.77	193.72	76.16	20 22 55	4521.1	22.80	219.76
100.00	9 19 51	1966.67	-20.97	22.67	190.61	111.80	9 52 37	1366.7	-17.83	15.29
100.00	20 20 50	4852.57	26.20	207.67	193.36	75.07	21 41 42	4252.6	23.90	199.63
110.00	10 23 41	1766.79	-24.19	5.99	189.10	114.92	10 53 8	1166.8	-20.63	358.66
110.00	21 33 29	4625.21	29.57	189.28	192.24	72.01	22 50 34	4025.2	26.82	181.17

DIFFERENTIAL CORRECTIONS
TDE -.5641 TRA-1.6278 TC3 -.0691 BAU .0830
RDE -.2931 RRA .3273 RC3 -.1655 FAU .02176
FDE .6945 FRA 1.2503 FC3 -.5438 BSP 5375
BDE .6357 BRA 1.6603 BC3 .1793 FSP -354

MID-COURSE EXECUTION ACCURACY
SGT 1683.0 SGR 470.6 SG3 132.6
RRT -.4230 RRF .4452 RTF -.8741
SGB 1747.5 R23 -.0557 R13 .8763
SG1 1695.5 SG2 423.3 THA 172.80

ORBIT DETERMINATION ACCURACY
ST 727.2 SR 301.1 SS 713.6
CRT .5073 CRS .6812 CST .9758
LSA 1029.3 MSA 262.3 SSA 16.3
EL1 745.2 EL2 253.2 ALF 13.44

LAUNCH DATE OCT 11 1965 FLIGHT TIME 106.00 ARRIVAL DATE JAN 25 1966

HELIOCENTRIC CONIC DISTANCE 257.824

RL 149.33 LAL .00 LOL 17.47 VL 25.483 GAL 6.09 AZL 87.40 HCA 106.26 SMA 117.64 ECC .28803 INC 2.6030 V1 29.839
RP 107.48 LAP 2.50 LOP 123.75 VP 36.626 GAP -16.01 AZP 90.73 TAL 164.49 TAP 270.74 RCA 83.76 APO 151.53 V2 35.257
RC 40.219 GL 11.74 GP -10.46 ZAL 55.57 ZAP 10.48 ETS 90.84 ZAE 160.13 ETE 261.54 ZAC 45.86 ETC 145.84 CLP .58

PLANETOCENTRIC CONIC

C3 31.996 VHL 5.657 DLA -2.82 RAL 321.28 RAD 6568.3 VEL 12.384 PTH 2.24 VHP 10.242 DPA -31.85 RAP 309.78 ECC 1.5266

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 49 28	2242.66	-20.24	43.27	189.70	110.24	8 26 51	1642.7	-17.30	35.82
90.00	19 5 42	5061.37	23.92	223.70	191.44	74.37	20 30 4	4461.4	21.54	215.84
100.00	9 9 30	1984.50	-21.42	23.80	189.22	111.36	9 42 34	1384.5	-18.33	16.38
100.00	20 28 22	4794.77	25.13	203.71	191.05	73.25	21 48 16	4194.8	22.59	195.83
110.00	10 14 44	1780.30	-24.58	6.85	187.77	114.54	10 44 24	1180.3	-21.06	359.47
110.00	21 39 37	4571.73	28.38	185.57	189.84	70.10	22 55 49	3971.7	25.41	177.66

DIFFERENTIAL CORRECTIONS
TDE -.5701 TRA-1.6195 TC3 -.0406 BAU .0829
RDE -.2574 RRA .3280 RC3 -.1896 FAU .02286
FDE .7493 FRA 1.3055 FC3 -.6186 BSP 5606
BDE .6256 BRA 1.6523 BC3 .1939 FSP -391

MID-COURSE EXECUTION ACCURACY
SGT 1741.5 SGR 473.9 SG3 145.1
RRT -.4674 RRF .4933 RTF -.8826
SGB 1804.9 R23 -.0632 R13 .8851
SG1 1756.4 SG2 415.4 THA 172.32

ORBIT DETERMINATION ACCURACY
ST 759.1 SR 279.3 SS 758.2
CRT .4785 CRS .6608 CST .9746
LSA 1078.6 MSA 255.9 SSA 16.3
EL1 772.1 EL2 241.1 ALF 11.08

LAUNCH DATE OCT 11 1965 FLIGHT TIME 108.00 ARRIVAL DATE JAN 27 1966

HELIOCENTRIC CONIC DISTANCE 264.616

RL 149.33 LAL .00 LOL 17.47 VL 25.664 GAL 5.74 AZL 87.22 HCA 109.50 SMA 118.62 ECC .27634 INC 2.7849 V1 29.839
RP 107.48 LAP 2.62 LOP 127.00 VP 36.753 GAP -15.13 AZP 90.93 TAL 164.52 TAP 274.02 RCA 85.84 APO 151.40 V2 35.259
RC 40.263 GL 13.17 GP -11.27 ZAL 55.78 ZAP 11.31 ETS 82.58 ZAE 159.13 ETE 269.98 ZAC 47.67 ETC 146.38 CLP -1.01

PLANETOCENTRIC CONIC

C3 29.667 VHL 5.447 DLA -1.46 RAL 320.84 RAD 6568.2 VEL 12.290 PTH 2.21 VHP 9.767 DPA -32.27 RAP 311.87 ECC 1.4882

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 37 37	2265.81	-20.78	44.75	188.31	109.68	8 15 22	1665.8	-17.91	37.25
90.00	19 14 1	5000.26	22.74	219.61	189.18	72.65	20 37 21	4400.3	20.15	211.90
100.00	8 58 16	2005.61	-21.94	25.16	187.85	110.83	9 31 42	1405.6	-18.91	17.67
100.00	20 36 2	4735.70	23.91	199.74	188.76	71.50	21 54 58	4135.7	21.16	192.03
110.00	10 4 58	1796.85	-25.04	7.91	186.45	114.07	10 34 54	1196.9	-21.58	.48
110.00	21 45 50	4517.22	27.07	181.88	187.48	68.28	23 1 8	3917.2	23.87	174.17

DIFFERENTIAL CORRECTIONS
TDE -.5800 TRA-1.6122 TC3 -.0082 BAU .0859
RDE -.2210 RRA .3304 RC3 -.2165 FAU .02407
FDE .8110 FRA 1.3646 FC3 -.7025 BSP 5822
BDE .6207 BRA 1.6457 BC3 .2166 FSP -431

MID-COURSE EXECUTION ACCURACY
SGT 1802.9 SGR 480.1 SG3 158.7
RRT -.5151 RRF .5457 RTF -.8905
SGB 1865.7 R23 -.0726 R13 .8933
SG1 1820.7 SG2 407.5 THA 171.77

ORBIT DETERMINATION ACCURACY
ST 794.6 SR 254.9 SS 806.8
CRT .4383 CRS .6288 CST .9739
LSA 1133.6 MSA 248.7 SSA 16.3
EL1 803.1 EL2 226.7 ALF 8.70

LAUNCH DATE OCT 11 1965 FLIGHT TIME 110.00 ARRIVAL DATE JAN 29 1966

DISTANCE 271.408

HELIOCENTRIC CONIC

RL 149.33 LAL .00 LOL 17.47 VL 25.832 GAL 5.41 AZL 87.03 HCA 112.75 SMA 119.54 ECC .26540 INC 2.9742 V1 29.839
RP 107.48 LAP 2.74 LOP 130.24 VP 36.871 GAP -14.28 AZP 91.15 TAL 164.59 TAP 277.34 RCA 87.81 APO 151.27 V2 35.259
RC 40.482 GL 14.71 GP -12.18 ZAL 56.08 ZAP 12.46 ETS 75.52 ZAE 157.71 ETE 277.38 ZAC 49.51 ETC 146.82 CLP -2.63

PLANETOCENTRIC CONIC

C3 27.626 VHL 5.256 DLA -.01 RAL 320.30 RAD 6568.1 VEL 12.207 PTH 2.19 VHP 9.313 OPA -32.77 RAP 313.97 ECC 1.4546

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 24 46	2292.76	-21.39	46.49	186.95	109.02	8 2 59	1692.8	-18.59	38.93
90.00	19 22 35	4937.70	21.41	215.51	186.96	71.01	20 44 53	4337.7	18.62	207.94
100.00	8 46 6	2030.40	-22.53	26.76	186.51	110.19	9 19 57	1430.4	-19.57	19.21
100.00	20 43 56	4675.30	22.55	195.77	186.52	69.84	22 1 51	4075.3	19.60	188.22
110.00	9 54 20	1816.83	-25.59	9.21	185.17	113.48	10 24 37	1216.8	-22.19	1.70
110.00	21 52 11	4461.63	25.61	178.21	185.18	66.55	23 6 33	3861.6	22.22	170.70

DIFFERENTIAL CORRECTIONS

TDE -.5909 TRA-1.6023 TC3 .0279 BAU .0916
RDE -.1832 RRA .3351 RC3 -.2464 FAU .02539
FDE .8815 FRA 1.4277 FC3 -.7957 BSP 6037
BDE .6186 BRA 1.6369 BC3 .2480 FSP -477

MID-COURSE EXECUTION ACCURACY

SGT 1861.8 SGR 490.3 SG3 173.8
RRT -.5663 RRF .6016 RTF -.8978
SGB 1925.3 R23 -.0832 R13 .9010
SG1 1883.4 SG2 399.5 THA 171.11

ORBIT DETERMINATION ACCURACY

ST 830.3 SR 228.0 SS 859.9
CRT .3763 CRS .5770 CST .9733
LSA 1192.6 MSA 241.4 SSA 16.2
EL1 835.1 EL2 210.0 ALF 6.30

LAUNCH DATE OCT 11 1965 FLIGHT TIME 112.00 ARRIVAL DATE JAN 31 1966

DISTANCE 278.200

HELIOCENTRIC CONIC

RL 149.33 LAL .00 LOL 17.47 VL 25.987 GAL 5.10 AZL 86.83 HCA 115.99 SMA 120.41 ECC .25519 INC 3.1728 V1 29.839
RP 107.48 LAP 2.85 LOP 133.49 VP 36.979 GAP -13.46 AZP 91.39 TAL 164.71 TAP 280.70 RCA 89.68 APO 151.14 V2 35.259
RC 40.875 GL 16.37 GP -13.21 ZAL 56.50 ZAP 13.88 ETS 69.69 ZAE 155.94 ETE 283.62 ZAC 51.36 ETC 147.16 CLP -4.29

PLANETOCENTRIC CONIC

C3 25.853 VHL 5.085 DLA 1.52 RAL 319.68 RAD 6568.0 VEL 12.134 PTH 2.17 VHP 8.879 OPA -33.37 RAP 316.07 ECC 1.4255

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 10 52	2323.96	-22.06	48.53	185.63	108.21	7 49 36	1724.0	-19.37	40.89
90.00	19 31 29	4873.58	19.93	211.39	184.80	69.46	20 52 42	4273.6	16.96	203.97
100.00	8 32 55	2059.30	-23.19	28.65	185.21	109.41	9 7 14	1459.3	-20.33	21.02
100.00	20 52 7	4613.47	21.04	191.80	184.34	68.26	22 9 0	4013.5	17.91	184.41
110.00	9 42 47	1840.61	-26.23	10.76	183.93	112.75	10 13 28	1240.6	-22.91	3.17
110.00	21 58 44	4404.93	24.02	174.57	182.94	64.92	23 12 9	3804.9	20.44	167.26

DIFFERENTIAL CORRECTIONS

TDE .6045 TRA-1.5917 TC3 .0678 BAU .0994
RDE -.1436 RRA .3425 RC3 -.2795 FAU .02681
FDE .9621 FRA 1.4955 FC3 -.8977 BSP 6250
BDE .6213 BRA 1.6281 BC3 .2876 FSP -526

MID-COURSE EXECUTION ACCURACY

SGT 1920.4 SGR 505.9 SG3 190.3
RRT -.6196 RRF .6595 RTF -.9046
SGB 1985.9 R23 -.0950 R13 .9084
SG1 1946.9 SG2 391.7 THA 170.33

ORBIT DETERMINATION ACCURACY

ST 868.2 SR 199.1 SS 918.0
CRT .2767 CRS .4893 CST .9729
LSA 1257.4 MSA 233.9 SSA 16.1
EL1 870.0 EL2 191.0 ALF 3.82

LAUNCH DATE OCT 11 1965 FLIGHT TIME 114.00 ARRIVAL DATE FEB 2 1966

DISTANCE 284.988

HELIOCENTRIC CONIC

RL 149.33 LAL .00 LOL 17.47 VL 26.130 GAL 4.81 AZL 86.62 HCA 119.23 SMA 121.23 ECC .24569 INC 3.3826 V1 29.839
RP 107.48 LAP 2.95 LOP 136.75 VP 37.079 GAP -12.67 AZP 91.65 TAL 164.87 TAP 284.10 RCA 91.45 APO 151.02 V2 35.258
RC 41.437 GL 18.15 GP -14.38 ZAL 57.02 ZAP 15.55 ETS 65.00 ZAE 153.92 ETE 288.68 ZAC 53.25 ETC 147.40 CLP -6.00

PLANETOCENTRIC CONIC

C3 24.333 VHL 4.933 DLA 3.16 RAL 318.96 RAD 6568.0 VEL 12.071 PTH 2.16 VHP 8.467 OPA -34.09 RAP 318.18 ECC 1.4005

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 55 49	2359.94	-22.81	50.91	184.38	107.25	7 35 9	1759.9	-20.23	43.18
90.00	19 40 48	4807.75	18.30	207.24	182.71	68.01	21 0 56	4207.7	15.16	199.97
100.00	8 18 38	2092.80	-23.93	30.87	183.99	108.46	8 53 31	1492.8	-21.19	23.14
100.00	21 0 40	4550.12	19.39	187.82	182.23	66.80	22 16 30	3950.1	16.09	180.58
110.00	9 30 16	1868.60	-26.95	12.62	182.76	111.87	10 1 24	1268.6	-23.74	4.93
110.00	22 5 32	4347.08	22.31	170.96	180.79	63.40	23 17 59	3747.1	18.56	163.83

DIFFERENTIAL CORRECTIONS

TDE -.6204 TRA-1.5791 TC3 .1117 BAU .1090
RDE -.1012 RRA .3529 RC3 -.3160 FAU .02834
FDE 1.0543 FRA 1.5674 FC3-1.0084 BSP 6468
BDE .6286 BRA 1.6181 BC3 .3352 FSP -581

MID-COURSE EXECUTION ACCURACY

SGT 1976.3 SGR 528.7 SG3 208.3
RRT -.6735 RRF .7174 RTF -.9111
SGB 2045.8 R23 -.1078 R13 .9155
SG1 2009.4 SG2 384.4 THA 169.39

ORBIT DETERMINATION ACCURACY

ST 907.2 SR 170.5 SS 981.4
CRT .1089 CRS .3338 CST .9729
LSA 1328.0 MSA 226.6 SSA 15.8
EL1 907.4 EL2 169.5 ALF 1.21

LAUNCH DATE OCT 11 1965 FLIGHT TIME 116.00 ARRIVAL DATE FEB 4 1966

DISTANCE 291.769

HELIOCENTRIC CONIC

RL 149.33 LAL .00 LOL 17.47 VL 26.261 GAL 4.53 AZL 86.39 HCA 122.47 SMA 122.00 ECC .23685 INC 3.6061 V1 29.839
RP 107.49 LAP 3.04 LOP 140.00 VP 37.170 GAP -11.90 AZP 91.94 TAL 165.06 TAP 287.53 RCA 93.10 APO 150.90 V2 35.256
RC 42.162 GL 20.06 GP -15.70 ZAL 57.65 ZAP 17.47 ETS 61.29 ZAE 151.71 ETE 292.67 ZAC 55.16 ETC 147.55 CLP -7.75

PLANETOCENTRIC CONIC

C3 23.054 VHL 4.801 DLA 4.91 RAL 318.15 RAD 6567.9 VEL 12.018 PTH 2.15 VHP 8.077 OPA -34.95 RAP 320.31 ECC 1.3794

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 39 30	2401.24	-23.62	53.66	183.22	106.09	7 19 31	1801.2	-21.18	45.84
90.00	19 50 41	4740.03	16.53	203.06	180.73	66.67	21 9 41	4140.0	13.23	195.94
100.00	8 3 9	2131.42	-24.74	33.45	182.85	107.33	8 38 40	1531.4	-22.14	25.62
100.00	21 9 43	4485.08	17.60	183.82	180.23	65.44	22 24 28	3885.1	14.14	176.74
110.00	9 16 41	1901.27	-27.76	14.81	181.69	110.80	9 48 22	1301.3	-24.68	7.00
110.00	22 12 40	4288.00	20.46	167.37	178.74	62.00	23 24 8	3688.0	16.56	160.42

DIFFERENTIAL CORRECTIONS

TDE -.6399 TRA-1.5659 TC3 .1574 BAU .1199
RDE -.0551 RRA .3671 RC3 -.3559 FAU .02997
FDE 1.1607 FRA 1.6441 FC3-1.1256 BSP 6676
BDE .6422 BRA 1.6083 BC3 .3892 FSP -641

MID-COURSE EXECUTION ACCURACY

SGT 2030.6 SGR 560.8 SG3 228.0
RRT -.7254 RRF .7731 RTF -.9170
SGB 2106.6 R23 -.1219 R13 .9223
SG1 2072.3 SG2 378.2 THA 168.28

ORBIT DETERMINATION ACCURACY

ST 948.5 SR 147.8 SS 1051.0
CRT -.1713 CRS .0579 CST .9731
LSA 1406.3 MSA 219.6 SSA 15.4
EL1 948.8 EL2 145.5 ALF 178.43

LAUNCH DATE OCT 11 1965 FLIGHT TIME 118.00 ARRIVAL DATE FEB 6 1966

HELIOCENTRIC CONIC DISTANCE 298.541

RL 149.33 LAL .00 LOL 17.47 VL 26.382 GAL 4.27 AZL 86.15 HCA 125.71 SMA 122.72 ECC .22867 INC 3.8464 V1 29.839
RP 107.49 LAP 3.12 LOP 143.25 VP 37.254 GAP -11.16 AZP 92.25 TAL 165.29 TAP 291.00 RCA 94.66 APO 150.78 V2 35.254
RC 43.042 GL 22.10 GP -17.22 ZAL 58.40 ZAP 19.63 ETS 58.40 ZAE 149.36 ETE 295.70 ZAC 57.12 ETC 147.60 CLP -9.57

PLANETOCENTRIC CONIC

C3 22.007 VHL 4.691 DLA 6.76 RAL 317.25 RAD 6567.9 VEL 11.974 PTH 2.13 VHP 7.710 DPA -35.99 RAP 322.48 ECC 1.3622

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 21 46	2448.52	-24.47	56.86	182.17	104.71	7 2 35	1848.5	-22.21	48.92
90.00	20 1 15	4670.18	14.60	198.84	178.87	65.46	21 19 5	4070.2	11.16	191.85
100.00	7 46 20	2175.75	-25.61	36.46	181.83	105.97	8 22 36	1575.8	-23.17	28.51
100.00	21 19 22	4418.18	15.66	179.80	178.35	64.21	22 33 0	3818.2	12.07	172.85
110.00	9 1 58	1939.09	-28.65	17.40	180.74	109.50	9 34 17	1339.1	-25.72	9.44
110.00	22 20 14	4227.61	18.49	163.79	176.81	60.72	23 30 42	3627.6	14.45	157.01

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.6630 TRA-1.5512 TC3 .2035 BAU .1318 SGT 2081.4 SGR 604.5 SG3 249.3 ST 991.7 SR 142.8 SS 1127.0
RDE -.0039 RRA .3857 RC3 -.3992 FAU .03168 RRT -.7732 RRF .8239 RTF -.9225 CRT -.5481 CRS -.3453 CST .9737
FDE 1.2831 FRA 1.7248 FC3-1.2463 BSP 6888 SGB 2167.4 R23 -.1369 R13 .9288 LSA 1492.7 MSA 213.2 SSA 14.9
BDE .6630 BRA 1.5985 BC3 .4481 FSP -706 SG1 2134.9 SG2 373.7 THA 166.94 EL1 994.8 EL2 119.1 ALF 175.42

LAUNCH DATE OCT 11 1965 FLIGHT TIME 120.00 ARRIVAL DATE FEB 8 1966

HELIOCENTRIC CONIC DISTANCE 305.302

RL 149.33 LAL .00 LOL 17.47 VL 26.494 GAL 4.02 AZL 85.89 HCA 128.95 SMA 123.39 ECC .22111 INC 4.1070 V1 29.839
RP 107.50 LAP 3.19 LOP 146.50 VP 37.329 GAP -10.44 AZP 92.58 TAL 165.54 TAP 294.49 RCA 96.11 APO 150.67 V2 35.250
RC 44.068 GL 24.28 GP -18.96 ZAL 59.26 ZAP 22.04 ETS 56.18 ZAE 146.92 ETE 297.90 ZAC 59.12 ETC 147.56 CLP -11.44

PLANETOCENTRIC CONIC

C3 21.189 VHL 4.603 DLA 8.74 RAL 316.27 RAD 6567.9 VEL 11.940 PTH 2.12 VHP 7.368 DPA -37.24 RAP 324.70 ECC 1.3487

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 2 27	2502.55	-25.35	60.58	181.27	103.05	6 44 10	1902.6	-23.31	52.50
90.00	20 12 42	4597.88	12.51	194.56	177.16	64.39	21 29 20	3997.9	8.96	187.68
100.00	7 28 3	2226.49	-26.51	39.96	180.96	104.34	8 5 9	1626.5	-24.28	31.87
100.00	21 29 48	4349.17	13.58	175.73	176.62	63.11	22 42 17	3749.2	9.86	168.91
110.00	8 45 59	1982.62	-29.60	20.43	179.95	107.94	9 19 1	1382.6	-26.86	12.31
110.00	22 28 21	4165.81	16.40	160.23	175.02	59.58	23 37 47	3565.8	12.23	153.59

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.6882 TRA-1.5332 TC3 .2530 BAU .1453 SGT 2125.0 SGR 662.5 SG3 271.9 ST 1034.1 SR 169.1 SS 1208.2
RDE .0540 RRA .4094 RC3 -.4460 FAU .03350 RRT -.8159 RRF .8681 RTF -.9278 CRT -.8421 CRS -.7013 CST .9744
FDE 1.4224 FRA 1.8071 FC3-1.3686 BSP 7151 SGB 2225.9 R23 -.1509 R13 .9354 LSA 1585.7 MSA 207.8 SSA 14.2
BDE .6903 BRA 1.5869 BC3 .5128 FSP -778 SG1 2194.8 SG2 370.9 THA 165.30 EL1 1043.9 EL2 90.3 ALF 172.10

LAUNCH DATE OCT 11 1965 FLIGHT TIME 122.00 ARRIVAL DATE FEB 10 1966

HELIOCENTRIC CONIC DISTANCE 312.050

RL 149.33 LAL .00 LOL 17.47 VL 26.595 GAL 3.79 AZL 85.61 HCA 132.19 SMA 124.01 ECC .21415 INC 4.3925 V1 29.839
RP 107.51 LAP 3.25 LOP 149.75 VP 37.398 GAP -9.75 AZP 92.95 TAL 165.81 TAP 298.01 RCA 97.46 APO 150.57 V2 35.247
RC 45.230 GL 26.60 GP -20.96 ZAL 60.23 ZAP 24.70 ETS 54.50 ZAE 144.38 ETE 299.37 ZAC 61.19 ETC 147.42 CLP -13.39

PLANETOCENTRIC CONIC

C3 20.603 VHL 4.539 DLA 10.83 RAL 315.20 RAD 6567.8 VEL 11.916 PTH 2.12 VHP 7.054 DPA -38.73 RAP 326.99 ECC 1.3391

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 41 19	2564.32	-26.23	64.89	180.54	101.06	6 24 4	1964.3	-24.44	56.67
90.00	20 25 18	4522.67	10.26	190.18	175.62	63.46	21 40 40	3922.7	6.61	183.40
100.00	7 8 5	2284.51	-27.42	44.03	180.26	102.39	7 46 9	1684.5	-25.44	35.79
100.00	21 41 13	4277.71	11.34	171.61	175.05	62.16	22 52 31	3677.7	7.52	164.90
110.00	8 28 36	2032.52	-30.59	23.98	179.35	106.06	9 2 29	1432.5	-28.09	15.68
110.00	22 37 11	4102.46	14.18	156.65	173.40	58.57	23 45 34	3502.5	9.91	150.15

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.7209 TRA-1.5169 TC3 .2941 BAU .1586 SGT 2167.9 SGR 738.1 SG3 295.8 ST 1081.8 SR 229.0 SS 1297.4
RDE .1216 RRA .4396 RC3 -.4951 FAU .03524 RRT -.8506 RRF .9043 RTF -.9324 CRT -.9641 CRS -.8840 CST .9756
FDE 1.5840 FRA 1.8926 FC3-1.4806 BSP 7348 SGB 2290.1 R23 -.1655 R13 .9417 LSA 1692.5 MSA 203.2 SSA 13.5
BDE .7311 BRA 1.5793 BC3 .5758 FSP -852 SG1 2259.6 SG2 372.3 THA 163.38 EL1 1104.1 EL2 59.6 ALF 168.43

LAUNCH DATE OCT 11 1965 FLIGHT TIME 124.00 ARRIVAL DATE FEB 12 1966

HELIOCENTRIC CONIC DISTANCE 318.783

RL 149.33 LAL .00 LOL 17.47 VL 26.689 GAL 3.58 AZL 85.29 HCA 135.43 SMA 124.59 ECC .20775 INC 4.7088 V1 29.839
RP 107.53 LAP 3.30 LOP 153.00 VP 37.460 GAP -9.07 AZP 93.36 TAL 166.11 TAP 301.54 RCA 98.71 APO 150.47 V2 35.242
RC 46.516 GL 29.06 GP -23.25 ZAL 61.31 ZAP 27.66 ETS 53.26 ZAE 141.74 ETE 300.21 ZAC 63.35 ETC 147.18 CLP -15.41

PLANETOCENTRIC CONIC

C3 20.260 VHL 4.501 DLA 13.05 RAL 314.04 RAD 6567.8 VEL 11.901 PTH 2.11 VHP 6.770 DPA -40.50 RAP 329.40 ECC 1.3334

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 18 1	2635.08	-27.06	69.90	180.01	98.68	6 1 56	2035.1	-25.58	61.54
90.00	20 39 21	4443.88	7.83	185.67	174.30	62.70	21 53 25	3843.9	4.11	178.97
100.00	6 46 9	2350.89	-28.30	48.77	179.78	100.04	7 25 19	1750.9	-26.63	40.36
100.00	21 53 55	4203.31	8.94	167.39	173.71	61.36	23 3 58	3603.3	5.05	160.76
110.00	8 9 39	2089.60	-31.59	28.12	178.98	103.79	8 44 28	1489.6	-29.37	19.62
110.00	22 46 54	4037.36	11.84	153.06	171.97	57.70	23 54 12	3437.4	7.49	146.67

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.7590 TRA-1.4990 TC3 .3298 BAU .1727 SGT 2204.1 SGR 834.3 SG3 320.3 ST 1130.9 SR 318.0 SS 1392.2
RDE .2017 RRA .4772 RC3 -.5458 FAU .03689 RRT -.8783 RRF .9327 RTF -.9366 CRT -.9958 CRS -.9556 CST .9770
FDE 1.7677 FRA 1.9763 FC3-1.5762 BSP 7560 SGB 2356.8 R23 -.1779 R13 .9479 LSA 1810.6 MSA 199.5 SSA 12.6
BDE .7854 BRA 1.5731 BC3 .6377 FSP -928 SG1 2326.3 SG2 378.0 THA 161.09 EL1 1174.4 EL2 28.0 ALF 164.35

LAUNCH DATE OCT 11 1965 FLIGHT TIME 126.00 ARRIVAL DATE FEB 14 1966

HELIOCENTRIC CONIC DISTANCE 325.499

RL 149.33 LAL .00 LOL 17.47 VL 26.774 GAL 3.38 AZL 84.94 HCA 138.67 SMA 125.12 ECC .20190 INC 5.0635 V1 29.839
RP 107.55 LAP 3.34 LOP 156.25 VP 37.515 GAP -8.42 AZP 93.81 TAL 166.41 TAP 305.08 RCA 99.86 APO 150.39 V2 35.236
RC 47.916 GL 31.67 GP -25.90 ZAL 62.51 ZAP 30.92 ETS 52.37 ZAE 138.96 ETE 300.48 ZAC 65.61 ETC 146.86 CLP -17.51

PLANETOCENTRIC CONIC

C3 20.181 VHL 4.492 DLA 15.40 RAL 312.79 RAD 6567.8 VEL 11.898 PTH 2.11 VHP 6.523 DPA -42.59 RAP 331.98 ECC 1.3321

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 52 4	2716.62	-27.76	75.76	179.71	95.82	5 37 20	2116.6	-26.66	67.27
90.00	20 55 23	4360.47	5.20	180.95	173.25	62.12	22 8 3	3760.5	1.43	174.30
100.00	6 21 50	2427.12	-29.08	54.30	179.53	97.23	7 2 17	1827.1	-27.78	45.74
100.00	22 8 17	4125.21	6.36	163.02	172.61	60.73	23 17 3	3525.2	2.42	156.46
110.00	7 48 50	2154.87	-32.55	32.97	178.88	101.07	8 24 45	1554.9	-30.68	24.25
110.00	22 57 46	3970.22	9.37	149.43	170.78	56.97	24 3 56	3370.2	4.96	143.12

DIFFERENTIAL CORRECTIONS
TDE -.8030 TRA-1.4807 TC3 .3564 BAU .1875
RDE .2987 RRA .5235 RC3 -.5964 FAU .03830
FDE 1.9735 FRA 2.0550 FC3-1.6432 BSP .7778
BDE .8567 BRA 1.5705 BC3 .6948 FSP -1004

MID-COURSE EXECUTION ACCURACY
SGT 2233.5 SGR 955.0 SG3 344.6
RRT -.8994 RRF .9539 RTF -.9403
SGB 2429.1 R23 -.1865 R13 .9542
SG1 2397.8 SG2 388.8 THA 158.37

ORBIT DETERMINATION ACCURACY
ST 1180.8 SR 434.2 SS 1491.2
CRT -.9993 CRS -.9826 CST .9785
LSA 1941.1 MSA 197.0 SSA 11.5
EL1 1258.0 EL2 14.7 ALF 159.82

LAUNCH DATE OCT 11 1965 FLIGHT TIME 128.00 ARRIVAL DATE FEB 16 1966

HELIOCENTRIC CONIC DISTANCE 332.197

RL 149.33 LAL .00 LOL 17.47 VL 26.851 GAL 3.20 AZL 84.53 HCA 141.90 SMA 125.61 ECC .19656 INC 5.4668 V1 29.839
RP 107.56 LAP 3.37 LOP 159.50 VP 37.565 GAP -7.79 AZP 94.31 TAL 166.72 TAP 308.62 RCA 100.92 APO 150.31 V2 35.230
RC 49.420 GL 34.43 GP -28.96 ZAL 63.82 ZAP 34.53 ETS 51.75 ZAE 136.00 ETE 300.27 ZAC 68.01 ETC 146.45 CLP -19.69

PLANETOCENTRIC CONIC

C3 20.402 VHL 4.517 DLA 17.88 RAL 311.46 RAD 6567.8 VEL 11.907 PTH 2.12 VHP 6.317 DPA -45.05 RAP 334.81 ECC 1.3358

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 22 39	2811.61	-28.22	82.67	179.64	92.39	5 9 31	2211.6	-27.59	74.06
90.00	21 14 7	4270.67	2.32	175.92	172.54	61.77	22 25 17	3670.7	-1.47	169.30
100.00	5 54 31	2515.35	-29.66	60.79	179.55	93.86	6 36 27	1915.4	-28.81	52.09
100.00	22 24 55	4042.17	3.58	158.43	171.84	60.30	23 32 18	3442.2	-.40	151.90
110.00	7 25 49	2229.70	-33.39	38.65	179.10	97.81	8 2 59	1629.7	-31.95	29.72
110.00	23 10 7	3900.58	6.77	145.72	169.87	56.41	24 15 7	3300.6	2.30	139.47

DIFFERENTIAL CORRECTIONS
TDE -.8520 TRA-1.4591 TC3 .3772 BAU .2039
RDE .4181 RRA .5794 RC3 -.6454 FAU .03944
FDE 2.1980 FRA 2.1191 FC3-1.6734 BSP .8077
BDE .9490 BRA 1.5700 BC3 .7476 FSP -1081

MID-COURSE EXECUTION ACCURACY
SGT 2250.9 SGR 1103.4 SG3 366.9
RRT -.9154 RRF .9691 RTF -.9437
SGB 2506.8 R23 -.1892 R13 .9608
SG1 2474.0 SG2 404.0 THA 155.12

ORBIT DETERMINATION ACCURACY
ST 1228.2 SR 579.0 SS 1590.7
CRT -.9963 CRS -.9931 CST .9800
LSA 2082.2 MSA 195.5 SSA 10.4
EL1 1357.1 EL2 45.0 ALF 154.81

LAUNCH DATE OCT 11 1965 FLIGHT TIME 130.00 ARRIVAL DATE FEB 18 1966

HELIOCENTRIC CONIC DISTANCE 338.875

RL 149.33 LAL .00 LOL 17.47 VL 26.921 GAL 3.03 AZL 84.07 HCA 145.13 SMA 126.06 ECC .19172 INC 5.9326 V1 29.839
RP 107.58 LAP 3.39 LOP 162.75 VP 37.609 GAP -7.18 AZP 94.87 TAL 167.03 TAP 312.16 RCA 101.89 APO 150.23 V2 35.224
RC 51.018 GL 37.34 GP -32.47 ZAL 65.24 ZAP 38.58 ETS 51.31 ZAE 132.78 ETE 299.64 ZAC 70.39 ETC 145.98 CLP -21.95

PLANETOCENTRIC CONIC

C3 20.983 VHL 4.581 DLA 20.49 RAL 310.02 RAD 6567.9 VEL 11.932 PTH 2.12 VHP 6.164 DPA -47.91 RAP 338.03 ECC 1.3453

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	3 48 27	2924.52	-28.27	90.93	179.79	88.25	4 37 12	2324.5	-28.21	82.26
90.00	21 36 51	4171.21	-.89	170.38	172.28	61.70	22 46 23	3571.2	-4.67	163.73
100.00	5 23 13	2618.95	-29.89	68.48	179.82	89.82	6 6 52	2019.0	-29.60	59.69
100.00	22 44 47	3952.01	.53	153.47	171.49	60.11	23 50 39	3352.0	-3.45	146.95
110.00	7 0 3	2316.01	-33.99	45.31	179.67	93.91	7 38 39	1716.0	-33.07	36.20
110.00	23 24 26	3827.72	4.01	141.88	169.32	56.02	24 28 14	3227.7	-.48	135.67

DIFFERENTIAL CORRECTIONS
TDE -.9118 TRA-1.4399 TC3 .3783 BAU .2200
RDE .5683 RRA .6472 RC3 -.6869 FAU .03981
FDE 2.4392 FRA 2.1647 FC3-1.6424 BSP .8338
BDE 1.0744 BRA 1.5787 BC3 .7842 FSP -1142

MID-COURSE EXECUTION ACCURACY
SGT 2262.3 SGR 1283.8 SG3 385.7
RRT -.9264 RRF .9795 RTF -.9465
SGB 2601.1 R23 -.1862 R13 .9673
SG1 2566.0 SG2 426.2 THA 151.41

ORBIT DETERMINATION ACCURACY
ST 1278.1 SR 756.9 SS 1689.3
CRT -.9928 CRS -.9973 CST .9817
LSA 2241.0 MSA 194.7 SSA 9.2
EL1 1483.4 EL2 77.9 ALF 149.45

LAUNCH DATE OCT 11 1965 FLIGHT TIME 132.00 ARRIVAL DATE FEB 20 1966

HELIOCENTRIC CONIC DISTANCE 345.531

RL 149.33 LAL .00 LOL 17.47 VL 26.984 GAL 2.88 AZL 83.52 HCA 148.36 SMA 126.47 ECC .18734 INC 6.4800 V1 29.839
RP 107.61 LAP 3.39 LOP 165.99 VP 37.647 GAP -6.58 AZP 95.52 TAL 167.34 TAP 315.69 RCA 102.78 APO 150.17 V2 35.216
RC 52.701 GL 40.40 GP -36.51 ZAL 66.78 ZAP 42.89 ETS 51.00 ZAE 129.23 ETE 298.68 ZAC 73.39 ETC 145.49 CLP -24.28

PLANETOCENTRIC CONIC

C3 22.019 VHL 4.692 DLA 23.24 RAL 308.48 RAD 6567.9 VEL 11.975 PTH 2.13 VHP 6.075 DPA -51.19 RAP 341.82 ECC 1.3624

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	3 6 44	3064.16	-27.56	101.08	180.07	83.22	3 57 48	2464.2	-28.21	92.47
90.00	22 6 16	4054.81	-4.63	163.87	172.66	62.03	23 13 51	3454.8	-8.34	157.15
100.00	4 46 3	2743.92	-29.50	77.74	180.30	84.96	5 31 47	2143.9	-29.89	68.96
100.00	23 9 38	3850.28	-2.92	147.89	171.71	60.24	24 13 48	3250.3	-6.86	141.32
110.00	6 30 39	2416.69	-34.18	53.17	180.57	89.26	7 10 55	1816.7	-33.90	43.93
110.00	23 41 32	3750.28	1.05	137.84	169.24	55.83	24 44 2	3150.3	-3.44	131.63

DIFFERENTIAL CORRECTIONS
TDE -.9811 TRA-1.4211 TC3 .3650 BAU .2367
RDE .7592 RRA .7275 RC3 -.7164 FAU .03926
FDE 2.6825 FRA 2.1780 FC3-1.5437 BSP .8656
BDE 1.2405 BRA 1.5965 BC3 .8040 FSP -1186

MID-COURSE EXECUTION ACCURACY
SGT 2262.4 SGR 1498.6 SG3 397.8
RRT -.9339 RRF .9866 RTF -.9489
SGB 2713.7 R23 -.1762 R13 .9738
SG1 2675.6 SG2 453.1 THA 147.20

ORBIT DETERMINATION ACCURACY
ST 1325.2 SR 971.5 SS 1778.8
CRT -.9903 CRS -.9990 CST .9834
LSA 2413.7 MSA 194.7 SSA 8.1
EL1 1639.5 EL2 108.9 ALF 143.84

LAUNCH DATE OCT 11 1965 FLIGHT TIME 134.00 ARRIVAL DATE FEB 22 1966

HELIOCENTRIC CONIC DISTANCE 352.165

RL	149.33	LAL	.00	LOL	17.47	VL	27.041	GAL	2.74	AZL	82.86	HCA	151.58	SMA	126.84	ECC	.18340	INC	7.1374	VI	29.839
RP	107.63	LAP	3.39	LOP	169.24	VP	37.680	GAP	-6.01	AZP	96.28	TAL	167.63	TAP	319.21	RCA	103.38	APO	150.11	V2	35.208
RC	54.462	GL	43.62	GP	-41.11	ZAL	68.43	ZAP	47.67	ETS	50.74	ZAE	125.26	ETE	297.49	ZAC	76.45	ETC	145.02	CLP	-26.65

PLANETOCENTRIC CONIC

C3	23.668	VHL	4.865	DLA	26.11	RAL	306.81	RAD	6568.0	VEL	12.044	PTH	2.15	VHP	6.072	DPA	-54.88	RAP	346.53	ECC	1.3895

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	2 9 42	3255.38	-25.29	114.60	180.09	76.81	3 3 58	2655.4	-26.85	106.28
90.00	22 49 58	3898.73	-9.53	155.01	174.11	63.21	23 54 57	3298.7	-13.05	148.10
100.00	3 58 48	2903.68	-27.98	89.37	180.74	79.04	4 47 12	2303.7	-29.21	80.78
100.00	23 43 34	3725.66	-7.09	141.00	172.81	60.89	24 45 40	3125.7	-10.92	134.30
110.00	5 56 8	2536.54	-33.68	62.49	181.74	83.78	6 38 25	1936.5	-34.17	53.28
110.00	0 6 39	3665.57	-2.19	133.42	169.78	55.88	1 7 44	3065.6	-6.65	127.17

DIFFERENTIAL CORRECTIONS								MID-COURSE EXECUTION ACCURACY								ORBIT DETERMINATION ACCURACY					
TDE	-1.0609	TRA	-1.4018	TC3	.3404	BAU	.2543	SGT	2247.4	SGR	1748.3	SG3	399.8	ST	1365.8	SR	1225.6	SS	1849.7
RDE	1.0038	RRA	.8202	RC3	-.7281	FAU	.03758	RRT	-.9390	RRF	.9912	RTF	-.9509	CRT	-.9888	CRS	-.9997	CST	.9849
FDE	2.9065	FRA	2.1437	FC3	-1.3747	BSP	9101	SGB	2847.4	R23	-.1595	R13	.9801	LSA	2598.2	MSA	195.1	SSA	6.9
BDE	1.4605	BRA	1.6241	BC3	.8037	FSP	-1206	SG1	2806.3	SG2	481.6	THA	142.56	EL1	1830.0	EL2	136.3	ALF	138.13

LAUNCH DATE OCT 11 1965 FLIGHT TIME 136.00 ARRIVAL DATE FEB 24 1966

HELIOCENTRIC CONIC DISTANCE 358.773

RL	149.33	LAL	.00	LOL	17.47	VL	27.092	GAL	2.62	AZL	82.05	HCA	154.80	SMA	127.18	ECC	.17988	INC	7.9470	VI	29.839
RP	107.66	LAP	3.38	LOP	172.48	VP	37.709	GAP	-5.45	AZP	97.20	TAL	167.90	TAP	322.70	RCA	104.30	APO	150.06	V2	35.200
RC	56.291	GL	46.98	GP	-46.29	ZAL	70.19	ZAP	52.82	ETS	50.48	ZAE	120.81	ETE	296.20	ZAC	79.82	ETC	144.67	CLP	-29.01

PLANETOCENTRIC CONIC

C3	26.196	VHL	5.118	DLA	29.11	RAL	304.99	RAD	6568.1	VEL	12.148	PTH	2.18	VHP	6.184	DPA	-58.89	RAP	352.68	ECC	1.4311

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
82.97	23 22 34	3789.72	-18.47	151.32	178.14	67.10	24 25 44	3189.7	-21.42	143.82
97.03	1 22 36	3414.34	-18.46	123.78	178.13	67.09	2 19 30	2814.3	-21.40	116.29
100.00	2 43 25	3155.05	-23.52	106.68	180.21	71.00	3 36 0	2555.1	-25.89	98.69
100.00	0 48 22	3524.24	-13.56	129.54	175.76	53.10	1 47 6	2924.2	-17.06	122.50
110.00	5 13 31	2684.96	-32.01	73.74	182.93	77.32	5 58 16	2085.0	-33.43	64.79
110.00	0 34 45	3567.10	-5.93	128.25	171.25	56.27	1 34 12	2967.1	-10.32	121.91

DIFFERENTIAL CORRECTIONS								MID-COURSE EXECUTION ACCURACY								ORBIT DETERMINATION ACCURACY					
TDE	-1.1606	TRA	-1.3881	TC3	.2957	BAU	.2693	SGT	2223.3	SGR	2031.3	SG3	388.5	ST	1404.6	SR	1522.6	SS	1895.1
RDE	1.3223	RRA	.9257	RC3	-.7098	FAU	.03419	RRT	-.9417	RRF	.9941	RTF	-.9525	CRT	-.9882	CRS	-.9999	CST	.9864
FDE	3.0891	FRA	2.0533	FC3	-1.1299	BSP	9558	SGB	3011.5	R23	-.1377	R13	.9858	LSA	2800.8	MSA	195.7	SSA	5.8
BDE	1.7594	BRA	1.6685	BC3	.7690	FSP	-1181	SG1	2967.6	SG2	512.0	THA	137.74	EL1	2065.4	EL2	158.8	ALF	132.66

LAUNCH DATE OCT 11 1965 FLIGHT TIME 138.00 ARRIVAL DATE FEB 26 1966

HELIOCENTRIC CONIC DISTANCE 365.353

RL	149.33	LAL	.00	LOL	17.47	VL	27.137	GAL	2.51	AZL	81.02	HCA	158.01	SMA	127.48	ECC	.17676	INC	8.9753	VI	29.839
RP	107.69	LAP	3.35	LOP	175.72	VP	37.733	GAP	-4.91	AZP	98.33	TAL	168.15	TAP	326.16	RCA	104.95	APO	150.01	V2	35.191
RC	58.184	GL	50.47	GP	-52.05	ZAL	72.09	ZAP	58.28	ETS	50.22	ZAE	115.83	ETE	295.00	ZAC	83.54	ETC	144.59	CLP	-31.23

PLANETOCENTRIC CONIC

C3	30.070	VHL	5.484	DLA	32.20	RAL	302.98	RAD	6568.2	VEL	12.306	PTH	2.22	VHP	6.455	DPA	-62.98	RAP	1.14	ECC	1.4949

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
73.99	22 8 20	4034.36	-19.29	170.02	179.24	63.70	23 15 34	3434.4	-22.66	162.66
106.01	2 20 48	3238.47	-19.27	111.03	179.24	63.69	3 14 47	2638.5	-22.65	103.68
73.99	22 8 20	4034.36	-19.29	170.02	179.24	63.70	23 15 34	3434.4	-22.66	162.66
106.01	2 20 48	3238.47	-19.27	111.03	179.24	63.69	3 14 47	2638.5	-22.65	103.68
110.00	4 13 50	2889.10	-28.03	88.28	183.36	69.58	5 1 59	2289.1	-30.54	79.99
110.00	1 18 25	3431.73	-10.98	121.02	174.39	57.42	2 15 36	2831.7	-15.20	114.46

DIFFERENTIAL CORRECTIONS								MID-COURSE EXECUTION ACCURACY								ORBIT DETERMINATION ACCURACY					
TDE	-1.2844	TRA	-1.3820	TC3	.2421	BAU	.2810	SGT	2187.1	SGR	2337.7	SG3	360.9	ST	1436.3	SR	1856.3	SS	1900.6
RDE	1.7377	RRA	1.0406	RC3	-.6557	FAU	.02918	RRT	-.9428	RRF	.9959	RTF	-.9539	CRT	-.9880	CRS	-1.0000	CST	.9877
FDE	3.1915	FRA	1.8965	FC3	-.8400	BSP	10149	SGB	3201.3	R23	-.1125	R13	.9906	LSA	3013.7	MSA	196.8	SSA	4.7
BDE	2.1609	BRA	1.7300	BC3	.6990	FSP	-1113	SG1	3155.4	SG2	540.3	THA	132.98	EL1	2340.5	EL2	176.3	ALF	127.65

LAUNCH DATE OCT 11 1965 FLIGHT TIME 140.00 ARRIVAL DATE FEB 28 1966

HELIOCENTRIC CONIC DISTANCE 371.903

RL	149.33	LAL	.00	LOL	17.47	VL	27.177	GAL	2.42	AZL	79.67	HCA	161.21	SMA	127.75	ECC	.17402	INC	10.3340	VI	29.839
RP	107.72	LAP	3.31	LOP	178.96	VP	37.753	GAP	-4.38	AZP	99.79	TAL	168.36	TAP	329.57	RCA	105.52	APO	149.98	V2	35.181
RC	60.133	GL	54.07	GP	-58.34	ZAL	74.12	ZAP	63.91	ETS	50.10	ZAE	110.29	ETE	294.20	ZAC	87.62	ETC	145.10	CLP	-33.06

PLANETOCENTRIC CONIC

C3	36.181	VHL	6.015	DLA	35.35	RAL	300.73	RAD	6568.4	VEL	12.552	PTH	2.27	VHP	6.960	DPA	-66.72	RAP	13.26	ECC	1.5954

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
67.89	21 21 49	4196.00	-19.45	182.66	180.90	59.88	22 31 45	3596.0	-23.30	175.54
112.11	2 49 22	3170.06	-19.43	105.81	180.89	59.87	3 42 12	2570.1	-23.29	98.70
67.89	21 21 49	4196.00	-19.45	182.66	180.90	59.88	22 31 45	3596.0	-23.30	175.54
112.11	2 49 22	3170.06	-19.43	105.81	180.89	59.87	3 42 12	2570.1	-23.29	98.70
67.89	21 21 49	4196.00	-19.45	182.66	180.90	59.88	22 31 45	3596.0	-23.30	175.54
112.11	2 49 22	3170.06	-19.43	105.81	180.89	59.87	3 42 12	2570.1	-23.29	98.70

DIFFERENTIAL CORRECTIONS								MID-COURSE EXECUTION ACCURACY								ORBIT DETERMINATION ACCURACY					
TDE	-1.4572	TRA	-1.3954	TC3	.1805	BAU	.2834	SGT	2151.7	SGR	2651.7	SG3	317.3	ST	1471.6	SR	2216.5	SS	1860.4
RDE	2.2874	RRA	1.1597	RC3	-.5574	FAU	.02252	RRT	-.9424	RRF	.9968	RTF	-.9555	CRT	-.9881	CRS	-1.0000	CST	.9891
FDE	3.1886	FRA	1.6780	FC3	-.5389	BSP	10804	SGB	3414.8	R23	-.0854	R13	.9943	LSA	3240.4	MSA	198.6	SSA	3.8
BDE	2.7121	BRA	1.8144	BC3	.5859	FSP	-993	SG1	3367.5	SG2	566.5	THA	128.71	EL1	2653.8	EL2	189.0	ALF	123.46

LAUNCH DATE OCT 11 1965 FLIGHT TIME 142.00 ARRIVAL DATE MAR 2 1966

HELIOCENTRIC CONIC DISTANCE 378.414

RL 149.33 LAL .00 LOL 17.47 VL 27.212 GAL 2.35 AZL 77.78 HCA 164.39 SMA 127.98 ECC .17163 INC12.2241 V1 29.839
RP 107.75 LAP 3.27 LOP 182.20 VP 37.769 GAP -3.88 AZP 101.79 TAL 168.53 TAP 332.92 RCA 106.02 APO 149.95 V2 35.171
RC 62.133 GL 57.71 GP -65.09 ZAL 76.31 ZAP 69.52 ETS 50.68 ZAE 104.18 ETE 294.50 ZAC 92.12 ETC 146.90 CLP -33.84

PLANETOCENTRIC CONIC

C3 46.380 VHL 6.810 DLA 38.47 RAL 298.17 RAD 6568.7 VEL 12.952 PTH 2.36 VHP 7.829 DPA -69.27 RAP 30.28 ECC 1.7633

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
62.80	20 44 48	4337.59	-18.61	193.56	183.11	55.71	21 57 6	3737.6	-22.97	186.80
117.20	3 5 56	3153.72	-18.59	103.93	183.10	55.70	3 58 30	2553.7	-22.96	97.18
62.80	20 44 48	4337.59	-18.61	193.56	183.11	55.71	21 57 6	3737.6	-22.97	186.80
117.20	3 5 56	3153.72	-18.59	103.93	183.10	55.70	3 58 30	2553.7	-22.96	97.18
62.80	20 44 48	4337.59	-18.61	193.56	183.11	55.71	21 57 6	3737.6	-22.97	186.80
117.20	3 5 56	3153.72	-18.59	103.93	183.10	55.70	3 58 30	2553.7	-22.96	97.18

DIFFERENTIAL CORRECTIONS
TDE-1.7391 TRA-1.4536 TC3 .1181 BAU .2671
RDE 3.0197 RRA 1.2675 RC3 -.4143 FAU .01470
FDE 3.0666 FRA 1.4149 FC3 -.2744 BSP 11556
BDE 3.4847 BRA 1.9286 BC3 .4308 FSP -834

MID-COURSE EXECUTION ACCURACY
SGT 2146.2 SGR 2937.2 SG3 260.7
RRT -.9415 RRF .9968 RTF -.9587
SGB 3637.8 R23 -.0574 R13 .9970
SG1 3589.3 SG2 591.9 THA 125.64

ORBIT DETERMINATION ACCURACY
ST 1536.4 SR 2573.2 SS 1772.3
CRT -.9887 CRS -.9999 CST .9909
LSA 3475.9 MSA 201.5 SSA 2.9
EL1 2990.4 EL2 198.2 ALF 120.70

LAUNCH DATE OCT 11 1965 FLIGHT TIME 144.00 ARRIVAL DATE MAR 4 1966

HELIOCENTRIC CONIC DISTANCE 384.875

RL 149.33 LAL .00 LOL 17.47 VL 27.243 GAL 2.30 AZL 74.95 HCA 167.55 SMA 128.19 ECC .16959 INC15.0472 V1 29.839
RP 107.78 LAP 3.21 LOP 185.44 VP 37.781 GAP -3.39 AZP 104.71 TAL 168.63 TAP 336.18 RCA 106.45 APO 149.93 V2 35.160
RC 64.180 GL 61.19 GP -72.17 ZAL 78.65 ZAP 74.89 ETS 54.12 ZAE 97.45 ETE 298.14 ZAC 97.15 ETC 152.28 CLP -31.65

PLANETOCENTRIC CONIC

C3 65.043 VHL 8.065 DLA 41.34 RAL 295.21 RAD 6569.2 VEL 13.653 PTH 2.50 VHP 9.317 DPA -69.49 RAP 51.23 ECC 2.0704

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
58.52	20 13 19	4476.52	-16.33	203.53	185.77	51.48	21 27 56	3876.5	-21.20	197.24
121.48	3 13 50	3181.33	-16.31	104.50	185.76	51.47	4 6 51	2581.3	-21.18	98.21
58.52	20 13 19	4476.52	-16.33	203.53	185.77	51.48	21 27 56	3876.5	-21.20	197.24
121.48	3 13 50	3181.33	-16.31	104.50	185.76	51.47	4 6 51	2581.3	-21.18	98.21
58.52	20 13 19	4476.52	-16.33	203.53	185.77	51.48	21 27 56	3876.5	-21.20	197.24
121.48	3 13 50	3181.33	-16.31	104.50	185.76	51.47	4 6 51	2581.3	-21.18	98.21

DIFFERENTIAL CORRECTIONS
TDE-2.3707 TRA-1.6302 TC3 .0631 BAU .2134
RDE 3.9596 RRA 1.3023 RC3 -.2372 FAU .00645
FDE 2.8462 FRA 1.1388 FC3 -.0859 BSP 12476
BDE 4.6151 BRA 2.0865 BC3 .2454 FSP -659

MID-COURSE EXECUTION ACCURACY
SGT 2286.2 SGR 3094.9 SG3 198.3
RRT -.9438 RRF .9951 RTF -.9684
SGB 3847.7 R23 -.0284 R13 .9986
SG1 3798.1 SG2 615.7 THA 125.98

ORBIT DETERMINATION ACCURACY
ST 1746.7 SR 2837.3 SS 1648.3
CRT -.9906 CRS -.9996 CST .9940
LSA 3711.6 MSA 204.8 SSA 2.3
EL1 3325.5 EL2 204.3 ALF 121.51

LAUNCH DATE OCT 11 1965 FLIGHT TIME 146.00 ARRIVAL DATE MAR 6 1966

HELIOCENTRIC CONIC DISTANCE 391.262

RL 149.33 LAL .00 LOL 17.47 VL 27.269 GAL 2.27 AZL 70.27 HCA 170.66 SMA 128.37 ECC .16790 INC19.7268 V1 29.839
RP 107.81 LAP 3.14 LOP 188.67 VP 37.790 GAP -2.94 AZP 109.49 TAL 168.64 TAP 339.30 RCA 106.81 APO 149.92 V2 35.149
RC 66.268 GL 64.07 GP -79.20 ZAL 81.14 ZAP 79.75 ETS 73.30 ZAE 89.85 ETE 317.96 ZAC 103.04 ETC 174.24 CLP -18.23

PLANETOCENTRIC CONIC

C3 104.588 VHL 10.227 DLA 43.48 RAL 291.82 RAD 6570.0 VEL 15.031 PTH 2.71 VHP 11.999 DPA -66.45 RAP 71.32 ECC 2.7213

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
55.51	19 47 15	4618.23	-12.19	212.37	188.67	47.93	21 4 13	4018.2	-17.47	206.57
124.49	3 12 53	3254.69	-12.18	107.33	188.66	47.93	4 7 8	2654.7	-17.46	101.53
55.51	19 47 15	4618.23	-12.19	212.37	188.67	47.93	21 4 13	4018.2	-17.47	206.57
124.49	3 12 53	3254.69	-12.18	107.33	188.66	47.93	4 7 8	2654.7	-17.46	101.53
55.51	19 47 15	4618.23	-12.19	212.37	188.67	47.93	21 4 13	4018.2	-17.47	206.57
124.49	3 12 53	3254.69	-12.18	107.33	188.66	47.93	4 7 8	2654.7	-17.46	101.53

DIFFERENTIAL CORRECTIONS
TDE-5.1004 TRA-2.2850 TC3 -.0234 BAU .0776
RDE 3.9787 RRA .7658 RC3 -.0503 FAU-.00316
FDE 2.6298 FRA .9251 FC3 .0262 BSP 12122
BDE 6.4687 BRA 2.4099 BC3 .0555 FSP -441

MID-COURSE EXECUTION ACCURACY
SGT 3358.6 SGR 2308.5 SG3 141.5
RRT -.9554 RRF .9786 RTF -.9947
SGB 4075.5 R23 -.0014 R13 .9993
SG1 4035.8 SG2 567.0 THA 145.94

ORBIT DETERMINATION ACCURACY
ST 2906.1 SR 2236.1 SS 1543.5
CRT -.9946 CRS -.9979 CST .9993
LSA 3974.2 MSA 183.8 SSA 1.9
EL1 3662.2 EL2 183.8 ALF 142.46

LAUNCH DATE OCT 11 1965 FLIGHT TIME 148.00 ARRIVAL DATE MAR 8 1966

HELIOCENTRIC CONIC DISTANCE 397.486

RL 149.33 LAL .00 LOL 17.47 VL 27.292 GAL 2.27 AZL 61.14 HCA 173.64 SMA 128.52 ECC .16660 INC28.8614 V1 29.839
RP 107.85 LAP 3.06 LOP 191.90 VP 37.795 GAP -2.53 AZP 118.71 TAL 168.50 TAP 342.14 RCA 107.11 APO 149.93 V2 35.138
RC 68.394 GL 64.93 GP -81.96 ZAL 83.76 ZAP 83.84 ETS 155.27 ZAE 80.36 ETE 40.74 ZAC 110.88 ETC 260.02 CLP 39.96

PLANETOCENTRIC CONIC

C3 211.183 VHL 14.532 DLA 43.52 RAL 288.21 RAD 6571.2 VEL 18.235 PTH 3.02 VHP 17.461 DPA -59.40 RAP 86.69 ECC 4.4755

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
55.46	19 32 38	4745.78	-6.33	218.34	191.51	46.85	20 51 44	4145.8	-11.76	212.81
124.54	2 58 40	3381.23	-6.32	113.20	191.50	46.85	3 55 1	2781.2	-11.75	107.67
55.46	19 32 38	4745.78	-6.33	218.34	191.51	46.85	20 51 44	4145.8	-11.76	212.81
124.54	2 58 40	3381.23	-6.32	113.20	191.50	46.85	3 55 1	2781.2	-11.75	107.67
55.46	19 32 38	4745.78	-6.33	218.34	191.51	46.85	20 51 44	4145.8	-11.76	212.81
124.54	2 58 40	3381.23	-6.32	113.20	191.50	46.85	3 55 1	2781.2	-11.75	107.67

DIFFERENTIAL CORRECTIONS
TDE-4.9103 TRA -.9858 TC3 -.0976 BAU .4678
RDE-8.3582 RRA-2.8450 RC3 -.1339 FAU-.01385
FDE 2.5516 FRA .8013 FC3 .0568 BSP 12820
BDE 9.6938 BRA 3.0109 BC3 .1657 FSP -310

MID-COURSE EXECUTION ACCURACY
SGT 2028.8 SGR 3661.1 SG3 95.8
RRT .9854 RRF -.9986 RTF -.9906
SGB 4185.6 R23 -.0017 R13 -.9994
SG1 4174.7 SG2 302.5 THA 61.20

ORBIT DETERMINATION ACCURACY
ST 1942.7 SR 3327.9 SS 1530.4
CRT .9984 CRS .9999 CST .9989
LSA 4145.1 MSA 95.8 SSA 1.8
EL1 3852.2 EL2 95.7 ALF 59.75

LAUNCH DATE OCT 11 1965 FLIGHT TIME 150.00 ARRIVAL DATE MAR 10 1966

HELIOCENTRIC CONIC DISTANCE 403.214

RL 149.33 LAL .00 LOL 17.47 VL 27.310 GAL 2.38 AZL 38.20 HCA 176.21 SMA 128.64 ECC .16594 INC51.8012 V1 29.839
RP 107.89 LAP 2.98 LOP 195.13 VP 37.797 GAP -2.25 AZP 141.74 TAL 167.88 TAP 344.09 RCA 107.30 APO 149.99 V2 35.126
RC 70.553 GL 58.65 GP -69.15 ZAL 86.28 ZAP 86.87 ETS 180.20 ZAE 65.03 ETE 65.27 ZAC 8.05 ETC 271.76 CLP 81.16

PLANETOCENTRIC CONIC

C3 630.476 VHL 25.109 DLA 36.54 RAL 285.67 RAD 6572.6 VEL 27.418 PTH 3.40 VHP 31.008 DPA -44.70 RAP 97.46 ECC11.3760

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
65.87	20 10 39	4725.06	-.81	211.98	194.59	53.47	21 29 24	4125.1	-5.56	205.95
114.13	2 0 21	3633.10	-.79	129.85	194.58	53.47	3 0 54	3033.1	-5.54	123.82
65.87	20 10 39	4725.06	-.81	211.98	194.59	53.47	21 29 24	4125.1	-5.56	205.95
114.13	2 0 21	3633.10	-.79	129.85	194.58	53.47	3 0 54	3033.1	-5.54	123.82
65.87	20 10 39	4725.06	-.81	211.98	194.59	53.47	21 29 24	4125.1	-5.56	205.95
114.13	2 0 21	3633.10	-.79	129.85	194.58	53.47	3 0 54	3033.1	-5.54	123.82

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TOE-4.6609 TRA .5378 TC3 -.0930 BAU 2.3157 SGT 1171.6 SGR 3892.2 SG3 69.8 ST 1064.6 SR 3426.5 SS 1880.1
RD-14.9060 RRA-4.8461 RC3 -.2585 FAU-.04202 RRT .8802 RRF -.9996 RTF -.8786 CRT .9866 CRS 1.0000 CST .9861
FOE 3.0515 FRA 1.0199 FC3 .0577 BSP 12741 SGB 4064.7 R23 -.0385 R13 -.9989 LSA 4047.3 MSA 168.6 SSA 1.8
BOE15.6177 BRA 4.8758 BC3 .2747 FSP -230 SG1 4029.0 SG2 537.2 THA 74.89 EL1 3584.3 EL2 166.0 ALF 72.92

LAUNCH DATE OCT 11 1965 FLIGHT TIME 152.00 ARRIVAL DATE MAR 12 1966

HELIOCENTRIC CONIC DISTANCE 413.721

RL 149.33 LAL .00 LOL 17.47 VL 27.325 GAL 1.62 AZL 163.02 HCA 183.01 SMA 128.75 ECC .16226 INC73.0243 V1 29.839
RP 107.92 LAP 2.88 LOP 198.35 VP 37.797 GAP -.75 AZP 17.00 TAL 171.61 TAP 354.62 RCA 107.86 APO 149.64 V2 35.114
RC 72.741 GL -50.03 GP 55.34 ZAL 87.87 ZAP 89.08 ETS 186.71 ZAE 64.66 ETE 298.50 ZAC 132.79 ETC 270.97 CLP 88.38

PLANETOCENTRIC CONIC

C31161.935 VHL 34.087 DLA -70.40 RAL 312.82 RAD 6573.1 VEL 35.822 PTH 3.52 VHP 44.338 DPA 78.82 RAP 126.56 ECC20.1225

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
22.40	7 38 52	2445.27	-.81	78.47	223.09	160.40	8 19 37	1845.3	6.73	76.19
157.60	18 8 45	689.32	-.80	287.92	223.11	160.40	18 20 14	89.3	6.74	285.65
22.40	7 38 52	2445.27	-.81	78.47	223.09	160.40	8 19 37	1845.3	6.73	76.19
157.60	18 8 45	689.32	-.80	287.92	223.11	160.40	18 20 14	89.3	6.74	285.65
22.40	7 38 52	2445.27	-.81	78.47	223.09	160.40	8 19 37	1845.3	6.73	76.19
157.60	18 8 45	689.32	-.80	287.92	223.11	160.40	18 20 14	89.3	6.74	285.65

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TOE 7.4418 TRA-1.5169 TC3 -.1352 BAU 4.3795 SGT 1729.9 SGR 3295.1 SG3 66.3 ST 1271.8 SR 1625.6 SS 1558.3
RDE-8.6393 RRA 4.8493 RC3 .2474 FAU-.07539 RRT -.9155 RRF .9988 RTF -.9316 CRT -.9597 CRS -.9990 CST .9715
FOE-2.2092 FRA 1.1020 FC3 .0562 BSP 11688 SGB 3721.6 R23 -.0420 R13 .9989 LSA 2569.4 MSA 294.3 SSA 1.9
BOE11.4025 BRA 5.0810 BC3 .2819 FSP -215 SG1 3668.7 SG2 625.1 THA 116.50 EL1 2044.3 EL2 284.3 ALF 127.76

LAUNCH DATE OCT 11 1965 FLIGHT TIME 154.00 ARRIVAL DATE MAR 14 1966

HELIOCENTRIC CONIC DISTANCE 418.703

RL 149.33 LAL .00 LOL 17.47 VL 27.337 GAL 1.88 AZL 124.12 HCA 184.95 SMA 128.83 ECC .16239 INC34.1178 V1 29.839
RP 107.96 LAP 2.77 LOP 201.57 VP 37.794 GAP -.67 AZP 55.98 TAL 170.22 TAP 355.17 RCA 107.91 APO 149.75 V2 35.101
RC 74.954 GL -64.38 GP 78.38 ZAL 85.30 ZAP 88.31 ETS 205.06 ZAE 86.24 ETE 312.65 ZAC 155.62 ETC 280.86 CLP 81.59

PLANETOCENTRIC CONIC

C3 288.852 VHL 16.996 DLA -78.12 RAL 2.74 RAD 6571.7 VEL 20.252 PTH 3.15 VHP 22.664 DPA 77.06 RAP 272.77 ECC 5.7538

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
13.52	10 39 52	2358.24	6.17	81.79	271.42	168.05	11 19 10	1758.2	13.99	80.51
166.48	21 46 2	5854.03	6.17	260.20	271.44	168.05	23 23 36	5254.0	14.00	258.92
13.52	10 39 52	2358.24	6.17	81.79	271.42	168.05	11 19 10	1758.2	13.99	80.51
166.48	21 46 2	5854.03	6.17	260.20	271.44	168.05	23 23 36	5254.0	14.00	258.92
13.52	10 39 52	2358.24	6.17	81.79	271.42	168.05	11 19 10	1758.2	13.99	80.51
166.48	21 46 2	5854.03	6.17	260.20	271.44	168.05	23 23 36	5254.0	14.00	258.92

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TOE -.0956 TRA-1.6924 TC3 -.1447 BAU .8828 SGT 2814.6 SGR 3404.6 SG3 85.4 ST 832.1 SR 1343.0 SS 683.1
RDE 2.7683 RRA 1.9655 RC3 .1770 FAU-.01544 RRT -.9647 RRF .9970 RTF -.9817 CRT -.7454 CRS -.9870 CST .8430
FDE .5901 FRA .5833 FC3 .0463 BSP 14320 SGB 4417.4 R23 -.0319 R13 .9993 LSA 1648.0 MSA 496.7 SSA 1.0
BOE 2.7700 BRA 2.5937 BC3 .2286 FSP -285 SG1 4379.6 SG2 576.0 THA 129.39 EL1 1499.7 EL2 496.7 ALF 118.15

LAUNCH DATE OCT 11 1965 FLIGHT TIME 156.00 ARRIVAL DATE MAR 16 1966

HELIOCENTRIC CONIC DISTANCE 424.676

RL 149.33 LAL .00 LOL 17.47 VL 27.346 GAL 1.97 AZL 110.03 HCA 187.79 SMA 128.89 ECC .16217 INC20.0341 V1 29.839
RP 108.00 LAP 2.66 LOP 204.79 VP 37.789 GAP -.35 AZP 70.14 TAL 169.73 TAP 357.52 RCA 107.99 APO 149.79 V2 35.089
RC 77.191 GL -64.83 GP 88.14 ZAL 82.02 ZAP 88.15 ETS 293.15 ZAE 96.81 ETE 38.79 ZAC 166.15 ETC 353.78 CLP 5.57

PLANETOCENTRIC CONIC

C3 107.016 VHL 10.345 DLA -75.09 RAL 10.42 RAD 6570.1 VEL 15.111 PTH 2.72 VHP 14.146 DPA 66.21 RAP 282.23 ECC 2.7612

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
17.00	11 17 25	2187.47	16.92	77.42	275.75	164.39	11 53 53	1587.5	24.61	75.48
163.00	22 9 44	5695.06	16.93	259.26	275.78	164.39	23 44 39	5095.1	24.62	257.32
17.00	11 17 25	2187.47	16.92	77.42	275.75	164.39	11 53 53	1587.5	24.61	75.48
163.00	22 9 44	5695.06	16.93	259.26	275.78	164.39	23 44 39	5095.1	24.62	257.32
17.00	11 17 25	2187.47	16.92	77.42	275.75	164.39	11 53 53	1587.5	24.61	75.48
163.00	22 9 44	5695.06	16.93	259.26	275.78	164.39	23 44 39	5095.1	24.62	257.32

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TOE-2.5169 TRA-1.4921 TC3 -.0161 BAU .0656 SGT 3500.5 SGR 2942.8 SG3 125.2 ST 1694.4 SR 1011.9 SS 779.2
RDE -.9375 RRA-1.3454 RC3 .0429 FAU .00300 RRT .9724 RRF -.9861 RTF -.9969 CRT .9101 CRS .9442 CST .9958
FOE .8830 FRA .6335 FC3 -.0243 BSP 15141 SGB 4573.2 R23 .0254 R13 -.9991 LSA 2089.9 MSA 366.6 SSA 1.6
BOE 2.6858 BRA 2.0091 BC3 .0459 FSP -427 SG1 4542.4 SG2 529.1 THA 39.92 EL1 1939.3 EL2 366.5 ALF 29.69

LAUNCH DATE OCT 11 1965 FLIGHT TIME 158.00 ARRIVAL DATE MAR 18 1966

HELIOCENTRIC CONIC DISTANCE 430.872

RL 149.33 LAL .00 LOL 17.47 VL 27.352 GAL 2.03 AZL 103.62 HCA 190.84 SMA 128.93 ECC .16203 INC13.6246 V1 29.839
RP 108.04 LAP 2.54 LOP 208.01 VP 37.781 GAP .03 AZP 76.61 TAL 169.41 TAP .24 RCA 108.04 APO 149.82 V2 35.076
RC 79.446 GL -60.91 GP 82.60 ZAL 78.54 ZAP 88.83 ETS 338.82 ZAE 103.63 ETE 83.06 ZAC 70.31 ETC 214.66 CLP -80.92

PLANETOCENTRIC CONIC

C3 54.291 VHL 7.368 DLA -71.15 RAL 2.51 RAD 6569.0 VEL 13.253 PTH 2.42 VHP 10.274 DPA 58.92 RAP 285.10 ECC 1.8935

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
21.53	10 55 17	2021.06	26.54	70.59	262.69	158.83	11 28 58	1421.1	33.96	67.54
158.47	21 28 50	5548.72	26.55	257.05	262.70	158.83	23 1 19	4948.7	33.97	254.00
21.53	10 55 17	2021.06	26.54	70.59	262.69	158.83	11 28 58	1421.1	33.96	67.54
158.47	21 28 50	5548.72	26.55	257.05	262.70	158.83	23 1 19	4948.7	33.97	254.00
21.53	10 55 17	2021.06	26.54	70.59	262.69	158.83	11 28 58	1421.1	33.96	67.54
158.47	21 28 50	5548.72	26.55	257.05	262.70	158.83	23 1 19	4948.7	33.97	254.00

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.8021 TRA -.0691 TC3 -.0626 BAU .2939 SGT 652.0 SGR 4654.7 SG3 186.1 ST 625.7 SR 1604.5 SS 707.2
RDE-1.0914 RRA-1.8857 RC3 .4000 FAU .01442 RRT .4052 RRF -.9982 RTF -.4445 CRT .5949 CRS .9927 CST .6873
FDE .6427 FRA .8592 FC3 -.2299 BSP 14686 SGB 4700.1 R23 .0364 R13 -.9985 LSA 1796.2 MSA 489.5 SSA 2.3
BDE 1.3544 BRA 1.8870 BC3 .4049 FSP -600 SG1 4662.3 SG2 595.1 THA 86.70 EL1 1651.4 EL2 488.7 ALF 75.66

LAUNCH DATE OCT 11 1965 FLIGHT TIME 160.00 ARRIVAL DATE MAR 20 1966

HELIOCENTRIC CONIC DISTANCE 437.127

RL 149.33 LAL .00 LOL 17.47 VL 27.355 GAL 2.08 AZL 100.03 HCA 193.96 SMA 128.95 ECC .16203 INC10.0316 V1 29.839
RP 108.08 LAP 2.41 LOP 211.22 VP 37.771 GAP .43 AZP 80.26 TAL 169.12 TAP 3.07 RCA 108.06 APO 149.85 V2 35.063
RC 81.719 GL -55.49 GP 76.78 ZAL 75.05 ZAP 90.34 ETS 352.31 ZAE 108.85 ETE 95.70 ZAC 65.01 ETC 223.81 CLP -91.49

PLANETOCENTRIC CONIC

C3 33.397 VHL 5.779 DLA -66.43 RAL 353.89 RAD 6568.3 VEL 12.441 PTH 2.25 VHP 8.156 DPA 53.00 RAP 286.31 ECC 1.5496

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
27.01	10 32 48	1883.09	33.03	61.53	247.41	151.52	11 4 12	1283.1	39.96	56.98
152.99	20 42 29	5442.54	33.03	253.83	247.42	151.52	22 13 12	4842.5	39.97	249.28
27.01	10 32 48	1883.09	33.03	61.53	247.41	151.52	11 4 12	1283.1	39.96	56.98
152.99	20 42 29	5442.54	33.03	253.83	247.42	151.52	22 13 12	4842.5	39.97	249.28
27.01	10 32 48	1883.09	33.03	61.53	247.41	151.52	11 4 12	1283.1	39.96	56.98
152.99	20 42 29	5442.54	33.03	253.83	247.42	151.52	22 13 12	4842.5	39.97	249.28

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.4933 TRA .3168 TC3 -.2894 BAU .4088 SGT 984.1 SGR 4621.0 SG3 259.3 ST 543.0 SR 1412.5 SS 666.0
RDE -.4271 RRA-1.8109 RC3 .8685 FAU .02561 RRT -.8042 RRF -.9985 RTF .7882 CRT -.1444 CRS .9933 CST -.0296
FDE .3886 FRA 1.1597 FC3 -.6639 BSP 14835 SGB 4724.7 R23 .0463 R13 -.9977 LSA 1561.8 MSA 542.7 SSA 3.0
BDE .6525 BRA 1.8384 BC3 .9155 FSP -843 SG1 4689.4 SG2 576.4 THA 99.87 EL1 1415.1 EL2 536.4 ALF 93.71

LAUNCH DATE OCT 11 1965 FLIGHT TIME 162.00 ARRIVAL DATE MAR 22 1966

HELIOCENTRIC CONIC DISTANCE 443.398

RL 149.33 LAL .00 LOL 17.47 VL 27.356 GAL 2.14 AZL 97.74 HCA 197.11 SMA 128.96 ECC .16221 INC 7.7380 V1 29.839
RP 108.12 LAP 2.27 LOP 214.43 VP 37.760 GAP .82 AZP 82.60 TAL 168.81 TAP 5.91 RCA 108.04 APO 149.88 V2 35.050
RC 84.008 GL -49.54 GP 71.60 ZAL 71.69 ZAP 92.57 ETS .38 ZAE 113.14 ETE 103.52 ZAC 60.27 ETC 227.74 CLP -98.17

PLANETOCENTRIC CONIC

C3 23.401 VHL 4.837 DLA -61.16 RAL 347.11 RAD 6567.9 VEL 12.032 PTH 2.15 VHP 6.857 DPA 47.74 RAP 286.74 ECC 1.3851

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
33.22	10 20 24	1770.78	36.29	50.95	233.25	143.24	10 49 55	1170.8	42.54	44.88
146.78	20 0 51	5377.78	36.30	250.39	233.27	143.24	21 30 29	4777.8	42.54	244.31
33.22	10 20 24	1770.78	36.29	50.95	233.25	143.24	10 49 55	1170.8	42.54	44.88
146.78	20 0 51	5377.78	36.30	250.39	233.27	143.24	21 30 29	4777.8	42.54	244.31
33.22	10 20 24	1770.78	36.29	50.95	233.25	143.24	10 49 55	1170.8	42.54	44.88
146.78	20 0 51	5377.78	36.30	250.39	233.27	143.24	21 30 29	4777.8	42.54	244.31

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.4054 TRA .5483 TC3 -.6505 BAU .4650 SGT 1561.9 SGR 4472.4 SG3 341.7 ST 627.8 SR 1292.8 SS 682.0
RDE -.1254 RRA-1.7424 RC3 1.3366 FAU .03651 RRT -.9310 RRF -.9984 RTF .9230 CRT -.5518 CRS .9919 CST -.4413
FDE .2336 FRA 1.5158 FC3-1.3506 BSP 14764 SGB 4737.3 R23 .0556 R13 -.9970 LSA 1502.2 MSA 523.4 SSA 3.7
BDE .4244 BRA 1.8266 BC3 1.4865 FSP -1106 SG1 4706.2 SG2 541.8 THA 108.26 EL1 1346.4 EL2 502.7 ALF 107.52

LAUNCH DATE OCT 11 1965 FLIGHT TIME 164.00 ARRIVAL DATE MAR 24 1966

HELIOCENTRIC CONIC DISTANCE 449.666

RL 149.33 LAL .00 LOL 17.47 VL 27.355 GAL 2.21 AZL 96.14 HCA 200.28 SMA 128.95 ECC .16257 INC 6.1432 V1 29.839
RP 108.16 LAP 2.13 LOP 217.64 VP 37.747 GAP 1.22 AZP 84.23 TAL 168.46 TAP 8.74 RCA 107.99 APO 149.91 V2 35.036
RC 86.309 GL -43.54 GP 66.81 ZAL 68.54 ZAP 95.41 ETS 6.46 ZAE 116.73 ETE 110.01 ZAC 55.82 ETC 229.89 CLP-103.85

PLANETOCENTRIC CONIC

C3 18.029 VHL 4.246 DLA -55.67 RAL 342.16 RAD 6567.7 VEL 11.807 PTH 2.09 VHP 6.006 DPA 42.87 RAP 286.74 ECC 1.2967

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
39.84	10 17 54	1675.10	36.98	39.93	221.20	135.10	10 45 49	1075.1	42.41	32.70
140.16	19 23 49	5348.79	36.99	247.74	221.22	135.09	20 52 58	4748.8	42.42	240.51
39.84	10 17 54	1675.10	36.98	39.93	221.20	135.10	10 45 49	1075.1	42.41	32.70
140.16	19 23 49	5348.79	36.99	247.74	221.22	135.09	20 52 58	4748.8	42.42	240.51
39.84	10 17 54	1675.10	36.98	39.93	221.20	135.10	10 45 49	1075.1	42.41	32.70
140.16	19 23 49	5348.79	36.99	247.74	221.22	135.09	20 52 58	4748.8	42.42	240.51

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.3501 TRA .7393 TC3-1.1191 BAU .5008 SGT 2063.0 SGR 4260.8 SG3 426.2 ST 711.1 SR 1199.1 SS 718.1
RDE -.0251 RRA-1.6687 RC3 1.7508 FAU .04724 RRT -.9625 RRF -.9981 RTF .9567 CRT -.7283 CRS .9886 CST -.6169
FDE .1829 FRA 1.8952 FC3-2.2685 BSP 14783 SGB 4733.9 R23 .0654 R13 -.9961 LSA 1491.9 MSA 483.2 SSA 4.6
BDE .3510 BRA 1.8251 BC3 2.0779 FSP -1389 SG1 4706.8 SG2 506.4 THA 115.30 EL1 1322.2 EL2 441.9 ALF 116.55

LAUNCH DATE OCT 11 1965 FLIGHT TIME 166.00 ARRIVAL DATE MAR 26 1966

HELIOCENTRIC CONIC DISTANCE 455.923

RL 149.33 LAL .00 LOL 17.47 VL 27.351 GAL 2.30 AZL 94.97 HCA 203.45 SMA 128.93 ECC .16311 INC 4.9653 V1 29.839
RP 108.20 LAP 1.97 LOP 220.85 VP 37.732 GAP 1.61 AZP 85.44 TAL 168.08 TAP 11.53 RCA 107.90 APO 149.96 V2 35.023
RC 88.623 GL -37.75 GP 62.27 ZAL 65.67 ZAP 98.72 ETS 11.40 ZAE 119.72 ETE 116.00 ZAC 51.57 ETC 231.07 CLP-109.02

PLANETOCENTRIC CONIC

C3 14.928 VHL 3.864 DLA -50.23 RAL 338.58 RAD 6567.6 VEL 11.675 PTH 2.05 VHP 5.428 DPA 38.26 RAP 286.51 ECC 1.2457

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
46.61	10 23 49	1587.19	35.88	29.16	211.55	127.86	10 50 16	987.2	40.51	21.27
133.39	18 49 23	5350.46	35.89	246.71	211.57	127.85	20 18 34	4750.5	40.52	238.82
46.61	10 23 49	1587.19	35.88	29.16	211.55	127.86	10 50 16	987.2	40.51	21.27
133.39	18 49 23	5350.46	35.89	246.71	211.57	127.85	20 18 34	4750.5	40.52	238.82
46.61	10 23 49	1587.19	35.88	29.16	211.55	127.86	10 50 16	987.2	40.51	21.27
133.39	18 49 23	5350.46	35.89	246.71	211.57	127.85	20 18 34	4750.5	40.52	238.82

DIFFERENTIAL CORRECTIONS
TDE -.2875 TRA .9151 TC3-1.6531 BAU .5263
RDE -.0178 RRA-1.5893 RC3 2.0543 FAU .05714
FDE .2241 FRA 2.2750 FC3-3.3137 BSP 14805
BDE .2881 BRA 1.8339 BC3 2.6369 FSP -1664

MID-COURSE EXECUTION ACCURACY
SGT 2512.6 SGR 4011.6 SG3 507.3
RRT -.9754 RRF -.9977 RTF .9703
SGB 4733.5 R23 .0746 R13 -.9950
SG1 4709.9 SG2 472.0 THA 121.78

ORBIT DETERMINATION ACCURACY
ST 766.9 SR 1106.6 SS 759.0
CRT -.8176 CRS .9833 CST -.6994
LSA 1479.9 MSA 445.7 SSA 5.5
EL1 1292.2 EL2 378.1 ALF 122.68

LAUNCH DATE OCT 11 1965 FLIGHT TIME 168.00 ARRIVAL DATE MAR 28 1966

HELIOCENTRIC CONIC DISTANCE 462.165

RL 149.33 LAL .00 LOL 17.47 VL 27.346 GAL 2.39 AZL 94.06 HCA 206.63 SMA 128.89 ECC .16383 INC 4.0553 V1 29.839
RP 108.24 LAP 1.82 LOP 224.05 VP 37.716 GAP 2.00 AZP 86.37 TAL 167.66 TAP 14.29 RCA 107.77 APO 150.01 V2 35.010
RC 90.946 GL -32.31 GP 57.95 ZAL 63.10 ZAP 102.38 ETS 15.47 ZAE 122.15 ETE 121.72 ZAC 47.52 ETC 231.53 CLP-113.82

PLANETOCENTRIC CONIC

C3 13.068 VHL 3.615 DLA -45.01 RAL 336.00 RAD 6567.5 VEL 11.595 PTH 2.03 VHP 5.030 DPA 33.87 RAP 286.18 ECC 1.2151

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
53.42	10 37 13	1499.06	33.70	18.80	204.18	121.82	11 2 12	899.1	37.62	10.63
126.58	18 15 24	5380.12	33.71	247.73	204.19	121.80	19 45 4	4780.1	37.64	239.56
53.42	10 37 13	1499.06	33.70	18.80	204.18	121.82	11 2 12	899.1	37.62	10.63
126.58	18 15 24	5380.12	33.71	247.73	204.19	121.80	19 45 4	4780.1	37.64	239.56
53.42	10 37 13	1499.06	33.70	18.80	204.18	121.82	11 2 12	899.1	37.62	10.63
126.58	18 15 24	5380.12	33.71	247.73	204.19	121.80	19 45 4	4780.1	37.64	239.56

DIFFERENTIAL CORRECTIONS
TDE -.2101 TRA 1.0829 TC3-2.2042 BAU .5469
RDE -.0475 RRA-1.5059 RC3 2.2231 FAU .06563
FDE .3373 FRA 2.6351 FC3-4.3479 BSP 14845
BDE .2154 BRA 1.8548 BC3 3.1306 FSP -1914

MID-COURSE EXECUTION ACCURACY
SGT 2923.1 SGR 3740.0 SG3 580.0
RRT -.9817 RRF -.9972 RTF .9771
SGB 4746.8 R23 .0822 R13 -.9939
SG1 4726.3 SG2 439.9 THA 127.89

ORBIT DETERMINATION ACCURACY
ST 802.2 SR 1016.8 SS 805.5
CRT -.8764 CRS .9762 CST -.7513
LSA 1468.2 MSA 412.9 SSA 6.6
EL1 1256.9 EL2 312.5 ALF 127.37

LAUNCH DATE OCT 11 1965 FLIGHT TIME 170.00 ARRIVAL DATE MAR 30 1966

HELIOCENTRIC CONIC DISTANCE 468.390

RL 149.33 LAL .00 LOL 17.47 VL 27.339 GAL 2.49 AZL 93.33 HCA 209.81 SMA 128.84 ECC .16473 INC 3.3275 V1 29.839
RP 108.29 LAP 1.65 LOP 227.24 VP 37.698 GAP 2.38 AZP 87.11 TAL 167.19 TAP 17.00 RCA 107.62 APO 150.06 V2 34.996
RC 93.279 GL -27.30 GP 53.82 ZAL 60.83 ZAP 106.24 ETS 18.84 ZAE 124.06 ETE 127.19 ZAC 43.69 ETC 231.31 CLP-118.29

PLANETOCENTRIC CONIC

C3 11.946 VHL 3.456 DLA -40.13 RAL 334.15 RAD 6567.5 VEL 11.547 PTH 2.02 VHP 4.758 DPA 29.70 RAP 285.85 ECC 1.1966

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
60.28	10 58 19	1402.52	30.97	8.47	198.74	116.91	11 21 41	802.5	34.31	.25
119.72	17 39 29	5438.38	30.98	251.05	198.75	116.90	19 10 7	4838.4	34.31	242.82
60.28	10 58 19	1402.52	30.97	8.47	198.74	116.91	11 21 41	802.5	34.31	.25
119.72	17 39 29	5438.38	30.98	251.05	198.75	116.90	19 10 7	4838.4	34.31	242.82
60.28	10 58 19	1402.52	30.97	8.47	198.74	116.91	11 21 41	802.5	34.31	.25
119.72	17 39 29	5438.38	30.98	251.05	198.75	116.90	19 10 7	4838.4	34.31	242.82

DIFFERENTIAL CORRECTIONS
TDE -.1189 TRA 1.2442 TC3-2.7288 BAU .5663
RDE -.0850 RRA-1.4185 RC3 2.2643 FAU .07237
FDE .4968 FRA 2.9542 FC3-5.2449 BSP 14931
BDE .1461 BRA 1.8868 BC3 3.5459 FSP -2124

MID-COURSE EXECUTION ACCURACY
SGT 3297.6 SGR 3453.7 SG3 639.9
RRT -.9853 RRF -.9965 RTF .9809
SGB 4775.2 R23 .0871 R13 -.9927
SG1 4757.6 SG2 409.5 THA 133.66

ORBIT DETERMINATION ACCURACY
ST 834.9 SR 934.5 SS 860.6
CRT -.9249 CRS .9682 CST -.8005
LSA 1471.7 MSA 380.7 SSA 7.9
EL1 1229.7 EL2 241.3 ALF 131.52

LAUNCH DATE OCT 11 1965 FLIGHT TIME 172.00 ARRIVAL DATE APR 1 1966

HELIOCENTRIC CONIC DISTANCE 474.595

RL 149.33 LAL .00 LOL 17.47 VL 27.330 GAL 2.61 AZL 92.73 HCA 213.00 SMA 128.78 ECC .16580 INC 2.7290 V1 29.839
RP 108.33 LAP 1.49 LOP 230.44 VP 37.679 GAP 2.76 AZP 87.71 TAL 166.67 TAP 19.67 RCA 107.43 APO 150.13 V2 34.983
RC 95.621 GL -22.76 GP 49.90 ZAL 58.81 ZAP 110.21 ETS 21.60 ZAE 125.46 ETE 132.40 ZAC 40.14 ETC 230.44 CLP-122.44

PLANETOCENTRIC CONIC

C3 11.293 VHL 3.361 DLA -35.63 RAL 332.82 RAD 6567.4 VEL 11.519 PTH 2.01 VHP 4.580 DPA 25.74 RAP 285.59 ECC 1.1859

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
67.41	11 28 57	1286.23	28.03	357.37	194.84	112.96	11 50 24	686.2	30.88	349.20
112.59	16 58 17	5531.22	28.04	257.09	194.84	112.94	18 30 28	4931.2	30.89	248.92
67.41	11 28 57	1286.23	28.03	357.37	194.84	112.96	11 50 24	686.2	30.88	349.20
112.59	16 58 17	5531.22	28.04	257.09	194.84	112.94	18 30 28	4931.2	30.89	248.92
67.41	11 28 57	1286.23	28.03	357.37	194.84	112.96	11 50 24	686.2	30.88	349.20
112.59	16 58 17	5531.22	28.04	257.09	194.84	112.94	18 30 28	4931.2	30.89	248.92

DIFFERENTIAL CORRECTIONS
TDE -.0148 TRA 1.4029 TC3-3.1894 BAU .5845
RDE -.1200 RRA-1.3326 RC3 2.1949 FAU .07693
FDE .6847 FRA 3.2265 FC3-5.8974 BSP 15020
BDE .1209 BRA 1.9349 BC3 3.8717 FSP -2276

MID-COURSE EXECUTION ACCURACY
SGT 3640.8 SGR 3167.4 SG3 685.1
RRT -.9871 RRF -.9956 RTF .9831
SGB 4825.8 R23 .0886 R13 -.9916
SG1 4810.5 SG2 383.6 THA 139.03

ORBIT DETERMINATION ACCURACY
ST 885.5 SR 864.3 SS 928.0
CRT -.9643 CRS .9605 CST -.8527
LSA 1507.0 MSA 348.0 SSA 9.3
EL1 1226.3 EL2 165.4 ALF 135.72

LAUNCH DATE OCT 11 1965 FLIGHT TIME 174.00 ARRIVAL DATE APR 3 1966

HELIOCENTRIC CONIC DISTANCE 480.780

RL 149.33 LAL .00 LOL 17.47 VL 27.319 GAL 2.74 AZL 92.23 HCA 216.18 SMA 128.71 ECC .16704 INC 2.2252 V1 29.839
RP 108.37 LAP 1.31 LOP 233.63 VP 37.659 GAP 3.14 AZP 88.20 TAL 166.12 TAP 22.30 RCA 107.21 APO 150.20 V2 34.970
RC 97.969 GL -18.67 GP 46.22 ZAL 57.03 ZAP 114.18 ETS 23.86 ZAE 126.42 ETE 137.28 ZAC 36.90 ETC 228.89 CLP-126.30

PLANETOCENTRIC CONIC

C3 10.959 VHL 3.311 DLA -31.53 RAL 331.90 RAD 6567.4 VEL 11.504 PTH 2.00 VHP 4.473 DPA 22.03 RAP 285.43 ECC 1.1804

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
75.52	12 15 56	1124.42	25.09	343.57	192.13	109.75	12 34 40	524.4	27.55	335.49
104.48	16 3 58	5680.67	25.10	267.37	192.13	109.73	17 38 39	5080.7	27.56	259.29
75.52	12 15 56	1124.42	25.09	343.57	192.13	109.75	12 34 40	524.4	27.55	335.49
104.48	16 3 58	5680.67	25.10	267.37	192.13	109.73	17 38 39	5080.7	27.56	259.29
110.00	14 58 11	5885.66	17.70	279.34	188.47	119.73	16 36 17	5285.7	21.52	272.30
110.00	18 20 53	5255.46	32.98	237.17	194.48	99.55	19 48 29	4655.5	33.95	228.07

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE .0967 TRA 1.5563 TC3-3.5769 BAU .6049 SGT 3952.5 SGR 2885.4 SG3 714.2 ST 965.3 SR 799.9 SS 998.7
RDE -.1440 RRA-1.2459 RC3 2.0617 FAU .07979 RRT -.9881 RRF -.9943 RTF .9847 CRT -.9897 CRS .9529 CST -.9001
FDE .8734 FRA 3.4346 FC3-6.3029 BSP 15248 SGB 4893.6 R23 .0856 R13 -.9907 LSA 1571.2 MSA 316.3 SSA 10.7
BDE .1734 BRA 1.9936 BC3 4.1285 FSP -2390 SG1 4880.4 SG2 359.5 THA 143.97 EL1 1250.5 EL2 88.6 ALF 140.41

LAUNCH DATE OCT 11 1965 FLIGHT TIME 176.00 ARRIVAL DATE APR 5 1966

HELIOCENTRIC CONIC DISTANCE 486.944

RL 149.33 LAL .00 LOL 17.47 VL 27.307 GAL 2.88 AZL 91.79 HCA 219.36 SMA 128.62 ECC .16846 INC 1.7929 V1 29.839
RP 108.41 LAP 1.14 LOP 236.82 VP 37.639 GAP 3.52 AZP 88.61 TAL 165.52 TAP 24.88 RCA 106.96 APO 150.29 V2 34.957
RC 100.323 GL -15.01 GP 42.78 ZAL 55.44 ZAP 118.07 ETS 25.70 ZAE 126.99 ETE 141.77 ZAC 34.02 ETC 226.67 CLP-129.88

PLANETOCENTRIC CONIC

C3 10.855 VHL 3.295 DLA -27.81 RAL 331.30 RAD 6567.4 VEL 11.500 PTH 2.00 VHP 4.422 DPA 18.58 RAP 285.42 ECC 1.1786

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	13 20 23	909.92	19.20	325.38	189.21	111.22	13 35 33	309.9	21.92	317.76
90.00	14 54 42	603.21	25.41	305.08	191.27	102.93	15 4 45	3.2	26.94	296.75
100.00	13 55 22	796.83	16.07	315.67	187.78	115.55	14 8 39	196.8	19.38	308.43
100.00	17 2 24	5479.57	28.77	253.41	191.98	98.49	18 33 43	4879.6	29.64	244.71
110.00	14 1 20	778.09	11.33	311.55	185.08	122.47	14 14 18	178.1	15.54	304.96
110.00	19 12 55	5071.08	34.16	222.93	192.52	91.21	20 37 26	4471.1	33.95	213.69

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE .2145 TRA 1.7070 TC3-3.8792 BAU .6258 SGT 4235.2 SGR 2616.2 SG3 728.0 ST 1076.4 SR 739.8 SS 1069.3
RDE -.1579 RRA-1.1630 RC3 1.8836 FAU .08076 RRT -.9882 RRF -.9926 RTF .9857 CRT -.9994 CRS .9452 CST -.9361
FDE 1.0526 FRA 3.5833 FC3-6.4410 BSP 15535 SGB 4978.0 R23 .0788 R13 -.9899 LSA 1663.1 MSA 288.9 SSA 12.0
BDE .2663 BRA 2.0656 BC3 4.3123 FSP -2453 SG1 4966.3 SG2 341.8 THA 148.43 EL1 1306.0 EL2 20.4 ALF 145.50

LAUNCH DATE OCT 11 1965 FLIGHT TIME 178.00 ARRIVAL DATE APR 7 1966

HELIOCENTRIC CONIC DISTANCE 493.086

RL 149.33 LAL .00 LOL 17.47 VL 27.294 GAL 3.04 AZL 91.42 HCA 222.55 SMA 128.53 ECC .17005 INC 1.4158 V1 29.839
RP 108.44 LAP .96 LOP 240.01 VP 37.617 GAP 3.89 AZP 88.96 TAL 164.87 TAP 27.42 RCA 106.67 APO 150.39 V2 34.945
RC 102.682 GL -11.76 GP 39.59 ZAL 53.99 ZAP 121.83 ETS 27.19 ZAE 127.22 ETE 145.84 ZAC 31.56 ETC 223.79 CLP-133.19

PLANETOCENTRIC CONIC

C3 10.926 VHL 3.305 DLA -24.44 RAL 330.94 RAD 6567.4 VEL 11.503 PTH 2.00 VHP 4.415 DPA 15.40 RAP 285.56 ECC 1.1798

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 56 33	1187.78	11.56	342.19	186.16	116.03	12 16 21	587.8	14.97	335.17
90.00	16 15 41	5616.04	28.12	263.35	190.78	93.48	17 49 17	5016.0	28.31	254.69
100.00	12 56 53	993.02	10.00	327.06	185.34	118.32	13 13 26	393.0	13.70	320.24
100.00	17 58 2	5286.03	29.87	239.15	190.86	91.08	19 26 8	4686.0	29.70	230.35
110.00	13 24 16	907.12	6.53	318.46	183.24	123.63	13 39 24	307.1	10.91	312.10
110.00	19 47 9	4944.69	33.91	213.08	190.71	85.39	21 9 33	4344.7	32.90	203.98

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE .3367 TRA 1.8568 TC3-4.0970 BAU .6471 SGT 4491.8 SGR 2366.2 SG3 728.7 ST 1213.3 SR 682.5 SS 1135.4
RDE -.1629 RRA-1.0862 RC3 1.6857 FAU .08012 RRT -.9875 RRF -.9903 RTF .9864 CRT -.9970 CRS .9365 CST -.9601
FDE 1.2133 FRA 3.6801 FC3-6.3484 BSP 15864 SGB 5076.9 R23 .0693 R13 -.9893 LSA 1776.4 MSA 267.4 SSA 13.1
BDE .3740 BRA 2.1512 BC3 4.4302 FSP -2471 SG1 5066.1 SG2 331.3 THA 152.39 EL1 1391.3 EL2 46.3 ALF 150.68

LAUNCH DATE OCT 11 1965 FLIGHT TIME 180.00 ARRIVAL DATE APR 9 1966

HELIOCENTRIC CONIC DISTANCE 499.206

RL 149.33 LAL .00 LOL 17.47 VL 27.279 GAL 3.21 AZL 91.08 HCA 225.73 SMA 128.43 ECC .17183 INC 1.0820 V1 29.839
RP 108.48 LAP .77 LOP 243.19 VP 37.595 GAP 4.27 AZP 89.24 TAL 164.19 TAP 29.92 RCA 106.36 APO 150.50 V2 34.932
RC 105.043 GL -8.87 GP 36.67 ZAL 52.67 ZAP 125.42 ETS 28.41 ZAE 127.20 ETE 149.47 ZAC 29.53 ETC 220.29 CLP-136.27

PLANETOCENTRIC CONIC

C3 11.137 VHL 3.337 DLA -21.41 RAL 330.79 RAD 6567.4 VEL 11.512 PTH 2.01 VHP 4.445 DPA 12.49 RAP 285.87 ECC 1.1833

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 12 44	1344.83	6.73	351.20	184.84	117.57	11 35 9	744.8	10.37	344.41
90.00	16 58 17	5466.86	28.25	252.44	189.93	88.02	18 29 24	4866.9	27.68	243.83
100.00	12 19 22	1129.76	5.49	334.72	184.16	119.43	12 38 12	529.8	9.37	328.08
100.00	18 34 19	5157.16	29.65	229.58	189.85	86.05	20 0 17	4557.2	28.79	220.88
110.00	12 56 44	1012.67	2.53	324.00	182.32	124.10	13 13 36	412.7	6.99	317.75
110.00	20 13 28	4847.01	33.12	205.56	189.39	81.01	21 34 15	4247.0	31.52	196.70

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE .4627 TRA 2.0071 TC3-4.2363 BAU .6684 SGT 4725.0 SGR 2137.8 SG3 718.7 ST 1367.9 SR 626.8 SS 1193.8
RDE -.1606 RRA-1.0160 RC3 1.4859 FAU .07816 RRT -.9859 RRF -.9873 RTF .9867 CRT -.9864 CRS .9259 CST -.9751
FDE 1.3514 FRA 3.7320 FC3-6.0760 BSP 16227 SGB 5186.1 R23 .0585 R13 -.9888 LSA 1904.1 MSA 251.9 SSA 13.9
BDE .4897 BRA 2.2496 BC3 4.4893 FSP -2451 SG1 5175.8 SG2 327.0 THA 155.86 EL1 1501.7 EL2 93.9 ALF 155.58

LAUNCH DATE OCT 11 1965 FLIGHT TIME 182.00 ARRIVAL DATE APR 11 1966

HELIOCENTRIC CONIC DISTANCE 505.302

RL 149.33 LAL .00 LOL 17.47 VL 27.263 GAL 3.40 AZL 90.78 HCA 228.91 SMA 128.32 ECC .17379 INC .7828 VI 29.839
RP 108.52 LAP .59 LOP 246.38 VP 37.572 GAP 4.64 AZP 89.49 TAL 163.47 TAP 32.38 RCA 106.02 APO 150.63 V2 34.920
RC 107.406 GL -6.30 GP 34.00 ZAL 51.44 ZAP 128.82 ETS 29.42 ZAE 126.99 ETE 152.67 ZAC 27.95 ETC 216.25 CLP-139.12

PLANETOCENTRIC CONIC

C3 11.468 VHL 3.386 DLA -18.67 RAL 330.80 RAD 6567.4 VEL 11.526 PTH 2.01 VHP 4.506 DPA 9.84 RAP 286.34 ECC 1.1887

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 41 26	1466.49	2.85	358.03	184.34	118.19	11 5 53	866.5	6.59	351.36
90.00	17 29 39	5357.32	27.74	244.48	189.37	84.06	18 58 56	4757.3	26.63	235.99
100.00	11 51 28	1240.49	1.76	340.82	183.73	119.85	12 12 9	640.5	5.72	334.27
100.00	19 2 18	5058.55	28.97	222.33	189.20	82.30	20 26 37	4458.6	27.60	213.79
110.00	12 35 8	1103.71	-.95	328.75	182.04	124.17	12 53 31	503.7	3.54	322.54
110.00	20 35 8	4768.09	32.12	199.62	188.55	77.63	21 54 36	4168.1	30.09	191.00

DIFFERENTIAL CORRECTIONS
TDE .5906 TRA 2.1579 TC3-4.3078 BAU .6897
RDE -.1522 RRA -.9525 RC3 1.2964 FAU .07525
FDE 1.4634 FRA 3.7457 FC3-5.6812 BSP 16623
BDE .6099 BRA 2.3588 BC3 4.4986 FSP -2403

MID-COURSE EXECUTION ACCURACY
SGT 4935.9 SGR 1931.6 SG3 700.2
RRT -.9833 RRF -.9834 RTF .9869
SGB 5300.4 R23 .0477 R13 -.9884
SG1 5290.2 SG2 328.0 THA 158.87

ORBIT DETERMINATION ACCURACY
ST 1530.6 SR 572.2 SS 1241.5
CRT -.9701 CRS .9122 CST -.9842
LSA 2037.9 MSA 241.5 SSA 14.5
EL1 1628.9 EL2 130.6 ALF 159.93

LAUNCH DATE OCT 11 1965 FLIGHT TIME 184.00 ARRIVAL DATE APR 13 1966

HELIOCENTRIC CONIC DISTANCE 511.375

RL 149.33 LAL .00 LOL 17.47 VL 27.246 GAL 3.60 AZL 90.51 HCA 232.08 SMA 128.21 ECC .17595 INC .5111 VI 29.839
RP 108.56 LAP .40 LOP 249.55 VP 37.549 GAP 5.01 AZP 89.69 TAL 162.71 TAP 34.80 RCA 105.65 APO 150.77 V2 34.909
RC 109.770 GL -4.03 GP 31.57 ZAL 50.28 ZAP 132.01 ETS 30.28 ZAE 126.64 ETE 155.46 ZAC 26.83 ETC 211.83 CLP-141.78

PLANETOCENTRIC CONIC

C3 11.906 VHL 3.450 DLA -16.19 RAL 330.95 RAD 6567.5 VEL 11.545 PTH 2.02 VHP 4.591 DPA 7.46 RAP 286.97 ECC 1.1959

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 17 13	1568.75	-.45	3.74	184.40	118.31	10 43 22	968.7	3.34	357.11
90.00	17 55 3	5270.74	26.97	238.26	189.15	81.04	19 22 53	4670.7	25.46	229.92
100.00	11 29 30	1335.49	-1.46	346.03	183.84	119.86	11 51 46	735.5	2.52	339.51
100.00	19 25 26	4979.23	28.11	216.59	188.93	79.40	20 48 25	4379.2	26.36	208.23
110.00	12 17 41	1184.55	-4.04	332.98	182.23	123.97	12 37 26	584.6	.45	326.77
110.00	20 53 45	4702.93	31.07	194.84	188.16	74.98	22 12 8	4102.9	28.70	186.44

DIFFERENTIAL CORRECTIONS
TDE .7228 TRA 2.3130 TC3-4.3132 BAU .7093
RDE -.1405 RRA -.8968 RC3 1.1192 FAU .07143
FDE 1.5562 FRA 3.7345 FC3-5.1939 BSP 16979
BDE .7364 BRA 2.4808 BC3 4.4560 FSP -2324

MID-COURSE EXECUTION ACCURACY
SGT 5128.0 SGR 1748.0 SG3 676.0
RRT -.9796 RRF -.9786 RTF .9869
SGB 5417.8 R23 .0387 R13 -.9879
SG1 5407.5 SG2 333.1 THA 161.46

ORBIT DETERMINATION ACCURACY
ST 1699.5 SR 521.0 SS 1281.8
CRT -.9491 CRS .8950 CST -.9898
LSA 2178.8 MSA 234.9 SSA 14.8
EL1 1770.6 EL2 157.5 ALF 163.64

LAUNCH DATE OCT 11 1965 FLIGHT TIME 186.00 ARRIVAL DATE APR 15 1966

HELIOCENTRIC CONIC DISTANCE 517.424

RL 149.33 LAL .00 LOL 17.47 VL 27.228 GAL 3.81 AZL 90.26 HCA 235.26 SMA 128.09 ECC .17830 INC .2623 VI 29.839
RP 108.59 LAP .22 LOP 252.73 VP 37.526 GAP 5.39 AZP 89.85 TAL 161.92 TAP 37.18 RCA 105.25 APO 150.93 V2 34.897
RC 112.133 GL -2.02 GP 29.38 ZAL 49.18 ZAP 135.01 ETS 31.03 ZAE 126.20 ETE 157.88 ZAC 26.15 ETC 207.21 CLP-144.25

PLANETOCENTRIC CONIC

C3 12.445 VHL 3.528 DLA -13.96 RAL 331.21 RAD 6567.5 VEL 11.569 PTH 2.02 VHP 4.698 DPA 5.32 RAP 287.75 ECC 1.2048

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 57 43	1658.19	-3.33	8.73	184.88	118.14	10 25 21	1058.2	.46	2.10
90.00	18 16 37	5200.02	26.12	233.25	189.26	78.67	19 43 17	4600.0	24.30	225.06
100.00	11 11 40	1419.57	-4.30	350.65	184.34	119.61	11 35 20	819.6	-.33	344.12
100.00	19 45 21	4913.87	27.21	211.95	189.00	77.11	21 7 14	4313.9	25.16	203.74
110.00	12 3 21	1257.68	-6.81	336.83	182.79	123.58	12 24 19	657.7	-2.35	330.58
110.00	21 10 9	4648.53	30.05	190.93	188.13	72.88	22 27 37	4048.5	27.41	182.73

DIFFERENTIAL CORRECTIONS
TDE .8543 TRA 2.4690 TC3-4.2757 BAU .7292
RDE -.1246 RRA -.8467 RC3 .9644 FAU .06736
FDE 1.6218 FRA 3.6978 FC3-4.6860 BSP 17390
BDE .8634 BRA 2.6102 BC3 4.3831 FSP -2239

MID-COURSE EXECUTION ACCURACY
SGT 5301.0 SGR 1584.9 SG3 647.5
RRT -.9747 RRF -.9726 RTF .9867
SGB 5532.8 R23 .0306 R13 -.9874
SG1 5522.4 SG2 340.2 THA 163.69

ORBIT DETERMINATION ACCURACY
ST 1862.9 SR 471.3 SS 1308.8
CRT -.9222 CRS .8716 CST -.9932
LSA 2313.4 MSA 231.1 SSA 14.9
EL1 1913.4 EL2 177.4 ALF 166.75

LAUNCH DATE OCT 11 1965 FLIGHT TIME 188.00 ARRIVAL DATE APR 17 1966

HELIOCENTRIC CONIC DISTANCE 523.447

RL 149.33 LAL .00 LOL 17.47 VL 27.210 GAL 4.04 AZL 90.03 HCA 238.43 SMA 127.96 ECC .18085 INC .0297 VI 29.839
RP 108.63 LAP .03 LOP 255.91 VP 37.502 GAP 5.77 AZP 89.98 TAL 161.10 TAP 39.53 RCA 104.82 APO 151.11 V2 34.886
RC 114.493 GL -.24 GP 27.40 ZAL 48.12 ZAP 137.81 ETS 31.72 ZAE 125.70 ETE 159.97 ZAC 25.89 ETC 202.57 CLP-146.56

PLANETOCENTRIC CONIC

C3 13.081 VHL 3.617 DLA -11.93 RAL 331.56 RAD 6567.5 VEL 11.596 PTH 2.03 VHP 4.825 DPA 3.41 RAP 288.68 ECC 1.2153

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 41 38	1738.34	-5.89	13.23	185.68	117.75	10 10 36	1138.3	-2.13	6.57
90.00	18 35 31	5141.26	25.27	229.16	189.66	76.78	20 1 12	4541.3	23.20	221.10
100.00	10 56 54	1495.49	-6.84	354.86	185.16	119.17	11 21 50	895.5	-2.90	348.29
100.00	20 2 56	4859.34	26.32	208.14	189.37	75.29	21 23 55	4259.3	24.04	200.08
110.00	11 51 26	1324.73	-9.31	340.40	183.66	123.04	12 13 31	724.7	-4.90	334.09
110.00	21 28 53	4602.87	29.09	187.72	188.43	71.20	22 41 36	4002.9	26.25	179.69

DIFFERENTIAL CORRECTIONS
TDE .9874 TRA 2.6294 TC3-4.1970 BAU .7481
RDE -.1065 RRA -.8029 RC3 .8286 FAU .06304
FDE 1.6682 FRA 3.6468 FC3-4.1720 BSP 17799
BDE .9931 BRA 2.7493 BC3 4.2780 FSP -2145

MID-COURSE EXECUTION ACCURACY
SGT 5457.9 SGR 1441.5 SG3 616.8
RRT -.9683 RRF -.9651 RTF .9865
SGB 5645.1 R23 .0239 R13 -.9870
SG1 5634.3 SG2 348.6 THA 165.60

ORBIT DETERMINATION ACCURACY
ST 2021.5 SR 425.3 SS 1326.7
CRT -.8882 CRS .8409 CST -.9954
LSA 2444.3 MSA 229.1 SSA 14.9
EL1 2056.8 EL2 192.1 ALF 169.32

LAUNCH DATE OCT 11 1965 FLIGHT TIME 190.00 ARRIVAL DATE APR 19 1966

HELIOCENTRIC CONIC DISTANCE 529.444

RL 149.33 LAL .00 LOL 17.47 VL 27.190 GAL 4.29 AZL 89.82 HCA 241.61 SMA 127.83 ECC .18363 INC .1823 V1 29.839
RP 108.66 LAP -.16 LOP 259.08 VP 37.478 GAP 6.15 AZP 90.09 TAL 160.24 TAP 41.85 RCA 104.36 APO 151.31 V2 34.875
RC 116.852 GL 1.33 GP 25.62 ZAL 47.09 ZAP 140.42 ETS 32.38 ZAE 125.18 ETE 161.77 ZAC 26.01 ETC 198.09 CLP-148.73

PLANETOCENTRIC CONIC

C3 13.816 VHL 3.717 DLA -10.09 RAL 331.99 RAD 6567.5 VEL 11.628 PTH 2.04 VHP 4.967 DPA 1.71 RAP 289.74 ECC 1.2274

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 28 12	1811.36	-8.19	17.37	186.76	117.20	9 58 23	1211.4	-4.47	10.66
90.00	18 52 25	5092.01	24.46	225.78	190.31	75.28	20 17 17	4492.0	22.20	217.84
100.00	10 44 33	1565.04	-9.13	358.76	186.25	118.59	11 10 38	965.0	-5.24	352.13
100.00	20 18 45	4813.57	25.49	204.99	190.00	73.83	21 38 58	4213.6	23.03	197.06
110.00	11 41 27	1386.84	-11.60	343.76	184.77	122.38	12 4 34	786.8	-7.25	337.37
110.00	21 38 20	4564.53	28.22	185.08	189.00	69.85	22 54 24	3964.5	25.21	177.19

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE 1.1219 TRA 2.7945 TC3-4.0865 BAU .7661 SGT 5600.2 SGR 1315.6 SG3 584.9 ST 2172.9 SR 383.7 SS 1336.7
RDE -.0870 RRA -.7647 RC3 .7112 FAU .05863 RRT -.9604 RRF -.9562 RTF .9861 CRT -.8453 CRS .8012 CST -.9969
FDE 1.6987 FRA 3.5856 FC3-3.6740 BSP 18194 SGB 5752.6 R23 .0186 R13 -.9865 LSA 2569.7 MSA 228.2 SSA 14.9
BDE 1.1252 BRA 2.8972 BC3 4.1479 FSP -2045 SG1 5741.5 SG2 357.4 THA 167.24 EL1 2197.2 EL2 202.7 ALF 171.44

LAUNCH DATE OCT 11 1965 FLIGHT TIME 192.00 ARRIVAL DATE APR 21 1966

HELIOCENTRIC CONIC DISTANCE 535.413

RL 149.33 LAL .00 LOL 17.47 VL 27.170 GAL 4.56 AZL 89.62 HCA 244.78 SMA 127.70 ECC .18663 INC .3844 V1 29.839
RP 108.69 LAP -.35 LOP 262.25 VP 37.453 GAP 6.54 AZP 90.16 TAL 159.36 TAP 44.14 RCA 103.87 APO 151.53 V2 34.865
RC 119.206 GL 2.72 GP 24.01 ZAL 46.08 ZAP 142.86 ETS 33.03 ZAE 124.65 ETE 163.33 ZAC 26.47 ETC 193.92 CLP-150.77

PLANETOCENTRIC CONIC

C3 14.653 VHL 3.828 DLA -8.41 RAL 332.49 RAD 6567.6 VEL 11.664 PTH 2.05 VHP 5.126 DPA .22 RAP 290.93 ECC 1.2411

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 16 51	1878.72	-10.26	21.23	188.05	116.54	9 48 10	1278.7	-6.61	14.45
90.00	19 7 45	5050.63	23.72	222.98	191.18	74.06	20 31 56	4450.6	21.30	215.14
100.00	10 34 7	1629.46	-11.20	2.41	187.56	117.90	11 1 16	1029.5	-7.39	355.71
100.00	20 33 10	4775.12	24.74	202.38	190.85	72.66	21 52 46	4175.1	22.13	194.55
110.00	11 33 3	1444.89	-13.70	346.95	186.10	121.63	11 57 8	844.9	-9.41	340.47
110.00	21 50 43	4532.44	27.45	182.90	189.79	68.77	23 6 16	3932.4	24.31	175.13

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE 1.2620 TRA 2.9692 TC3-3.9401 BAU .7809 SGT 5731.5 SGR 1206.1 SG3 553.5 ST 2322.2 SR 347.9 SS 1344.1
RDE -.0678 RRA -.7325 RC3 .6071 FAU .05396 RRT -.9508 RRF -.9456 RTF .9856 CRT -.7935 CRS .7526 CST -.9978
FDE 1.7224 FRA 3.5246 FC3-3.1879 BSP 18490 SGB 5857.1 R23 .0149 R13 -.9859 LSA 2696.0 MSA 227.8 SSA 14.9
BDE 1.2638 BRA 3.0582 BC3 3.9866 FSP -1932 SG1 5845.6 SG2 366.2 THA 168.64 EL1 2338.7 EL2 210.2 ALF 173.16

LAUNCH DATE OCT 11 1965 FLIGHT TIME 194.00 ARRIVAL DATE APR 23 1966

HELIOCENTRIC CONIC DISTANCE 541.354

RL 149.33 LAL .00 LOL 17.47 VL 27.149 GAL 4.84 AZL 89.42 HCA 247.95 SMA 127.56 ECC .18987 INC .5765 V1 29.839
RP 108.72 LAP -.53 LOP 265.42 VP 37.429 GAP 6.93 AZP 90.22 TAL 158.45 TAP 46.40 RCA 103.34 APO 151.78 V2 34.856
RC 121.557 GL 3.95 GP 22.56 ZAL 45.10 ZAP 145.14 ETS 33.70 ZAE 124.13 ETE 164.66 ZAC 27.20 ETC 190.15 CLP-152.69

PLANETOCENTRIC CONIC

C3 15.597 VHL 3.949 DLA -6.89 RAL 333.05 RAD 6567.6 VEL 11.704 PTH 2.06 VHP 5.298 DPA -1.10 RAP 292.23 ECC 1.2567

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 7 12	1941.45	-12.14	24.88	189.54	115.78	9 39 34	1341.4	-8.58	18.02
90.00	19 21 50	5015.89	23.05	220.65	192.24	73.08	20 45 26	4415.9	20.51	212.90
100.00	10 25 15	1689.65	-13.10	5.88	189.06	117.11	10 53 25	1089.7	-9.36	359.08
100.00	20 46 28	4742.92	24.06	200.22	191.89	71.71	22 5 31	4142.9	21.34	192.49
110.00	11 25 59	1499.54	-15.62	350.01	187.62	120.80	11 50 58	899.5	-11.42	343.42
110.00	22 2 14	4505.80	26.78	181.12	190.78	67.91	23 17 20	3905.8	23.54	173.45

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE 1.3998 TRA 3.1466 TC3-3.7843 BAU .7965 SGT 5848.3 SGR 1109.5 SG3 522.2 ST 2456.6 SR 316.1 SS 1341.6
RDE -.0468 RRA -.7036 RC3 .5210 FAU .04967 RRT -.9394 RRF -.9332 RTF .9851 CRT -.7271 CRS .6892 CST -.9985
FDE 1.7289 FRA 3.4550 FC3-2.7569 BSP 18863 SGB 5952.6 R23 .0115 R13 -.9853 LSA 2807.6 MSA 228.1 SSA 14.7
BDE 1.4005 BRA 3.2243 BC3 3.8200 FSP -1832 SG1 5940.8 SG2 374.4 THA 169.85 EL1 2467.4 EL2 216.1 ALF 174.61

LAUNCH DATE OCT 11 1965 FLIGHT TIME 196.00 ARRIVAL DATE APR 25 1966

HELIOCENTRIC CONIC DISTANCE 547.264

RL 149.33 LAL .00 LOL 17.47 VL 27.127 GAL 5.15 AZL 89.24 HCA 251.12 SMA 127.41 ECC .19337 INC .7599 V1 29.839
RP 108.75 LAP -.72 LOP 268.59 VP 37.405 GAP 7.33 AZP 90.25 TAL 157.51 TAP 48.63 RCA 102.77 APO 152.05 V2 34.846
RC 123.903 GL 5.04 GP 21.26 ZAL 44.14 ZAP 147.27 ETS 34.41 ZAE 123.62 ETE 165.82 ZAC 28.18 ETC 186.81 CLP-154.51

PLANETOCENTRIC CONIC

C3 16.657 VHL 4.081 DLA -5.50 RAL 333.65 RAD 6567.7 VEL 11.749 PTH 2.07 VHP 5.484 DPA -2.25 RAP 293.63 ECC 1.2741

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 58 59	2000.35	-13.86	28.35	191.20	114.94	9 32 19	1400.3	-10.38	21.40
90.00	19 34 52	4986.91	22.46	218.73	193.46	72.29	20 57 59	4386.9	19.83	211.05
100.00	10 17 43	1746.33	-14.83	9.19	190.72	116.25	10 46 50	1146.3	-11.18	2.30
100.00	20 58 49	4716.16	23.48	198.45	193.10	70.95	22 17 25	4116.2	20.67	190.79
110.00	11 20 1	1551.31	-17.41	352.96	189.29	119.89	11 45 52	951.3	-13.30	346.26
110.00	22 13 0	4483.95	26.21	179.67	191.95	67.23	23 27 44	3884.0	22.89	172.08

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE 1.5398 TRA 3.3315 TC3-3.6132 BAU .8107 SGT 5953.8 SGR 1025.0 SG3 491.9 ST 2582.2 SR 289.6 SS 1335.0
RDE -.0257 RRA -.6786 RC3 .4473 FAU .04552 RRT -.9261 RRF -.9189 RTF .9846 CRT -.6467 CRS .6119 CST -.9989
FDE 1.7279 FRA 3.3854 FC3-2.3657 BSP 19215 SGB 6041.4 R23 .0088 R13 -.9847 LSA 2912.3 MSA 228.4 SSA 14.6
BDE 1.5400 BRA 3.3999 BC3 3.6408 FSP -1733 SG1 6029.3 SG2 381.8 THA 170.90 EL1 2589.0 EL2 220.3 ALF 175.82

LAUNCH DATE OCT 11 1965 FLIGHT TIME 198.00 ARRIVAL DATE APR 27 1966

HELIOCENTRIC CONIC DISTANCE 553.141

RL	149.33	LAL	.00	LOL	17.47	VL	27.105	GAL	5.47	AZL	89.06	HCA	254.29	SMA	127.27	ECC	.19715	INC .9364 VI 29.839
RP	108.78	LAP	-.90	LOP	271.76	VP	37.381	GAP	7.74	AZP	90.25	TAL	156.56	TAP	50.84	RCA	102.18	APO 152.36 V2 34.838
RC	126.245	GL	5.99	GP	20.08	ZAL	43.19	ZAP	149.27	ETS	35.18	ZAE	123.14	ETE	166.82	ZAC	29.35	ETC 183.91 CLP-156.23

PLANETOCENTRIC CONIC

C3 17.842 VHL 4.224 DLA -4.23 RAL 334.29 RAD 6567.7 VEL 11.799 PTH 2.09 VHP 5.683 DPA -3.25 RAP 295.12 ECC 1.2936

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 51 57	2056.03	-15.43	31.69	193.01	114.04	9 26 13	1456.0	-12.06	24.64
90.00	19 47 1	4962.99	21.96	217.16	194.84	71.66	21 9 44	4363.0	19.25	209.53
100.00	10 11 19	1800.04	-16.42	12.39	192.53	115.33	10 41 19	1200.0	-12.88	5.39
100.00	21 10 20	4694.22	22.99	197.01	194.45	70.35	22 28 35	4094.2	20.10	189.40
110.00	11 15 0	1600.63	-19.05	355.84	191.12	118.93	11 41 41	1000.6	-15.05	349.01
110.00	22 23 8	4466.38	25.74	178.52	193.26	66.69	23 37 34	3866.4	22.36	171.00

DIFFERENTIAL CORRECTIONS

TDE	1.6826	TRA	3.5252	TC3	-3.4299	BAU	.8232	
RDE	-.0044	RRA	-.6570	RC3	.3840	FAU	.04150	
FDE	1.7212	FRA	3.3177	FC3	-2.0139	BSP	.19539	
BDE	1.6826	BRA	3.5859	BC3	3.4513	FSP	-1637	

MID-COURSE EXECUTION ACCURACY

SGT	6049.4	SGR	950.7	SG3	462.9			
RRT	-.9108	RRF	-.9028	RTF	.9840			
SGB	6123.6	R23	.0066	R13	-.9841			
SG1	6111.3	SG2	388.4	THA	171.82			

ORBIT DETERMINATION ACCURACY

ST	2699.2	SR	268.3	SS	1325.4			
CRT	-.5526	CRS	.5212	CST	-.9992			
LSA	3010.3	MSA	228.8	SSA	14.5			
EL1	2703.3	EL2	223.3	ALF	176.83			

LAUNCH DATE OCT 11 1965 FLIGHT TIME 200.00 ARRIVAL DATE APR 29 1966

HELIOCENTRIC CONIC DISTANCE 558.984

RL	149.33	LAL	.00	LOL	17.47	VL	27.082	GAL	5.82	AZL	88.89	HCA	257.45	SMA	127.12	ECC	.20123	INC 1.1073 VI 29.839
RP	108.80	LAP	-1.08	LOP	274.92	VP	37.357	GAP	8.16	AZP	90.24	TAL	155.58	TAP	53.03	RCA	101.54	APO 152.69 V2 34.830
RC	128.581	GL	6.83	GP	19.02	ZAL	42.25	ZAP	151.14	ETS	36.03	ZAE	122.68	ETE	167.69	ZAC	30.69	ETC 181.41 CLP-157.88

PLANETOCENTRIC CONIC

C3 19.164 VHL 4.378 DLA -3.07 RAL 334.97 RAD 6567.8 VEL 11.855 PTH 2.10 VHP 5.895 DPA -4.11 RAP 296.69 ECC 1.3154

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 45 57	2108.99	-16.87	34.91	194.94	113.08	9 21 6	1509.0	-13.61	27.75
90.00	19 58 23	4943.56	21.54	215.89	196.34	71.16	21 20 47	4343.6	18.77	208.31
100.00	10 5 52	1851.22	-17.89	15.48	194.48	114.36	10 36 43	1251.2	-14.45	8.38
100.00	21 21 10	4676.57	22.58	195.86	195.94	69.87	22 39 6	4076.6	19.63	188.30
110.00	11 10 49	1647.88	-20.59	358.65	193.07	117.91	11 38 17	1047.9	-16.69	351.69
110.00	22 32 42	4452.68	25.37	177.63	194.71	66.28	23 46 54	3852.7	21.94	170.15

DIFFERENTIAL CORRECTIONS

TDE	1.8319	TRA	3.7317	TC3	-3.2312	BAU	.8321	
RDE	.0162	RRA	-.6388	RC3	.3283	FAU	.03749	
FDE	1.7139	FRA	3.2562	FC3	-1.6935	BSP	19752	
BDE	1.8320	BRA	3.7860	BC3	3.2478	FSP	-1536	

MID-COURSE EXECUTION ACCURACY

SGT	6138.1	SGR	885.5	SG3	435.8			
RRT	-.8937	RRF	-.8848	RTF	.9834			
SGB	6201.6	R23	.0050	R13	-.9835			
SG1	6189.1	SG2	394.0	THA	172.62			

ORBIT DETERMINATION ACCURACY

ST	2812.3	SR	252.2	SS	1315.8			
CRT	-.4489	CRS	.4211	CST	-.9995			
LSA	3106.7	MSA	228.8	SSA	14.4			
EL1	2814.6	EL2	225.2	ALF	177.68			

LAUNCH DATE OCT 11 1965 FLIGHT TIME 202.00 ARRIVAL DATE MAY 1 1966

HELIOCENTRIC CONIC DISTANCE 564.789

RL	149.33	LAL	.00	LOL	17.47	VL	27.059	GAL	6.19	AZL	88.73	HCA	260.62	SMA	126.96	ECC	.20562	INC 1.2741 VI 29.839
RP	108.82	LAP	-1.26	LOP	278.09	VP	37.333	GAP	8.59	AZP	90.21	TAL	154.59	TAP	55.20	RCA	100.86	APO 153.07 V2 34.822
RC	130.911	GL	7.57	GP	18.06	ZAL	41.33	ZAP	152.90	ETS	36.97	ZAE	122.24	ETE	168.44	ZAC	32.15	ETC 179.28 CLP-159.45

PLANETOCENTRIC CONIC

C3 20.639 VHL 4.543 DLA -2.01 RAL 335.66 RAD 6567.8 VEL 11.917 PTH 2.12 VHP 6.121 DPA -4.84 RAP 298.33 ECC 1.3397

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 40 50	2159.62	-18.20	38.03	196.99	112.08	9 16 49	1559.6	-15.04	30.77
90.00	20 9 4	4928.20	21.19	214.89	197.95	70.77	21 31 12	4328.2	18.38	207.35
100.00	10 1 14	1900.24	-19.24	18.50	196.54	113.33	10 32 54	1300.2	-15.91	11.28
100.00	21 31 21	4662.81	22.25	194.96	197.54	69.51	22 49 4	4062.8	19.26	187.44
110.00	11 7 20	1693.33	-22.01	1.41	195.15	116.84	11 35 33	1093.3	-18.23	354.31
110.00	22 41 44	4442.49	25.09	176.97	196.28	65.98	23 55 47	3842.5	21.63	169.53

DIFFERENTIAL CORRECTIONS

TDE	1.9800	TRA	3.9440	TC3	-3.0378	BAU	.8418	
RDE	.0377	RRA	-.6222	RC3	.2821	FAU	.03391	
FDE	1.6987	FRA	3.1936	FC3	-1.4224	BSP	20051	
BDE	1.9804	BRA	3.9928	BC3	3.0509	FSP	-1450	

MID-COURSE EXECUTION ACCURACY

SGT	6215.0	SGR	827.3	SG3	409.9			
RRT	-.8745	RRF	-.8648	RTF	.9828			
SGB	6269.9	R23	.0035	R13	-.9829			
SG1	6257.2	SG2	398.5	THA	173.33			

ORBIT DETERMINATION ACCURACY

ST	2910.7	SR	240.4	SS	1301.1			
CRT	-.3339	CRS	.3098	CST	-.9996			
LSA	3189.1	MSA	228.9	SSA	14.2			
EL1	2911.8	EL2	226.6	ALF	178.41			

LAUNCH DATE OCT 11 1965 FLIGHT TIME 204.00 ARRIVAL DATE MAY 3 1966

HELIOCENTRIC CONIC DISTANCE 570.553

RL	149.33	LAL	.00	LOL	17.47	VL	27.035	GAL	6.58	AZL	88.56	HCA	263.78	SMA	126.81	ECC	.21036	INC 1.4377 VI 29.839
RP	108.85	LAP	-1.43	LOP	281.25	VP	37.310	GAP	9.04	AZP	90.16	TAL	153.58	TAP	57.36	RCA	100.13	APO 153.48 V2 34.816
RC	133.236	GL	8.21	GP	17.19	ZAL	40.42	ZAP	154.56	ETS	38.03	ZAE	121.83	ETE	169.11	ZAC	33.72	ETC 177.48 CLP-160.95

PLANETOCENTRIC CONIC

C3 22.284 VHL 4.721 DLA -1.04 RAL 336.38 RAD 6567.9 VEL 11.986 PTH 2.14 VHP 6.360 DPA -5.45 RAP 300.04 ECC 1.3667

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 36 29	2208.22	-19.41	41.08	199.16	111.03	9 13 17	1608.2	-16.38	33.72
90.00	20 19 8	4916.54	20.93	214.14	199.68	70.48	21 41 5	4316.5	18.08	206.62
100.00	9 57 20	1947.39	-20.48	21.45	198.71	112.26	10 29 48	1347.4	-17.28	14.11
100.00	21 40 58	4652.61	22.01	194.30	199.25	69.24	22 58 30	4052.6	18.99	186.81
110.00	11 4 29	1737.23	-23.33	4.13	197.34	115.72	11 33 26	1137.2	-19.68	356.89
110.00	22 50 19	4435.53	24.89	176.52	197.95	65.78	24 4 14	3835.5	21.41	169.11

DIFFERENTIAL CORRECTIONS

TDE	2.1323	TRA	4.1676	TC3	-2.8406	BAU	.8493	
RDE	.0591	RRA	-.6076	RC3	.2420	FAU	.03050	
FDE	1.6819	FRA	3.1352	FC3	-1.1848	BSP	20317	
BDE	2.1331	BRA	4.2117	BC3	2.8509	FSP	-1367	

MID-COURSE EXECUTION ACCURACY

SGT	6283.8	SGR	775.4	SG3	385.5			
RRT	-.8534	RRF	-.8429	RTF	.9823			
SGB	6331.5	R23	.0023	R13	-.9823			
SG1	6318.7	SG2	402.0	THA	173.96			

ORBIT DETERMINATION ACCURACY

ST	3001.4	SR	232.7	SS	1285.5			
CRT	-.2157	CRS	.1954	CST	-.9997			
LSA	3265.3	MSA	228.7	SSA	14.0			
EL1	3001.8	EL2	227.2	ALF	179.04			

LAUNCH DATE OCT 11 1965 FLIGHT TIME 206.00 ARRIVAL DATE MAY 5 1966

HELIOCENTRIC CONIC DISTANCE 576.273

RL 149.33 LAL .00 LOL 17.47 VL 27.012 GAL 7.00 AZL 88.40 HCA 266.94 SMA 126.65 ECC .21548 INC 1.5994 V1 29.839
RP 108.87 LAP -1.60 LOP 284.41 VP 37.287 GAP 9.50 AZP 90.09 TAL 152.56 TAP 59.50 RCA 99.36 APO 153.94 V2 34.809
RC 135.553 GL 8.76 GP 16.40 ZAL 39.53 ZAP 156.12 ETS 39.23 ZAE 121.44 ETE 169.69 ZAC 35.37 ETC 175.95 CLP-162.40

PLANETOCENTRIC CONIC

C3 24.120 VHL 4.911 DLA -.15 RAL 337.11 RAD 6568.0 VEL 12.062 PTH 2.16 VHP 6.614 OPA -5.95 RAP 301.80 ECC 1.3970

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 32 48	2255.09	-20.53	44.06	201.41	109.94	9 10 23	1655.1	-17.63	36.59
90.00	20 28 39	4908.28	20.74	213.61	201.49	70.28	21 50 27	4308.3	17.87	206.11
100.00	9 54 4	1992.93	-21.63	24.34	200.97	111.15	10 27 17	1392.9	-18.56	16.89
100.00	21 50 3	4645.67	21.84	193.86	201.06	69.07	23 7 29	4045.7	18.80	186.38
110.00	11 2 10	1779.80	-24.56	6.82	199.63	114.55	11 31 49	1179.8	-21.04	359.44
110.00	22 58 27	4431.56	24.78	176.27	199.72	65.67	24 12 19	3831.6	21.29	168.87

DIFFERENTIAL CORRECTIONS
TDE 2.2887 TRA 4.4032 TC3-2.6430 BAU .8549
RDE .0806 RRA -.5944 RC3 .2073 FAU .02727
FDE 1.6643 FRA 3.0812 FC3 -.9787 BSP 20565
BDE 2.2901 BRA 4.4432 BC3 2.6512 FSP -1289

MID-COURSE EXECUTION ACCURACY
SGT 6344.9 SGR 728.8 SG3 362.6
RRT -.8303 RRF -.8192 RTF .9818
SGB 6386.6 R23 .0012 R13 -.9818
SG1 6373.8 SG2 404.3 THA 174.53

ORBIT DETERMINATION ACCURACY
ST 3083.9 SR 228.4 SS 1269.3
CRT -.0994 CRS .0827 CST -.9998
LSA 3334.9 MSA 228.1 SSA 13.9
EL1 3084.0 EL2 227.2 ALF 179.58

LAUNCH DATE OCT 11 1965 FLIGHT TIME 208.00 ARRIVAL DATE MAY 7 1966

HELIOCENTRIC CONIC DISTANCE 581.944

RL 149.33 LAL .00 LOL 17.47 VL 26.987 GAL 7.45 AZL 88.24 HCA 270.10 SMA 126.50 ECC .22101 INC 1.7600 V1 29.839
RP 108.88 LAP -1.76 LOP 287.57 VP 37.264 GAP 9.98 AZP 90.00 TAL 151.53 TAP 61.63 RCA 98.54 APO 154.45 V2 34.804
RC 137.863 GL 9.25 GP 15.68 ZAL 38.65 ZAP 157.60 ETS 40.58 ZAE 121.07 ETE 170.21 ZAC 37.10 ETC 174.67 CLP-163.80

PLANETOCENTRIC CONIC

C3 26.171 VHL 5.116 DLA .67 RAL 337.85 RAD 6568.1 VEL 12.147 PTH 2.18 VHP 6.884 OPA -6.35 RAP 303.61 ECC 1.4307

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 29 43	2300.43	-21.56	46.99	203.76	108.82	9 8 4	1700.4	-18.79	39.41
90.00	20 37 38	4903.16	20.62	213.28	203.39	70.16	21 59 21	4303.2	17.73	205.79
100.00	9 51 22	2037.05	-22.68	27.20	203.33	110.01	10 25 19	1437.1	-19.75	19.63
100.00	21 58 39	4641.78	21.74	193.61	202.95	68.97	23 16 1	4041.8	18.69	186.14
110.00	11 0 20	1821.21	-25.71	9.49	202.01	113.35	11 30 41	1221.2	-22.33	1.97
110.00	23 6 12	4430.38	24.75	176.19	201.58	65.63	24 20 2	3830.4	21.25	168.79

DIFFERENTIAL CORRECTIONS
TDE 2.4499 TRA 4.6520 TC3-2.4467 BAU .8583
RDE .1022 RRA -.5823 RC3 .1770 FAU .02422
FDE 1.6461 FRA 3.0317 FC3 -.8011 BSP 20787
BDE 2.4520 BRA 4.6883 BC3 2.4531 FSP -1215

MID-COURSE EXECUTION ACCURACY
SGT 6398.8 SGR 686.5 SG3 341.3
RRT -.8053 RRF -.7937 RTF .9814
SGB 6435.5 R23 .0003 R13 -.9814
SG1 6422.8 SG2 405.5 THA 175.04

ORBIT DETERMINATION ACCURACY
ST 3158.8 SR 226.8 SS 1252.8
CRT .0110 CRS -.0243 CST -.9998
LSA 3398.1 MSA 227.3 SSA 13.7
EL1 3158.8 EL2 226.7 ALF .05

LAUNCH DATE OCT 11 1965 FLIGHT TIME 210.00 ARRIVAL DATE MAY 9 1966

HELIOCENTRIC CONIC DISTANCE 587.561

RL 149.33 LAL .00 LOL 17.47 VL 26.963 GAL 7.93 AZL 88.08 HCA 273.26 SMA 126.34 ECC .22700 INC 1.9206 V1 29.839
RP 108.90 LAP -1.92 LOP 290.74 VP 37.242 GAP 10.48 AZP 89.89 TAL 150.50 TAP 63.76 RCA 97.66 APO 155.01 V2 34.799
RC 140.164 GL 9.66 GP 15.03 ZAL 37.79 ZAP 158.99 ETS 42.12 ZAE 120.72 ETE 170.66 ZAC 38.88 ETC 173.59 CLP-165.16

PLANETOCENTRIC CONIC

C3 28.467 VHL 5.335 DLA 1.41 RAL 338.60 RAD 6568.1 VEL 12.241 PTH 2.20 VHP 7.170 OPA -6.65 RAP 305.46 ECC 1.4685

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 27 10	2344.43	-22.49	49.88	206.19	107.67	9 6 15	1744.4	-19.87	42.19
90.00	20 46 7	4900.98	20.57	213.14	205.37	70.10	22 7 48	4301.0	17.68	205.66
100.00	9 49 10	2079.94	-23.65	30.01	205.78	108.83	10 23 50	1479.9	-20.86	22.33
100.00	22 6 48	4640.71	21.72	193.54	204.92	68.94	23 24 9	4040.7	18.66	186.08
110.00	10 58 55	1861.62	-26.77	12.15	204.49	112.09	11 29 57	1261.6	-23.54	4.49
110.00	23 13 33	4431.80	24.79	176.28	203.52	65.67	24 27 25	3831.8	21.29	168.88

DIFFERENTIAL CORRECTIONS
TDE 2.6197 TRA 4.9180 TC3-2.2481 BAU .8575
RDE .1237 RRA -.5712 RC3 .1502 FAU .02122
FDE 1.6304 FRA 2.9891 FC3 -.6453 BSP 20906
BDE 2.6226 BRA 4.9511 BC3 2.2531 FSP -1139

MID-COURSE EXECUTION ACCURACY
SGT 6448.2 SGR 648.0 SG3 321.5
RRT -.7784 RRF -.7664 RTF .9810
SGB 6480.6 R23 -.0005 R13 -.9810
SG1 6467.9 SG2 405.5 THA 175.51

ORBIT DETERMINATION ACCURACY
ST 3229.7 SR 227.1 SS 1238.0
CRT .1112 CRS -.1215 CST -.9999
LSA 3458.9 MSA 225.9 SSA 13.5
EL1 3229.8 EL2 225.6 ALF .45

LAUNCH DATE OCT 11 1965 FLIGHT TIME 212.00 ARRIVAL DATE MAY 11 1966

HELIOCENTRIC CONIC DISTANCE 593.116

RL 149.33 LAL .00 LOL 17.47 VL 26.938 GAL 8.45 AZL 87.92 HCA 276.42 SMA 126.18 ECC .23347 INC 2.0822 V1 29.839
RP 108.91 LAP -2.07 LOP 293.90 VP 37.220 GAP 11.01 AZP 89.77 TAL 149.46 TAP 65.89 RCA 96.72 APO 155.64 V2 34.795
RC 142.456 GL 10.01 GP 14.44 ZAL 36.95 ZAP 160.31 ETS 43.86 ZAE 120.39 ETE 171.08 ZAC 40.71 ETC 172.68 CLP-166.48

PLANETOCENTRIC CONIC

C3 31.041 VHL 5.571 DLA 2.09 RAL 339.34 RAD 6568.2 VEL 12.346 PTH 2.23 VHP 7.475 OPA -6.87 RAP 307.34 ECC 1.5109

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 25 5	2387.24	-23.35	52.72	208.69	106.49	9 4 53	1787.2	-20.87	44.93
90.00	20 54 9	4901.55	20.59	213.17	207.43	70.12	22 15 50	4301.5	17.69	205.69
100.00	9 47 24	2121.73	-24.54	32.80	208.29	107.62	10 22 46	1521.7	-21.90	25.00
100.00	22 14 31	4642.30	21.76	193.64	206.96	68.98	23 31 53	4042.3	18.71	186.18
110.00	10 57 53	1901.13	-27.76	14.80	207.05	110.80	11 29 34	1301.1	-24.67	6.99
110.00	23 20 32	4435.66	24.90	176.53	205.53	65.78	24 34 27	3835.7	21.41	169.11

DIFFERENTIAL CORRECTIONS
TDE 2.7917 TRA 5.1958 TC3-2.0589 BAU .8560
RDE .1458 RRA -.5601 RC3 .1273 FAU .01851
FDE 1.6125 FRA 2.9485 FC3 -.5164 BSP 21098
BDE 2.7955 BRA 5.2259 BC3 2.0628 FSP -1074

MID-COURSE EXECUTION ACCURACY
SGT 6488.0 SGR 612.3 SG3 302.9
RRT -.7494 RRF -.7371 RTF .9807
SGB 6516.8 R23 -.0011 R13 -.9807
SG1 6504.3 SG2 404.4 THA 175.94

ORBIT DETERMINATION ACCURACY
ST 3289.3 SR 228.9 SS 1221.7
CRT .2030 CRS -.2106 CST -.9999
LSA 3509.2 MSA 224.3 SSA 13.3
EL1 3289.7 EL2 224.2 ALF .81

LAUNCH DATE OCT 11 1965 FLIGHT TIME 214.00 ARRIVAL DATE MAY 13 1966

HELIOCENTRIC CONIC DISTANCE 598.602

RL 149.33 LAL .00 LOL 17.47 VL 26.914 GAL 9.00 AZL 87.75 HCA 279.58 SMA 126.02 ECC .24050 INC 2.2457 V1 29.839
RP 108.92 LAP -2.21 LOP 297.06 VP 37.199 GAP 11.56 AZP 89.63 TAL 148.43 TAP 68.01 RCA 95.71 APO 156.33 V2 34.791
RC 144.737 GL 10.30 GP 13.90 ZAL 36.12 ZAP 161.56 ETS 45.85 ZAE 120.07 ETE 171.44 ZAC 42.57 ETC 171.91 CLP-167.76

PLANETOCENTRIC CONIC

C3 33.935 VHL 5.825 DLA 2.71 RAL 340.08 RAD 6568.3 VEL 12.462 PTH 2.25 VHP 7.799 DPA -7.00 RAP 309.24 ECC 1.5585

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 23 26	2428.98	-24.13	55.54	211.26	105.29	9 3 55	1829.0	-21.80	47.64
90.00	21 1 44	4904.71	20.66	213.38	209.54	70.19	22 23 28	4304.7	17.77	205.89
100.00	9 46 2	2162.53	-25.36	35.56	210.88	106.38	10 22 5	1562.5	-22.87	27.64
100.00	22 21 48	4646.40	21.86	193.90	209.06	69.09	23 39 15	4046.4	18.82	186.43
110.00	10 57 11	1939.85	-28.66	17.45	209.68	109.48	11 29 31	1339.8	-25.74	9.49
110.00	23 27 9	4441.85	25.07	176.93	207.62	65.96	24 41 11	3841.8	21.61	169.49

DIFFERENTIAL CORRECTIONS
TDE 2.9701 TRA 5.4901 TC3-1.8746 BAU .8519
RDE .1684 RRA -.5490 RC3 .1072 FAU .01597
FDE 1.5956 FRA 2.9128 FC3 -.4073 BSP .21277
BDE 2.9749 BRA 5.5175 BC3 1.8776 FSP .1013

MID-COURSE EXECUTION ACCURACY
SGT 6521.3 SGR 579.0 SG3 285.4
RRT -.7181 RRF -.7057 RTF .9806
SGB 6547.0 R23 -.0017 R13 -.9806
SG1 6534.6 SG2 402.2 THA 176.34

ORBIT DETERMINATION ACCURACY
ST 3341.9 SR 231.8 SS 1206.1
CRT .2846 CRS -.2899 CST -.9999
LSA 3553.4 MSA 222.2 SSA 13.1
EL1 3342.5 EL2 222.2 ALF 1.14

LAUNCH DATE OCT 11 1965 FLIGHT TIME 216.00 ARRIVAL DATE MAY 15 1966

HELIOCENTRIC CONIC DISTANCE 604.009

RL 149.33 LAL .00 LOL 17.47 VL 26.889 GAL 9.59 AZL 87.59 HCA 282.74 SMA 125.86 ECC .24814 INC 2.4123 V1 29.839
RP 108.93 LAP -2.35 LOP 300.22 VP 37.178 GAP 12.15 AZP 89.47 TAL 147.41 TAP 70.15 RCA 94.63 APO 157.09 V2 34.788
RC 147.008 GL 10.54 GP 13.41 ZAL 35.32 ZAP 162.73 ETS 48.12 ZAE 119.76 ETE 171.78 ZAC 44.45 ETC 171.26 CLP-169.03

PLANETOCENTRIC CONIC

C3 37.198 VHL 6.099 DLA 3.28 RAL 340.82 RAD 6568.4 VEL 12.592 PTH 2.28 VHP 8.146 DPA -7.06 RAP 311.17 ECC 1.6122

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 22 9	2469.75	-24.83	58.32	213.89	104.07	9 3 19	1869.7	-22.65	50.32
90.00	21 8 52	4910.32	20.79	213.74	211.72	70.33	22 30 43	4310.3	17.92	206.24
100.00	9 45 1	2202.44	-26.09	38.29	213.53	105.12	10 21 44	1602.4	-23.76	30.27
100.00	22 28 41	4652.86	22.01	194.32	211.23	69.25	23 46 14	4052.9	18.99	186.83
110.00	10 56 47	1977.84	-29.50	20.09	212.38	108.11	11 29 45	1377.8	-26.74	11.99
110.00	23 33 25	4450.22	25.30	177.47	209.76	66.21	24 47 35	3850.2	21.87	170.00

DIFFERENTIAL CORRECTIONS
TDE 3.1563 TRA 5.8034 TC3-1.6954 BAU .8443
RDE .1913 RRA -.5376 RC3 .0897 FAU .01355
FDE 1.5802 FRA 2.8824 FC3 -.3153 BSP .21425
BDE 3.1621 BRA 5.8282 BC3 1.6977 FSP .955

MID-COURSE EXECUTION ACCURACY
SGT 6548.9 SGR 547.9 SG3 269.2
RRT -.6844 RRF -.6721 RTF .9806
SGB 6571.8 R23 -.0021 R13 -.9806
SG1 6559.7 SG2 398.8 THA 176.71

ORBIT DETERMINATION ACCURACY
ST 3388.2 SR 235.3 SS 1191.5
CRT .3565 CRS -.3598 CST -.9999
LSA 3592.5 MSA 219.8 SSA 12.8
EL1 3389.2 EL2 219.8 ALF 1.42

LAUNCH DATE OCT 11 1965 FLIGHT TIME 218.00 ARRIVAL DATE MAY 17 1966

HELIOCENTRIC CONIC DISTANCE 609.328

RL 149.33 LAL .00 LOL 17.47 VL 26.864 GAL 10.23 AZL 87.42 HCA 285.90 SMA 125.70 ECC .25644 INC 2.5831 V1 29.839
RP 108.94 LAP -2.48 LOP 303.38 VP 37.158 GAP 12.77 AZP 89.29 TAL 146.40 TAP 72.29 RCA 93.46 APO 157.93 V2 34.786
RC 149.266 GL 10.74 GP 12.96 ZAL 34.54 ZAP 163.84 ETS 50.72 ZAE 119.45 ETE 172.09 ZAC 46.36 ETC 170.70 CLP-170.27

PLANETOCENTRIC CONIC

C3 40.889 VHL 6.394 DLA 3.79 RAL 341.54 RAD 6568.6 VEL 12.738 PTH 2.32 VHP 8.517 DPA -7.05 RAP 313.10 ECC 1.6729

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 21 12	2509.60	-25.46	61.06	216.57	102.83	9 3 2	1909.6	-23.44	52.98
90.00	21 15 35	4918.26	20.97	214.25	213.95	70.52	22 37 34	4318.3	18.12	206.73
100.00	9 44 19	2241.51	-26.76	41.01	216.23	103.84	10 21 41	1641.5	-24.59	32.88
100.00	22 35 10	4661.59	22.22	194.88	213.46	69.48	23 52 51	4061.6	19.23	187.37
110.00	10 56 38	2015.18	-30.26	22.74	215.14	106.72	11 30 13	1415.2	-27.67	14.50
110.00	23 39 20	4460.68	25.59	178.15	211.97	66.52	24 53 41	3860.7	22.19	170.64

DIFFERENTIAL CORRECTIONS
TDE 3.3554 TRA 6.1409 TC3-1.5177 BAU .8306
RDE .2146 RRA -.5258 RC3 .0740 FAU .01113
FDE 1.5689 FRA 2.8592 FC3 -.2357 BSP .21459
BDE 3.3622 BRA 6.1634 BC3 1.5195 FSP .896

MID-COURSE EXECUTION ACCURACY
SGT 6573.9 SGR 518.5 SG3 254.2
RRT -.6481 RRF -.6360 RTF .9806
SGB 6594.3 R23 -.0024 R13 -.9806
SG1 6582.5 SG2 394.3 THA 177.06

ORBIT DETERMINATION ACCURACY
ST 3432.1 SR 238.8 SS 1179.6
CRT .4192 CRS -.4210 CST -.9999
LSA 3630.5 MSA 216.7 SSA 12.6
EL1 3433.5 EL2 216.7 ALF 1.68

LAUNCH DATE OCT 11 1965 FLIGHT TIME 220.00 ARRIVAL DATE MAY 19 1966

HELIOCENTRIC CONIC DISTANCE 614.542

RL 149.33 LAL .00 LOL 17.47 VL 26.839 GAL 10.92 AZL 87.24 HCA 289.05 SMA 125.54 ECC .26551 INC 2.7594 V1 29.839
RP 108.94 LAP -2.61 LOP 306.55 VP 37.139 GAP 13.43 AZP 89.10 TAL 145.41 TAP 74.46 RCA 92.21 APO 158.87 V2 34.785
RC 151.511 GL 10.89 GP 12.55 ZAL 33.79 ZAP 164.88 ETS 53.70 ZAE 119.15 ETE 172.37 ZAC 48.29 ETC 170.24 CLP-171.50

PLANETOCENTRIC CONIC

C3 45.077 VHL 6.714 DLA 4.25 RAL 342.25 RAD 6568.7 VEL 12.901 PTH 2.35 VHP 8.917 DPA -6.98 RAP 315.04 ECC 1.7419

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 20 34	2548.58	-26.02	63.78	219.29	101.58	9 3 3	1948.6	-24.16	55.60
90.00	21 21 53	4928.43	21.20	214.91	216.22	70.78	22 44 1	4328.4	18.38	207.36
100.00	9 43 55	2279.78	-27.35	43.69	218.97	102.55	10 21 54	1679.8	-25.35	35.47
100.00	22 41 14	4672.46	22.48	195.59	215.73	69.76	23 59 6	4072.5	19.52	188.04
110.00	10 56 44	2051.88	-30.95	25.37	217.95	105.30	11 30 56	1451.9	-28.54	17.00
110.00	23 44 54	4473.12	25.92	178.96	214.23	66.89	24 59 27	3873.1	22.57	171.41

DIFFERENTIAL CORRECTIONS
TDE 3.5589 TRA 6.4958 TC3-1.3517 BAU .8154
RDE .2389 RRA -.5125 RC3 .0606 FAU .00896
FDE 1.5566 FRA 2.8388 FC3 -.1721 BSP .21597
BDE 3.5669 BRA 6.5160 BC3 1.3530 FSP .846

MID-COURSE EXECUTION ACCURACY
SGT 6589.2 SGR 490.4 SG3 240.1
RRT -.6085 RRF -.5969 RTF .9809
SGB 6607.4 R23 -.0026 R13 -.9809
SG1 6596.0 SG2 388.8 THA 177.40

ORBIT DETERMINATION ACCURACY
ST 3465.3 SR 242.7 SS 1167.3
CRT .4753 CRS -.4758 CST -.9999
LSA 3658.4 MSA 213.4 SSA 12.3
EL1 3467.2 EL2 213.4 ALF 1.91

LAUNCH DATE OCT 12 1965 FLIGHT TIME 70.00 ARRIVAL DATE DEC 21 1965

DISTANCE 141.168

HELIOCENTRIC CONIC

RL	149.29	LAL	.00	LOL	18.46	VL	18.729	GAL	14.66	AZL	90.73	HCA	48.68	SMA	92.99	ECC	.63802	INC	.7260	V1	29.847
RP	107.89	LAP	-.55	LOP	67.14	VP	32.142	GAP	-38.73	AZP	90.48	TAL	171.29	TAP	219.97	RCA	33.66	APO	152.32	V2	35.126
RC	61.731	GL	-1.02	GP	-4.29	ZAL	65.95	ZAP	27.25	ETS	168.37	ZAE	144.24	ETE	185.77	ZAC	20.41	ETC	111.49	CLP	26.93

PLANETOCENTRIC CONIC

C3 164.913 VHL 12.842 DLA -18.04 RAL 315.29 RAD 6570.8 VEL 16.919 PTH 2.92 VHP 22.379 OPA -28.70 RAP 274.30 ECC 3.7140

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 29 1	2103.21	-16.72	34.55	206.34	113.19	10 4 4	1503.2	-13.44	27.41
90.00	16 30 27	656.18	24.56	308.73	220.12	104.56	16 41 23	56.2	26.32	300.50
100.00	10 39 41	1875.19	-18.55	16.95	205.51	113.87	11 10 56	1275.2	-15.17	9.79
100.00	18 2 28	5647.48	26.49	265.36	220.67	104.38	19 36 35	5047.5	28.21	256.98
110.00	11 24 34	1734.52	-23.25	3.96	203.18	115.79	11 53 29	1134.5	-19.59	356.73
110.00	19 34 3	5360.91	31.51	245.04	222.12	103.99	21 3 24	4760.9	33.11	236.18

DIFFERENTIAL CORRECTIONS

TDE	-.4895	TRA	-1.5587	TC3	-.1187	BAU	.2626	SGT	822.0	SGR	451.0	SG3	31.9
RDE	-.9203	RRA	.3940	RC3	-.0093	FAU	.01318	RRT	-.1031	RRF	.0976	RTF	-.6343
FDE	.2423	FRA	.6499	FC3	-.0692	BSP	2184	SGB	937.5	R23	-.0046	R13	.6351
BDE	1.0424	BRA	1.6077	BC3	.1191	FSP	-67	SG1	823.8	SG2	447.5	THA	175.40

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

ST	309.7	SR	414.3	SS	274.0						
CRT	.6041	CRS	.6695	CST	.9941						
LSA	528.8	MSA	250.8	SSA	13.8						
ELI	469.1	EL2	218.0	ALF	58.02						

LAUNCH DATE OCT 12 1965 FLIGHT TIME 72.00 ARRIVAL DATE DEC 23 1965

DISTANCE 147.217

HELIOCENTRIC CONIC

RL	149.29	LAL	.00	LOL	18.46	VL	19.371	GAL	14.05	AZL	90.45	HCA	51.90	SMA	94.61	ECC	.61090	INC	.4523	V1	29.847
RP	107.85	LAP	-.36	LOP	70.36	VP	32.533	GAP	-36.91	AZP	90.28	TAL	170.64	TAP	222.54	RCA	36.81	APO	152.41	V2	35.138
RC	59.781	GL	-.70	GP	-4.43	ZAL	64.82	ZAP	25.76	ETS	167.54	ZAE	144.84	ETE	186.80	ZAC	21.29	ETC	115.43	CLP	25.40

PLANETOCENTRIC CONIC

C3 149.164 VHL 12.213 DLA -17.40 RAL 316.32 RAD 6570.6 VEL 16.447 PTH 2.87 VHP 21.463 OPA -28.88 RAP 276.22 ECC 3.4549

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 26 42	2109.97	-16.90	34.96	206.21	113.06	10 1 52	1510.0	-13.63	27.81
90.00	16 41 1	614.02	25.25	305.83	219.70	103.27	16 51 15	14.0	26.82	297.52
100.00	10 37 57	1880.03	-18.69	17.25	205.39	113.77	11 9 17	1280.0	-15.32	10.08
100.00	18 12 27	5607.23	27.14	262.54	220.19	103.03	19 45 54	5007.2	28.66	254.07
110.00	11 24 2	1735.66	-23.29	4.03	203.12	115.76	11 52 58	1135.7	-19.63	356.80
110.00	19 42 51	5324.36	32.08	242.35	221.48	102.49	21 11 36	4724.4	33.47	233.39

DIFFERENTIAL CORRECTIONS

TDE	-.4975	TRA	-1.5673	TC3	-.1256	BAU	.2516	SGT	861.6	SGR	455.9	SG3	34.7
RDE	-.8787	RRA	.3918	RC3	-.0117	FAU	.01337	RRT	-.1105	RRF	.1057	RTF	-.6538
FDE	.2589	FRA	.6753	FC3	-.0776	BSP	2297	SGB	974.8	R23	-.0060	R13	.6547
BDE	1.0097	BRA	1.6155	BC3	.1262	FSP	-74	SG1	863.6	SG2	452.0	THA	175.39

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

ST	328.6	SR	416.3	SS	291.4						
CRT	.6057	CRS	.6772	CST	.9936						
LSA	547.5	MSA	257.4	SSA	14.0						
ELI	479.2	EL2	227.1	ALF	55.75						

LAUNCH DATE OCT 12 1965 FLIGHT TIME 74.00 ARRIVAL DATE DEC 25 1965

DISTANCE 153.351

HELIOCENTRIC CONIC

RL	149.29	LAL	.00	LOL	18.46	VL	19.970	GAL	13.44	AZL	90.20	HCA	55.12	SMA	96.23	ECC	.58452	INC	.2016	V1	29.847
RP	107.81	LAP	-.17	LOP	73.58	VP	32.905	GAP	-35.18	AZP	90.12	TAL	170.01	TAP	225.13	RCA	39.98	APO	152.47	V2	35.149
RC	57.879	GL	-.34	GP	-4.58	ZAL	63.75	ZAP	24.29	ETS	166.58	ZAE	145.55	ETE	187.95	ZAC	22.29	ETC	119.08	CLP	23.88

PLANETOCENTRIC CONIC

C3 134.993 VHL 11.619 DLA -16.75 RAL 317.28 RAD 6570.5 VEL 16.010 PTH 2.82 VHP 20.581 OPA -29.04 RAP 278.16 ECC 3.2216

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 24 5	2116.07	-17.06	35.34	205.95	112.95	9 59 21	1516.J	-13.81	28.17
90.00	16 51 16	5858.99	25.89	280.74	219.10	101.90	18 28 55	5259.0	27.27	272.35
100.00	10 35 55	1884.29	-18.80	17.51	205.16	113.68	11 7 19	1284.3	-15.44	10.33
100.00	18 22 7	5566.00	27.74	259.62	219.53	101.61	19 54 53	4966.0	29.06	251.07
110.00	11 23 9	1736.30	-23.31	4.07	202.94	115.74	11 52 6	1136.3	-19.65	356.84
110.00	19 51 22	5286.76	32.60	239.54	220.65	100.90	21 19 29	4686.8	33.76	230.49

DIFFERENTIAL CORRECTIONS

TDE	-.5031	TRA	-1.5742	TC3	-.1318	BAU	.2393	SGT	901.4	SGR	460.2	SG3	37.7
RDE	-.8375	RRA	.3888	RC3	-.0146	FAU	.01360	RRT	-.1192	RRF	.1146	RTF	-.6730
FDE	.2758	FRA	.7012	FC3	-.0872	BSP	2461	SGB	1012.1	R23	-.0069	R13	.6739
BDE	.9770	BRA	1.6215	BC3	.1326	FSP	-82	SG1	903.6	SG2	455.8	THA	175.32

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

ST	347.5	SR	417.4	SS	309.4						
CRT	.6058	CRS	.6839	CST	.9928						
LSA	566.7	MSA	263.4	SSA	14.2						
ELI	489.2	EL2	235.9	ALF	53.45						

LAUNCH DATE OCT 12 1965 FLIGHT TIME 76.00 ARRIVAL DATE DEC 27 1965

DISTANCE 159.563

HELIOCENTRIC CONIC

RL	149.29	LAL	.00	LOL	18.46	VL	20.529	GAL	12.85	AZL	89.97	HCA	58.34	SMA	97.83	ECC	.55894	INC	.0271	V1	29.847
RP	107.78	LAP	.03	LOP	76.80	VP	33.259	GAP	-33.54	AZP	89.98	TAL	169.40	TAP	227.74	RCA	43.15	APO	152.52	V2	35.160
RC	56.028	GL	.05	GP	-4.75	ZAL	62.75	ZAP	22.85	ETS	165.48	ZAE	146.37	ETE	189.27	ZAC	23.39	ETC	122.43	CLP	22.38

PLANETOCENTRIC CONIC

C3 122.232 VHL 11.056 DLA -16.08 RAL 318.16 RAD 6570.3 VEL 15.607 PTH 2.78 VHP 19.730 OPA -29.19 RAP 280.13 ECC 3.0116

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 21 9	2121.60	-17.21	35.68	205.58	112.84	9 56 31	1521.6	-13.97	28.50
90.00	17 1 13	5814.98	26.47	277.65	218.31	100.45	18 38 8	5215.0	27.64	269.18
100.00	10 33 32	1888.04	-18.90	17.74	204.81	113.60	11 5 1	1288.0	-15.55	10.55
100.00	18 31 31	5523.77	28.28	256.60	218.69	100.11	20 3 35	4923.8	29.39	247.97
110.00	11 21 55	1736.49	-23.31	4.08	202.65	115.74	11 50 52	1136.5	-19.66	356.85
110.00	19 59 38	5248.09	33.06	236.61	219.63	99.23	21 27 6	4648.1	33.98	227.50

DIFFERENTIAL CORRECTIONS

TDE	-.5080	TRA	-1.5809	TC3	-.1375	BAU	.2266	SGT	942.8	SGR	463.9	SG3	40.9
RDE	-.7969	RRA	.3850	RC3	-.0179	FAU	.01385	RRT	-.1286	RRF	.1243	RTF	-.6915
FDE	.2934	FRA	.7277	FC3	-.0981	BSP	2630	SGB	1050.7	R23	-.0078	R13	.6924
BDE	.9450	BRA	1.6271	BC3	.1387	FSP	-90	SG1	945.2	SG2	458.9	THA	175.26

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

ST	367.2	SR	417.6	SS	328.0						
CRT	.6052	CRS	.6900	CST	.9920						
LSA	586.9	MSA	268.8	SSA	14.4						
ELI	499.5	EL2	244.4	ALF	51.02						

LAUNCH DATE OCT 12 1965 FLIGHT TIME 78.00 ARRIVAL DATE DEC 29 1965

HELIOCENTRIC CONIC DISTANCE 165,850

RL	149.29	LAL	.00	LOL	18.46	VL	21.051	GAL	12.28	AZL	89.75	HCA	61.57	SMA	99.42	ECC	.53421	INC	.2456	V1	29.847
RP	107.75	LAP	.22	LOP	80.03	VP	33.595	GAP	-31.97	AZP	89.88	TAL	168.82	TAP	230.39	RCA	46.31	APO	152.53	V2	35.171
RC	54.237	GL	.48	GP	-4.93	ZAL	61.81	ZAP	21.44	ETS	164.20	ZAE	147.30	ETE	190.77	ZAC	24.58	ETC	125.49	CLP	20.89

PLANETOCENTRIC CONIC

C3	110.731	VHL	10.523	DLA	-15.39	RAL	318.96	RAD	6570.1	VEL	15.234	PTH	2.73	VHP	18.911	DPA	-29.33	RAP	282.13	ECC	2.8224

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 17 54	2126.67	-17.34	35.99	205.10	112.74	9 53 20	1526.7	-14.11	28.80
90.00	17 10 52	5770.01	26.98	274.46	217.36	98.93	18 47 2	5170.0	27.94	265.93
100.00	10 30 49	1891.38	-19.00	17.95	204.35	113.52	11 2 21	1291.4	-15.65	10.75
100.00	18 40 38	5480.53	28.76	253.48	217.66	98.53	20 11 58	4880.5	29.64	244.78
110.00	11 20 19	1736.33	-23.31	4.07	202.23	115.74	11 49 15	1136.3	-19.65	356.84
110.00	20 7 37	5208.35	33.45	233.58	218.43	97.47	21 34 26	4608.3	34.13	224.40

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-.5122	TRA	-1.5872	TC3	-.1426	BAU	.2136	SGT	985.5	SGR	467.0	SG3	44.5	ST	387.5	SR	417.0	SS	347.4
RDE	-.7567	RRA	.3806	RC3	-.0219	FAU	.01414	RRT	-.1389	RRF	.1350	RTF	-.7093	CRT	.6038	CRS	.6954	CST	.9911
FDE	.3116	FRA	.7550	FC3	-.1105	BSP	2809	SGB	1090.6	R23	-.0089	R13	.7102	LSA	608.1	MSA	273.5	SSA	14.6
BDE	.9137	BRA	1.6321	BC3	.1443	FSP	-100	SG1	988.2	SG2	461.2	THA	175.18	ELI	510.2	EL2	252.5	ALF	48.47

LAUNCH DATE OCT 12 1965 FLIGHT TIME 80.00 ARRIVAL DATE DEC 31 1965

HELIOCENTRIC CONIC DISTANCE 172,205

RL	149.29	LAL	.00	LOL	18.46	VL	21.537	GAL	11.71	AZL	89.55	HCA	64.80	SMA	100.99	ECC	.51037	INC	.4498	V1	29.847
RP	107.72	LAP	.41	LOP	83.26	VP	33.912	GAP	-30.47	AZP	89.81	TAL	168.27	TAP	233.07	RCA	49.45	APO	152.53	V2	35.181
RC	52.511	GL	.95	GP	-5.13	ZAL	60.93	ZAP	20.05	ETS	162.69	ZAE	148.34	ETE	192.50	ZAC	25.86	ETC	128.26	CLP	19.41

PLANETOCENTRIC CONIC

C3	100.364	VHL	10.018	DLA	-14.68	RAL	319.68	RAD	6569.9	VEL	14.890	PTH	2.69	VHP	18.120	DPA	-29.47	RAP	284.14	ECC	2.6517

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 14 17	2131.39	-17.47	36.28	204.50	112.65	9 49 48	1531.4	-14.25	29.09
90.00	17 20 15	5724.05	27.42	271.17	216.22	97.34	18 55 39	5124.1	28.16	262.58
100.00	10 27 44	1894.41	-19.08	18.14	203.78	113.46	10 59 18	1294.4	-15.74	10.93
100.00	18 49 29	5436.27	29.16	250.25	216.47	96.87	20 20 5	4836.3	29.81	241.50
110.00	11 18 20	1735.91	-23.29	4.04	201.71	115.76	11 47 16	1135.9	-19.64	356.81
110.00	20 15 22	5167.54	33.77	230.43	217.06	95.64	21 41 30	4567.5	34.18	221.21

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-.5184	TRA	-1.5954	TC3	-.1480	BAU	.2017	SGT	1032.2	SGR	469.4	SG3	48.3	ST	409.9	SR	415.5	SS	367.9
RDE	-.7170	RRA	.3757	RC3	-.0264	FAU	.01444	RRT	-.1491	RRF	.1465	RTF	-.7260	CRT	.6032	CRS	.7004	CST	.9903
FDE	.3311	FRA	.7834	FC3	-.1246	BSP	2935	SGB	1133.9	R23	-.0111	R13	.7269	LSA	631.5	MSA	277.4	SSA	14.8
BDE	.8848	BRA	1.6390	BC3	.1503	FSP	-110	SG1	1035.1	SG2	462.8	THA	175.15	EL1	522.6	EL2	259.9	ALF	45.64

LAUNCH DATE OCT 12 1965 FLIGHT TIME 82.00 ARRIVAL DATE JAN 2 1966

HELIOCENTRIC CONIC DISTANCE 178,622

RL	149.29	LAL	.00	LOL	18.46	VL	21.992	GAL	11.16	AZL	89.36	HCA	68.03	SMA	102.53	ECC	.48743	INC	.6431	V1	29.847
RP	107.69	LAP	.60	LOP	86.48	VP	34.213	GAP	-29.04	AZP	89.76	TAL	167.76	TAP	235.79	RCA	52.56	APO	152.51	V2	35.191
RC	50.858	GL	1.45	GP	-5.35	ZAL	60.12	ZAP	18.70	ETS	160.92	ZAE	149.50	ETE	194.50	ZAC	27.21	ETC	130.76	CLP	17.94

PLANETOCENTRIC CONIC

C3	91.015	VHL	9.540	DLA	-13.95	RAL	320.32	RAD	6569.8	VEL	14.573	PTH	2.64	VHP	17.358	DPA	-29.59	RAP	286.17	ECC	2.4979

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 10 17	2135.92	-17.59	36.56	203.80	112.56	9 45 53	1535.9	-14.38	29.35
90.00	17 29 22	5677.09	27.79	267.78	214.92	95.68	19 3 59	5077.1	28.28	259.15
100.00	10 24 15	1897.27	-19.16	18.32	203.10	113.40	10 55 52	1297.3	-15.83	11.10
100.00	18 58 5	5390.97	29.49	246.92	215.11	95.15	20 27 56	4791.0	29.89	238.14
110.00	11 15 57	1735.34	-23.28	4.01	201.07	115.77	11 44 52	1135.3	-19.62	356.78
110.00	20 22 52	5125.66	34.00	227.19	215.52	93.73	21 48 18	4525.7	34.15	217.94

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-.5220	TRA	-1.6009	TC3	-.1517	BAU	.1885	SGT	1078.6	SGR	471.2	SG3	52.5	ST	432.1	SR	412.9	SS	389.1
RDE	-.6780	RRA	.3704	RC3	-.0317	FAU	.01479	RRT	-.1611	RRF	.1593	RTF	-.7423	CRT	.6010	CRS	.7047	CST	.9892
FDE	.3512	FRA	.8126	FC3	-.1407	BSP	3117	SGB	1177.0	R23	-.0128	R13	.7433	LSA	655.5	MSA	280.6	SSA	15.0
BDE	.8557	BRA	1.6432	BC3	.1549	FSP	-122	SG1	1081.9	SG2	463.6	THA	175.07	EL1	534.9	EL2	266.6	ALF	42.84

LAUNCH DATE OCT 12 1965 FLIGHT TIME 84.00 ARRIVAL DATE JAN 4 1966

HELIOCENTRIC CONIC DISTANCE 185,097

RL	149.29	LAL	.00	LOL	18.46	VL	22.416	GAL	10.63	AZL	89.17	HCA	71.26	SMA	104.05	ECC	.46542	INC	.8279	V1	29.847
RP	107.66	LAP	.78	LOP	89.72	VP	34.496	GAP	-27.67	AZP	89.73	TAL	167.29	TAP	238.54	RCA	55.62	APO	152.47	V2	35.200
RC	49.288	GL	2.01	GP	-5.59	ZAL	59.38	ZAP	17.37	ETS	158.81	ZAE	150.76	ETE	196.83	ZAC	28.62	ETC	133.02	CLP	16.48

PLANETOCENTRIC CONIC

C3	82.585	VHL	9.088	DLA	-13.19	RAL	320.88	RAD	6569.6	VEL	14.280	PTH	2.60	VHP	16.622	DPA	-29.71	RAP	288.22	ECC	2.3591

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 5 53	2140.40	-17.70	36.84	202.99	112.47	9 41 34	1540.4	-14.50	29.62
90.00	17 38 14	5629.11	28.06	264.30	213.46	93.96	19 12 3	5029.1	28.32	255.64
100.00	10 20 22	1900.12	-19.23	18.49	202.31	113.33	10 52 2	1300.1	-15.91	11.27
100.00	19 6 27	5344.62	29.72	243.50	213.59	93.36	20 35 31	4744.6	29.87	234.69
110.00	11 13 9	1734.78	-23.26	3.97	200.33	115.79	11 42 4	1134.8	-19.60	356.75
110.00	20 30 9	5082.73	34.14	223.84	213.82	91.75	21 54 51	4482.7	34.01	214.60

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-.5249	TRA	-1.6054	TC3	-.1541	BAU	.1752	SGT	1126.4	SGR	472.3	SG3	57.1	ST	454.8	SR	409.4	SS	411.2
RDE	-.6395	RRA	.3647	RC3	-.0379	FAU	.01518	RRT	-.1745	RRF	.1735	RTF	-.7578	CRT	.5981	CRS	.7084	CST	.9881
FDE	.3724	FRA	.8428	FC3	-.1592	BSP	3309	SGB	1221.4	R23	-.0145	R13	.7588	LSA	680.7	MSA	283.0	SSA	15.1
BDE	.8274	BRA	1.6463	BC3	.1587	FSP	-135	SG1	1130.0	SG2	463.6	THA	174.97	EL1	548.0	EL2	272.3	ALF	40.00

LAUNCH DATE OCT 12 1965 FLIGHT TIME 86.00 ARRIVAL DATE JAN 6 1966

HELIOCENTRIC CONIC DISTANCE 191.624

RL	149.29	LAL	.00	LOL	18.46	VL	22.811	GAL	10.11	AZL	88.99	HCA	74.49	SMA	105.53	ECC	.44434	INC	1.0058	V1	29.847
RP	107.63	LAP	.97	LOP	92.95	VP	34.763	GAP	-26.36	AZP	89.73	TAL	166.85	TAP	241.34	RCA	58.64	APO	152.42	V2	35.209
RC	47.809	GL	2.61	GP	-5.85	ZAL	58.71	ZAP	16.09	ETS	156.28	ZAE	152.10	ETE	199.57	ZAC	30.09	ETC	135.06	CLP	15.02

PLANETOCENTRIC CONIC

C3	74.984	VHL	8.659	DLA	-12.40	RAL	321.36	RAD	6569.5	VEL	14.012	PTH	2.56	VHP	15.911	DPA	-29.83	RAP	290.27	ECC	2.2341

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 1 3	2145.03	-17.82	37.13	202.09	112.37	9 36 48	1545.0	-14.63	29.90
90.00	17 46 54	5580.09	28.24	260.72	211.86	92.17	19 19 54	4980.1	28.24	252.06
100.00	10 16 2	1903.13	-19.31	18.68	201.42	113.27	10 47 45	1303.1	-16.00	11.45
100.00	19 14 36	5297.22	29.86	239.98	211.91	91.52	20 42 53	4697.2	29.75	231.18
110.00	11 9 55	1734.37	-23.25	3.95	199.50	115.80	11 38 49	1134.4	-19.59	356.72
110.00	20 37 12	5038.74	34.18	220.41	211.97	89.72	22 1 11	4438.7	33.77	211.19

DIFFERENTIAL CORRECTIONS

TDE	-.5278	TRA	-1.6093	TC3	-.1553	BAU	.1621
RDE	-.6016	RRA	.3589	RC3	-.0450	FAU	.01561
FDE	.3949	FRA	.8743	FC3	-.1803	BSP	3498
BDE	.8003	BRA	1.6488	BC3	.1617	FSP	-148

MID-COURSE EXECUTION ACCURACY

SGT	1176.0	SGR	472.9	SG3	62.1
RRT	-.1891	RRF	.1893	RTF	-.7726
SGB	1267.5	R23	-.0167	R13	.7737
SG1	1180.0	SG2	462.8	THA	174.86

ORBIT DETERMINATION ACCURACY

ST	478.5	SR	404.7	SS	434.6
CRT	.5947	CRS	.7115	CST	.9869
LSA	707.4	MSA	284.5	SSA	15.3
EL1	562.2	EL2	276.9	ALF	37.10

LAUNCH DATE OCT 12 1965 FLIGHT TIME 88.00 ARRIVAL DATE JAN 8 1966

HELIOCENTRIC CONIC DISTANCE 198.198

RL	149.29	LAL	.00	LOL	18.46	VL	23.180	GAL	9.60	AZL	88.82	HCA	77.73	SMA	106.97	ECC	.42420	INC	1.1784	V1	29.847
RP	107.61	LAP	1.15	LOP	96.18	VP	35.014	GAP	-25.10	AZP	89.75	TAL	166.45	TAP	244.17	RCA	61.59	APO	152.35	V2	35.217
RC	46.433	GL	3.26	GP	-6.14	ZAL	58.10	ZAP	14.86	ETS	153.23	ZAE	153.52	ETE	202.81	ZAC	31.62	ETC	136.89	CLP	13.56

PLANETOCENTRIC CONIC

C3	68.135	VHL	8.254	DLA	-11.59	RAL	321.76	RAD	6569.3	VEL	13.765	PTH	2.51	VHP	15.225	DPA	-29.95	RAP	292.34	ECC	2.1213

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 55 46	2150.02	-17.95	37.43	201.09	112.27	9 31 36	1550.0	-14.77	30.20
90.00	17 55 21	5530.02	28.32	257.06	210.11	90.34	19 27 31	4930.0	28.06	248.41
100.00	10 11 14	1906.50	-19.40	18.89	200.44	113.19	10 43 1	1306.5	-16.10	11.65
100.00	19 22 33	5248.77	29.89	236.38	210.11	89.62	20 50 2	4648.8	29.52	227.59
110.00	11 6 13	1734.32	-23.25	3.95	198.57	115.80	11 35 8	1134.3	-19.58	356.72
110.00	20 44 4	4993.72	34.11	216.89	209.99	87.64	22 7 18	4393.7	33.41	207.72

DIFFERENTIAL CORRECTIONS

TDE	-.5302	TRA	-1.6121	TC3	-.1547	BAU	.1490
RDE	-.5643	RRA	.3530	RC3	-.0531	FAU	.01610
FDE	.4188	FRA	.9070	FC3	-.2045	BSP	3698
BDE	.7744	BRA	1.6503	BC3	.1636	FSP	-164

MID-COURSE EXECUTION ACCURACY

SGT	1227.0	SGR	473.0	SG3	67.6
RRT	-.2053	RRF	.2068	RTF	-.7867
SGB	1315.0	R23	-.0191	R13	.7878
SG1	1231.5	SG2	461.2	THA	174.73

ORBIT DETERMINATION ACCURACY

ST	503.0	SR	398.8	SS	459.1
CRT	.5906	CRS	.7140	CST	.9856
LSA	735.7	MSA	285.2	SSA	15.4
EL1	577.5	EL2	280.3	ALF	34.19

LAUNCH DATE OCT 12 1965 FLIGHT TIME 90.00 ARRIVAL DATE JAN 10 1966

HELIOCENTRIC CONIC DISTANCE 204.813

RL	149.29	LAL	.00	LOL	18.46	VL	23.524	GAL	9.11	AZL	88.65	HCA	80.96	SMA	108.37	ECC	.40499	INC	1.3468	V1	29.847
RP	107.58	LAP	1.33	LOP	99.42	VP	35.250	GAP	-23.89	AZP	89.79	TAL	166.09	TAP	247.06	RCA	64.48	APO	152.26	V2	35.224
RC	45.168	GL	3.98	GP	-6.46	ZAL	57.58	ZAP	13.70	ETS	149.53	ZAE	154.98	ETE	206.66	ZAC	33.19	ETC	138.53	CLP	12.10

PLANETOCENTRIC CONIC

C3	61.966	VHL	7.872	DLA	-10.74	RAL	322.07	RAD	6569.2	VEL	13.540	PTH	2.47	VHP	14.564	DPA	-30.07	RAP	294.41	ECC	2.0198

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 49 58	2155.57	-18.09	37.78	200.00	112.16	9 25 54	1555.6	-14.93	30.53
90.00	18 3 38	5478.91	28.28	253.33	208.23	88.46	19 34 57	4878.9	27.77	244.70
100.00	10 5 57	1910.44	-19.51	19.13	199.38	113.11	10 37 47	1310.4	-16.21	11.89
100.00	19 30 20	5199.27	29.81	232.70	208.17	87.69	20 57 0	4599.3	29.17	223.95
110.00	11 2 2	1734.80	-23.26	3.98	197.55	115.78	11 30 57	1134.8	-19.60	356.75
110.00	20 50 44	4947.68	33.92	213.31	207.88	85.53	22 13 12	4347.7	32.93	204.21

DIFFERENTIAL CORRECTIONS

TDE	-.5325	TRA	-1.6139	TC3	-.1521	BAU	.1362
RDE	-.5276	RRA	.3472	RC3	-.0625	FAU	.01663
FDE	.4445	FRA	.9414	FC3	-.2324	BSP	3903
BDE	.7496	BRA	1.6508	BC3	.1644	FSP	-181

MID-COURSE EXECUTION ACCURACY

SGT	1279.5	SGR	472.5	SG3	73.6
RRT	-.2235	RRF	.2265	RTF	-.8001
SGB	1364.0	R23	-.0218	R13	.8013
SG1	1284.5	SG2	458.8	THA	174.59

ORBIT DETERMINATION ACCURACY

ST	528.2	SR	391.7	SS	485.0
CRT	.5858	CRS	.7158	CST	.9843
LSA	765.6	MSA	285.0	SSA	15.6
EL1	593.9	EL2	282.3	ALF	31.31

LAUNCH DATE OCT 12 1965 FLIGHT TIME 92.00 ARRIVAL DATE JAN 12 1966

HELIOCENTRIC CONIC DISTANCE 211.466

RL	149.29	LAL	.00	LOL	18.46	VL	23.845	GAL	8.64	AZL	88.49	HCA	84.20	SMA	109.73	ECC	.38671	INC	1.5123	V1	29.847
RP	107.56	LAP	1.50	LOP	102.66	VP	35.472	GAP	-22.72	AZP	89.85	TAL	165.78	TAP	249.98	RCA	67.30	APO	152.17	V2	35.231
RC	44.025	GL	4.75	GP	-6.81	ZAL	57.12	ZAP	12.61	ETS	145.02	ZAE	156.43	ETE	211.26	ZAC	34.80	ETC	140.00	CLP	10.64

PLANETOCENTRIC CONIC

C3	56.415	VHL	7.511	DLA	-9.85	RAL	322.30	RAD	6569.0	VEL	13.333	PTH	2.44	VHP	13.925	DPA	-30.19	RAP	296.49	ECC	1.9284

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 43 38	2161.96	-18.26	38.18	198.84	112.03	9 19 40	1562.0	-15.11	30.91
90.00	18 11 46	5426.73	28.12	249.52	206.24	86.56	19 42 13	4826.7	27.35	240.94
100.00	10 0 8	1915.20	-19.64	19.43	198.24	113.00	10 32 3	1315.2	-16.35	12.17
100.00	19 37 58	5148.72	29.61	228.95	206.13	85.73	21 3 47	4548.7	28.71	220.27
110.00	10 57 20	1736.06	-23.30	4.05	196.45	115.75	11 26 16	1136.1	-19.64	356.82
110.00	20 57 15	4900.62	33.62	209.67	205.68	83.40	22 18 56	4300.6	32.34	200.67

DIFFERENTIAL CORRECTIONS

TDE	-.5375	TRA	-1.6172	TC3	-.1491	BAU	.1253
RDE	-.4914	RRA	.3416	RC3	-.0731	FAU	.01720
FDE	.4727	FRA	.9779	FC3	-.2640	BSP	4050
BDE	.7283	BRA	1.6528	BC3	.1661	FSP	-199

MID-COURSE EXECUTION ACCURACY

SGT	1336.4	SGR	471.7	SG3	80.1
RRT	-.2425	RRF	.2483	RTF	-.8123
SGB	1417.2	R23	-.0262	R13	.8136
SG1	1341.9	SG2	455.8	THA	174.47

ORBIT DETERMINATION ACCURACY

ST	556.1	SR	383.2	SS	512.9
CRT	.5815	CRS	.7169	CST	.9831
LSA	799.0	MSA	283.6	SSA	15.7
EL1	613.3	EL2	282.6	ALF	28.38

LAUNCH DATE OCT 12 1965 FLIGHT TIME 94.00 ARRIVAL DATE JAN 14 1966

HELIOCENTRIC CONIC DISTANCE 218.151

RL	149.29	LAL	.00	LOL	18.46	VL	24.143	GAL	8.18	AZL	88.32	HCA	87.44	SMA	111.05	ECC	.36935	INC	1.6759	V1	29.847
RP	107.55	LAP	1.67	LOP	105.90	VP	35.679	GAP	-21.60	AZP	89.93	TAL	165.51	TAP	252.95	RCA	70.03	APO	152.07	V2	35.237
RC	43.015	GL	5.59	GP	-7.19	ZAL	56.75	ZAP	11.64	ETS	139.54	ZAE	157.82	ETE	216.74	ZAC	36.45	ETC	141.32	CLP	9.18

PLANETOCENTRIC CONIC

C3	51.425	VHL	7.171	DLA	-8.91	RAL	322.44	RAD	6568.9	VEL	13.145	PTH	2.40	VHP	13.309	DPA	-30.33	RAP	298.58	ECC	1.8463

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 36 45	2169.43	-18.45	38.64	197.61	111.87	9 12 54	1569.4	-15.32	31.36
90.00	18 19 47	5373.47	27.85	245.65	204.16	84.64	19 49 21	4773.5	26.81	237.13
100.00	9 53 44	1921.02	-19.79	19.79	197.02	112.87	10 25 45	1321.0	-16.52	12.52
100.00	19 45 28	5097.11	29.29	225.15	203.99	83.75	21 10 26	4497.1	28.12	216.55
110.00	10 52 5	1738.32	-23.36	4.20	195.29	115.69	11 21 4	1138.3	-19.71	356.96
110.00	21 3 37	4852.57	33.18	205.99	203.39	81.26	22 24 30	4252.6	31.62	197.11

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-.5400	TRA	-1.6168	TC3	-.1417	BAU	.1137	SGT	1391.8	SGR	470.7	SG3	87.4	ST	583.1	SR	373.1	SS	542.2
RDE	-.4557	RRA	.3363	RC3	-.0853	FAU	.01785	RRT	-.2652	RRF	.2731	RTF	-.8243	CRT	.5749	CRS	.7168	CST	.9817
FDE	.5029	FRA	1.0159	FC3	-.3005	BSP	4257	SGB	1469.3	R23	-.0298	R13	.8257	LSA	832.9	MSA	281.6	SSA	15.9
BDE	.7065	BRA	1.6514	BC3	.1654	FSP	-220	SG1	1398.1	SG2	451.8	THA	174.28	EL1	632.5	EL2	281.5	ALF	25.62

LAUNCH DATE OCT 12 1965 FLIGHT TIME 96.00 ARRIVAL DATE JAN 16 1966

HELIOCENTRIC CONIC DISTANCE 224.862

RL	149.29	LAL	.00	LOL	18.46	VL	24.421	GAL	7.75	AZL	88.16	HCA	90.68	SMA	112.32	ECC	.35289	INC	1.8387	V1	29.847
RP	107.53	LAP	1.84	LOP	109.14	VP	35.873	GAP	-20.53	AZP	90.02	TAL	165.29	TAP	255.97	RCA	72.68	APO	151.95	V2	35.242
RC	42.147	GL	6.51	GP	-7.62	ZAL	56.45	ZAP	10.82	ETS	132.94	ZAE	159.07	ETE	223.23	ZAC	38.12	ETC	142.49	CLP	7.70

PLANETOCENTRIC CONIC

C3	46.946	VHL	6.852	DLA	-7.93	RAL	322.49	RAD	6568.8	VEL	12.973	PTH	2.37	VHP	12.715	DPA	-30.48	RAP	300.66	ECC	1.7726

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 29 14	2178.27	-18.67	39.20	196.32	111.68	9 5 32	1578.3	-15.56	31.90
90.00	18 27 43	5319.13	27.44	241.72	202.00	82.71	19 56 22	4719.1	26.14	233.29
100.00	9 46 45	1928.20	-19.98	20.24	195.75	112.71	10 18 53	1328.2	-16.73	12.96
100.00	19 52 53	5044.43	28.84	221.30	201.78	81.77	21 16 57	4444.4	27.40	212.79
110.00	10 46 16	1741.85	-23.47	4.42	194.07	115.60	11 15 18	1141.8	-19.83	357.17
110.00	21 9 51	4803.54	32.61	202.27	201.04	79.13	22 29 55	4203.5	30.77	193.54

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-.5430	TRA	-1.6152	TC3	-.1315	BAU	.1034	SGT	1448.6	SGR	469.5	SG3	95.3	ST	611.2	SR	361.5	SS	573.5
RDE	-.4204	RRA	.3316	RC3	-.0992	FAU	.01857	RRT	-.2906	RRF	.3010	RTF	-.8356	CRT	.5671	CRS	.7155	CST	.9804
FDE	.5359	FRA	1.0560	FC3	-.3424	BSP	4469	SGB	1522.8	R23	-.0341	R13	.8371	LSA	869.0	MSA	278.7	SSA	16.0
BDE	.6867	BRA	1.6489	BC3	.1647	FSP	-243	SG1	1455.7	SG2	447.1	THA	174.06	EL1	653.2	EL2	278.6	ALF	22.95

LAUNCH DATE OCT 12 1965 FLIGHT TIME 98.00 ARRIVAL DATE JAN 18 1966

HELIOCENTRIC CONIC DISTANCE 231.597

RL	149.29	LAL	.00	LOL	18.46	VL	24.680	GAL	7.32	AZL	88.00	HCA	93.92	SMA	113.54	ECC	.38731	INC	2.0019	V1	29.847
RP	107.51	LAP	2.00	LOP	112.38	VP	36.054	GAP	-19.49	AZP	90.14	TAL	165.12	TAP	259.04	RCA	75.24	APO	151.83	V2	35.247
RC	41.430	GL	7.50	GP	-8.09	ZAL	56.24	ZAP	10.19	ETS	125.16	ZAE	160.08	ETE	230.78	ZAC	39.83	ETC	143.52	CLP	6.21

PLANETOCENTRIC CONIC

C3	42.933	VHL	6.552	DLA	-6.90	RAL	322.46	RAD	6568.6	VEL	12.818	PTH	2.33	VHP	12.142	DPA	-30.66	RAP	302.75	ECC	1.7066

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 21 4	2188.80	-18.93	39.86	194.97	111.46	8 57 33	1588.8	-15.85	32.53
90.00	18 35 35	5263.67	26.90	237.75	199.77	80.79	20 3 19	4663.7	25.35	229.43
100.00	9 39 7	1937.01	-20.21	20.80	194.43	112.51	10 11 24	1337.0	-16.98	13.49
100.00	20 0 14	4990.69	28.25	217.42	199.51	79.81	21 23 24	4390.7	26.56	209.02
110.00	10 39 50	1746.92	-23.62	4.74	192.79	115.46	11 8 56	1146.9	-19.99	357.47
110.00	21 16 0	4753.55	31.91	198.54	198.64	77.03	22 35 14	4153.5	29.79	189.97

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-.5466	TRA	-1.6126	TC3	-.1180	BAU	.0945	SGT	1506.6	SGR	468.5	SG3	104.0	ST	640.3	SR	348.0	SS	607.1
RDE	-.3855	RRA	.3275	RC3	-.1150	FAU	.01936	RRT	-.3192	RRF	.3326	RTF	-.8463	CRT	.5575	CRS	.7124	CST	.9790
FDE	.5722	FRA	1.0986	FC3	-.3904	BSP	4675	SGB	1577.8	R23	-.0391	R13	.8479	LSA	907.7	MSA	274.9	SSA	16.1
BDE	.6688	BRA	1.6455	BC3	.1647	FSP	-268	SG1	1514.7	SG2	441.6	THA	173.80	EL1	675.4	EL2	273.9	ALF	20.35

LAUNCH DATE OCT 12 1965 FLIGHT TIME 100.00 ARRIVAL DATE JAN 20 1966

HELIOCENTRIC CONIC DISTANCE 238.351

RL	149.29	LAL	.00	LOL	18.46	VL	24.920	GAL	6.92	AZL	87.83	HCA	97.16	SMA	114.71	ECC	.32260	INC	2.1663	V1	29.847
RP	107.50	LAP	2.15	LOP	115.63	VP	36.223	GAP	-18.48	AZP	90.27	TAL	164.99	TAP	262.16	RCA	77.70	APO	151.71	V2	35.251
RC	40.873	GL	8.57	GP	-8.62	ZAL	56.11	ZAP	9.81	ETS	116.31	ZAE	160.75	ETE	239.29	ZAC	41.55	ETC	144.44	CLP	4.71

PLANETOCENTRIC CONIC

C3	39.345	VHL	6.273	DLA	-5.81	RAL	322.33	RAD	6568.5	VEL	12.677	PTH	2.30	VHP	11.591	DPA	-30.86	RAP	304.83	ECC	1.6475

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 12 12	2201.33	-19.24	40.64	193.59	111.18	8 48 53	1601.3	-16.20	33.30
90.00	18 43 27	5207.09	26.22	233.75	197.50	78.90	20 10 14	4607.1	24.42	225.54
100.00	9 30 47	1947.79	-20.49	21.47	193.06	112.25	10 3 15	1347.8	-17.29	14.14
100.00	20 7 32	4935.86	27.53	213.50	197.20	77.87	21 29 48	4335.9	25.58	205.24
110.00	10 32 44	1753.84	-23.82	5.17	191.48	115.27	11 1 58	1153.8	-20.22	357.88
110.00	21 22 5	4702.58	31.07	194.81	196.22	74.96	22 40 27	4102.6	28.69	186.41

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-.5505	TRA	-1.6084	TC3	-.1005	BAU	.0876	SGT	1565.1	SGR	467.9	SG3	113.6	ST	670.2	SR	332.6	SS	643.2
RDE	-.3507	RRA	.3242	RC3	-.1328	FAU	.02023	RRT	-.3516	RRF	.3681	RTF	-.8564	CRT	.5453	CRS	.7068	CST	.9777
FDE	.6124	FRA	1.1439	FC3	-.4451	BSP	4893	SGB	1633.5	R23	-.0446	R13	.8582	LSA	948.7	MSA	270.3	SSA	16.2
BDE	.6527	BRA	1.6407	BC3	.1665	FSP	-296	SG1	1574.4	SG2	435.5	THA	173.50	EL1	698.7	EL2	267.4	ALF	17.84

LAUNCH DATE OCT 12 1965 FLIGHT TIME 102.00 ARRIVAL DATE JAN 22 1966

DISTANCE 245.120

HELIOCENTRIC CONIC

RL 149.29 LAL .00 LOL 18.46 VL 25.143 GAL 6.53 AZL 87.67 HCA 100.41 SMA 115.82 ECC .30874 INC 2.3331 VI 29.847
RP 107.49 LAP 2.29 LOP 118.88 VP 36.379 GAP -17.52 AZP 90.42 TAL 164.91 TAP 265.32 RCA 80.07 APO 151.58 V2 35.254
RC 40.482 GL 9.74 GP -9.21 ZAL 56.08 ZAP 9.74 ETS 106.76 ZAE 160.98 ETE 248.46 ZAC 43.31 ETC 145.24 CLP 3.19

PLANETOCENTRIC CONIC

C3 36.145 VHL 6.012 DLA -4.65 RAL 322.11 RAD 6568.4 VEL 12.550 PTH 2.27 VHP 11.060 DPA -31.10 RAP 306.92 ECC 1.5949

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 2 34	2216.21	-19.61	41.58	192.18	110.85	8 39 30	1616.2	-16.60	34.20
90.00	18 51 20	5149.35	25.40	229.72	195.21	77.04	20 17 9	4549.3	23.36	221.64
100.00	9 21 44	1960.86	-20.82	22.30	191.67	111.94	9 54 24	1360.9	-17.66	14.93
100.00	20 14 52	4879.93	26.67	209.57	194.87	75.97	21 36 11	4279.9	24.48	201.45
110.00	10 24 58	1762.89	-24.08	5.74	190.14	115.03	10 54 21	1162.9	-20.51	358.42
110.00	21 28 7	4650.66	30.09	191.08	193.79	72.96	22 45 38	4050.7	27.46	182.87

DIFFERENTIAL CORRECTIONS

TDE -.5558 TRA-1.6030 TC3 -.0791 BAU .0832
RDE -.3160 RRA .3220 RC3 -.1528 FAU .02119
FDE .6573 FRA 1.1920 FC3 -.5076 BSP 5106
BDE .6393 BRA 1.6350 BC3 .1721 FSP -327

MID-COURSE EXECUTION ACCURACY

SGT 1624.4 SGR 468.3 SG3 124.1
RRT -.3878 RRF .4080 RTF -.8658
SGB 1690.6 R23 -.0511 R13 .8679
SG1 1635.3 SG2 428.7 THA 173.15

ORBIT DETERMINATION ACCURACY

ST 701.4 SR 315.0 SS 682.2
CRT .5297 CRS .6979 CST .9765
LSA 993.1 MSA 264.9 SSA 16.3
EL1 724.0 EL2 258.9 ALF 15.40

LAUNCH DATE OCT 12 1965 FLIGHT TIME 104.00 ARRIVAL DATE JAN 24 1966

DISTANCE 251.899

HELIOCENTRIC CONIC

RL 149.29 LAL .00 LOL 18.46 VL 25.350 GAL 6.16 AZL 87.50 HCA 103.65 SMA 116.89 ECC .29570 INC 2.5035 VI 29.847
RP 107.48 LAP 2.43 LOP 122.12 VP 36.525 GAP -16.59 AZP 90.59 TAL 164.88 TAP 268.53 RCA 82.33 APO 151.46 V2 35.256
RC 40.263 GL 11.00 GP -9.86 ZAL 56.14 ZAP 10.00 ETS 97.14 ZAE 160.72 ETE 257.78 ZAC 45.08 ETC 145.93 CLP 1.64

PLANETOCENTRIC CONIC

C3 33.302 VHL 5.771 DLA -3.43 RAL 321.80 RAD 6568.3 VEL 12.437 PTH 2.25 VHP 10.550 DPA -31.39 RAP 309.00 ECC 1.5481

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 52 8	2233.79	-20.03	42.70	190.76	110.44	8 29 22	1633.8	-17.07	35.28
90.00	18 59 17	5090.39	24.43	225.67	192.90	75.23	20 24 8	4490.4	22.17	217.73
100.00	9 11 53	1976.56	-21.22	23.30	190.27	111.56	9 44 49	1376.6	-18.11	15.89
100.00	20 22 14	4822.86	25.66	205.62	192.53	74.12	21 42 37	4222.9	23.24	197.66
110.00	10 16 27	1774.41	-24.41	6.48	188.79	114.71	10 46 2	1174.4	-20.87	359.12
110.00	21 34 9	4597.77	28.97	187.37	191.36	71.02	22 50 47	3997.8	26.11	179.36

DIFFERENTIAL CORRECTIONS

TDE -.5616 TRA-1.5964 TC3 -.0532 BAU .0816
RDE -.2810 RRA .3212 RC3 -.1754 FAU .02225
FDE .7076 FRA 1.2434 FC3 -.5784 BSP 5325
BDE .6280 BRA 1.6283 BC3 .1833 FSP -361

MID-COURSE EXECUTION ACCURACY

SGT 1684.0 SGR 470.0 SG3 135.8
RRT -.4286 RRF .4526 RTF -.8747
SGB 1748.3 R23 -.0582 R13 .8770
SG1 1696.8 SG2 421.4 THA 172.73

ORBIT DETERMINATION ACCURACY

ST 733.4 SR 295.1 SS 724.4
CRT .5081 CRS .6837 CST .9753
LSA 1040.4 MSA 258.9 SSA 16.3
EL1 750.5 EL2 248.3 ALF 13.00

LAUNCH DATE OCT 12 1965 FLIGHT TIME 106.00 ARRIVAL DATE JAN 26 1966

DISTANCE 258.686

HELIOCENTRIC CONIC

RL 149.29 LAL .00 LOL 18.46 VL 25.542 GAL 5.81 AZL 87.32 HCA 106.89 SMA 117.90 ECC .28346 INC 2.6786 VI 29.847
RP 107.48 LAP 2.56 LOP 125.37 VP 36.660 GAP -15.69 AZP 90.78 TAL 164.90 TAP 271.79 RCA 84.48 APO 151.33 V2 35.258
RC 40.219 GL 12.36 GP -10.60 ZAL 56.29 ZAP 10.60 ETS 88.09 ZAE 159.95 ETE 266.67 ZAC 46.87 ETC 146.53 CLP .07

PLANETOCENTRIC CONIC

C3 30.786 VHL 5.548 DLA -2.12 RAL 321.40 RAD 6568.2 VEL 12.335 PTH 2.22 VHP 10.060 DPA -31.74 RAP 311.08 ECC 1.5067

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 40 51	2254.47	-20.52	44.02	189.33	109.96	8 18 25	1654.5	-17.61	36.55
90.00	19 7 23	5030.17	23.33	221.61	190.62	73.48	20 31 13	4430.2	20.84	213.81
100.00	9 1 12	1995.26	-21.68	24.49	188.86	111.10	9 34 27	1395.3	-18.62	17.04
100.00	20 29 43	4764.61	24.52	201.67	190.21	72.35	21 49 7	4164.6	21.87	193.88
110.00	10 7 10	1788.74	-24.82	7.39	187.44	114.30	10 36 59	1188.7	-21.32	359.98
110.00	21 40 14	4543.90	27.73	183.67	188.97	69.15	22 55 58	3943.9	24.64	175.86

DIFFERENTIAL CORRECTIONS

TDE -.5690 TRA-1.5877 TC3 -.0221 BAU .0831
RDE -.2455 RRA .3219 RC3 -.2007 FAU .02341
FDE .7645 FRA 1.2984 FC3 -.6582 BSP 5559
BDE .6197 BRA 1.6200 BC3 .2019 FSP -399

MID-COURSE EXECUTION ACCURACY

SGT 1742.9 SGR 473.8 SG3 148.6
RRT -.4739 RRF .5018 RTF -.8833
SGB 1806.1 R23 -.0661 R13 .8859
SG1 1758.1 SG2 413.6 THA 172.23

ORBIT DETERMINATION ACCURACY

ST 766.5 SR 272.5 SS 770.5
CRT .4780 CRS .6616 CST .9743
LSA 1091.6 MSA 252.3 SSA 16.3
EL1 778.6 EL2 235.6 ALF 10.63

LAUNCH DATE OCT 12 1965 FLIGHT TIME 108.00 ARRIVAL DATE JAN 28 1966

DISTANCE 265.477

HELIOCENTRIC CONIC

RL 149.29 LAL .00 LOL 18.46 VL 25.719 GAL 5.47 AZL 87.14 HCA 110.14 SMA 118.87 ECC .27200 INC 2.8599 VI 29.847
RP 107.48 LAP 2.68 LOP 128.62 VP 36.785 GAP -14.82 AZP 90.99 TAL 164.96 TAP 275.09 RCA 86.53 APO 151.20 V2 35.259
RC 40.350 GL 13.83 GP -11.43 ZAL 56.54 ZAP 11.53 ETS 80.08 ZAE 158.72 ETE 274.67 ZAC 48.68 ETC 147.02 CLP -1.54

PLANETOCENTRIC CONIC

C3 28.571 VHL 5.345 DLA -.74 RAL 320.91 RAD 6568.1 VEL 12.245 PTH 2.20 VHP 9.591 DPA -32.17 RAP 313.15 ECC 1.4702

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 28 37	2278.63	-21.07	45.58	187.93	109.37	8 6 36	1678.6	-18.24	38.05
90.00	19 15 40	4968.62	22.08	217.53	188.36	71.80	20 38 29	4368.6	19.39	209.89
100.00	8 49 37	2017.35	-22.22	25.92	187.48	110.53	9 23 15	1417.4	-19.22	18.40
100.00	20 37 21	4705.12	23.23	197.72	187.93	70.64	21 55 46	4105.1	20.38	190.09
110.00	9 57 4	1806.21	-25.30	8.52	186.11	113.79	10 27 11	1206.2	-21.87	1.05
110.00	21 46 23	4489.04	26.34	180.01	186.62	67.38	23 1 12	3889.0	23.04	172.40

DIFFERENTIAL CORRECTIONS

TDE -.5767 TRA-1.5761 TC3 .0152 BAU .0877
RDE -.2092 RRA .3244 RC3 -.2290 FAU .02471
FDE .8282 FRA 1.3564 FC3 -.7487 BSP 5824
BDE .6134 BRA 1.6092 BC3 .2295 FSP -443

MID-COURSE EXECUTION ACCURACY

SGT 1799.2 SGR 480.8 SG3 162.6
RRT -.5236 RRF .5553 RTF -.8913
SGB 1862.3 R23 -.0746 R13 .8943
SG1 1817.7 SG2 405.4 THA 171.61

ORBIT DETERMINATION ACCURACY

ST 799.4 SR 247.4 SS 819.9
CRT .4334 CRS .6265 CST .9734
LSA 1145.4 MSA 245.4 SSA 16.2
EL1 807.1 EL2 220.8 ALF 8.26

LAUNCH DATE OCT 12 1965 FLIGHT TIME 110.00 ARRIVAL DATE JAN 30 1966

HELIOCENTRIC CONIC DISTANCE 272.268

RL	149.29	LAL	.00	LOL	18.46	VL	25.884	GAL	5.15	AZL	86.95	HCA	113.38	SMA	119.78	ECC	.26129	INC	3.0488	V1	29.847
RP	107.48	LAP	2.80	LOP	131.87	VP	36.900	GAP	-13.98	AZP	91.21	TAL	165.06	TAP	278.44	RCA	88.48	APO	151.07	V2	35.259
RC	40.657	GL	15.41	GP	-12.36	ZAL	56.90	ZAP	12.76	ETS	73.32	ZAE	157.11	ETE	281.52	ZAC	50.51	ETC	147.41	CLP	-3.18

PLANETOCENTRIC CONIC

C3	26.637	VHL	5.161	DLA	.73	RAL	320.32	RAD	6568.1	VEL	12.166	PTH	2.18	VHP	9.142	DPA	-32.68	RAP	315.24	ECC	1.4384

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 15 24	2306.71	-21.69	47.40	186.55	108.66	7 53 51	1706.7	-18.94	39.81
90.00	19 24 13	4905.63	20.68	213.44	186.15	70.22	20 45 59	4305.6	17.80	205.95
100.00	8 37 5	2043.24	-22.83	27.60	186.12	109.84	9 11 8	1443.2	-19.92	20.01
100.00	20 45 13	4644.33	21.81	193.77	185.70	69.03	22 2 38	4044.3	18.76	186.30
110.00	9 46 6	1827.20	-25.87	9.88	184.81	113.16	10 16 33	1227.2	-22.51	2.34
110.00	21 52 41	4433.14	24.83	176.37	184.33	65.71	23 6 34	3833.1	21.34	168.96

DIFFERENTIAL CORRECTIONS

TDE	-.5883	TRA	-1.5654	TC3	.0545	BAU	.0947
RDE	-.1714	RRA	.3292	RC3	-.2603	FAU	.02609
FDE	.9016	FRA	1.4194	FC3	-.8480	BSP	6040
BDE	.6128	BRA	1.5996	BC3	.2659	FSP	-490

MID-COURSE EXECUTION ACCURACY

SGT	1857.5	SGR	492.0	SG3	178.1		
RRT	-.5758	RRF	.6120	RTF	-.8986		
SGB	1921.5	R23	-.0853	R13	.9020		
SG1	1879.9	SG2	397.4	THA	170.92		

ORBIT DETERMINATION ACCURACY

ST	835.7	SR	219.7	SS	874.6		
CRT	.3652	CRS	.5687	CST	.9729		
LSA	1206.1	MSA	238.0	SSA	16.1		
EL1	839.8	EL2	203.6	ALF	5.83		

LAUNCH DATE OCT 12 1965 FLIGHT TIME 112.00 ARRIVAL DATE FEB 1 1966

HELIOCENTRIC CONIC DISTANCE 279.058

RL	149.29	LAL	.00	LOL	18.46	VL	26.035	GAL	4.85	AZL	86.75	HCA	116.62	SMA	120.63	ECC	.25131	INC	3.2473	V1	29.847
RP	107.48	LAP	2.90	LOP	135.12	VP	37.006	GAP	-13.17	AZP	91.46	TAL	165.20	TAP	281.83	RCA	90.32	APO	150.95	V2	35.258
RC	41.135	GL	17.10	GP	-13.42	ZAL	57.36	ZAP	14.26	ETS	67.80	ZAE	155.20	ETE	287.17	ZAC	52.36	ETC	147.71	CLP	-4.86

PLANETOCENTRIC CONIC

C3	24.964	VHL	4.996	DLA	2.29	RAL	319.64	RAD	6568.0	VEL	12.097	PTH	2.17	VHP	8.714	DPA	-33.30	RAP	317.32	ECC	1.4109

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 1 6	2339.18	-22.38	49.53	185.23	107.81	7 40 5	1739.2	-19.74	41.86
90.00	19 33 7	4841.10	19.14	209.33	184.00	68.72	20 53 48	4241.1	16.08	201.99
100.00	8 23 30	2073.37	-23.51	29.58	184.82	109.01	8 58 4	1473.4	-20.70	21.91
100.00	20 53 24	4582.15	20.24	189.82	183.53	67.52	22 9 46	3982.1	17.02	182.51
110.00	9 34 12	1852.10	-26.53	11.52	183.57	112.40	10 5 4	1252.1	-23.25	3.89
110.00	21 59 12	4376.18	23.18	172.76	182.11	64.15	23 12 8	3776.2	19.51	165.55

DIFFERENTIAL CORRECTIONS

TDE	-.6026	TRA	-1.5536	TC3	.0975	BAU	.1037
RDE	-.1315	RRA	.3368	RC3	-.2950	FAU	.02759
FDE	.9859	FRA	1.4867	FC3	-.9567	BSP	6251
BDE	.6167	BRA	1.5896	BC3	.3107	FSP	-541

MID-COURSE EXECUTION ACCURACY

SGT	1914.6	SGR	508.9	SG3	195.2		
RRT	-.6298	RRF	.6704	RTF	-.9055		
SGB	1981.1	R23	-.0972	R13	.9094		
SG1	1942.4	SG2	389.7	THA	170.09		

ORBIT DETERMINATION ACCURACY

ST	873.8	SR	190.4	SS	934.6		
CRT	.2533	CRS	.4690	CST	.9727		
LSA	1272.8	MSA	230.6	SSA	16.0		
EL1	875.2	EL2	183.9	ALF	3.31		

LAUNCH DATE OCT 12 1965 FLIGHT TIME 114.00 ARRIVAL DATE FEB 3 1966

HELIOCENTRIC CONIC DISTANCE 285.842

RL	149.29	LAL	.00	LOL	18.46	VL	26.175	GAL	4.56	AZL	86.54	HCA	119.87	SMA	121.44	ECC	.24202	INC	3.4573	V1	29.847
RP	107.48	LAP	3.00	LOP	138.37	VP	37.103	GAP	-12.38	AZP	91.72	TAL	165.39	TAP	285.25	RCA	92.05	APO	150.83	V2	35.257
RC	41.780	GL	18.93	GP	-14.62	ZAL	57.93	ZAP	16.01	ETS	63.38	ZAE	153.09	ETE	291.68	ZAC	54.23	ETC	147.92	CLP	-6.59

PLANETOCENTRIC CONIC

C3	23.538	VHL	4.852	DLA	3.96	RAL	318.88	RAD	6568.0	VEL	12.038	PTH	2.15	VHP	8.308	DPA	-34.04	RAP	319.42	ECC	1.3874

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 45 37	2376.54	-23.14	52.01	183.98	106.79	7 25 14	1776.5	-20.62	44.24
90.00	19 42 29	4774.88	17.45	205.20	181.95	67.34	21 2 4	4174.9	14.23	198.01
100.00	8 8 49	2108.20	-24.26	31.89	183.60	108.02	8 43 57	1508.2	-21.57	24.13
100.00	21 1 58	4518.45	18.53	185.86	181.46	66.12	22 17 17	3918.5	15.15	178.70
110.00	9 21 18	1881.30	-27.27	13.47	182.40	111.46	9 52 40	1281.3	-24.11	5.73
110.00	22 5 58	4318.11	21.41	169.19	179.99	62.70	23 17 56	3718.1	17.58	162.15

DIFFERENTIAL CORRECTIONS

TDE	-.6204	TRA	-1.5405	TC3	.1421	BAU	.1139
RDE	-.0886	RRA	.3475	RC3	-.3329	FAU	.02917
FDE	1.0832	FRA	1.5585	FC3	-1.0730	BSP	6458
BDE	.6267	BRA	1.5792	BC3	.3620	FSP	-597

MID-COURSE EXECUTION ACCURACY

SGT	1970.2	SGR	533.4	SG3	213.8		
RRT	-.6833	RRF	.7283	RTF	-.9118		
SGB	2041.1	R23	-.1107	R13	.9164		
SG1	2004.9	SG2	382.7	THA	169.12		

ORBIT DETERMINATION ACCURACY

ST	914.5	SR	162.1	SS	1000.8		
CRT	.0615	CRS	.2887	CST	.9728		
LSA	1346.8	MSA	223.3	SSA	15.7		
EL1	914.5	EL2	161.8	ALF	.64		

LAUNCH DATE OCT 12 1965 FLIGHT TIME 116.00 ARRIVAL DATE FEB 5 1966

HELIOCENTRIC CONIC DISTANCE 292.619

RL	149.29	LAL	.00	LOL	18.46	VL	26.304	GAL	4.29	AZL	86.32	HCA	123.11	SMA	122.19	ECC	.23340	INC	3.6815	V1	29.847
RP	107.49	LAP	3.08	LOP	141.62	VP	37.192	GAP	-11.62	AZP	92.01	TAL	165.60	TAP	288.71	RCA	93.67	APO	150.71	V2	35.255
RC	42.583	GL	20.87	GP	-15.98	ZAL	58.61	ZAP	18.00	ETS	59.91	ZAE	150.83	ETE	295.18	ZAC	56.14	ETC	148.04	CLP	-8.37

PLANETOCENTRIC CONIC

C3	22.347	VHL	4.727	DLA	5.72	RAL	318.02	RAD	6567.9	VEL	11.989	PTH	2.14	VHP	7.924	DPA	-34.94	RAP	321.54	ECC	1.3678

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 28 51	2419.36	-23.95	54.88	182.84	105.57	7 9 10	1819.4	-21.59	47.01
90.00	19 52 26	4706.77	15.62	201.04	180.00	66.08	21 10 52	4106.8	12.25	193.98
100.00	7 52 54	2148.26	-25.08	34.59	182.48	106.82	8 28 42	1548.3	-22.54	26.71
100.00	21 11 4	4453.10	16.68	181.89	179.49	64.83	22 25 17	3853.1	13.16	174.87
110.00	9 7 21	1915.27	-28.09	15.77	181.34	110.33	9 39 16	1315.3	-25.07	7.90
110.00	22 13 6	4258.86	19.52	165.63	177.98	61.37	23 24 5	3658.9	15.55	158.76

DIFFERENTIAL CORRECTIONS

TDE	-.6408	TRA	-1.5262	TC3	.1898	BAU	.1254
RDE	-.0418	RRA	.3620	RC3	-.3745	FAU	.03088
FDE	1.1945	FRA	1.6346	FC3	-1.1965	BSP	6665
BDE	.6421	BRA	1.5685	BC3	.4198	FSP	-659

MID-COURSE EXECUTION ACCURACY

SGT	2022.7	SGR	567.8	SG3	234.1		
RRT	-.7349	RRF	.7835	RTF	-.9177		
SGB	2100.9	R23	-.1250	R13	.9232		
SG1	2066.8	SG2	376.8	THA	167.94		

ORBIT DETERMINATION ACCURACY

ST	956.1	SR	142.0	SS	1072.5		
CRT	-.2542	CRS	-.0274	CST	.9732		
LSA	1427.4	MSA	216.6	SSA	15.3		
EL1	956.8	EL2	137.3	ALF	177.79		

LAUNCH DATE OCT 12 1965 FLIGHT TIME 118.00 ARRIVAL DATE FEB 7 1966

HELIOCENTRIC CONIC DISTANCE 299.387

RL 149.29 LAL .00 LOL 18.46 VL 26.422 GAL 4.03 AZL 86.08 HCA 126.35 SMA 122.90 ECC .22543 INC 3.9228 V1 29.847
RP 107.50 LAP 3.16 LOP 144.87 VP 37.273 GAP -10.89 AZP 92.33 TAL 165.85 TAP 292.20 RCA 95.19 APO 150.60 V2 35.252
RC 43.538 GL 22.95 GP -17.55 ZAL 59.40 ZAP 20.22 ETS 57.22 ZAE 148.47 ETE 297.78 ZAC 58.08 ETC 148.06 CLP -10.22

PLANETOCENTRIC CONIC

C3 21.383 VHL 4.624 DLA 7.60 RAL 317.08 RAD 6567.9 VEL 11.948 PTH 2.13 VHP 7.563 DPA -36.02 RAP 323.69 ECC 1.3519

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 10 39	2468.31	-24.81	58.22	181.81	184.11	6 51 47	1868.3	-22.62	50.23
90.00	20 3 7	4636.52	13.63	196.84	178.18	64.94	21 20 23	4036.5	10.15	189.90
100.00	7 35 39	2194.16	-25.95	37.72	181.48	105.39	8 12 13	1594.2	-23.58	29.72
100.00	21 20 48	4385.89	14.70	177.89	177.65	63.67	22 33 54	3785.9	11.04	171.00
110.00	8 52 14	1954.47	-28.99	18.46	180.42	108.96	9 24 49	1354.5	-26.13	10.45
110.00	22 20 42	4198.35	17.51	162.09	176.09	60.16	23 30 40	3598.3	13.41	155.38

DIFFERENTIAL CORRECTIONS
TDE -.6653 TRA-1.5107 TC3 .2372 BAU .1377
RDE .0106 RRA .3810 RC3 -.4194 FAU .03267
FDE 1.3232 FRA 1.7145 FC3-1.3226 BSP 6874
BDE .6654 BRA 1.5580 BC3 .4819 FSP -726

MID-COURSE EXECUTION ACCURACY
SGT 2072.2 SGR 614.4 SG3 256.0
RRT -.7819 RRF .8333 RTF -.9231
SGB 2161.4 R23 -.1401 R13 .9298
SG1 2129.0 SG2 372.8 THA 166.53

ORBIT DETERMINATION ACCURACY
ST 1000.3 SR 144.0 SS 1151.1
CRT -.6382 CRS -.4493 CST .9739
LSA 1517.1 MSA 210.4 SSA 14.7
EL1 1004.5 EL2 110.4 ALF 174.69

LAUNCH DATE OCT 12 1965 FLIGHT TIME 120.00 ARRIVAL DATE FEB 9 1966

HELIOCENTRIC CONIC DISTANCE 306.142

RL 149.29 LAL .00 LOL 18.46 VL 26.531 GAL 3.80 AZL 85.81 HCA 129.59 SMA 123.56 ECC .21808 INC 4.1850 V1 29.847
RP 107.51 LAP 3.22 LOP 148.12 VP 37.347 GAP -10.18 AZP 92.67 TAL 166.12 TAP 295.71 RCA 96.61 APO 150.50 V2 35.249
RC 44.633 GL 25.16 GP -19.34 ZAL 60.29 ZAP 22.70 ETS 55.16 ZAE 146.03 ETE 299.61 ZAC 60.08 ETC 147.98 CLP -12.13

PLANETOCENTRIC CONIC

C3 20.645 VHL 4.544 DLA 9.60 RAL 316.05 RAD 6567.8 VEL 11.917 PTH 2.12 VHP 7.228 DPA -37.31 RAP 325.90 ECC 1.3398

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 50 49	2524.18	-25.68	62.08	180.93	102.36	6 32 53	1924.2	-23.72	53.96
90.00	20 14 44	4563.77	11.50	192.57	176.51	63.94	21 30 48	3963.8	7.90	185.73
100.00	7 16 53	2246.62	-26.84	41.36	180.63	103.67	7 54 19	1646.6	-24.70	33.22
100.00	21 31 22	4316.57	12.56	173.84	175.97	62.65	22 43 18	3716.6	8.80	167.07
110.00	8 35 51	1999.49	-29.95	21.62	179.65	107.31	9 9 10	1399.5	-27.29	13.44
110.00	22 28 53	4136.46	15.38	158.56	174.35	59.09	23 37 49	3536.5	11.17	151.99

DIFFERENTIAL CORRECTIONS
TDE -.6915 TRA-1.4915 TC3 .2871 BAU .1515
RDE .0703 RRA .4051 RC3 -.4679 FAU .03456
FDE 1.4694 FRA 1.7956 FC3-1.4492 BSP 7141
BDE .6950 BRA 1.5456 BC3 .5490 FSP -801

MID-COURSE EXECUTION ACCURACY
SGT 2113.5 SGR 676.1 SG3 279.2
RRT -.8234 RRF .8761 RTF -.9283
SGB 2219.0 R23 -.1540 R13 .9364
SG1 2187.8 SG2 370.6 THA 164.80

ORBIT DETERMINATION ACCURACY
ST 1043.0 SR 179.4 SS 1234.8
CRT -.8889 CRS -.7662 CST .9748
LSA 1613.2 MSA 205.3 SSA 14.0
EL1 1055.2 EL2 81.2 ALF 171.26

LAUNCH DATE OCT 12 1965 FLIGHT TIME 122.00 ARRIVAL DATE FEB 11 1966

HELIOCENTRIC CONIC DISTANCE 312.884

RL 149.29 LAL .00 LOL 18.46 VL 26.630 GAL 3.57 AZL 85.53 HCA 132.83 SMA 124.17 ECC .21131 INC 4.4730 V1 29.847
RP 107.52 LAP 3.28 LOP 151.37 VP 37.414 GAP -9.49 AZP 93.04 TAL 166.42 TAP 299.25 RCA 97.93 APO 150.40 V2 35.244
RC 45.858 GL 27.51 GP -21.39 ZAL 61.30 ZAP 25.44 ETS 53.61 ZAE 143.51 ETE 300.76 ZAC 62.14 ETC 147.82 CLP -14.11

PLANETOCENTRIC CONIC

C3 20.137 VHL 4.487 DLA 11.71 RAL 314.94 RAD 6567.8 VEL 11.896 PTH 2.11 VHP 6.921 DPA -38.86 RAP 328.19 ECC 1.3314

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 29 6	2588.01	-26.53	66.56	180.23	100.28	6 12 14	1988.0	-24.84	58.29
90.00	20 27 35	4488.04	9.20	188.19	175.04	63.10	21 42 23	3888.0	5.52	181.45
100.00	6 56 23	2306.53	-27.74	45.59	179.97	101.62	7 34 49	1706.5	-25.85	37.30
100.00	21 42 59	4244.75	10.28	169.73	174.47	61.78	22 53 44	3644.7	6.43	163.06
110.00	8 18 3	2050.98	-30.93	25.31	179.09	105.34	8 52 14	1451.0	-28.52	16.94
110.00	22 37 48	4073.06	13.13	155.02	172.79	58.15	23 45 41	3473.1	8.82	148.57

DIFFERENTIAL CORRECTIONS
TDE -.7257 TRA-1.4738 TC3 .3279 BAU .1652
RDE .1403 RRA .4358 RC3 -.5185 FAU .03636
FDE 1.6392 FRA 1.8791 FC3-1.5634 BSP 7334
BDE .7391 BRA 1.5369 BC3 .6135 FSP -876

MID-COURSE EXECUTION ACCURACY
SGT 2153.7 SGR 756.0 SG3 303.7
RRT -.8568 RRF .9108 RTF -.9328
SGB 2282.5 R23 -.1683 R13 .9427
SG1 2251.8 SG2 372.8 THA 162.77

ORBIT DETERMINATION ACCURACY
ST 1091.3 SR 247.7 SS 1326.7
CRT -.9781 CRS -.9113 CST .9761
LSA 1724.0 MSA 200.9 SSA 13.2
EL1 1117.9 EL2 50.3 ALF 167.46

LAUNCH DATE OCT 12 1965 FLIGHT TIME 124.00 ARRIVAL DATE FEB 13 1966

HELIOCENTRIC CONIC DISTANCE 319.610

RL 149.29 LAL .00 LOL 18.46 VL 26.721 GAL 3.37 AZL 85.21 HCA 136.06 SMA 124.73 ECC .20511 INC 4.7927 V1 29.847
RP 107.54 LAP 3.32 LOP 154.62 VP 37.473 GAP -8.82 AZP 93.46 TAL 166.73 TAP 302.79 RCA 99.15 APO 150.32 V2 35.239
RC 47.202 GL 30.00 GP -23.76 ZAL 62.41 ZAP 28.48 ETS 52.48 ZAE 140.88 ETE 301.32 ZAC 64.28 ETC 147.55 CLP -16.17

PLANETOCENTRIC CONIC

C3 19.870 VHL 4.458 DLA 13.94 RAL 313.74 RAD 6567.8 VEL 11.885 PTH 2.11 VHP 6.646 DPA -40.69 RAP 330.60 ECC 1.3270

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 5 8	2661.14	-27.31	71.77	179.74	97.78	5 49 30	2061.1	-25.96	63.36
90.00	20 42 0	4408.56	6.72	183.67	173.80	62.43	21 55 28	3808.6	2.97	176.99
100.00	6 33 51	2375.04	-28.58	50.51	179.53	99.16	7 13 26	1775.0	-27.02	42.05
100.00	21 55 58	4169.90	7.84	165.51	173.19	61.06	23 5 28	3569.9	3.93	158.92
110.00	7 58 38	2109.77	-31.91	29.61	178.77	102.96	8 33 48	1509.8	-29.80	21.04
110.00	22 47 41	4007.93	10.76	151.46	171.43	57.36	23 54 29	3407.9	6.38	145.11

DIFFERENTIAL CORRECTIONS
TDE -.7645 TRA-1.4552 TC3 .3617 BAU .1794
RDE .2237 RRA .4739 RC3 -.5704 FAU .03805
FDE 1.8309 FRA 1.9607 FC3-1.6578 BSP 7552
BDE .7966 BRA 1.5305 BC3 .6754 FSP -955

MID-COURSE EXECUTION ACCURACY
SGT 2187.2 SGR 857.4 SG3 328.6
RRT -.8831 RRF .9377 RTF -.9369
SGB 2349.3 R23 -.1802 R13 .9490
SG1 2318.4 SG2 379.6 THA 160.36

ORBIT DETERMINATION ACCURACY
ST 1140.2 SR 344.0 SS 1423.6
CRT -.9982 CRS -.9660 CST .9775
LSA 1845.5 MSA 197.7 SSA 12.3
EL1 1190.8 EL2 19.7 ALF 163.24

LAUNCH DATE OCT 12 1965 FLIGHT TIME 126.00 ARRIVAL DATE FEB 15 1966

HELIOCENTRIC CONIC DISTANCE 326.319

RL	149.29	LAL	.00	LOL	18.46	VL	26.803	GAL	3.18	AZL	84.85	HCA	139.30	SMA	125.25	ECC	.19945	INC	5.1521	V1	29.847
RP	107.55	LAP	3.36	LOP	157.87	VP	37.527	GAP	-8.18	AZP	93.91	TAL	167.05	TAP	306.35	RCA	100.27	APO	150.23	V2	35.234
RC	48.656	GL	32.63	GP	-26.49	ZAL	63.62	ZAP	31.83	ETS	51.66	ZAE	138.12	ETE	301.34	ZAC	66.54	ETC	147.20	CLP	-18.32

PLANETOCENTRIC CONIC

C3	19.869	VHL	4.457	DLA	16.30	RAL	312.46	RAD	6567.8	VEL	11.885	PTH	2.11	VHP	6.407	DPA	-42.86	RAP	333.20	ECC	1.3270

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 38 22	2745.54	-27.94	77.86	179.48	94.78	5 24 8	2145.5	-26.99	69.32
90.00	20 58 33	4324.14	4.04	178.91	172.84	61.95	22 10 37	3724.1	.25	172.28
100.00	6 8 51	2453.76	-29.30	56.25	179.33	96.22	6 49 45	1853.8	-28.13	47.64
100.00	22 10 45	4091.15	5.23	161.13	172.19	60.53	23 18 56	3491.1	1.26	154.59
110.00	7 37 20	2176.93	-32.83	34.63	178.74	100.12	8 13 37	1576.9	-31.08	25.85
110.00	22 58 46	3940.74	8.27	147.85	170.32	56.71	24 4 27	3340.7	3.83	141.58

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TDE	-.8102	TRA	-1.4359	TC3	.3850	BAU	.1943	SGT	2213.6	SGR	984.2	SG3	353.1	ST	1190.6	SR	467.9	SS	1524.9
RDE	.3254	RRA	.5209	RC3	-.6218	FAU	.03947	RRT	-.9029	RRF	.9575	RTF	-.9405	CRT	-.9988	CRS	-.9867	CST	.9792
FDE	2.0462	FRA	2.0357	FC3	-1.7199	BSP	7761	SGB	2422.5	R23	-.1879	R13	.9554	LSA	1980.8	MSA	195.3	SSA	11.2
BDE	.8731	BRA	1.5274	BC3	.7313	FSP	-1031	SG1	2390.6	SG2	391.8	THA	157.49	EL1	1279.0	EL2	21.7	ALF	158.56

LAUNCH DATE OCT 12 1965 FLIGHT TIME 128.00 ARRIVAL DATE FEB 17 1966

HELIOCENTRIC CONIC DISTANCE 333.009

RL	149.29	LAL	.00	LOL	18.46	VL	26.878	GAL	3.00	AZL	84.44	HCA	142.53	SMA	125.73	ECC	.19430	INC	5.5619	V1	29.847
RP	107.57	LAP	3.38	LOP	161.12	VP	37.575	GAP	-7.55	AZP	94.42	TAL	167.37	TAP	309.90	RCA	101.30	APO	150.16	V2	35.227
RC	50.208	GL	35.40	GP	-29.64	ZAL	64.94	ZAP	35.52	ETS	51.09	ZAE	135.16	ETE	300.90	ZAC	68.93	ETC	146.77	CLP	-20.55

PLANETOCENTRIC CONIC

C3	20.173	VHL	4.491	DLA	18.78	RAL	311.09	RAD	6567.8	VEL	11.898	PTH	2.11	VHP	6.212	DPA	-45.41	RAP	336.06	ECC	1.3320

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 7 54	2844.21	-28.29	85.05	179.45	91.19	4 55 18	2244.2	-27.83	76.42
90.00	21 18 5	4232.68	1.09	173.80	172.25	61.70	22 28 38	3632.7	-2.70	167.17
100.00	5 40 40	2545.07	-29.78	62.99	179.39	92.71	6 23 5	1945.1	-29.09	54.26
100.00	22 28 1	4007.06	2.39	156.50	171.53	60.19	23 34 48	3407.1	-1.59	149.97
110.00	7 13 44	2253.92	-33.59	40.51	179.02	96.73	7 51 18	1653.9	-32.30	31.52
110.00	23 11 26	3870.97	5.65	144.16	169.50	56.23	24 15 57	3271.0	1.17	137.93

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TDE	-.8600	TRA	-1.4134	TC3	.4017	BAU	.2109	SGT	2227.3	SGR	1139.8	SG3	375.2	ST	1237.0	SR	620.9	SS	1625.2
RDE	.4508	RRA	.5773	RC3	-.6710	FAU	.04057	RRT	-.9178	RRF	.9717	RTF	-.9437	CRT	-.9953	CRS	-.9947	CST	.9807
FDE	2.2788	FRA	2.0947	FC3	-1.7410	BSP	8064	SGB	2501.9	R23	-.1893	R13	.9620	LSA	2125.9	MSA	194.1	SSA	10.1
BDE	.9710	BRA	1.5267	BC3	.7820	FSP	-1108	SG1	2468.4	SG2	408.4	THA	154.08	EL1	1383.1	EL2	53.7	ALF	153.41

LAUNCH DATE OCT 12 1965 FLIGHT TIME 130.00 ARRIVAL DATE FEB 19 1966

HELIOCENTRIC CONIC DISTANCE 339.679

RL	149.29	LAL	.00	LOL	18.46	VL	26.946	GAL	2.84	AZL	83.96	HCA	145.76	SMA	126.16	ECC	.18963	INC	6.0368	V1	29.847
RP	107.60	LAP	3.39	LOP	164.37	VP	37.617	GAP	-6.94	AZP	95.00	TAL	167.69	TAP	313.45	RCA	102.24	APO	150.09	V2	35.220
RC	51.850	GL	38.31	GP	-33.26	ZAL	66.36	ZAP	39.60	ETS	50.68	ZAE	131.93	ETE	300.07	ZAC	71.51	ETC	146.28	CLP	-22.86

PLANETOCENTRIC CONIC

C3	20.846	VHL	4.566	DLA	21.39	RAL	309.63	RAD	6567.8	VEL	11.926	PTH	2.12	VHP	6.071	DPA	-48.36	RAP	339.34	ECC	1.3431

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	3 32 8	2962.42	-28.16	93.69	179.61	86.87	4 21 31	2362.4	-28.29	85.03
90.00	21 42 11	4130.17	-2.21	168.09	172.14	61.76	22 51 1	3530.2	-5.97	161.42
100.00	5 8 9	2652.82	-29.86	71.00	179.69	88.50	5 52 22	2052.8	-29.75	62.19
100.00	22 48 51	3915.00	-.73	151.44	171.31	60.12	23 54 6	3315.0	-4.70	144.91
110.00	6 47 14	2342.83	-34.09	47.40	179.64	92.68	7 26 17	1742.8	-33.34	38.24
110.00	23 26 15	3797.76	2.86	140.32	169.07	55.92	24 29 33	3197.8	-1.63	134.11

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TDE	-.9206	TRA	-1.3929	TC3	.3980	BAU	.2272	SGT	2234.0	SGR	1328.1	SG3	393.2	ST	1285.3	SR	808.3	SS	1723.6
RDE	.6094	RRA	.6455	RC3	-.7115	FAU	.04084	RRT	-.9278	RRF	.9813	RTF	-.9464	CRT	-.9921	CRS	-.9979	CST	.9824
FDE	2.5265	FRA	2.1330	FC3	-1.6959	BSP	8336	SGB	2599.0	R23	-.1846	R13	.9686	LSA	2288.8	MSA	193.4	SSA	8.9
BDE	1.1040	BRA	1.5352	BC3	.8153	FSP	-1168	SG1	2562.8	SG2	431.8	THA	150.19	EL1	1515.9	EL2	85.9	ALF	147.92

LAUNCH DATE OCT 12 1965 FLIGHT TIME 132.00 ARRIVAL DATE FEB 21 1966

HELIOCENTRIC CONIC DISTANCE 346.327

RL	149.29	LAL	.00	LOL	18.46	VL	27.007	GAL	2.70	AZL	83.40	HCA	148.99	SMA	126.56	ECC	.18541	INC	6.5971	V1	29.847
RP	107.62	LAP	3.39	LOP	167.61	VP	37.653	GAP	-6.36	AZP	95.66	TAL	168.00	TAP	316.99	RCA	103.10	APO	150.03	V2	35.212
RC	53.572	GL	41.37	GP	-37.41	ZAL	67.89	ZAP	44.07	ETS	50.37	ZAE	128.36	ETE	298.93	ZAC	74.31	ETC	145.76	CLP	-25.24

PLANETOCENTRIC CONIC

C3	21.992	VHL	4.690	DLA	24.13	RAL	308.06	RAD	6567.9	VEL	11.974	PTH	2.13	VHP	5.998	DPA	-51.74	RAP	343.24	ECC	1.3619

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	2 47 36	3111.35	-27.13	104.46	179.84	81.57	3 39 27	2511.3	-28.02	95.91
90.00	22 14 13	4007.02	-6.15	161.18	172.75	62.31	23 21 0	3407.0	-9.81	154.41
100.00	4 29 4	2784.22	-29.23	80.71	180.15	83.43	5 15 28	2184.2	-29.83	71.96
100.00	23 15 26	3809.39	-4.30	145.64	171.73	60.39	24 18 55	3209.4	-8.21	139.03
110.00	6 16 53	2446.87	-34.12	55.52	180.59	87.87	6 57 40	1846.9	-34.04	46.28
110.00	23 44 6	3719.50	-.13	136.23	169.13	55.82	24 46 5	3119.5	-4.61	130.02

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TDE	-.9908	TRA	-1.3731	TC3	.3789	BAU	.2441	SGT	2229.6	SGR	1551.8	SG3	403.9	ST	1330.3	SR	1033.7	SS	1811.4
RDE	.8115	RRA	.7262	RC3	-.7386	FAU	.04009	RRT	-.9346	RRF	.9878	RTF	-.9485	CRT	-.9900	CRS	-.9993	CST	.9840
FDE	2.7731	FRA	2.1373	FC3	-1.5783	BSP	8658	SGB	2716.4	R23	-.1729	R13	.9751	LSA	2466.2	MSA	193.4	SSA	7.8
BDE	1.2807	BRA	1.5533	BC3	.8301	FSP	-1206	SG1	2677.2	SG2	459.7	THA	145.81	EL1	1680.7	EL2	115.7	ALF	142.22

LAUNCH DATE OCT 12 1965 FLIGHT TIME 134.00 ARRIVAL DATE FEB 23 1966

HELIOCENTRIC CONIC DISTANCE 352.951

RL	149.29	LAL	.00	LOL	18.46	VL	27.062	GAL	2.57	AZL	82.73	HCA	152.21	SMA	126.92	ECC	.18164	INC	7.2731	VI	29.847
RP	107.64	LAP	3.38	LOP	170.86	VP	37.685	GAP	-5.79	AZP	96.44	TAL	168.30	TAP	320.51	RCA	103.87	APO	149.97	V2	35.204
RC	55.368	GL	44.57	GP	-42.13	ZAL	69.52	ZAP	48.94	ETS	50.09	ZAE	124.35	ETE	297.58	ZAC	77.38	ETC	145.29	CLP	-27.67

PLANETOCENTRIC CONIC

C3	23.782	VHL	4.877	DLA	26.99	RAL	306.37	RAD	6568.0	VEL	12.048	PTH	2.15	VHP	6.014	DPA	-55.52	RAP	348.13	ECC	1.3914

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	1 42 10	3329.71	-24.04	119.68	179.57	74.56	2 37 39	2729.7	-25.92	111.52
90.00	23 6 9	3826.75	-11.71	150.85	174.69	64.03	24 9 56	3226.8	-15.11	143.82
100.00	3 37 42	2957.26	-27.23	93.17	180.46	77.17	4 26 59	2357.3	-28.73	84.69
100.00	23 53 18	3674.43	-8.78	138.13	173.15	61.31	24 54 33	3074.4	-12.54	131.36
110.00	5 40 57	2571.59	-33.39	65.18	181.76	82.21	6 23 48	1971.6	-34.11	56.01
110.00	0 10 29	3632.86	-3.44	131.71	169.88	55.97	1 11 1	3032.9	-7.88	125.44

DIFFERENTIAL CORRECTIONS

TDE	-1.0699	TRA	-1.3519	TC3	.3480	BAU	.2617
RDE	1.0703	RRA	.8181	RC3	-.7459	FAU	.03812
FDE	2.9926	FRA	2.0902	FC3	-1.3876	BSP	9120
BDE	1.5134	BRA	1.5801	BC3	.8231	FSP	-1221

MID-COURSE EXECUTION ACCURACY

SGT	2207.4	SGR	1809.4	SG3	403.3
RRT	-.9389	RRF	.9920	RTF	-.9503
SGB	2854.2	R23	-.1547	R13	.9814
SG1	2812.0	SG2	488.7	THA	141.02

ORBIT DETERMINATION ACCURACY

ST	1366.1	SR	1298.7	SS	1877.0
CRT	-.9887	CRS	-.9998	CST	.9854
LSA	2653.0	MSA	193.8	SSA	6.6
EL1	1879.5	EL2	141.6	ALF	136.47

LAUNCH DATE OCT 12 1965 FLIGHT TIME 136.00 ARRIVAL DATE FEB 25 1966

HELIOCENTRIC CONIC DISTANCE 359.550

RL	149.29	LAL	.00	LOL	18.46	VL	27.111	GAL	2.45	AZL	81.89	HCA	155.42	SMA	127.24	ECC	.17827	INC	8.1100	VI	29.847
RP	107.67	LAP	3.36	LOP	174.10	VP	37.712	GAP	-5.23	AZP	97.38	TAL	168.57	TAP	324.00	RCA	104.56	APO	149.93	V2	35.195
RC	57.230	GL	47.92	GP	-47.43	ZAL	71.25	ZAP	54.16	ETS	49.79	ZAE	119.85	ETE	296.17	ZAC	80.76	ETC	144.94	CLP	-30.07

PLANETOCENTRIC CONIC

C3	26.507	VHL	5.148	DLA	29.97	RAL	304.53	RAD	6568.1	VEL	12.161	PTH	2.18	VHP	6.152	DPA	-59.58	RAP	354.58	ECC	1.4362

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
79.77	22 51 48	3872.82	-18.90	157.67	178.10	66.31	23 56 20	3272.8	-21.95	150.19
100.23	1 41 50	3337.10	-18.89	118.26	178.10	66.30	2 37 28	2737.1	-21.94	110.78
79.77	22 51 48	3872.82	-18.90	157.67	178.10	66.31	23 56 20	3272.8	-21.95	150.19
100.23	1 41 50	3337.10	-18.89	118.26	178.10	66.30	2 37 28	2737.1	-21.94	110.78
110.00	4 55 40	2728.63	-31.32	76.95	182.83	75.54	5 41 8	2128.6	-32.98	68.12
110.00	0 41 5	3529.28	-7.36	126.25	171.66	56.52	1 39 54	2929.3	-11.71	119.86

DIFFERENTIAL CORRECTIONS

TDE	-1.1691	TRA	-1.3385	TC3	.2980	BAU	.2765
RDE	1.4082	RRA	.9231	RC3	-.7212	FAU	.03436
FDE	3.1634	FRA	1.9885	FC3	-1.1222	BSP	9586
BDE	1.8303	BRA	1.6259	BC3	.7804	FSP	-1185

MID-COURSE EXECUTION ACCURACY

SGT	2177.9	SGR	2100.8	SG3	388.8
RRT	-.9410	RRF	.9947	RTF	-.9516
SGB	3026.0	R23	-.1318	R13	.9870
SG1	2981.1	SG2	519.2	THA	136.10

ORBIT DETERMINATION ACCURACY

ST	1399.6	SR	1607.2	SS	1915.0
CRT	-.9881	CRS	-1.0000	CST	.9867
LSA	2858.5	MSA	194.7	SSA	5.5
EL1	2125.0	EL2	162.8	ALF	131.01

LAUNCH DATE OCT 12 1965 FLIGHT TIME 138.00 ARRIVAL DATE FEB 27 1966

HELIOCENTRIC CONIC DISTANCE 366.120

RL	149.29	LAL	.00	LOL	18.46	VL	27.154	GAL	2.35	AZL	80.82	HCA	158.63	SMA	127.53	ECC	.17529	INC	9.1805	VI	29.847
RP	107.70	LAP	3.33	LOP	177.34	VP	37.734	GAP	-4.70	AZP	98.56	TAL	168.82	TAP	327.45	RCA	105.18	APO	149.89	V2	35.186
RC	59.152	GL	51.39	GP	-53.30	ZAL	73.11	ZAP	59.66	ETS	49.48	ZAE	114.79	ETE	294.89	ZAC	84.49	ETC	144.90	CLP	-32.32

PLANETOCENTRIC CONIC

C3	30.686	VHL	5.539	DLA	33.03	RAL	302.50	RAD	6568.2	VEL	12.331	PTH	2.22	VHP	6.459	DPA	-63.68	RAP	3.56	ECC	1.5050

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
72.23	21 51 3	4074.94	-19.59	173.29	179.34	62.86	22 58 58	3474.9	-23.07	165.97
107.77	2 26 24	3208.07	-19.58	108.86	179.33	62.85	3 19 52	2608.1	-23.06	101.54
72.23	21 51 3	4074.94	-19.59	173.29	179.34	62.86	22 58 58	3474.9	-23.07	165.97
107.77	2 26 24	3208.07	-19.58	108.86	179.33	62.85	3 19 52	2608.1	-23.06	101.54
110.00	3 47 13	2959.74	-26.26	93.01	182.70	67.28	4 36 33	2359.7	-29.10	84.98
110.00	1 33 20	3371.28	-13.17	117.71	175.56	58.17	2 29 31	2771.3	-17.29	111.02

DIFFERENTIAL CORRECTIONS

TDE	-1.2925	TRA	-1.3321	TC3	.2390	BAU	.2872
RDE	1.8493	RRA	1.0358	RC3	-.6580	FAU	.02890
FDE	3.2450	FRA	1.8196	FC3	-.8154	BSP	10199
BDE	2.2562	BRA	1.6874	BC3	.7001	FSP	-1105

MID-COURSE EXECUTION ACCURACY

SGT	2135.1	SGR	2413.1	SG3	357.5
RRT	-.9414	RRF	.9962	RTF	-.9526
SGB	3222.1	R23	-.1058	R13	.9916
SG1	3175.3	SG2	547.2	THA	131.29

ORBIT DETERMINATION ACCURACY

ST	1424.9	SR	1950.9	SS	1910.3
CRT	-.9879	CRS	-1.0000	CST	.9880
LSA	3073.7	MSA	196.0	SSA	4.5
EL1	2409.3	EL2	178.8	ALF	126.04

LAUNCH DATE OCT 12 1965 FLIGHT TIME 140.00 ARRIVAL DATE MAR 1 1966

HELIOCENTRIC CONIC DISTANCE 372.658

RL	149.29	LAL	.00	LOL	18.46	VL	27.193	GAL	2.27	AZL	79.39	HCA	161.83	SMA	127.79	ECC	.17268	INC	10.6076	VI	29.847
RP	107.73	LAP	3.29	LOP	180.58	VP	37.753	GAP	-4.18	AZP	100.09	TAL	169.02	TAP	330.85	RCA	105.72	APO	149.86	V2	35.176
RC	61.127	GL	54.96	GP	-59.68	ZAL	75.10	ZAP	65.30	ETS	49.35	ZAE	109.18	ETE	294.09	ZAC	88.58	ETC	145.51	CLP	-34.11

PLANETOCENTRIC CONIC

C3	37.321	VHL	6.109	DLA	36.15	RAL	300.23	RAD	6568.5	VEL	12.597	PTH	2.28	VHP	7.017	DPA	-67.30	RAP	16.45	ECC	1.6142

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
66.53	21 8 21	4226.34	-19.57	185.15	181.13	58.98	22 18 48	3626.3	-23.53	178.09
113.47	2 50 57	3155.39	-19.55	104.72	181.12	58.97	3 43 33	2555.4	-23.52	97.66
66.53	21 8 21	4226.34	-19.57	185.15	181.13	58.98	22 18 48	3626.3	-23.53	178.09
113.47	2 50 57	3155.39	-19.55	104.72	181.12	58.97	3 43 33	2555.4	-23.52	97.66
66.53	21 8 21	4226.34	-19.57	185.15	181.13	58.98	22 18 48	3626.3	-23.53	178.09
113.47	2 50 57	3155.39	-19.55	104.72	181.12	58.97	3 43 33	2555.4	-23.52	97.66

DIFFERENTIAL CORRECTIONS

TDE	-1.4660	TRA	-1.3464	TC3	.1755	BAU	.2882
RDE	2.4330	RRA	1.1501	RC3	-.5502	FAU	.02191
FDE	3.2125	FRA	1.5916	FC3	-.5083	BSP	10910
BDE	2.8405	BRA	1.7707	BC3	.5775	FSP	-977

MID-COURSE EXECUTION ACCURACY

SGT	2093.3	SGR	2728.1	SG3	310.1
RRT	-.9404	RRF	.9970	RTF	-.9539
SGB	3438.7	R23	-.0784	R13	.9951
SG1	3390.6	SG2	572.9	THA	127.05

ORBIT DETERMINATION ACCURACY

ST	1452.7	SR	2316.8	SS	1857.4
CRT	-.9880	CRS	-1.0000	CST	.9892
LSA	3299.8	MSA	198.1	SSA	3.6
EL1	2728.0	EL2	190.5	ALF	121.95

LAUNCH DATE OCT 12 1965 FLIGHT TIME 142.00 ARRIVAL DATE MAR 3 1966

HELIOCENTRIC CONIC DISTANCE 379.157

RL 149.29 LAL .00 LOL 18.46 VL 27,226 GAL 2.20 AZL 77.38 HCA 165.01 SMA 128.01 ECC .17042 INC12.6170 V1 29.847
RP 107.76 LAP 3.24 LOP 183.82 VP 37,767 GAP -3.68 AZP 102.20 TAL 169.18 TAP 334.19 RCA 106.20 APO 149.83 V2 35.166
RC 63.151 GL 58.54 GP -66.50 ZAL 77.22 ZAP 70.86 ETS 50.06 ZAE 102.98 ETE 294.58 ZAC 93.11 ETC 147.60 CLP -34.68

PLANETOCENTRIC CONIC

C3 48.540 VHL 6.967 DLA 39.20 RAL 297.64 RAD 6568.8 VEL 13.035 PTH 2.38 VHP 7.972 DPA -69.53 RAP 34.34 ECC 1.7989

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
61.68	20 33 23	4364.43	-18.47	195.69	183.48	54.79	21 46 8	3764.4	-22.95	189.01
118.32	3 5 17	3149.68	-18.46	103.49	183.47	54.78	3 57 47	2549.7	-22.93	96.82
61.68	20 33 23	4364.43	-18.47	195.69	183.48	54.79	21 46 8	3764.4	-22.95	189.01
118.32	3 5 17	3149.68	-18.46	103.49	183.47	54.78	3 57 47	2549.7	-22.93	96.82
61.68	20 33 23	4364.43	-18.47	195.69	183.48	54.79	21 46 8	3764.4	-22.95	189.01
118.32	3 5 17	3149.68	-18.46	103.49	183.47	54.78	3 57 47	2549.7	-22.93	96.82

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE-1.7646 TRA-1.4141 TC3 .1101 BAU .2659 SGT 2093.2 SGR 3010.3 SG3 251.2 ST 1519.4 SR 2674.5 SS 1759.2
RDE 3.2157 RRA 1.2523 RC3 -.3946 FAU .01367 RRT -.9389 RRF .9968 RTF -.9572 CRT -.9886 CRS -.9999 CST .9910
FDE 3.0630 FRA 1.3292 FC3 -.2438 BSP 11594 SGB 3666.5 R23 -.0501 R13 .9975 LSA 3537.7 MSA 201.7 SSA 2.8
BDE 3.6681 BRA 1.8889 BC3 .4097 FSP -803 SG1 3617.2 SG2 599.5 THA 124.21 EL1 3069.5 EL2 199.4 ALF 119.46

LAUNCH DATE OCT 12 1965 FLIGHT TIME 144.00 ARRIVAL DATE MAR 5 1966

HELIOCENTRIC CONIC DISTANCE 385.603

RL 149.29 LAL .00 LOL 18.46 VL 27,256 GAL 2.15 AZL 74.33 HCA 168.16 SMA 128.21 ECC .16851 INC15.6708 V1 29.847
RP 107.80 LAP 3.18 LOP 187.05 VP 37,778 GAP -3.20 AZP 105.35 TAL 169.27 TAP 337.43 RCA 106.61 APO 149.82 V2 35.155
RC 65.219 GL 61.92 GP -73.63 ZAL 79.50 ZAP 76.11 ETS 54.48 ZAE 96.15 ETE 299.27 ZAC 98.19 ETC 154.13 CLP -31.60

PLANETOCENTRIC CONIC

C3 69.530 VHL 8.338 DLA 41.96 RAL 294.66 RAD 6569.3 VEL 13.816 PTH 2.52 VHP 9.614 DPA -69.23 RAP 55.55 ECC 2.1443

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
57.64	20 3 25	4502.84	-15.85	205.42	186.27	50.62	21 18 28	3902.8	-20.82	199.23
122.36	3 11 30	3186.82	-15.83	104.57	186.26	50.62	4 4 37	2586.8	-20.80	98.38
57.64	20 3 25	4502.84	-15.85	205.42	186.27	50.62	21 18 28	3902.8	-20.82	199.23
122.36	3 11 30	3186.82	-15.83	104.57	186.26	50.62	4 4 37	2586.8	-20.80	98.38
57.64	20 3 25	4502.84	-15.85	205.42	186.27	50.62	21 18 28	3902.8	-20.82	199.23
122.36	3 11 30	3186.82	-15.83	104.57	186.26	50.62	4 4 37	2586.8	-20.80	98.38

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE-2.4985 TRA-1.6185 TC3 .0567 BAU .2024 SGT 2278.8 SGR 3129.8 SG3 187.7 ST 1774.4 SR 2906.4 SS 1627.6
RDE 4.1993 RRA 1.2560 RC3 -.2102 FAU .00530 RRT -.9426 RRF .9945 RTF -.9691 CRT -.9908 CRS -.9995 CST .9945
FDE 2.8194 FRA 1.0582 FC3 -.0661 BSP 12588 SGB 3871.5 R23 -.0209 R13 .9988 LSA 3768.7 MSA 205.3 SSA 2.2
BDE 4.8864 BRA 2.0487 BC3 .2177 FSP -628 SG1 3821.0 SG2 623.5 THA 125.55 EL1 3399.1 EL2 205.0 ALF 121.30

LAUNCH DATE OCT 12 1965 FLIGHT TIME 146.00 ARRIVAL DATE MAR 7 1966

HELIOCENTRIC CONIC DISTANCE 391.967

RL 149.29 LAL .00 LOL 18.46 VL 27.280 GAL 2.13 AZL 69.13 HCA 171.26 SMA 128.38 ECC .16694 INC20.8686 V1 29.847
RP 107.83 LAP 3.10 LOP 190.28 VP 37.786 GAP -2.75 AZP 110.65 TAL 169.25 TAP 340.51 RCA 106.95 APO 149.81 V2 35.143
RC 67.327 GL 64.54 GP -80.53 ZAL 81.93 ZAP 80.80 ETS 82.06 ZAE 88.32 ETE 327.54 ZAC 104.25 ETC 184.68 CLP -13.48

PLANETOCENTRIC CONIC

C3 115.687 VHL 10.756 DLA 43.85 RAL 291.29 RAD 6570.2 VEL 15.396 PTH 2.75 VHP 12.629 DPA -65.55 RAP 74.99 ECC 2.9039

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
55.01	19 39 12	4644.30	-11.32	213.90	189.28	47.35	20 56 37	4044.3	-16.67	208.19
124.99	3 8 48	3270.25	-11.30	107.91	189.27	47.35	4 3 18	2670.3	-16.65	102.20
55.01	19 39 12	4644.30	-11.32	213.90	189.28	47.35	20 56 37	4044.3	-16.67	208.19
124.99	3 8 48	3270.25	-11.30	107.91	189.27	47.35	4 3 18	2670.3	-16.65	102.20
55.01	19 39 12	4644.30	-11.32	213.90	189.28	47.35	20 56 37	4044.3	-16.67	208.19
124.99	3 8 48	3270.25	-11.30	107.91	189.27	47.35	4 3 18	2670.3	-16.65	102.20

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE-6.2624 TRA-2.3725 TC3 -.0373 BAU .0766 SGT 3769.1 SGR 1593.9 SG3 132.0 ST 3377.1 SR 1573.7 SS 1528.1
RDE 2.9506 RRA .3456 RC3 -.0326 FAU-.00453 RRT -.9463 RRF .9598 RTF -.9982 CRT -.9942 CRS -.9961 CST .9998
FDE 2.6043 FRA .8624 FC3 .0339 BSP 12131 SGB 4092.3 R23 .0009 R13 .9993 LSA 4024.0 MSA 153.4 SSA 1.8
BDE 6.9227 BRA 2.3976 BC3 .0496 FSP -412 SG1 4064.3 SG2 477.8 THA 157.87 EL1 3722.6 EL2 153.4 ALF 155.10

LAUNCH DATE OCT 12 1965 FLIGHT TIME 148.00 ARRIVAL DATE MAR 9 1966

HELIOCENTRIC CONIC DISTANCE 398.138

RL 149.29 LAL .00 LOL 18.46 VL 27.301 GAL 2.15 AZL 58.53 HCA 174.20 SMA 128.52 ECC .16577 INC31.4670 V1 29.847
RP 107.87 LAP 3.02 LOP 193.51 VP 37.790 GAP -2.36 AZP 121.34 TAL 169.05 TAP 343.26 RCA 107.22 APO 149.83 V2 35.132
RC 69.470 GL 64.65 GP -81.06 ZAL 84.46 ZAP 84.66 ETS 165.44 ZAE 78.20 ETE 51.68 ZAC 112.67 ETC 272.19 CLP 53.21

PLANETOCENTRIC CONIC

C3 248.339 VHL 15.759 DLA 43.15 RAL 287.85 RAD 6571.4 VEL 19.226 PTH 3.09 VHP 18.989 DPA -57.55 RAP 89.51 ECC 5.0870

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
55.97	19 29 21	4763.35	-5.22	218.87	192.27	47.11	20 48 44	4163.3	-10.63	213.33
124.03	2 51 13	3409.91	-5.21	114.72	192.25	47.11	3 48 3	2809.9	-10.61	109.19
55.97	19 29 21	4763.35	-5.22	218.87	192.27	47.11	20 48 44	4163.3	-10.63	213.33
124.03	2 51 13	3409.91	-5.21	114.72	192.25	47.11	3 48 3	2809.9	-10.61	109.19
55.97	19 29 21	4763.35	-5.22	218.87	192.27	47.11	20 48 44	4163.3	-10.63	213.33
124.03	2 51 13	3409.91	-5.21	114.72	192.25	47.11	3 48 3	2809.9	-10.61	109.19

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE-4.1963 TRA -.4499 TC3 -.0904 BAU .6261 SGT 1568.2 SGR 3871.8 SG3 89.1 ST 1527.2 SR 3549.8 SS 1552.6
RDE-9.6819 RRA-3.0616 RC3 -.1655 FAU-.01640 RRT .9653 RRF -.9990 RTF -.9713 CRT .9964 CRS 1.0000 CST .9969
FDE 2.5832 FRA .7749 FC3 .0572 BSP 12910 SGB 4177.4 R23 -.0098 R13 -.9993 LSA 4162.9 MSA 119.9 SSA 1.8
BDE10.5521 BRA 3.0945 BC3 .1886 FSP -292 SG1 4160.0 SG2 380.9 THA 68.46 EL1 3862.5 EL2 119.5 ALF 66.77

LAUNCH DATE OCT 12 1965 FLIGHT TIME 150.00 ARRIVAL DATE MAR 11 1966

HELIOCENTRIC CONIC DISTANCE 403.664

RL 149.29 LAL .00 LOL 18.46 VL 27.319 GAL 2.30 AZL 30.41 HCA 176.60 SMA 128.64 ECC .16533 INC59.5919 V1 29.847
RP 107.90 LAP 2.93 LOP 196.74 VP 37.791 GAP -2.14 AZP 149.55 TAL 168.24 TAP 344.84 RCA 107.37 APO 149.91 V2 35.120
RC 71.643 GL 55.62 GP -64.71 ZAL 86.80 ZAP 87.37 ETS 181.28 ZAE 60.63 ETE 66.43 ZAC 128.45 ETC 295.71 CLP 83.82

PLANETOCENTRIC CONIC

C3 813.621 VHL 28.524 DLA 33.52 RAL 286.08 RAD 6572.8 VEL 30.576 PTH 3.46 VHP 35.356 DPA -40.28 RAP 99.79 ECC14.3901

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
71.27	20 39 27	4646.79	-.16	205.35	195.85	56.48	21 56 54	4046.8	-4.57	199.09
108.73	1 26 58	3742.46	-.15	138.03	195.84	56.48	2 29 21	3142.5	-4.56	131.77
71.27	20 39 27	4646.79	-.16	205.35	195.85	56.48	21 56 54	4046.8	-4.57	199.09
108.73	1 26 58	3742.46	-.15	138.03	195.84	56.48	2 29 21	3142.5	-4.56	131.77
110.00	2 25 44	3562.57	-6.10	128.01	199.80	56.30	3 25 6	2962.6	-10.49	121.67
110.00	0 43 48	3874.67	5.79	144.35	191.88	56.25	1 48 23	3274.7	1.31	138.12

DIFFERENTIAL CORRECTIONS
TDE-5.1067 TRA .7585 TC3 -.0958 BAU 3.0630
RD-16.0418 RRA-5.3832 RC3 -.2648 FAU-.05376
FDE 3.2454 FRA 1.1314 FC3 .0572 BSP 11486
BDE16.8350 BRA 5.4363 BC3 .2816 FSP -204

MID-COURSE EXECUTION ACCURACY
SGT 1176.6 SGR 3787.8 SG3 67.2
RRT .8738 RRF -.9997 RTF -.8706
SGB 3966.3 R23 -.0448 R13 -.9987
SG1 3927.7 SG2 551.9 THA 74.50

ORBIT DETERMINATION ACCURACY
ST 1027.4 SR 3246.0 SS 2007.2
CRT .9850 CRS 1.0000 CST .9842
LSA 3948.6 MSA 172.9 SSA 1.8
EL1 3400.5 EL2 169.4 ALF 72.64

LAUNCH DATE OCT 12 1965 FLIGHT TIME 152.00 ARRIVAL DATE MAR 13 1966

HELIOCENTRIC CONIC DISTANCE 413.935

RL 149.29 LAL .00 LOL 18.46 VL 27.333 GAL 1.58 AZL 152.04 HCA 183.20 SMA 128.73 ECC .16196 INC62.0436 V1 29.847
RP 107.94 LAP 2.83 LOP 199.96 VP 37.790 GAP -.70 AZP 27.99 TAL 171.76 TAP 354.96 RCA 107.88 APO 149.58 V2 35.108
RC 73.845 GL -54.71 GP 61.42 ZAL 87.58 ZAP 88.99 ETS 188.26 ZAE 70.08 ETE 298.16 ZAC 102.30 ETC 74.19 CLP 87.88

PLANETOCENTRIC CONIC

C3 874.182 VHL 29.567 DLA -73.94 RAL 323.56 RAD 6572.9 VEL 31.551 PTH 3.47 VHP 38.638 DPA 83.77 RAP 151.38 ECC15.3868

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
18.32	8 9 15	2441.97	.02	80.32	233.54	163.94	8 49 57	1842.0	7.71	78.51
161.68	18 56 11	666.82	.03	285.59	233.56	163.94	19 7 18	66.8	7.71	283.78
18.32	8 9 15	2441.97	.02	80.32	233.54	163.94	8 49 57	1842.0	7.71	78.51
161.68	18 56 11	666.82	.03	285.59	233.56	163.94	19 7 18	66.8	7.71	283.78
18.32	8 9 15	2441.97	.02	80.32	233.54	163.94	8 49 57	1842.0	7.71	78.51
161.68	18 56 11	666.82	.03	285.59	233.56	163.94	19 7 18	66.8	7.71	283.78

DIFFERENTIAL CORRECTIONS
TDE 6.2976 TRA-1.5637 TC3 -.1369 BAU 3.3616
RDE-6.2593 RRA 4.1693 RC3 .2530 FAU-.05619
FDE-1.6178 FRA .9255 FC3 .0556 BSP 12231
BDE 8.8792 BRA 4.4529 BC3 .2876 FSP -217

MID-COURSE EXECUTION ACCURACY
SGT 1828.8 SGR 3498.2 SG3 68 4
RRT -.9207 RRF .9986 RTF -.9387
SGB 3947.4 R23 -.0324 R13 .9993
SG1 3894.9 SG2 641.1 THA 116.48

ORBIT DETERMINATION ACCURACY
ST 1264.1 SR 1496.9 SS 1232.1
CRT -.9350 CRS -.9975 CST .9576
LSA 2286.7 MSA 357.6 SSA 1.4
EL1 1928.1 EL2 348.1 ALF 129.85

LAUNCH DATE OCT 12 1965 FLIGHT TIME 154.00 ARRIVAL DATE MAR 15 1966

HELIOCENTRIC CONIC DISTANCE 419.255

RL 149.29 LAL .00 LOL 18.46 VL 27.343 GAL 1.79 AZL 119.97 HCA 185.45 SMA 128.81 ECC .16195 INC29.9705 V1 29.847
RP 107.98 LAP 2.72 LOP 203.18 VP 37.786 GAP -.54 AZP 60.14 TAL 170.67 TAP 356.12 RCA 107.95 APO 149.67 V2 35.095
RC 76.070 GL -65.18 GP 81.26 ZAL 84.85 ZAP 88.35 ETS 213.71 ZAE 88.84 ETE 320.33 ZAC 84.15 ETC 96.54 CLP 79.06

PLANETOCENTRIC CONIC

C3 226.263 VHL 15.042 DLA -77.46 RAL 8.04 RAD 6571.3 VEL 18.643 PTH 3.05 VHP 20.196 DPA 74.24 RAP 275.26 ECC 4.7237

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
14.27	10 58 33	2324.59	8.31	81.00	276.16	167.33	11 37 17	1724.6	16.11	79.60
165.73	22 1 46	5822.66	8.32	260.15	276.19	167.33	23 38 49	5222.7	16.12	258.74
14.27	10 58 33	2324.59	8.31	81.00	276.16	167.33	11 37 17	1724.6	16.11	79.60
165.73	22 1 46	5822.66	8.32	260.15	276.19	167.33	23 38 49	5222.7	16.12	258.74
14.27	10 58 33	2324.59	8.31	81.00	276.16	167.33	11 37 17	1724.6	16.11	79.60
165.73	22 1 46	5822.66	8.32	260.15	276.19	167.33	23 38 49	5222.7	16.12	258.74

DIFFERENTIAL CORRECTIONS
TDE-1.0713 TRA-1.8420 TC3 -.1383 BAU .5870
RDE 3.0147 RRA 1.6140 RC3 .1362 FAU-.01032
FDE .7731 FRA .5837 FC3 .0395 BSP 13822
BDE 3.1994 BRA 2.4490 BC3 .1940 FSP -292

MID-COURSE EXECUTION ACCURACY
SGT 3284.4 SGR 3083.5 SG3 92.7
RRT -.9670 RRF .9943 RTF -.9882
SGB 4505.0 R23 -.0322 R13 .9993
SG1 4467.9 SG2 577.2 THA 136.87

ORBIT DETERMINATION ACCURACY
ST 1052.1 SR 1428.5 SS 742.7
CRT -.8600 CRS -.9856 CST .9339
LSA 1870.8 MSA 446.7 SSA 1.1
EL1 1717.0 EL2 446.6 ALF 125.07

LAUNCH DATE OCT 12 1965 FLIGHT TIME 156.00 ARRIVAL DATE MAR 17 1966

HELIOCENTRIC CONIC DISTANCE 425.298

RL 149.29 LAL .00 LOL 18.46 VL 27.351 GAL 1.87 AZL 108.20 HCA 188.35 SMA 128.86 ECC .16176 INC18.1970 V1 29.847
RP 108.02 LAP 2.60 LOP 206.40 VP 37.780 GAP -.20 AZP 71.98 TAL 170.23 TAP 358.58 RCA 108.02 APO 149.70 V2 35.082
RC 78.316 GL -64.26 GP 87.72 ZAL 81.58 ZAP 88.42 ETS 312.48 ZAE 98.37 ETE 57.33 ZAC 75.19 ETC 190.93 CLP -46.17

PLANETOCENTRIC CONIC

C3 89.810 VHL 9.477 DLA -74.21 RAL 9.56 RAD 6569.8 VEL 14.531 PTH 2.64 VHP 13.055 DPA 64.43 RAP 282.70 ECC 2.4781

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
18.01	11 12 8	2147.77	19.31	76.03	273.86	163.24	11 47 56	1547.8	26.95	73.87
161.99	22 0 21	5659.35	19.31	258.89	273.89	163.24	23 34 41	5059.3	26.96	256.73
18.01	11 12 8	2147.77	19.31	76.03	273.86	163.24	11 47 56	1547.8	26.95	73.87
161.99	22 0 21	5659.35	19.31	258.89	273.89	163.24	23 34 41	5059.3	26.96	256.73
18.01	11 12 8	2147.77	19.31	76.03	273.86	163.24	11 47 56	1547.8	26.95	73.87
161.99	22 0 21	5659.35	19.31	258.89	273.89	163.24	23 34 41	5059.3	26.96	256.73

DIFFERENTIAL CORRECTIONS
TDE-1.8044 TRA -.9157 TC3 -.0036 BAU .1214
RDE-1.4376 RRA-1.7676 RC3 .1011 FAU .00554
FDE .8235 FRA .6797 FC3 -.0534 BSP 14429
BDE 2.3071 BRA 1.9908 BC3 .1011 FSP -440

MID-COURSE EXECUTION ACCURACY
SGT 2308.4 SGR 4026.4 SG3 137.6
RRT .9613 RRF -.9948 RTF -.9828
SGB 4641.2 R23 .0284 R13 -.9990
SG1 4607.9 SG2 555.4 THA 60.67

ORBIT DETERMINATION ACCURACY
ST 1250.0 SR 1464.0 SS 759.2
CRT .9110 CRS .9807 CST .9741
LSA 2030.1 MSA 401.1 SSA 1.7
EL1 1882.9 EL2 400.9 ALF 49.94

LAUNCH DATE OCT 12 1965 FLIGHT TIME 158.00 ARRIVAL DATE MAR 19 1966

HELIOCENTRIC CONIC DISTANCE 431.508

RL	149.29	LAL	.00	LOL	18.46	VL	27.356	GAL	1.93	AZL	102.59	HCA	191.42	SMA	128.89	ECC	.16166	INC	12.5877
RP	108.06	LAP	2.47	LOP	209.62	VP	37.771	GAP	.19	AZP	77.65	TAL	169.91	TAP	1.34	RCA	108.06	APO	149.73
RC	80.581	GL	-59.84	GP	81.23	ZAL	78.14	ZAP	89.35	ETS	344.19	ZAE	104.81	ETE	87.80	ZAC	68.99	ETC	218.20
V1	29.847																		
V2	35.069																		
CLP	-85.72																		

PLANETOCENTRIC CONIC

C3	47.493	VHL	6.891	DLA	-70.12	RAL	.79	RAD	6568.8	VEL	12.994	PTH	2.37	VHP	9.679	DPA	57.48	RAP	285.27
ECC	1.7816																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
22.73	10 47 0	1984.67	28.45	68.62	259.47	157.24	11 20 5	1384.7	35.78	65.24
157.27	21 15 28	5518.53	28.46	256.33	259.49	157.24	22 47 26	4918.5	35.78	252.94
22.73	10 47 0	1984.67	28.45	68.62	259.47	157.24	11 20 5	1384.7	35.78	65.24
157.27	21 15 28	5518.53	28.46	256.33	259.49	157.24	22 47 26	4918.5	35.78	252.94
22.73	10 47 0	1984.67	28.45	68.62	259.47	157.24	11 20 5	1384.7	35.78	65.24
157.27	21 15 28	5518.53	28.46	256.33	259.49	157.24	22 47 26	4918.5	35.78	252.94

DIFFERENTIAL CORRECTIONS

TOE	-.6629	TRA	.0946	TC3	-.1109	BAU	.3363												
RDE	-.8575	RRA	-1.8568	RC3	.5178	FAU	.01725												
FDE	.5475	FRA	.9130	FC3	-.3145	BSP	14697												
BDE	1.0838	BRA	1.8592	BC3	.5296	FSP	-648												

MID-COURSE EXECUTION ACCURACY

SGT	616.9	SGR	4649.5	SG3	200.3						
RRT	-.2671	RRF	-.9984	RTF	.2318						
SGB	4690.3	R23	.0407	R13	-.9982						
SG1	4652.5	SG2	594.1	THA	92.06						

ORBIT DETERMINATION ACCURACY

ST	555.5	SR	1537.1	SS	677.1						
CRT	.3494	CRS	.9934	CST	.4543						
LSA	1691.7	MSA	517.5	SSA	2.4						
EL1	1550.9	EL2	515.8	ALF	61.90						

LAUNCH DATE OCT 12 1965 FLIGHT TIME 160.00 ARRIVAL DATE MAR 21 1966

HELIOCENTRIC CONIC DISTANCE 437.765

RL	149.29	LAL	.00	LOL	18.46	VL	27.358	GAL	1.99	AZL	99.35	HCA	194.55	SMA	128.91	ECC	.16173	INC	9.3505
RP	108.10	LAP	2.34	LOP	212.83	VP	37.761	GAP	.58	AZP	80.94	TAL	169.61	TAP	4.16	RCA	108.06	APO	149.76
RC	82.862	GL	-54.17	GP	75.50	ZAL	74.72	ZAP	91.08	ETS	355.51	ZAE	109.84	ETE	98.45	ZAC	63.81	ETC	225.22
V1	29.847																		
V2	35.056																		
CLP	-94.31																		

PLANETOCENTRIC CONIC

C3	30.025	VHL	5.479	DLA	-65.21	RAL	352.35	RAD	6568.2	VEL	12.304	PTH	2.22	VHP	7.785	DPA	51.69	RAP	286.37
ECC	1.4941																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
28.44	10 25 59	1851.41	34.25	58.99	244.01	149.53	10 56 50	1251.4	41.03	54.04
151.56	20 29 9	5420.67	34.26	252.89	244.03	149.52	21 59 29	4820.7	41.04	247.94
28.44	10 25 59	1851.41	34.25	58.99	244.01	149.53	10 56 50	1251.4	41.03	54.04
151.56	20 29 9	5420.67	34.26	252.89	244.03	149.52	21 59 29	4820.7	41.04	247.94
28.44	10 25 59	1851.41	34.25	58.99	244.01	149.53	10 56 50	1251.4	41.03	54.04
151.56	20 29 9	5420.67	34.26	252.89	244.03	149.52	21 59 29	4820.7	41.04	247.94

DIFFERENTIAL CORRECTIONS

TOE	-.4656	TRA	.4066	TC3	-.3859	BAU	.4323												
RDE	-.2838	RRA	-1.7682	RC3	1.0055	FAU	.02849												
FDE	.3060	FRA	1.2236	FC3	-.8214	BSP	14767												
BDE	.5452	BRA	1.8144	BC3	1.0770	FSP	-898												

MID-COURSE EXECUTION ACCURACY

SGT	1201.8	SGR	4555.7	SG3	276.3						
RRT	-.8757	RRF	-.9985	RTF	.8639						
SGB	4711.5	R23	.0501	R13	-.9975						
SG1	4677.5	SG2	565.2	THA	103.20						

ORBIT DETERMINATION ACCURACY

ST	574.2	SR	1356.4	SS	652.7						
CRT	-.3319	CRS	.9933	CST	-.2211						
LSA	1515.9	MSA	545.5	SSA	3.1						
EL1	1372.2	EL2	535.4	ALF	99.45						

LAUNCH DATE OCT 12 1965 FLIGHT TIME 162.00 ARRIVAL DATE MAR 23 1966

HELIOCENTRIC CONIC DISTANCE 444.032

RL	149.29	LAL	.00	LOL	18.46	VL	27.358	GAL	2.05	AZL	97.24	HCA	197.71	SMA	128.91	ECC	.16197	INC	7.2449
RP	108.14	LAP	2.20	LOP	216.04	VP	37.748	GAP	.97	AZP	83.09	TAL	169.28	TAP	6.99	RCA	108.03	APO	149.79
RC	85.157	GL	-48.09	GP	70.36	ZAL	71.44	ZAP	93.51	ETS	2.83	ZAE	114.00	ETE	105.72	ZAC	59.11	ETC	228.43
V1	29.847																		
V2	35.043																		
CLP	-100.49																		

PLANETOCENTRIC CONIC

C3	21.465	VHL	4.633	DLA	-59.80	RAL	345.91	RAD	6567.9	VEL	11.952	PTH	2.13	VHP	6.608	DPA	46.48	RAP	286.76
ECC	1.3533																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
34.85	10 15 43	1742.47	36.85	48.04	230.04	141.05	10 44 46	1142.5	42.88	41.60
145.15	19 48 3	5364.21	36.86	249.45	230.05	141.05	21 17 27	4764.2	42.89	243.01
34.85	10 15 43	1742.47	36.85	48.04	230.04	141.05	10 44 46	1142.5	42.88	41.60
145.15	19 48 3	5364.21	36.86	249.45	230.05	141.05	21 17 27	4764.2	42.89	243.01
34.85	10 15 43	1742.47	36.85	48.04	230.04	141.05	10 44 46	1142.5	42.88	41.60
145.15	19 48 3	5364.21	36.86	249.45	230.05	141.05	21 17 27	4764.2	42.89	243.01

DIFFERENTIAL CORRECTIONS

TOE	-.4008	TRA	.6140	TC3	-.7936	BAU	.4830												
RDE	-.0491	RRA	-1.6906	RC3	1.4842	FAU	.03963												
FDE	.1713	FRA	1.5802	FC3	-1.5981	BSP	14768												
BDE	.4038	BRA	1.7987	BC3	1.6831	FSP	-1172												

MID-COURSE EXECUTION ACCURACY

SGT	1750.7	SGR	4378.4	SG3	359.7						
RRT	-.9465	RRF	-.9983	RTF	.9396						
SGB	4715.4	R23	.0595	R13	-.9987						
SG1	4685.8	SG2	527.9	THA	111.01						

ORBIT DETERMINATION ACCURACY

ST	671.8	SR	1249.1	SS	676.8						
CRT	-.6382	CRS	.9914	CST	-.5321						
LSA	1485.9	MSA	511.5	SSA	3.9						
EL1	1332.9	EL2	484.7	ALF	112.00						

LAUNCH DATE OCT 12 1965 FLIGHT TIME 164.00 ARRIVAL DATE MAR 25 1966

HELIOCENTRIC CONIC DISTANCE 450.294

RL	149.29	LAL	.00	LOL	18.46	VL	27.356	GAL	2.13	AZL	95.76	HCA	200.88	SMA	128.89	ECC	.16240	INC	5.7616
RP	108.18	LAP	2.05	LOP	219.24	VP	37.735	GAP	1.36	AZP	84.61	TAL	168.92	TAP	9.80	RCA	107.96	APO	149.83
RC	87.465	GL	-42.03	GP	65.57	ZAL	68.38	ZAP	96.51	ETS	8.48	ZAE	117.48	ETE	111.99	ZAC	54.68	ETC	230.18
V1	29.847																		
V2	35.030																		
CLP	-105.92																		

PLANETOCENTRIC CONIC

C3	16.803	VHL	4.099	DLA	-54.22	RAL	341.25	RAD	6567.7	VEL	11.755	PTH	2.07	VHP	5.832	DPA	41.62	RAP	286.75
ECC	1.2765																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
41.62	10 15 24	1648.15	36.98	36.84	218.36	132.95	10 42 52	1048.1	42.18	29.36
138.38	19 11 14	5343.14	36.99	247.10	218.38	132.94	20 40 17	4743.1	42.19	239.61
41.62	10 15 24	1648.15	36.98	36.84	218.36	132.95	10 42 52	1048.1	42.18	29.36
138.38	19 11 14	5343.14	36.99	247.10	218.38	132.94	20 40 17	4743.1	42.19	239.61
41.62	10 15 24	1648.15	36.98	36.84	218.36	132.95	10 42 52	1048.1	42.18	29.36
138.38	19 11 14	5343.14	36.99	247.10	218.38	132.94	20 40 17	4743.1	42.19	239.61

DIFFERENTIAL CORRECTIONS

TOE	-.3470	TRA	.7928	TC3	-1.3024	BAU	.5138												
RDE	.0105	RRA	-1.6149	RC3	1.8802	FAU	.05019												
FDE	.1469	FRA	1.9584	FC3	-2.5857	BSP	14718												
BDE	.3472	BRA	1.7990	BC3	2.2872	FSP	-1449												

MID-COURSE EXECUTION ACCURACY

SGT	2228.6	SGR	4156.6	SG3	444.4						
RRT	-.9682	RRF	-.9980	RTF	.9628						
SGB	4716.4	R23	.0691	R13	-.9957						
SG1	4690.4	SG2	494.4	THA	117.77						

ORBIT DETERMINATION ACCURACY

ST	748.0	SR	1159.1	SS	715.9						
CRT	-.7693	CRS	.9876	CST	-.6595						
LSA	1481.2	MSA	470.5	SSA	4.8						
EL1	1313.4	EL2	421.7	ALF	119.78						

LAUNCH DATE OCT 12 1965 FLIGHT TIME 166.00 ARRIVAL DATE MAR 27 1966

HELIOCENTRIC CONIC DISTANCE 456.544

RL 149.29 LAL .00 LOL 18.46 VL 27.352 GAL 2.21 AZL 94.66 HCA 204.06 SMA 128.86 ECC .16299 INC 4.6557 VI 29.847
RP 108.22 LAP 1.90 LOP 222.45 VP 37.719 GAP 1.75 AZP 85.75 TAL 168.52 TAP 12.57 RCA 107.86 APO 149.87 V2 35.016
RC 89.783 GL -36.22 GP 61.03 ZAL 65.61 ZAP 99.95 ETS 13.09 ZAE 120.37 ETE 117.86 ZAC 50.46 ETC 231.04 CLP-110.91

PLANETOCENTRIC CONIC

C3 14.097 VHL 3.755 DLA -48.73 RAL 337.91 RAD 6567.6 VEL 11.640 PTH 2.04 VHP 5.303 DPA 37.01 RAP 286.54 ECC 1.2320

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
48.53	10 23 30	1559.39	35.48	26.00	209.18	125.90	10 49 29	959.4	39.88	17.97
131.47	18 36 28	5352.82	35.49	246.58	209.19	125.89	20 5 41	4752.8	39.89	238.55
48.53	10 23 30	1559.39	35.48	26.00	209.18	125.90	10 49 29	959.4	39.88	17.97
131.47	18 36 28	5352.82	35.49	246.58	209.19	125.89	20 5 41	4752.8	39.89	238.55
48.53	10 23 30	1559.39	35.48	26.00	209.18	125.90	10 49 29	959.4	39.88	17.97
131.47	18 36 28	5352.82	35.49	246.58	209.19	125.89	20 5 41	4752.8	39.89	238.55

DIFFERENTIAL CORRECTIONS

TDE -.2808 TRA .9590 TC3-1.8660 BAU .5377
RDE -.0016 RRA-1.5327 RC3 2.1583 FAU .05989
FDE .2097 FRA 2.3288 FC3-3.6784 BSP 14750
BDE .2808 BRA 1.8080 BC3 2.8531 FSP -1720

MID-COURSE EXECUTION ACCURACY

SGT 2658.7 SGR 3898.7 SG3 523.8
RRT -.9779 RRF -.9976 RTF .9731
SGB 4718.9 R23 .0780 R13 -.9946
SG1 4696.3 SG2 461.4 THA 124.07

ORBIT DETERMINATION ACCURACY

ST 792.7 SR 1064.9 SS 755.9
CRT -.8399 CRS .9814 CST -.7205
LSA 1464.3 MSA 435.3 SSA 5.8
EL1 1278.2 EL2 358.4 ALF 125.19

LAUNCH DATE OCT 12 1965 FLIGHT TIME 168.00 ARRIVAL DATE MAR 29 1966

HELIOCENTRIC CONIC DISTANCE 462.778

RL 149.29 LAL .00 LOL 18.46 VL 27.345 GAL 2.31 AZL 93.80 HCA 207.24 SMA 128.82 ECC .16377 INC 3.7950 VI 29.847
RP 108.26 LAP 1.74 LOP 225.65 VP 37.702 GAP 2.14 AZP 86.62 TAL 168.07 TAP 15.31 RCA 107.72 APO 149.92 V2 35.003
RC 92.112 GL -30.80 GP 56.71 ZAL 63.12 ZAP 103.70 ETS 16.89 ZAE 122.70 ETE 123.47 ZAC 46.45 ETC 231.20 CLP-115.55

PLANETOCENTRIC CONIC

C3 12.476 VHL 3.532 DLA -43.51 RAL 335.52 RAD 6567.5 VEL 11.570 PTH 2.02 VHP 4.940 DPA 32.63 RAP 286.26 ECC 1.2053

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
55.48	10 39 19	1468.05	33.03	15.50	202.26	120.10	11 3 47	868.0	36.75	7.28
124.52	18 1 32	5391.23	33.04	248.26	202.27	120.09	19 31 23	4791.2	36.76	240.04
55.48	10 39 19	1468.05	33.03	15.50	202.26	120.10	11 3 47	868.0	36.75	7.28
124.52	18 1 32	5391.23	33.04	248.26	202.27	120.09	19 31 23	4791.2	36.76	240.04
55.48	10 39 19	1468.05	33.03	15.50	202.26	120.10	11 3 47	868.0	36.75	7.28
124.52	18 1 32	5391.23	33.04	248.26	202.27	120.09	19 31 23	4791.2	36.76	240.04

DIFFERENTIAL CORRECTIONS

TDE -.1977 TRA 1.1190 TC3-2.4310 BAU .5575
RDE -.0407 RRA-1.4479 RC3 2.2944 FAU .06802
FDE .3409 FRA 2.6742 FC3-4.7201 BSP 14793
BDE .2019 BRA 1.8299 BC3 3.3427 FSP -1959

MID-COURSE EXECUTION ACCURACY

SGT 3052.0 SGR 3621.8 SG3 593.6
RRT -.9830 RRF -.9971 RTF .9785
SGB 4736.3 R23 .0850 R13 -.9935
SG1 4716.7 SG2 430.1 THA 130.04

ORBIT DETERMINATION ACCURACY

ST 818.1 SR 974.9 SS 802.6
CRT -.8911 CRS .9735 CST -.7638
LSA 1449.4 MSA 403.8 SSA 7.0
EL1 1238.7 EL2 292.2 ALF 129.40

LAUNCH DATE OCT 12 1965 FLIGHT TIME 170.00 ARRIVAL DATE MAR 31 1966

HELIOCENTRIC CONIC DISTANCE 468.995

RL 149.29 LAL .00 LOL 18.46 VL 27.337 GAL 2.42 AZL 93.10 HCA 210.42 SMA 128.77 ECC .16471 INC 3.1026 VI 29.847
RP 108.31 LAP 1.57 LOP 228.84 VP 37.684 GAP 2.52 AZP 87.32 TAL 167.58 TAP 18.00 RCA 107.56 APO 149.98 V2 34.990
RC 94.449 GL -25.83 GP 52.59 ZAL 60.93 ZAP 107.62 ETS 20.02 ZAE 124.50 ETE 128.86 ZAC 42.68 ETC 230.69 CLP-119.88

PLANETOCENTRIC CONIC

C3 11.509 VHL 3.392 DLA -38.64 RAL 333.80 RAD 6567.4 VEL 11.528 PTH 2.01 VHP 4.696 DPA 28.47 RAP 285.99 ECC 1.1894

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
62.52	11 3 31	1364.81	30.14	4.83	197.23	115.43	11 26 16	764.8	33.29	356.60
117.48	17 23 40	5460.49	30.15	252.43	197.24	115.42	18 54 41	4860.5	33.30	244.20
62.52	11 3 31	1364.81	30.14	4.83	197.23	115.43	11 26 16	764.8	33.29	356.60
117.48	17 23 40	5460.49	30.15	252.43	197.24	115.42	18 54 41	4860.5	33.30	244.20
62.52	11 3 31	1364.81	30.14	4.83	197.23	115.43	11 26 16	764.8	33.29	356.60
117.48	17 23 40	5460.49	30.15	252.43	197.24	115.42	18 54 41	4860.5	33.30	244.20

DIFFERENTIAL CORRECTIONS

TDE -.1013 TRA 1.2735 TC3-2.9562 BAU .5768
RDE -.0816 RRA-1.3604 RC3 2.3053 FAU .07434
FDE .5121 FRA 2.9746 FC3-5.5918 BSP 14912
BDE .1301 BRA 1.8635 BC3 3.7488 FSP -2159

MID-COURSE EXECUTION ACCURACY

SGT 3411.1 SGR 3334.6 SG3 649.5
RRT -.9859 RRF -.9963 RTF .9817
SGB 4770.2 R23 .0888 R13 -.9923
SG1 4753.4 SG2 399.9 THA 135.66

ORBIT DETERMINATION ACCURACY

ST 845.8 SR 894.5 SS 859.2
CRT -.9363 CRS .9648 CST -.8113
LSA 1454.5 MSA 371.4 SSA 8.3
EL1 1211.3 EL2 219.3 ALF 133.29

LAUNCH DATE OCT 12 1965 FLIGHT TIME 172.00 ARRIVAL DATE APR 2 1966

HELIOCENTRIC CONIC DISTANCE 475.192

RL 149.29 LAL .00 LOL 18.46 VL 27.327 GAL 2.54 AZL 92.53 HCA 213.60 SMA 128.70 ECC .16583 INC 2.5305 VI 29.847
RP 108.35 LAP 1.40 LOP 232.04 VP 37.665 GAP 2.90 AZP 87.89 TAL 167.04 TAP 20.65 RCA 107.36 APO 150.04 V2 34.977
RC 96.794 GL -21.35 GP 48.70 ZAL 58.99 ZAP 111.60 ETS 22.57 ZAE 125.80 ETE 133.96 ZAC 39.21 ETC 229.51 CLP-123.91

PLANETOCENTRIC CONIC

C3 10.964 VHL 3.311 DLA -34.19 RAL 332.60 RAD 6567.4 VEL 11.504 PTH 2.00 VHP 4.538 DPA 24.55 RAP 285.80 ECC 1.1804

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
70.00	11 39 6	1234.92	27.11	352.90	193.68	111.68	11 59 41	634.9	29.80	344.75
110.00	16 38 29	5570.33	27.12	259.74	193.68	111.66	18 11 19	4970.3	29.81	251.59
70.00	11 39 6	1234.92	27.11	352.90	193.68	111.68	11 59 41	634.9	29.80	344.75
110.00	16 38 29	5570.33	27.12	259.74	193.68	111.66	18 11 19	4970.3	29.81	251.59
70.00	11 39 6	1234.92	27.11	352.90	193.68	111.68	11 59 41	634.9	29.80	344.75
110.00	16 38 29	5570.33	27.12	259.74	193.68	111.66	18 11 19	4970.3	29.81	251.59

DIFFERENTIAL CORRECTIONS

TDE .0076 TRA 1.4263 TC3-3.4059 BAU .5950
RDE -.1174 RRA-1.2758 RC3 2.2082 FAU .07835
FDE .7075 FRA 3.2268 FC3-6.1865 BSP 15013
BDE .1176 BRA 1.9136 BC3 4.0591 FSP -2294

MID-COURSE EXECUTION ACCURACY

SGT 3740.1 SGR 3049.9 SG3 690.4
RRT -.9874 RRF -.9952 RTF .9836
SGB 4826.0 R23 .0892 R13 -.9912
SG1 4811.4 SG2 375.4 THA 140.88

ORBIT DETERMINATION ACCURACY

ST 897.7 SR 827.1 SS 929.1
CRT -.9726 CRS .9568 CST -.8635
LSA 1496.2 MSA 338.4 SSA 9.8
EL1 1212.3 EL2 142.3 ALF 137.41

LAUNCH DATE OCT 12 1965 FLIGHT TIME 174.00 ARRIVAL DATE APR 4 1966

HELIOCENTRIC CONIC DISTANCE 481.368

RL	149.29	LAL	.00	LOL	18.46	VL	27.316	GAL	2.67	AZL	92.05	HCA	216.78	SMA	128.62	ECC	.16713	INC	2.0471	V1	29.847
RP	108.39	LAP	1.23	LOP	235.23	VP	37.645	GAP	3.27	AZP	88.36	TAL	166.47	TAP	23.25	RCA	107.13	APO	150.12	V2	34.964
RC	99.145	GL	-17.33	GP	45.06	ZAL	57.26	ZAP	115.56	ETS	24.65	ZAE	126.66	ETE	138.72	ZAC	36.09	ETC	227.65	CLP	-127.64

PLANETOCENTRIC CONIC

C3	10.708	VHL	3.272	DLA	-30.13	RAL	331.78	RAD	6567.4	VEL	11.493	PTH	2.00	VHP	4.448	DPA	20.89	RAP	285.72	ECC	1.1762

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
79.24	12 38 21	1034.76	24.13	336.47	191.26	108.62	12 55 36	434.8	26.44	328.41
100.76	15 32 42	5760.84	24.14	273.02	191.26	108.61	17 8 43	5160.8	26.46	264.96
79.24	12 38 21	1034.76	24.13	336.47	191.26	108.62	12 55 36	434.8	26.44	328.41
100.76	15 32 42	5760.84	24.14	273.02	191.26	108.61	17 8 43	5160.8	26.46	264.96
110.00	14 30 20	669.71	15.22	305.55	186.89	120.99	14 41 30	69.7	19.21	298.71
110.00	18 39 53	5173.89	33.73	230.93	193.64	95.92	20 6 7	4573.9	34.18	221.71

DIFFERENTIAL CORRECTIONS

TDE	.1225	TRA	1.5744	TC3	-3.7763	BAU	.6154												
RDE	-.1404	RRA	-1.1916	RC3	2.0547	FAU	.08068												
FDE	.8976	FRA	3.4154	FC3	-6.5227	BSP	15266												
BDE	.1863	BRA	1.9745	BC3	4.2991	FSP	-2394												

MID-COURSE EXECUTION ACCURACY

SGT	4039.0	SGR	2772.9	SG3	715.1						
RRT	-.9880	RRF	-.9938	RTF	.9850						
SGB	4899.2	R23	.0850	R13	-.9904						
SG1	4886.5	SG2	353.4	THA	145.65						

ORBIT DETERMINATION ACCURACY

ST	982.8	SR	765.4	SS	1001.4						
CRT	-.9941	CRS	.9491	CST	-.9099						
LSA	1568.6	MSA	306.6	SSA	11.2						
EL1	1244.0	EL2	65.8	ALF	142.13						

LAUNCH DATE OCT 12 1965 FLIGHT TIME 176.00 ARRIVAL DATE APR 6 1966

HELIOCENTRIC CONIC DISTANCE 487.523

RL	149.29	LAL	.00	LOL	18.46	VL	27.303	GAL	2.82	AZL	91.63	HCA	219.97	SMA	128.54	ECC	.16859	INC	1.6309	V1	29.847
RP	108.43	LAP	1.05	LOP	238.42	VP	37.623	GAP	3.65	AZP	88.75	TAL	165.84	TAP	25.81	RCA	106.86	APO	150.21	V2	34.951
RC	101.502	GL	-13.75	GP	41.67	ZAL	55.71	ZAP	119.41	ETS	26.33	ZAE	127.15	ETE	143.08	ZAC	33.35	ETC	225.13	CLP	-131.11

PLANETOCENTRIC CONIC

C3	10.662	VHL	3.265	DLA	-26.47	RAL	331.26	RAD	6567.4	VEL	11.491	PTH	2.00	VHP	4.410	DPA	17.50	RAP	285.79	ECC	1.1755

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 33 50	1046.80	15.62	333.83	187.54	113.92	12 51 16	446.8	18.72	326.53
90.00	15 33 6	5747.07	27.21	272.82	191.11	98.14	17 8 53	5147.1	28.06	264.26
100.00	13 25 12	880.88	13.54	320.62	186.52	116.91	13 39 53	280.9	17.04	313.58
100.00	17 24 25	5388.22	29.50	246.72	191.41	95.05	18 54 13	4788.2	29.89	237.94
110.00	13 42 7	827.79	9.50	314.23	184.14	122.99	13 55 55	227.8	13.78	307.75
110.00	19 23 59	5014.08	34.16	218.48	191.58	88.58	20 47 33	4414.1	33.58	209.28

DIFFERENTIAL CORRECTIONS

TDE	.2433	TRA	1.7209	TC3	-4.0574	BAU	.6365												
RDE	-.1536	RRA	-1.1123	RC3	1.8638	FAU	.08118												
FDE	1.0765	FRA	3.5479	FC3	-6.5913	BSP	15560												
BDE	.2877	BRA	2.0491	BC3	4.4650	FSP	-2443												

MID-COURSE EXECUTION ACCURACY

SGT	4310.7	SGR	2511.4	SG3	725.2						
RRT	-.9878	RRF	-.9919	RTF	.9858						
SGB	4988.9	R23	.0773	R13	-.9896						
SG1	4977.5	SG2	338.0	THA	149.93						

ORBIT DETERMINATION ACCURACY

ST	1101.2	SR	708.3	SS	1073.5						
CRT	-.9998	CRS	.9412	CST	-.9438						
LSA	1669.8	MSA	280.0	SSA	12.6						
EL1	1309.3	EL2	13.3	ALF	147.25						

LAUNCH DATE OCT 12 1965 FLIGHT TIME 178.00 ARRIVAL DATE APR 8 1966

HELIOCENTRIC CONIC DISTANCE 493.656

RL	149.29	LAL	.00	LOL	18.46	VL	27.289	GAL	2.98	AZL	91.27	HCA	223.15	SMA	128.44	ECC	.17024	INC	1.2668	V1	29.847
RP	108.46	LAP	.87	LOP	241.60	VP	37.602	GAP	4.02	AZP	89.08	TAL	165.18	TAP	28.33	RCA	106.57	APO	150.31	V2	34.939
RC	103.862	GL	-10.57	GP	38.55	ZAL	54.30	ZAP	123.12	ETS	27.69	ZAE	127.32	ETE	147.01	ZAC	31.05	ETC	221.96	CLP	-134.32

PLANETOCENTRIC CONIC

C3	10.779	VHL	3.283	DLA	-23.17	RAL	330.98	RAD	6567.4	VEL	11.496	PTH	2.00	VHP	4.415	DPA	14.38	RAP	286.01	ECC	1.1774

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 33 4	1254.07	9.55	346.02	185.37	116.78	11 53 58	654.1	13.07	339.11
90.00	16 31 38	5544.24	28.31	258.10	190.22	90.86	18 4 3	4944.2	28.12	249.44
100.00	12 36 35	1049.05	8.17	330.22	184.63	118.85	12 54 4	449.1	11.96	323.48
100.00	18 10 48	5224.49	29.87	234.57	190.21	88.67	19 37 53	4624.5	29.36	225.80
110.00	13 8 43	948.50	4.98	320.63	182.67	123.86	13 24 31	348.3	9.39	314.32
110.00	19 55 10	4898.01	33.59	209.47	189.90	83.28	21 16 48	4298.0	32.30	200.47

DIFFERENTIAL CORRECTIONS

TDE	.3678	TRA	1.8665	TC3	-4.2539	BAU	.6581												
RDE	-.1572	RRA	-1.0385	RC3	1.6603	FAU	.08021												
FDE	1.2329	FRA	3.6284	FC3	-6.4417	BSP	15916												
BDE	.3999	BRA	2.1360	BC3	4.5664	FSP	-2453												

MID-COURSE EXECUTION ACCURACY

SGT	4557.1	SGR	2269.2	SG3	722.6						
RRT	-.9869	RRF	-.9894	RTF	.9864						
SGB	5090.9	R23	.0668	R13	-.9891						
SG1	5080.2	SG2	328.8	THA	153.71						

ORBIT DETERMINATION ACCURACY

ST	1244.5	SR	652.7	SS	1138.9						
CRT	-.9939	CRS	.9320	CST	-.9656						
LSA	1790.1	MSA	259.6	SSA	13.6						
EL1	1403.8	EL2	63.6	ALF	152.41						

LAUNCH DATE OCT 12 1965 FLIGHT TIME 180.00 ARRIVAL DATE APR 10 1966

HELIOCENTRIC CONIC DISTANCE 499.767

RL	149.29	LAL	.00	LOL	18.46	VL	27.274	GAL	3.16	AZL	90.94	HCA	226.33	SMA	128.34	ECC	.17206	INC	.9436	V1	29.847
RP	108.50	LAP	.68	LOP	244.78	VP	37.579	GAP	4.39	AZP	89.35	TAL	164.48	TAP	30.81	RCA	106.25	APO	150.42	V2	34.926
RC	106.225	GL	-7.76	GP	35.69	ZAL	53.00	ZAP	126.65	ETS	28.81	ZAE	127.25	ETE	150.50	ZAC	29.19	ETC	218.21	CLP	-137.31

PLANETOCENTRIC CONIC

C3	11.029	VHL	3.321	DLA	-20.19	RAL	330.90	RAD	6567.4	VEL	11.507	PTH	2.00	VHP	4.454	DPA	11.54	RAP	286.39	ECC	1.1815

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 54 41	1396.01	5.10	354.08	184.40	117.89	11 17 57	796.0	8.80	347.35
90.00	17 9 20	5411.67	28.06	248.42	189.43	86.01	18 39 32	4811.7	27.21	239.86
100.00	12 2 59	1175.57	3.95	337.25	183.76	119.65	12 22 35	575.6	7.87	330.65
100.00	18 43 42	5107.34	29.36	225.90	189.30	84.14	20 8 50	4507.3	28.24	217.28
110.00	12 43 22	1049.06	1.14	325.90	182.01	124.17	13 0 51	449.1	5.61	319.67
110.00	20 19 50	4806.62	32.65	202.51	188.74	79.26	21 39 56	4206.6	30.82	193.76

DIFFERENTIAL CORRECTIONS

TDE	.4952	TRA	2.0134	TC3	-4.3714	BAU	.6794												
RDE	-.1538	RRA	-.9719	RC3	1.4577	FAU	.07794												
FDE	1.3656	FRA	3.6684	FC3	-6.1180	BSP	16289												
BDE	.5186	BRA	2.2357	BC3	4.6080	FSP	-2423												

MID-COURSE EXECUTION ACCURACY

SGT	4781.0	SGR	2049.3	SG3	710.0						
RRT	-.9849	RRF	-.9861	RTF	.9867						
SGB	5201.7	R23	.0559	R13	-.9886						
SG1	5191.4	SG2	326.5	THA	157.02						

ORBIT DETERMINATION ACCURACY

ST	1403.7	SR	598.8	SS	1196.0						
CRT	-.9808	CRS	.9205	CST	-.9788						
LSA	1923.3	MSA	245.4	SSA	14.3						
EL1	1522.3	EL2	107.8	ALF	157.18						

LAUNCH DATE OCT 12 1965 FLIGHT TIME 182.00 ARRIVAL DATE APR 12 1966

DISTANCE 505.855

HELIOCENTRIC CONIC

RL 149.29 LAL .00 LOL 18.46 VL 27.258 GAL 3.35 AZL 90.65 HCA 229.51 SMA 128.23 ECC .17407 INC .6533 V1 29.847
RP 108.54 LAP .50 LOP 247.97 VP 37.556 GAP 4.76 AZP 89.58 TAL 163.74 TAP 33.24 RCA 105.91 APO 150.55 V2 34.914
RC 108.588 GL -5.27 GP 33.09 ZAL 51.79 ZAP 129.98 ETS 29.74 ZAE 127.01 ETE 153.57 ZAC 27.80 ETC 213.99 CLP-140.08

PLANETOCENTRIC CONIC

C3 11.392 VHL 3.375 DLA -17.51 RAL 330.97 RAD 6567.4 VEL 11.523 PTH 2.01 VHP 4.522 DPA 8.98 RAP 286.94 ECC 1.1875

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 26 15	1510.25	1.44	.48	184.14	118.28	10 51 25	910.2	5.21	353.83
90.00	17 38 21	5310.82	27.37	241.12	188.99	82.42	19 6 51	4710.8	26.03	232.71
100.00	11 37 24	1280.64	.40	343.02	183.56	119.89	11 58 45	680.6	4.37	336.49
100.00	19 9 52	5015.66	28.54	219.22	188.79	80.71	20 33 28	4415.7	26.96	210.77
110.00	12 23 17	1136.90	-2.22	330.48	181.93	124.12	12 42 14	536.9	2.27	324.28
110.00	20 40 29	4732.16	31.57	196.97	188.07	76.15	21 59 21	4132.2	29.34	188.47

DIFFERENTIAL CORRECTIONS

TDE .6274 TRA 2.1640 TC3-4.4132 BAU .6991
RDE -.1461 RRA -.9133 RC3 1.2630 FAU .07451
FDE 1.4787 FRA 3.6792 FC3-5.6619 BSP 16626
BDE .6441 BRA 2.3489 BC3 4.5904 FSP -2357

MID-COURSE EXECUTION ACCURACY

SGT 4984.7 SGR 1852.3 SG3 690.1
RRT -.9819 RRF -.9819 RTF .9867
SGB 5317.7 R23 .0464 R13 -.9880
SG1 5307.5 SG2 329.6 THA 159.87

ORBIT DETERMINATION ACCURACY

ST 1574.0 SR 547.8 SS 1246.2
CRT -.9627 CRS .9065 CST -.9867
LSA 2067.5 MSA 236.1 SSA 14.8
EL1 1660.7 EL2 140.4 ALF 161.34

LAUNCH DATE OCT 12 1965 FLIGHT TIME 184.00 ARRIVAL DATE APR 14 1966

DISTANCE 511.920

HELIOCENTRIC CONIC

RL 149.29 LAL .00 LOL 18.46 VL 27.240 GAL 3.55 AZL 90.39 HCA 232.68 SMA 128.11 ECC .17626 INC .3890 V1 29.847
RP 108.58 LAP .31 LOP 251.14 VP 37.533 GAP 5.13 AZP 89.76 TAL 162.96 TAP 35.64 RCA 105.53 APO 150.69 V2 34.903
RC 110.951 GL -3.08 GP 30.73 ZAL 50.63 ZAP 133.11 ETS 30.53 ZAE 126.63 ETE 156.25 ZAC 26.86 ETC 209.48 CLP-142.66

PLANETOCENTRIC CONIC

C3 11.859 VHL 3.444 DLA -15.09 RAL 331.17 RAD 6567.5 VEL 11.543 PTH 2.01 VHP 4.614 DPA 6.67 RAP 287.64 ECC 1.1952

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 3 53	1607.89	-1.71	5.92	184.39	118.27	10 30 41	1007.9	2.08	359.30
90.00	18 2 19	5229.93	26.51	235.36	188.90	79.65	19 29 29	4629.9	24.81	227.10
100.00	11 17 2	1371.88	-2.69	348.03	183.84	119.78	11 39 53	771.9	1.29	341.51
100.00	19 31 52	4941.17	27.61	213.88	188.65	78.05	20 54 13	4341.2	25.68	205.61
110.00	12 7 0	1215.37	-5.21	334.59	182.28	123.83	12 27 15	615.4	-.73	328.37
110.00	20 58 23	4670.45	30.48	192.49	187.83	73.71	22 16 14	4070.5	27.94	184.21

DIFFERENTIAL CORRECTIONS

TDE .7585 TRA 2.3151 TC3-4.4065 BAU .7197
RDE -.1327 RRA -.8601 RC3 1.0918 FAU .07076
FDE 1.5612 FRA 3.6587 FC3-5.1654 BSP 17040
BDE .7700 BRA 2.4697 BC3 4.5398 FSP -2285

MID-COURSE EXECUTION ACCURACY

SGT 5169.1 SGR 1676.7 SG3 664.5
RRT -.9778 RRF -.9766 RTF .9867
SGB 5434.2 R23 .0370 R13 -.9876
SG1 5423.9 SG2 335.0 THA 162.33

ORBIT DETERMINATION ACCURACY

ST 1741.6 SR 497.0 SS 1281.6
CRT -.9392 CRS .8869 CST -.9915
LSA 2206.7 MSA 230.4 SSA 15.0
EL1 1803.7 EL2 164.8 ALF 164.87

LAUNCH DATE OCT 12 1965 FLIGHT TIME 186.00 ARRIVAL DATE APR 16 1966

DISTANCE 517.959

HELIOCENTRIC CONIC

RL 149.29 LAL .00 LOL 18.46 VL 27.222 GAL 3.78 AZL 90.15 HCA 235.86 SMA 127.98 ECC .17866 INC .1465 V1 29.847
RP 108.61 LAP .12 LOP 254.32 VP 37.509 GAP 5.51 AZP 89.92 TAL 162.15 TAP 38.01 RCA 105.12 APO 150.85 V2 34.892
RC 113.313 GL -1.13 GP 28.61 ZAL 49.53 ZAP 136.03 ETS 31.24 ZAE 126.18 ETE 158.56 ZAC 26.37 ETC 204.84 CLP-145.07

PLANETOCENTRIC CONIC

C3 12.423 VHL 3.525 DLA -12.91 RAL 331.48 RAD 6567.5 VEL 11.568 PTH 2.02 VHP 4.726 DPA 4.61 RAP 288.49 ECC 1.2045

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 45 43	1694.11	-4.48	10.75	185.02	117.99	10 13 57	1094.1	-.70	4.10
90.00	18 22 58	5163.38	25.61	230.69	189.13	77.48	19 49 1	4563.4	23.63	222.58
100.00	11 0 23	1453.23	-5.43	352.52	184.50	119.44	11 24 36	853.2	-1.47	345.97
100.00	19 50 59	4879.48	26.66	209.54	188.85	75.95	21 12 19	4279.5	24.47	201.42
110.00	11 53 34	1286.65	-7.89	338.36	182.98	123.37	12 15 1	686.6	-3.45	332.09
110.00	21 14 17	4618.84	29.43	188.84	187.94	71.78	22 31 16	4018.8	26.66	180.75

DIFFERENTIAL CORRECTIONS

TDE .8909 TRA 2.4695 TC3-4.3528 BAU .7396
RDE -.1166 RRA -.8134 RC3 .9401 FAU .06662
FDE 1.6225 FRA 3.6193 FC3-4.6423 BSP 17452
BDE .8985 BRA 2.6000 BC3 4.4532 FSP -2198

MID-COURSE EXECUTION ACCURACY

SGT 5336.1 SGR 1521.6 SG3 635.5
RRT -.9723 RRF -.9701 RTF .9865
SGB 5548.8 R23 .0293 R13 -.9872
SG1 5538.2 SG2 342.5 THA 164.44

ORBIT DETERMINATION ACCURACY

ST 1905.9 SR 449.3 SS 1307.1
CRT -.9097 CRS .8612 CST -.9944
LSA 2343.3 MSA 227.4 SSA 15.1
EL1 1949.6 EL2 182.4 ALF 167.79

LAUNCH DATE OCT 12 1965 FLIGHT TIME 188.00 ARRIVAL DATE APR 18 1966

DISTANCE 523.973

HELIOCENTRIC CONIC

RL 149.29 LAL .00 LOL 18.46 VL 27.203 GAL 4.01 AZL 89.92 HCA 239.03 SMA 127.86 ECC .18126 INC .0766 V1 29.847
RP 108.64 LAP -.07 LOP 257.49 VP 37.485 GAP 5.89 AZP 90.04 TAL 161.30 TAP 40.34 RCA 104.68 APO 151.03 V2 34.881
RC 115.673 GL .58 GP 26.69 ZAL 48.46 ZAP 138.76 ETS 31.89 ZAE 125.69 ETE 160.56 ZAC 26.27 ETC 200.28 CLP-147.32

PLANETOCENTRIC CONIC

C3 13.084 VHL 3.617 DLA -10.93 RAL 331.89 RAD 6567.5 VEL 11.596 PTH 2.03 VHP 4.857 DPA 2.77 RAP 289.49 ECC 1.2153

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 30 41	1771.82	-6.95	15.13	185.95	117.52	10 0 13	1171.8	-3.21	8.44
90.00	18 41 12	5107.87	24.73	226.86	189.64	75.75	20 6 20	4507.9	22.53	218.88
100.00	10 46 33	1527.05	-7.88	356.62	185.45	118.93	11 12 0	927.0	-3.96	350.03
100.00	20 8 1	4827.88	25.76	205.97	189.33	74.28	21 28 29	4227.9	23.35	198.00
110.00	11 42 24	1352.18	-10.33	341.88	183.97	122.77	12 4 56	752.2	-5.94	335.54
110.00	21 28 40	4575.51	28.47	185.83	188.36	70.23	22 44 55	3975.5	25.51	177.90

DIFFERENTIAL CORRECTIONS

TDE 1.0247 TRA 2.6283 TC3-4.2596 BAU .7583
RDE -.0984 RRA -.7725 RC3 .8073 FAU .06224
FDE 1.6652 FRA 3.5668 FC3-4.1180 BSP 17858
BDE 1.0294 BRA 2.7394 BC3 4.3354 FSP -2102

MID-COURSE EXECUTION ACCURACY

SGT 5487.1 SGR 1385.1 SG3 604.4
RRT -.9653 RRF -.9620 RTF .9862
SGB 5659.2 R23 .0232 R13 -.9867
SG1 5648.3 SG2 351.1 THA 166.25

ORBIT DETERMINATION ACCURACY

ST 2064.2 SR 405.4 SS 1323.4
CRT -.8725 CRS .8276 CST -.9962
LSA 2475.0 MSA 225.9 SSA 15.1
EL1 2094.6 EL2 195.2 ALF 170.19

LAUNCH DATE OCT 12 1965 FLIGHT TIME 190.00 ARRIVAL DATE APR 20 1966

HELIOCENTRIC CONIC DISTANCE 529.961

RL	149.29	LAL	.00	LOL	18.46	VL	27.183	GAL	4.27	AZL	89.71	HCA	242.21	SMA	127.72	ECC	.18408	INC	.2871	VI	29.847
RP	108.68	LAP	-.25	LOP	260.67	VP	37.461	GAP	6.27	AZP	90.13	TAL	160.43	TAP	42.64	RCA	104.21	APO	151.23	V2	34.870
RC	118.029	GL	2.10	GP	24.96	ZAL	47.42	ZAP	141.31	ETS	32.52	ZAE	125.17	ETE	162.28	ZAC	26.54	ETC	195.96	CLP	-149.43

PLANETOCENTRIC CONIC

C3	13.842	VHL	3.721	DLA	-9.13	RAL	332.36	RAD	6567.5	VEL	11.629	PTH	2.04	VHP	5.004	DPA	1.14	RAP	290.61	ECC	1.2278

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 18 5	1842.92	-9.16	19.18	187.14	116.91	9 48 48	1242.9	-5.48	12.43
90.00	18 57 37	5061.29	23.92	223.70	190.39	74.37	20 21 58	4461.3	21.54	215.83
100.00	10 34 58	1594.90	-10.10	.45	186.65	118.29	11 1 33	994.9	-6.24	353.78
100.00	20 23 25	4784.55	24.93	203.02	190.06	72.94	21 43 10	4184.5	22.35	195.16
110.00	11 33 3	1413.03	-12.55	345.19	185.19	122.06	11 56 36	813.0	-8.23	338.76
110.00	21 41 50	4539.18	27.61	183.35	189.03	69.00	22 57 29	3939.2	24.50	175.56

DIFFERENTIAL CORRECTIONS								MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TDE	1.1607	TRA	2.7933	TC3	-4.1344	BAU	.7758	SGT	5625.1	SGR	1265.8	SG3	572.9	ST	2216.3	SR	366.2	SS	1333.0
RDE	-.0792	RRA	-.7371	RC3	.6924	FAU	.05778	RRT	-.9568	RRF	-.9524	RTF	.9859	CRT	-.8260	CRS	.7844	CST	-.9974
FDE	1.6941	FRA	3.5074	FC3	-3.6135	BSP	18236	SGB	5765.7	R23	.0182	R13	-.9862	LSA	2602.3	MSA	225.4	SSA	15.0
BDE	1.1634	BRA	2.8889	BC3	4.1919	FSP	-2001	SG1	5754.5	SG2	359.9	THA	167.80	EL1	2237.1	EL2	204.5	ALF	172.16

LAUNCH DATE OCT 12 1965 FLIGHT TIME 192.00 ARRIVAL DATE APR 22 1966

HELIOCENTRIC CONIC DISTANCE 535.922

RL	149.29	LAL	.00	LOL	18.46	VL	27.162	GAL	4.54	AZL	89.51	HCA	245.38	SMA	127.58	ECC	.18713	INC	.4854	VI	29.847
RP	108.71	LAP	-.44	LOP	263.84	VP	37.436	GAP	6.65	AZP	90.20	TAL	159.53	TAP	44.90	RCA	103.71	APO	151.46	V2	34.860
RC	120.382	GL	3.43	GP	23.41	ZAL	46.40	ZAP	143.70	ETS	33.16	ZAE	124.65	ETE	163.76	ZAC	27.13	ETC	191.99	CLP	-151.42

PLANETOCENTRIC CONIC

C3	14.702	VHL	3.834	DLA	-7.50	RAL	332.91	RAD	6567.6	VEL	11.666	PTH	2.05	VHP	5.165	DPA	-.29	RAP	291.84	ECC	1.2420

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 7 26	1908.70	-11.17	22.97	188.54	116.19	9 39 15	1308.7	-7.56	16.15
90.00	19 12 36	5022.14	23.17	221.07	191.35	73.25	20 36 18	4422.1	20.66	213.30
100.00	10 25 10	1657.91	-12.10	4.05	188.06	117.54	10 52 48	1057.9	-8.32	357.30
100.00	20 37 32	4748.17	24.18	200.57	191.01	71.86	21 56 40	4148.2	21.47	192.82
110.00	11 25 11	1470.00	-14.59	348.35	186.62	121.26	11 49 41	870.0	-10.34	341.82
110.00	21 54 1	4508.84	26.85	181.32	189.92	68.01	23 9 10	3908.8	23.63	173.64

DIFFERENTIAL CORRECTIONS								MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TDE	1.3004	TRA	2.9666	TC3	-3.9787	BAU	.7906	SGT	5751.2	SGR	1161.8	SG3	541.7	ST	2362.9	SR	332.2	SS	1338.1
RDE	-.0597	RRA	-.7071	RC3	.5917	FAU	.05316	RRT	-.9464	RRF	-.9411	RTF	.9853	CRT	-.7689	CRS	.7307	CST	-.9982
FDE	1.7135	FRA	3.4468	FC3	-3.1300	BSP	18544	SGB	5867.4	R23	.0148	R13	-.9856	LSA	2726.4	MSA	225.4	SSA	14.9
BDE	1.3017	BRA	3.0497	BC3	4.0224	FSP	-1891	SG1	5855.8	SG2	368.7	THA	169.13	EL1	2376.7	EL2	211.2	ALF	173.78

LAUNCH DATE OCT 12 1965 FLIGHT TIME 194.00 ARRIVAL DATE APR 24 1966

HELIOCENTRIC CONIC DISTANCE 541.853

RL	149.29	LAL	.00	LOL	18.46	VL	27.140	GAL	4.83	AZL	89.33	HCA	248.55	SMA	127.44	ECC	.19042	INC	.6736	VI	29.847
RP	108.74	LAP	-.63	LOP	267.00	VP	37.412	GAP	7.05	AZP	90.25	TAL	158.60	TAP	47.15	RCA	103.17	APO	151.71	V2	34.851
RC	122.731	GL	4.61	GP	22.01	ZAL	45.41	ZAP	145.92	ETS	33.82	ZAE	124.13	ETE	165.04	ZAC	27.97	ETC	188.43	CLP	-153.30

PLANETOCENTRIC CONIC

C3	15.670	VHL	3.959	DLA	-6.02	RAL	333.50	RAD	6567.6	VEL	11.707	PTH	2.06	VHP	5.341	DPA	-1.55	RAP	293.19	ECC	1.2579

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 58 23	1970.12	-12.99	26.56	190.12	115.39	9 31 13	1370.1	-9.46	19.66
90.00	19 26 23	4989.34	22.51	218.89	192.49	72.35	20 49 33	4389.3	19.89	211.20
100.00	10 16 53	1716.92	-13.94	7.47	189.65	116.71	10 45 29	1116.9	-10.24	.63
100.00	20 50 35	4717.77	23.52	198.56	192.13	71.00	22 9 13	4117.8	20.71	190.89
110.00	11 18 35	1523.71	-16.46	351.38	188.22	120.39	11 43 59	923.7	-12.30	344.74
110.00	22 5 22	4483.74	26.20	179.66	191.00	67.22	23 20 6	3883.7	22.89	172.07

DIFFERENTIAL CORRECTIONS								MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TDE	1.4388	TRA	3.1438	TC3	-3.8132	BAU	.8059	SGT	5864.0	SGR	1070.3	SG3	510.8	ST	2495.8	SR	302.6	SS	1334.9
RDE	-.0389	RRA	-.6804	RC3	.5082	FAU	.04891	RRT	-.9341	RRF	-.9278	RTF	.9848	CRT	-.6968	CRS	.6618	CST	-.9988
FDE	1.7185	FRA	3.3796	FC3	-2.7021	BSP	18909	SGB	5960.9	R23	.0115	R13	-.9850	LSA	2837.5	MSA	225.8	SSA	14.8
BDE	1.4393	BRA	3.2166	BC3	3.8469	FSP	-1793	SG1	5949.0	SG2	376.7	THA	170.28	EL1	2504.8	EL2	216.3	ALF	175.13

LAUNCH DATE OCT 12 1965 FLIGHT TIME 196.00 ARRIVAL DATE APR 26 1966

HELIOCENTRIC CONIC DISTANCE 547.753

RL	149.29	LAL	.00	LOL	18.46	VL	27.118	GAL	5.14	AZL	89.15	HCA	251.71	SMA	127.29	ECC	.19398	INC	.8535	VI	29.847
RP	108.76	LAP	-.81	LOP	270.17	VP	37.388	GAP	7.45	AZP	90.27	TAL	157.65	TAP	49.36	RCA	102.60	APO	151.99	V2	34.842
RC	125.075	GL	5.64	GP	20.75	ZAL	44.42	ZAP	148.00	ETS	34.53	ZAE	123.64	ETE	166.14	ZAC	29.04	ETC	185.31	CLP	-155.08

PLANETOCENTRIC CONIC

C3	16.754	VHL	4.093	DLA	-4.67	RAL	334.14	RAD	6567.7	VEL	11.753	PTH	2.07	VHP	5.529	DPA	-2.64	RAP	294.63	ECC	1.2757

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 50 41	2027.90	-14.65	30.00	191.86	114.51	9 24 29	1427.9	-11.22	23.00
90.00	19 39 12	4962.04	21.94	217.10	193.80	71.63	21 1 54	4362.0	19.22	209.47
100.00	10 9 50	1772.57	-15.61	10.75	191.39	115.82	10 39 22	1172.6	-12.02	3.81
100.00	21 2 44	4692.60	22.95	196.90	193.42	70.30	22 20 57	4092.6	20.06	189.30
110.00	11 13 3	1574.66	-18.19	354.32	189.98	119.45	11 39 17	974.7	-14.13	347.56
110.00	22 16 0	4463.28	25.66	178.32	192.25	66.60	23 30 24	3863.3	22.27	170.80

DIFFERENTIAL CORRECTIONS								MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TDE	1.5797	TRA	3.3293	TC3	-3.6326	BAU	.8195	SGT	5966.3	SGR	990.3	SG3	481.2	ST	2620.1	SR	278.3	SS	1327.9
RDE	-.0180	RRA	-.6574	RC3	.4363	FAU	.04477	RRT	-.9199	RRF	-.9127	RTF	.9843	CRT	-.6104	CRS	.5788	CST	-.9991
FDE	1.7166	FRA	3.3135	FC3	-2.3133	BSP	19252	SGB	6047.9	R23	.0089	R13	-.9844	LSA	2941.9	MSA	226.3	SSA	14.7
BDE	1.5798	BRA	3.3936	BC3	3.6587	FSP	-1696	SG1	6035.7	SG2	383.9	THA	171.28	EL1	2625.7	EL2	220.0	ALF	176.26

LAUNCH DATE OCT 12 1965 FLIGHT TIME 198.00 ARRIVAL DATE APR 28 1966

DISTANCE 553.621

HELIOCENTRIC CONIC

RL 149.29 LAL .00 LOL 18.46 VL 27.096 GAL 5.47 AZL 88.97 HCA 254.88 SMA 127.14 ECC .19781 INC 1.0270 V1 29.847
RP 108.79 LAP -.99 LOP 273.34 VP 37.364 GAP 7.85 AZP 90.27 TAL 156.68 TAP 51.56 RCA 101.99 APO 152.29 V2 34.834
RC 127.413 GL 6.55 GP 19.61 ZAL 43.46 ZAP 149.95 ETS 35.31 ZAE 123.17 ETE 167.10 ZAC 30.29 ETC 182.61 CLP-156.77

PLANETOCENTRIC CONIC

C3 17.965 VHL 4.239 DLA -3.43 RAL 334.82 RAD 6567.7 VEL 11.805 PTH 2.09 VHP 5.731 DPA -3.58 RAP 296.16 ECC 1.2957

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 44 6	2082.62	-16.16	33.30	193.75	113.57	9 18 49	1482.6	-12.84	26.20
90.00	19 51 10	4939.61	21.45	215.63	195.24	71.06	21 13 29	4339.6	18.67	208.06
100.00	10 3 51	1825.39	-17.15	13.92	193.28	114.86	10 34 16	1225.4	-13.66	6.87
100.00	21 14 6	4672.07	22.47	195.56	194.85	69.75	22 31 58	4072.1	19.51	188.02
110.00	11 8 25	1623.27	-19.79	357.18	191.88	118.45	11 35 28	1023.3	-15.84	350.29
110.00	22 26 2	4446.96	25.21	177.26	193.63	66.11	23 40 9	3847.0	21.77	169.80

DIFFERENTIAL CORRECTIONS

TDE 1.7232 TRA 3.5234 TC3-3.4425 BAU .8317
RDE .0030 RRA -.6374 RC3 .3748 FAU .04081
FDE 1.7094 FRA 3.2491 FC3-1.9665 BSP 19563
BDE 1.7232 BRA 3.5806 BC3 3.4629 FSP -1601

MID-COURSE EXECUTION ACCURACY

SGT 6058.8 SGR 919.9 SG3 452.9
RRT -.9037 RRF -.8956 RTF .9837
SGB 6128.3 R23 .0068 R13 -.9838
SG1 6115.8 SG2 390.2 THA 172.16

ORBIT DETERMINATION ACCURACY

ST 2735.5 SR 259.2 SS 1318.0
CRT -.5105 CRS .4825 CST -.9994
LSA 3039.0 MSA 226.7 SSA 14.5
EL1 2738.7 EL2 222.6 ALF 177.21

LAUNCH DATE OCT 12 1965 FLIGHT TIME 200.00 ARRIVAL DATE APR 30 1966

DISTANCE 559.454

HELIOCENTRIC CONIC

RL 149.29 LAL .00 LOL 18.46 VL 27.073 GAL 5.82 AZL 88.80 HCA 258.04 SMA 126.99 ECC .20194 INC 1.1953 V1 29.847
RP 108.81 LAP -1.17 LOP 276.50 VP 37.340 GAP 8.27 AZP 90.25 TAL 155.68 TAP 53.73 RCA 101.35 APO 152.64 V2 34.826
RC 129.747 GL 7.35 GP 18.58 ZAL 42.50 ZAP 151.78 ETS 36.17 ZAE 122.72 ETE 167.93 ZAC 31.68 ETC 180.29 CLP-158.38

PLANETOCENTRIC CONIC

C3 19.315 VHL 4.395 DLA -2.30 RAL 335.52 RAD 6567.8 VEL 11.862 PTH 2.10 VHP 5.946 DPA -4.39 RAP 297.77 ECC 1.3179

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 38 30	2134.73	-17.55	36.49	195.75	112.58	9 14 5	1534.7	-14.34	29.28
90.00	20 2 23	4921.53	21.04	214.46	196.81	70.60	21 24 25	4321.5	18.21	206.93
100.00	9 58 46	1875.80	-18.57	16.99	195.29	113.85	10 30 2	1275.8	-15.19	9.83
100.00	21 24 48	4655.70	22.08	194.50	196.40	69.32	22 42 24	4055.7	19.07	187.00
110.00	11 4 34	1669.87	-21.28	359.98	193.91	117.40	11 32 23	1069.9	-17.44	352.95
110.00	22 35 30	4434.40	24.86	176.45	195.15	65.75	23 49 25	3834.4	21.37	169.04

DIFFERENTIAL CORRECTIONS

TDE 1.8732 TRA 3.7308 TC3-3.2386 BAU .8404
RDE .0236 RRA -.6207 RC3 .3207 FAU .03684
FDE 1.7017 FRA 3.1911 FC3-1.6513 BSP 19773
BDE 1.8733 BRA 3.7820 BC3 3.2544 FSP -1502

MID-COURSE EXECUTION ACCURACY

SGT 6145.0 SGR 858.0 SG3 426.5
RRT -.8856 RRF -.8766 RTF .9830
SGB 6204.6 R23 .0053 R13 -.9831
SG1 6192.0 SG2 395.5 THA 172.92

ORBIT DETERMINATION ACCURACY

ST 2846.6 SR 245.0 SS 1308.1
CRT -.4021 CRS .3777 CST -.9996
LSA 3134.1 MSA 226.9 SSA 14.4
EL1 2848.3 EL2 224.2 ALF 178.01

LAUNCH DATE OCT 12 1965 FLIGHT TIME 202.00 ARRIVAL DATE MAY 2 1966

DISTANCE 565.248

HELIOCENTRIC CONIC

RL 149.29 LAL .00 LOL 18.46 VL 27.049 GAL 6.19 AZL 88.64 HCA 261.21 SMA 126.84 ECC .20640 INC 1.3596 V1 29.847
RP 108.84 LAP -1.34 LOP 279.67 VP 37.316 GAP 8.71 AZP 90.21 TAL 154.68 TAP 55.88 RCA 100.66 APO 153.02 V2 34.819
RC 132.074 GL 8.04 GP 17.66 ZAL 41.57 ZAP 153.50 ETS 37.13 ZAE 122.29 ETE 168.66 ZAC 33.20 ETC 178.33 CLP-159.92

PLANETOCENTRIC CONIC

C3 20.820 VHL 4.563 DLA -1.27 RAL 336.25 RAD 6567.8 VEL 11.925 PTH 2.12 VHP 6.174 DPA -5.07 RAP 299.44 ECC 1.3426

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 33 45	2184.61	-18.83	39.59	197.87	111.55	9 10 9	1584.6	-15.74	32.28
90.00	20 12 57	4907.40	20.72	213.55	198.48	70.26	21 34 44	4307.4	17.84	206.06
100.00	9 54 30	1924.12	-19.87	19.99	197.42	112.80	10 26 34	1324.1	-16.61	12.71
100.00	21 34 53	4643.11	21.78	193.69	198.06	69.00	22 52 16	4043.1	18.73	186.23
110.00	11 1 23	1714.74	-22.66	2.73	196.05	116.30	11 29 58	1114.7	-18.94	355.57
110.00	22 44 29	4425.26	24.60	175.87	196.77	65.49	23 58 14	3825.3	21.09	168.48

DIFFERENTIAL CORRECTIONS

TDE 2.0219 TRA 3.9440 TC3-3.0397 BAU .8496
RDE .0450 RRA -.6053 RC3 .2756 FAU .03331
FDE 1.6863 FRA 3.1319 FC3-1.3850 BSP 20063
BDE 2.0224 BRA 3.9902 BC3 3.0522 FSP -1418

MID-COURSE EXECUTION ACCURACY

SGT 6219.3 SGR 802.7 SG3 401.1
RRT -.8654 RRF -.8556 RTF .9825
SGB 6270.9 R23 .0038 R13 -.9825
SG1 6258.2 SG2 399.8 THA 173.60

ORBIT DETERMINATION ACCURACY

ST 2943.0 SR 235.1 SS 1293.2
CRT -.2837 CRS .2630 CST -.9997
LSA 3215.2 MSA 227.0 SSA 14.2
EL1 2943.8 EL2 225.4 ALF 178.69

LAUNCH DATE OCT 12 1965 FLIGHT TIME 204.00 ARRIVAL DATE MAY 4 1966

DISTANCE 571.002

HELIOCENTRIC CONIC

RL 149.29 LAL .00 LOL 18.46 VL 27.025 GAL 6.60 AZL 88.48 HCA 264.37 SMA 126.68 ECC .21121 INC 1.5211 V1 29.847
RP 108.86 LAP -1.51 LOP 282.83 VP 37.293 GAP 9.15 AZP 90.15 TAL 153.65 TAP 58.02 RCA 99.93 APO 153.44 V2 34.812
RC 134.395 GL 8.64 GP 16.82 ZAL 40.64 ZAP 155.13 ETS 38.21 ZAE 121.89 ETE 169.29 ZAC 34.81 ETC 176.67 CLP-161.40

PLANETOCENTRIC CONIC

C3 22.498 VHL 4.743 DLA -.33 RAL 336.99 RAD 6567.9 VEL 11.995 PTH 2.14 VHP 6.416 DPA -5.63 RAP 301.18 ECC 1.3703

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 29 44	2232.55	-20.00	42.62	200.09	110.47	9 6 56	1632.6	-17.04	35.20
90.00	20 22 55	4896.86	20.48	212.87	200.26	70.00	21 44 32	4296.9	17.57	205.40
100.00	9 50 55	1970.66	-21.07	22.92	199.65	111.71	10 23 46	1370.7	-17.94	15.53
100.00	21 44 24	4633.98	21.55	193.11	199.83	68.77	23 1 38	4034.0	18.48	185.66
110.00	10 58 49	1758.13	-23.94	5.44	198.31	115.16	11 28 7	1158.1	-20.35	358.14
110.00	22 53 0	4419.27	24.44	175.48	198.50	65.32	24 6 39	3819.3	20.90	168.12

DIFFERENTIAL CORRECTIONS

TDE 2.1743 TRA 4.1682 TC3-2.8390 BAU .8569
RDE .0664 RRA -.5916 RC3 .2366 FAU .02995
FDE 1.6693 FRA 3.0765 FC3-1.1523 BSP 20334
BDE 2.1753 BRA 4.2100 BC3 2.8488 FSP -1338

MID-COURSE EXECUTION ACCURACY

SGT 6285.2 SGR 753.3 SG3 377.3
RRT -.8432 RRF -.8327 RTF .9819
SGB 6330.1 R23 .0026 R13 -.9820
SG1 6317.3 SG2 403.0 THA 174.21

ORBIT DETERMINATION ACCURACY

ST 3030.9 SR 229.0 SS 1277.3
CRT -.1641 CRS .1471 CST -.9998
LSA 3289.1 MSA 226.9 SSA 14.1
EL1 3031.1 EL2 225.9 ALF 179.29

LAUNCH DATE OCT 12 1965 FLIGHT TIME 206.00 ARRIVAL DATE MAY 6 1966

HELIOCENTRIC CONIC DISTANCE 576.710

RL 149.29 LAL .00 LOL 18.46 VL 27.001 GAL 7.02 AZL 88.32 HCA 267.53 SMA 126.52 ECC .21640 INC 1.6807 V1 29.847
RP 108.87 LAP -1.68 LOP 285.99 VP 37.270 GAP 9.62 AZP 90.07 TAL 152.62 TAP 60.15 RCA 99.14 APO 153.90 V2 34.806
RC 136.709 GL 9.16 GP 16.06 ZAL 39.73 ZAP 156.66 ETS 39.44 ZAE 121.52 ETE 169.85 ZAC 36.50 ETC 175.26 CLP-162.83

PLANETOCENTRIC CONIC

C3 24.371 VHL 4.937 DLA .54 RAL 337.75 RAD 6568.0 VEL 12.073 PTH 2.16 VHP 6.672 DPA -6.09 RAP 302.97 ECC 1.4011

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 26 21	2278.82	-21.07	45.59	202.41	109.36	9 4 20	1678.8	-18.24	38.06
90.00	20 32 20	4889.63	20.31	212.41	202.13	69.83	21 53 49	4289.6	17.38	204.96
100.00	9 47 57	2015.64	-22.18	25.81	201.98	110.57	10 21 32	1415.6	-19.18	18.30
100.00	21 53 25	4628.04	21.41	192.73	201.68	68.62	23 10 33	4028.0	18.31	185.30
110.00	10 56 46	1800.24	-25.14	8.13	200.66	113.97	11 26 46	1200.2	-21.68	.68
110.00	23 1 6	4416.21	24.35	175.29	200.32	65.23	24 14 42	3816.2	20.80	167.94

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TOE 2.3315 TRA 4.4054 TC3-2.6379 BAU .8620 SGT 6344.2 SGR 708.8 SG3 355.1 ST 3111.4 SR 226.0 SS 1261.2
RDE .0878 RRA -.5793 RC3 .2027 FAU .02677 RRT -.8190 RRF -.8080 RTF .9814 CRT -.0486 CRS .0351 CST -.9998
FDE 1.6519 FRA 3.0259 FC3 -.9508 BSP 20572 SGB 6383.7 R23 .0015 R13 -.9815 LSA 3357.3 MSA 226.4 SSA 13.9
BDE 2.3331 BRA 4.4433 BC3 2.6457 FSP -1262 SG1 6370.9 SG2 405.0 THA 174.75 EL1 3111.5 EL2 225.8 ALF 179.80

LAUNCH DATE OCT 12 1965 FLIGHT TIME 208.00 ARRIVAL DATE MAY 8 1966

HELIOCENTRIC CONIC DISTANCE 582.369

RL 149.29 LAL .00 LOL 18.46 VL 26.977 GAL 7.48 AZL 88.16 HCA 270.69 SMA 126.37 ECC .22201 INC 1.8396 V1 29.847
RP 108.89 LAP -1.84 LOP 289.16 VP 37.247 GAP 10.10 AZP 89.98 TAL 151.58 TAP 62.28 RCA 98.31 APO 154.42 V2 34.801
RC 139.015 GL 9.61 GP 15.36 ZAL 38.84 ZAP 158.10 ETS 40.83 ZAE 121.16 ETE 170.35 ZAC 38.25 ETC 174.08 CLP-164.21

PLANETOCENTRIC CONIC

C3 26.464 VHL 5.144 DLA 1.33 RAL 338.52 RAD 6568.1 VEL 12.159 PTH 2.18 VHP 6.944 DPA -6.45 RAP 304.79 ECC 1.4355

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 23 33	2323.63	-22.06	48.51	204.81	108.22	9 2 17	1723.6	-19.36	40.87
90.00	20 41 14	4885.47	20.21	212.14	204.08	69.74	22 2 39	4285.5	17.27	204.70
100.00	9 45 30	2059.26	-23.19	28.65	204.39	109.41	10 19 50	1459.3	-20.33	21.02
100.00	22 1 58	4625.07	21.33	192.54	203.62	68.55	23 19 3	4025.1	18.23	185.12
110.00	10 55 10	1841.22	-26.24	10.80	203.10	112.73	11 25 51	1241.2	-22.93	3.21
110.00	23 8 47	4415.88	24.34	175.29	202.23	65.22	24 22 23	3815.9	20.79	167.92

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TOE 2.4934 TRA 4.6558 TC3-2.4388 BAU .8650 SGT 6396.2 SGR 668.4 SG3 334.3 ST 3184.2 SR 225.6 SS 1244.8
RDE .1094 RRA -.5679 RC3 .1731 FAU .02376 RRT -.7929 RRF -.7813 RTF .9810 CRT .0593 CRS -.0697 CST -.9999
FDE 1.6341 FRA 2.9796 FC3 -.7774 BSP 20786 SGB 6431.1 R23 .0005 R13 -.9810 LSA 3418.8 MSA 225.5 SSA 13.7
BDE 2.4958 BRA 4.6903 BC3 2.4449 FSP -1189 SG1 6418.2 SG2 405.9 THA 175.24 EL1 3184.2 EL2 225.2 ALF .24

LAUNCH DATE OCT 12 1965 FLIGHT TIME 210.00 ARRIVAL DATE MAY 10 1966

HELIOCENTRIC CONIC DISTANCE 587.972

RL 149.29 LAL .00 LOL 18.46 VL 26.952 GAL 7.97 AZL 88.00 HCA 273.85 SMA 126.21 ECC .22808 INC 1.9986 V1 29.847
RP 108.90 LAP -1.99 LOP 292.32 VP 37.225 GAP 10.60 AZP 89.87 TAL 150.54 TAP 64.39 RCA 97.42 APO 154.99 V2 34.797
RC 141.312 GL 9.99 GP 14.74 ZAL 37.96 ZAP 159.47 ETS 42.41 ZAE 120.82 ETE 170.80 ZAC 40.05 ETC 173.09 CLP-165.54

PLANETOCENTRIC CONIC

C3 28.806 VHL 5.367 DLA 2.05 RAL 339.28 RAD 6568.2 VEL 12.255 PTH 2.20 VHP 7.233 DPA -6.71 RAP 306.66 ECC 1.4741

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 21 15	2367.14	-22.95	51.38	207.29	107.05	9 0 42	1767.1	-20.40	43.64
90.00	20 49 39	4884.19	20.18	212.06	206.10	69.71	22 11 4	4284.2	17.24	204.62
100.00	9 43 33	2101.69	-24.12	31.46	206.89	108.21	10 18 35	1501.7	-21.41	23.71
100.00	22 10 3	4624.88	21.33	192.53	205.63	68.54	23 27 8	4024.9	18.22	185.11
110.00	10 53 59	1881.24	-27.27	13.46	205.63	111.46	11 25 20	1281.2	-24.11	5.72
110.00	23 16 6	4418.09	24.40	175.41	204.21	65.28	24 29 44	3818.1	20.86	168.05

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TOE 2.6639 TRA 4.9238 TC3-2.2379 BAU .8637 SGT 6443.8 SGR 631.5 SG3 315.1 ST 3253.1 SR 226.8 SS 1230.2
RDE .1309 RRA -.5574 RC3 .1468 FAU .02080 RRT -.7649 RRF -.7529 RTF .9806 CRT .1562 CRS -.1638 CST -.9999
FDE 1.6188 FRA 2.9402 FC3 -.6251 BSP 20903 SGB 6474.6 R23 -.0002 R13 -.9806 LSA 3478.0 MSA 224.2 SSA 13.5
BDE 2.6672 BRA 4.9552 BC3 2.2427 FSP -1116 SG1 6461.9 SG2 405.7 THA 175.70 EL1 3253.3 EL2 224.0 ALF .63

LAUNCH DATE OCT 12 1965 FLIGHT TIME 212.00 ARRIVAL DATE MAY 12 1966

HELIOCENTRIC CONIC DISTANCE 593.513

RL 149.29 LAL .00 LOL 18.46 VL 26.927 GAL 8.49 AZL 87.84 HCA 277.01 SMA 126.05 ECC .23465 INC 2.1587 V1 29.847
RP 108.92 LAP -2.14 LOP 295.48 VP 37.203 GAP 11.13 AZP 89.74 TAL 149.49 TAP 66.51 RCA 96.47 APO 155.62 V2 34.793
RC 143.598 GL 10.31 GP 14.16 ZAL 37.10 ZAP 160.76 ETS 44.20 ZAE 120.50 ETE 171.19 ZAC 41.90 ETC 172.25 CLP-166.85

PLANETOCENTRIC CONIC

C3 31.434 VHL 5.607 DLA 2.71 RAL 340.05 RAD 6568.3 VEL 12.361 PTH 2.23 VHP 7.541 DPA -6.89 RAP 308.55 ECC 1.5173

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 19 25	2409.50	-23.77	54.22	209.84	105.86	8 59 34	1809.5	-21.37	46.37
90.00	20 57 37	4885.61	20.21	212.15	208.19	69.74	22 19 3	4285.6	17.27	204.71
100.00	9 42 1	2143.06	-24.98	34.24	209.46	106.98	10 17 44	1543.1	-22.41	26.38
100.00	22 17 42	4627.29	21.39	192.68	207.72	68.60	23 34 49	4027.3	18.29	185.25
110.00	10 53 9	1920.39	-28.21	16.12	208.24	110.15	11 25 10	1320.4	-25.21	8.23
110.00	23 23 3	4422.72	24.53	175.70	206.27	65.41	24 36 46	3822.7	21.01	168.33

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TOE 2.8361 TRA 5.2034 TC3-2.0477 BAU .8621 SGT 6481.7 SGR 597.3 SG3 296.9 ST 3309.9 SR 229.5 SS 1213.9
RDE .1532 RRA -.5466 RC3 .1244 FAU .01816 RRT -.7346 RRF -.7224 RTF .9804 CRT .2442 CRS -.2494 CST -.9999
FDE 1.6012 FRA 2.9024 FC3 -.5001 BSP 21096 SGB 6509.1 R23 -.0009 R13 -.9804 LSA 3525.9 MSA 222.6 SSA 13.3
BDE 2.8403 BRA 5.2320 BC3 2.0514 FSP -1053 SG1 6496.5 SG2 404.3 THA 176.11 EL1 3310.4 EL2 222.5 ALF .97

LAUNCH DATE OCT 12 1965 FLIGHT TIME 214.00 ARRIVAL DATE MAY 14 1966

HELIOCENTRIC CONIC DISTANCE 598.983

RL 149.29 LAL .00 LOL 18.46 VL 26.902 GAL 9.05 AZL 87.68 HCA 280.17 SMA 125.89 ECC .24178 INC 2.3210 V1 29.847
RP 108.93 LAP -2.28 LOP 298.64 VP 37.182 GAP 11.69 AZP 89.59 TAL 148.45 TAP 68.62 RCA 95.45 APO 156.32 V2 34.790
RC 145.874 GL 10.57 GP 13.64 ZAL 36.26 ZAP 161.98 ETS 46.25 ZAE 120.18 ETE 171.55 ZAC 43.78 ETC 171.54 CLP-168.12

PLANETOCENTRIC CONIC

C3 34.389 VHL 5.864 DLA 3.31 RAL 340.81 RAD 6568.4 VEL 12.480 PTH 2.26 VHP 7.869 DPA -6.99 RAP 310.47 ECC 1.5660

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 17 58	2450.82	-24.51	57.02	212.46	104.64	8 58 49	1850.8	-22.26	49.07
90.00	21 5 8	4889.58	20.31	212.41	210.35	69.83	22 26 38	4289.6	17.38	204.96
100.00	9 40 52	2183.47	-25.75	36.99	212.09	105.73	10 17 15	1583.5	-23.34	29.02
100.00	22 24 56	4632.16	21.51	192.99	209.86	68.73	23 42 8	4032.2	18.43	185.55
110.00	10 52 39	1958.78	-29.09	18.76	210.92	108.80	11 25 18	1358.8	-26.24	10.73
110.00	23 29 38	4429.62	24.73	176.14	208.39	65.61	24 43 28	3829.6	21.23	168.75

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE 3.0157 TRA 5.5003 TC3-1.8617 BAU .8573 SGT 6513.5 SGR 565.3 SG3 279.9 ST 3360.6 SR 233.0 SS 1198.6
RDE .1758 RRA -.5358 RC3 .1047 FAU .01564 RRT -.7020 RRF -.6898 RTF .9803 CRT .3217 CRS -.3249 CST -.9999
FDE 1.5849 FRA 2.8697 FC3 -.3937 BSP 21265 SGB 6538.0 R23 -.0014 R13 -.9803 LSA 3568.7 MSA 220.5 SSA 13.1
BDE 3.0208 BRA 5.5264 BC3 1.8647 FSP -993 SG1 6525.6 SG2 401.9 THA 176.50 EL1 3361.4 EL2 220.5 ALF 1.28

LAUNCH DATE OCT 12 1965 FLIGHT TIME 216.00 ARRIVAL DATE MAY 16 1966

HELIOCENTRIC CONIC DISTANCE 604.373

RL 149.29 LAL .00 LOL 18.46 VL 26.877 GAL 9.66 AZL 87.51 HCA 283.33 SMA 125.72 ECC .24953 INC 2.4865 V1 29.847
RP 108.93 LAP -2.42 LOP 301.80 VP 37.162 GAP 12.28 AZP 89.43 TAL 147.42 TAP 70.75 RCA 94.35 APO 157.10 V2 34.787
RC 148.138 GL 10.79 GP 13.17 ZAL 35.45 ZAP 163.14 ETS 48.59 ZAE 119.88 ETE 171.88 ZAC 45.68 ETC 170.94 CLP-169.37

PLANETOCENTRIC CONIC

C3 37.723 VHL 6.142 DLA 3.85 RAL 341.57 RAD 6568.5 VEL 12.613 PTH 2.29 VHP 8.219 DPA -7.01 RAP 312.41 ECC 1.6208

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 16 54	2491.20	-25.18	59.79	215.13	103.40	8 58 25	1891.2	-23.08	51.75
90.00	21 12 13	4895.96	20.46	212.81	212.56	69.98	22 33 49	4296.0	17.55	205.35
100.00	9 40 3	2223.01	-26.45	39.72	214.78	104.46	10 17 6	1623.0	-24.20	31.64
100.00	22 31 46	4639.38	21.69	193.45	212.07	68.91	23 49 5	4039.4	18.63	186.00
110.00	10 52 26	1996.47	-29.88	21.41	213.67	107.43	11 25 42	1396.5	-27.21	13.24
110.00	23 35 52	4438.68	24.98	176.73	210.57	65.87	24 49 51	3838.7	21.51	169.30

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE 3.2033 TRA 5.8164 TC3-1.6809 BAU .8488 SGT 6539.6 SGR 535.3 SG3 264.1 ST 3405.1 SR 236.9 SS 1184.4
RDE .1989 RRA -.5246 RC3 .0875 FAU .01324 RRT -.6669 RRF -.6548 RTF .9803 CRT .3897 CRS -.3912 CST -.9999
FDE 1.5703 FRA 2.8421 FC3 -.3038 BSP 21404 SGB 6561.5 R23 -.0019 R13 -.9803 LSA 3606.4 MSA 218.1 SSA 12.8
BDE 3.2094 BRA 5.8400 BC3 1.6831 FSP -937 SG1 6549.4 SG2 398.3 THA 176.86 EL1 3406.4 EL2 218.1 ALF 1.56

LAUNCH DATE OCT 12 1965 FLIGHT TIME 218.00 ARRIVAL DATE MAY 18 1966

HELIOCENTRIC CONIC DISTANCE 609.672

RL 149.29 LAL .00 LOL 18.46 VL 26.852 GAL 10.31 AZL 87.34 HCA 286.49 SMA 125.56 ECC .25797 INC 2.6564 V1 29.847
RP 108.94 LAP -2.55 LOP 304.96 VP 37.142 GAP 12.91 AZP 89.25 TAL 146.40 TAP 72.89 RCA 93.17 APO 157.96 V2 34.786
RC 150.390 GL 10.96 GP 12.73 ZAL 34.66 ZAP 164.22 ETS 51.28 ZAE 119.58 ETE 172.18 ZAC 47.60 ETC 170.43 CLP-170.60

PLANETOCENTRIC CONIC

C3 41.496 VHL 6.442 DLA 4.35 RAL 342.31 RAD 6568.6 VEL 12.762 PTH 2.32 VHP 8.595 DPA -6.97 RAP 314.35 ECC 1.6829

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 16 9	2530.68	-25.77	62.53	217.85	102.16	8 58 20	1930.7	-23.84	54.39
90.00	21 18 53	4904.63	20.66	213.37	214.82	70.19	22 40 38	4304.6	17.77	205.89
100.00	9 39 32	2261.73	-27.08	42.42	217.52	103.16	10 17 14	1661.7	-25.00	34.24
100.00	22 38 11	4648.81	21.92	194.06	214.32	69.15	23 55 40	4048.8	18.88	186.58
110.00	10 52 28	2033.50	-30.61	24.05	216.47	106.02	11 26 21	1433.5	-28.11	15.74
110.00	23 41 45	4449.80	25.29	177.44	212.81	66.20	24 55 55	3849.8	21.85	169.98

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE 3.4036 TRA 6.1570 TC3-1.5024 BAU .8344 SGT 6563.1 SGR 506.9 SG3 249.6 ST 3447.1 SR 240.8 SS 1172.9
RDE .2224 RRA -.5127 RC3 .0720 FAU .01085 RRT -.6290 RRF -.6173 RTF .9804 CRT .4490 CRS -.4491 CST -.9999
FDE 1.5596 FRA 2.8216 FC3 -.2263 BSP 21434 SGB 6582.7 R23 -.0022 R13 -.9804 LSA 3642.8 MSA 215.0 SSA 12.6
BDE 3.4108 BRA 6.1783 BC3 1.5041 FSP -879 SG1 6570.9 SG2 393.6 THA 177.21 EL1 3448.8 EL2 215.0 ALF 1.80

LAUNCH DATE OCT 12 1965 FLIGHT TIME 220.00 ARRIVAL DATE MAY 20 1966

HELIOCENTRIC CONIC DISTANCE 614.864

RL 149.29 LAL .00 LOL 18.46 VL 26.827 GAL 11.01 AZL 87.17 HCA 289.64 SMA 125.41 ECC .26718 INC 2.8320 V1 29.847
RP 108.94 LAP -2.67 LOP 308.13 VP 37.123 GAP 13.58 AZP 89.05 TAL 145.40 TAP 75.05 RCA 91.90 APO 158.91 V2 34.785
RC 152.629 GL 11.09 GP 12.34 ZAL 33.89 ZAP 165.24 ETS 54.36 ZAE 119.28 ETE 172.45 ZAC 49.53 ETC 169.99 CLP-171.82

PLANETOCENTRIC CONIC

C3 45.781 VHL 6.766 DLA 4.79 RAL 343.03 RAD 6568.7 VEL 12.928 PTH 2.36 VHP 8.999 DPA -6.87 RAP 316.30 ECC 1.7534

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 15 43	2569.30	-26.30	65.24	220.60	100.90	8 58 32	1969.3	-24.53	57.01
90.00	21 25 7	4915.49	20.91	214.07	217.13	70.46	22 47 2	4315.5	18.05	206.56
100.00	9 39 18	2299.66	-27.64	45.10	220.30	101.86	10 17 38	1699.7	-25.73	36.82
100.00	22 44 12	4660.36	22.19	194.80	216.62	69.45	24 1 53	4060.4	19.20	187.29
110.00	10 52 43	2069.92	-31.26	26.68	219.32	104.58	11 27 13	1469.9	-28.95	18.25
110.00	23 47 17	4462.87	25.65	178.29	215.10	66.58	25 1 40	3862.9	22.25	170.78

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE 3.6080 TRA 6.5150 TC3-1.3363 BAU .8187 SGT 6576.8 SGR 479.8 SG3 235.7 ST 3477.9 SR 244.9 SS 1160.9
RDE .2470 RRA -.4994 RC3 .0590 FAU .00871 RRT -.5877 RRF -.5765 RTF .9807 CRT .5019 CRS -.5010 CST -.9999
FDE 1.5480 FRA 2.8036 FC3 -.1647 BSP 21575 SGB 6594.3 R23 -.0024 R13 -.9807 LSA 3668.6 MSA 211.7 SSA 12.3
BDE 3.6165 BRA 6.5341 BC3 1.3376 FSP -831 SG1 6582.9 SG2 387.8 THA 177.54 EL1 3480.1 EL2 211.6 ALF 2.03

LAUNCH DATE OCT 13 1965 FLIGHT TIME 70.00 ARRIVAL DATE DEC 22 1965

HELIOCENTRIC CONIC DISTANCE 141.823

RL	149.24	LAL	.00	LOL	19.45	VL	18.885	GAL	14.15	AZL	90.59	HCA	49.30	SMA	93.34	ECC	.63010	INC	.5947	V1	29.856
RP	107.87	LAP	-.45	LOP	68.75	VP	32.231	GAP	-38.18	AZP	90.39	TAL	171.32	TAP	220.63	RCA	34.53	APO	152.15	V2	35.132
RC	60.751	GL	-.86	GP	-4.30	ZAL	66.12	ZAP	26.87	ETS	168.23	ZAE	144.91	ETE	186.32	ZAC	20.96	ETC	114.50	CLP	26.55

PLANETOCENTRIC CONIC

C3	159.319	VHL	12.622	DLA	-17.65	RAL	316.06	RAD	6570.7	VEL	16.752	PTH	2.90	VHP	22.098	DPA	-28.74	RAP	275.69	ECC	3.6220

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 24 13	2112.16	-16.96	35.10	206.71	113.02	9 59 25	1512.2	-13.70	27.94
90.00	16 33 32	635.26	24.91	307.29	220.36	103.93	16 44 7	35.3	26.58	299.02
100.00	10 35 15	1882.96	-18.77	17.43	205.89	113.70	11 6 38	1283.0	-15.40	10.25
100.00	18 5 11	5627.74	26.82	263.98	220.88	103.72	19 38 59	5027.7	28.44	255.55
110.00	11 20 52	1740.02	-23.42	4.30	203.61	115.65	11 49 52	1140.0	-19.77	357.06
110.00	19 36 3	5343.44	31.79	243.76	222.25	103.28	21 5 7	4743.4	33.29	234.85

DIFFERENTIAL CORRECTIONS

TDE	-.4869	TRA	-1.5382	TC3	-.1183	BAU	.2529
RDE	-.9013	RRA	.3916	RC3	-.0104	FAU	.01329
FDE	.2453	FRA	.6456	FC3	-.0722	BSP	2206
BDE	1.0244	BRA	1.5872	BC3	.1188	FSP	-68

MID-COURSE EXECUTION ACCURACY

SGT	821.5	SGR	450.4	SG3	32.4		
RRT	-.1039	RRF	.0982	RTF	-.6355		
SGB	936.9	R23	-.0045	R13	.6364		
SG1	823.4	SG2	446.9	THA	175.38		

ORBIT DETERMINATION ACCURACY

ST	311.9	SR	412.9	SS	276.3		
CRT	.6068	CRS	.6760	CST	.9937		
LSA	530.5	MSA	249.9	SSA	13.8		
EL1	469.2	EL2	218.1	ALF	57.56		

LAUNCH DATE OCT 13 1965 FLIGHT TIME 72.00 ARRIVAL DATE DEC 24 1965

HELIOCENTRIC CONIC DISTANCE 147.896

RL	149.24	LAL	.00	LOL	19.45	VL	19.519	GAL	13.56	AZL	90.33	HCA	52.52	SMA	94.97	ECC	.60304	INC	.3286	V1	29.856
RP	107.83	LAP	-.26	LOP	71.97	VP	32.620	GAP	-36.38	AZP	90.20	TAL	170.68	TAP	223.20	RCA	37.70	APO	152.23	V2	35.144
RC	58.824	GL	-.52	GP	-4.45	ZAL	65.01	ZAP	25.38	ETS	167.38	ZAE	145.56	ETE	187.41	ZAC	21.92	ETC	118.21	CLP	25.01

PLANETOCENTRIC CONIC

C3	144.007	VHL	12.000	DLA	-17.00	RAL	317.07	RAD	6570.6	VEL	16.289	PTH	2.85	VHP	21.187	DPA	-28.90	RAP	277.61	ECC	3.3700

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 21 47	2118.65	-17.13	35.50	206.53	112.90	9 57 5	1518.7	-13.88	28.33
90.00	16 44 1	5880.54	25.57	282.25	219.85	102.59	18 22 1	5280.5	27.05	273.89
100.00	10 33 23	1887.58	-18.89	17.72	205.73	113.61	11 4 51	1287.6	-15.54	10.53
100.00	18 15 5	5586.85	27.45	261.10	220.32	102.33	19 48 12	4986.8	28.87	252.59
110.00	11 20 11	1740.97	-23.44	4.36	203.50	115.62	11 49 12	1141.0	-19.80	357.12
110.00	19 44 47	5306.22	32.34	241.00	221.52	101.73	21 13 13	4706.2	33.62	232.00

DIFFERENTIAL CORRECTIONS

TDE	-.4948	TRA	-1.5468	TC3	-.1251	BAU	.2422
RDE	-.8600	RRA	.3889	RC3	-.0129	FAU	.01349
FDE	.2620	FRA	.6709	FC3	-.0811	BSP	2307
BDE	.9922	BRA	1.5950	BC3	.1258	FSP	-75

MID-COURSE EXECUTION ACCURACY

SGT	861.6	SGR	455.3	SG3	35.2		
RRT	-.1112	RRF	.1064	RTF	-.6551		
SGB	974.5	R23	-.0060	R13	.6559		
SG1	863.7	SG2	451.4	THA	175.37		

ORBIT DETERMINATION ACCURACY

ST	331.0	SR	414.7	SS	293.9		
CRT	.6084	CRS	.6834	CST	.9931		
LSA	549.6	MSA	256.3	SSA	14.0		
EL1	479.5	EL2	227.2	ALF	55.25		

LAUNCH DATE OCT 13 1965 FLIGHT TIME 74.00 ARRIVAL DATE DEC 26 1965

HELIOCENTRIC CONIC DISTANCE 154.051

RL	149.24	LAL	.00	LOL	19.45	VL	20.111	GAL	12.97	AZL	90.08	HCA	55.74	SMA	96.59	ECC	.57675	INC	.0839	V1	29.856
RP	107.80	LAP	-.07	LOP	75.19	VP	32.989	GAP	-34.67	AZP	90.05	TAL	170.07	TAP	225.81	RCA	40.88	APO	152.29	V2	35.155
RC	56.947	GL	-.15	GP	-4.60	ZAL	63.96	ZAP	23.91	ETS	166.39	ZAE	146.31	ETE	188.64	ZAC	22.98	ETC	121.63	CLP	23.49

PLANETOCENTRIC CONIC

C3	130.239	VHL	11.412	DLA	-16.34	RAL	317.99	RAD	6570.4	VEL	15.861	PTH	2.81	VHP	20.311	DPA	-29.05	RAP	279.56	ECC	3.1434

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 19 2	2124.50	-17.29	35.86	206.22	112.78	9 54 26	1524.5	-14.05	28.67
90.00	16 54 10	5836.86	26.19	279.19	219.17	101.18	18 31 27	5236.9	27.47	270.76
100.00	10 31 12	1891.61	-19.00	17.96	205.45	113.52	11 2 44	1291.6	-15.66	10.77
100.00	18 24 41	5544.98	28.02	258.12	219.57	100.87	19 57 6	4945.0	29.23	249.53
110.00	11 19 9	1741.41	-23.46	4.39	203.27	115.61	11 48 11	1141.4	-19.82	357.14
110.00	19 53 13	5267.94	32.83	238.12	220.60	100.09	21 21 1	4667.9	33.88	229.04

DIFFERENTIAL CORRECTIONS

TDE	-.4995	TRA	-1.5528	TC3	-.1309	BAU	.2296
RDE	-.8193	RRA	.3854	RC3	-.0160	FAU	.01373
FDE	.2789	FRA	.6965	FC3	-.0913	BSP	2479
BDE	.9596	BRA	1.5999	BC3	.1319	FSP	-83

MID-COURSE EXECUTION ACCURACY

SGT	901.2	SGR	459.5	SG3	38.2		
RRT	-.1200	RRF	.1154	RTF	-.6744		
SGB	1011.6	R23	-.0068	R13	.6752		
SG1	903.4	SG2	455.1	THA	175.30		

ORBIT DETERMINATION ACCURACY

ST	349.8	SR	415.8	SS	312.0		
CRT	.6080	CRS	.6899	CST	.9923		
LSA	568.8	MSA	262.2	SSA	14.2		
EL1	489.5	EL2	235.9	ALF	52.96		

LAUNCH DATE OCT 13 1965 FLIGHT TIME 76.00 ARRIVAL DATE DEC 28 1965

HELIOCENTRIC CONIC DISTANCE 160.285

RL	149.24	LAL	.00	LOL	19.45	VL	20.663	GAL	12.40	AZL	89.86	HCA	58.97	SMA	98.19	ECC	.55129	INC	.1408	V1	29.856
RP	107.76	LAP	.12	LOP	78.42	VP	33.340	GAP	-33.04	AZP	89.93	TAL	169.48	TAP	228.44	RCA	44.06	APO	152.33	V2	35.166
RC	55.125	GL	.26	GP	-4.77	ZAL	62.98	ZAP	22.47	ETS	165.25	ZAE	147.18	ETE	190.05	ZAC	24.13	ETC	124.76	CLP	21.99

PLANETOCENTRIC CONIC

C3	117.849	VHL	10.856	DLA	-15.65	RAL	318.84	RAD	6570.2	VEL	15.466	PTH	2.76	VHP	19.467	DPA	-29.18	RAP	281.53	ECC	2.9395

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 15 58	2129.79	-17.42	36.18	205.80	112.68	9 51 28	1529.8	-14.20	28.99
90.00	17 4 1	5792.23	26.74	276.04	218.30	99.69	18 40 33	5192.2	27.80	267.54
100.00	10 28 41	1895.15	-19.10	18.18	205.05	113.44	11 0 16	1295.2	-15.76	10.98
100.00	18 33 59	5502.10	28.53	255.04	218.64	99.32	20 5 41	4902.1	29.52	246.38
110.00	11 17 45	1741.43	-23.46	4.39	202.92	115.61	11 46 47	1141.4	-19.82	357.14
110.00	20 1 24	5228.59	33.26	235.13	219.49	98.37	21 28 32	4628.6	34.06	225.98

DIFFERENTIAL CORRECTIONS

TDE	-.5040	TRA	-1.5587	TC3	-.1363	BAU	.2169
RDE	-.7790	RRA	.3811	RC3	-.0196	FAU	.01400
FDE	.2966	FRA	.7228	FC3	-.1028	BSP	2650
BDE	.9278	BRA	1.6046	BC3	.1377	FSP	-92

MID-COURSE EXECUTION ACCURACY

SGT	942.4	SGR	463.1	SG3	41.6		
RRT	-.1295	RRF	.1252	RTF	-.6929		
SGB	1050.1	R23	-.0078	R13	.6938		
SG1	944.9	SG2	458.0	THA	175.24		

ORBIT DETERMINATION ACCURACY

ST	369.5	SR	415.9	SS	330.8		
CRT	.6072	CRS	.6957	CST	.9914		
LSA	589.2	MSA	267.5	SSA	14.4		
EL1	499.8	EL2	244.3	ALF	50.53		

LAUNCH DATE OCT 13 1965 FLIGHT TIME 78.00 ARRIVAL DATE DEC 30 1965

HELIOCENTRIC CONIC DISTANCE 166,591

RL	149.24	LAL	.00	LOL	19.45	VL	21.178	GAL	11.84	AZL	89.65	HCA	62.19	SMA	99.79	ECC	.52670	INC	.3525	V1	29.856
RP	107.73	LAP	.31	LOP	81.64	VP	33.672	GAP	-31.49	AZP	89.84	TAL	168.91	TAP	231.11	RCA	47.23	APO	152.34	V2	35.176
RC	53.365	GL	.71	GP	-4.95	ZAL	62.06	ZAP	21.06	ETS	163.92	ZAE	148.16	ETE	191.67	ZAC	25.38	ETC	127.61	CLP	20.50

PLANETOCENTRIC CONIC

C3 106.694 VHL 10.329 DLA -14.95 RAL 319.61 RAD 6570.0 VEL 15.101 PTH 2.72 VHP 18.653 DPA -29.31 RAP 283.52 ECC 2.7559

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 12 33	2134.64	-17.55	36.48	205.27	112.58	9 48 8	1534.6	-14.34	29.28
90.00	17 13 34	5746.63	27.22	272.79	217.25	98.13	18 49 21	5146.6	28.06	264.23
100.00	10 25 48	1898.30	-19.18	18.38	204.54	113.37	10 57 27	1298.3	-15.86	11.16
100.00	18 43 0	5458.21	28.97	251.85	217.53	97.70	20 13 59	4858.2	29.74	243.13
110.00	11 15 59	1741.10	-23.45	4.37	202.45	115.62	11 45 0	1141.1	-19.81	357.12
110.00	20 9 19	5188.17	33.62	232.03	218.21	96.57	21 35 47	4588.2	34.16	222.83

DIFFERENTIAL CORRECTIONS

TDE	-.5100	TRA	-1.5666	TC3	-.1418	BAU	.2051
RDE	-.7393	RRA	.3764	RC3	-.0237	FAU	.01428
FDE	.3152	FRA	.7502	FC3	-.1159	BSP	2772
BDE	.8981	BRA	1.6111	BC3	.1438	FSP	-102

MID-COURSE EXECUTION ACCURACY

SGT	987.3	SGR	466.1	SG3	45.2		
RRT	-.1390	RRF	.1358	RTF	-.7102		
SGB	1091.8	R23	-.0098	R13	.7112		
SG1	990.1	SG2	460.3	THA	175.21		

ORBIT DETERMINATION ACCURACY

ST	391.0	SR	415.2	SS	350.6
CRT	.6069	CRS	.7011	CST	.9906
LSA	611.5	MSA	272.0	SSA	14.6
EL1	511.5	EL2	252.2	ALF	47.82

LAUNCH DATE OCT 13 1965 FLIGHT TIME 80.00 ARRIVAL DATE JAN 1 1966

HELIOCENTRIC CONIC DISTANCE 172,963

RL	149.24	LAL	.00	LOL	19.45	VL	21.658	GAL	11.29	AZL	89.45	HCA	65.42	SMA	101.35	ECC	.50301	INC	.5519	V1	29.856
RP	107.70	LAP	.50	LOP	84.87	VP	33.987	GAP	-30.01	AZP	89.77	TAL	168.39	TAP	233.81	RCA	50.37	APO	152.34	V2	35.186
RC	51.675	GL	1.19	GP	-5.16	ZAL	61.21	ZAP	19.68	ETS	162.35	ZAE	149.26	ETE	193.53	ZAC	26.69	ETC	130.19	CLP	19.01

PLANETOCENTRIC CONIC

C3 96.646 VHL 9.831 DLA -14.23 RAL 320.30 RAD 6569.9 VEL 14.764 PTH 2.67 VHP 17.868 DPA -29.43 RAP 285.54 ECC 2.5905

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 8 47	2139.18	-17.67	36.76	204.62	112.49	9 44 26	1539.2	-14.47	29.55
90.00	17 22 51	5700.04	27.62	269.44	216.03	96.50	18 57 51	5100.0	28.23	260.83
100.00	10 22 33	1901.16	-19.26	18.56	203.91	113.31	10 54 14	1301.2	-15.94	11.34
100.00	18 51 46	5413.29	29.34	248.56	216.25	96.00	20 21 59	4813.3	29.86	239.80
110.00	11 13 50	1740.53	-23.43	4.33	201.88	115.63	11 42 51	1140.5	-19.79	357.09
110.00	20 16 58	5146.69	33.90	228.82	216.75	94.69	21 42 45	4546.7	34.18	219.59

DIFFERENTIAL CORRECTIONS

TDE	-.5137	TRA	-1.5719	TC3	-.1459	BAU	.1921
RDE	-.7001	RRA	.3711	RC3	-.0286	FAU	.01462
FDE	.3345	FRA	.7782	FC3	-.1309	BSP	2950
BDE	.8683	BRA	1.6151	BC3	.1487	FSP	-112

MID-COURSE EXECUTION ACCURACY

SGT	1032.1	SGR	468.4	SG3	49.1		
RRT	-.1501	RRF	.1477	RTF	-.7273		
SGB	1133.4	R23	-.0113	R13	.7282		
SG1	1035.1	SG2	461.8	THA	175.13		

ORBIT DETERMINATION ACCURACY

ST	412.4	SR	413.5	SS	371.1
CRT	.6051	CRS	.7057	CST	.9896
LSA	634.4	MSA	275.9	SSA	14.8
EL1	523.2	EL2	259.5	ALF	45.12

LAUNCH DATE OCT 13 1965 FLIGHT TIME 82.00 ARRIVAL DATE JAN 3 1966

HELIOCENTRIC CONIC DISTANCE 179,397

RL	149.24	LAL	.00	LOL	19.45	VL	22.107	GAL	10.75	AZL	89.26	HCA	68.65	SMA	102.90	ECC	.48025	INC	.7413	V1	29.856
RP	107.67	LAP	.69	LOP	88.10	VP	34.284	GAP	-28.59	AZP	89.73	TAL	167.89	TAP	236.54	RCA	53.48	APO	152.31	V2	35.196
RC	50.062	GL	1.72	GP	-5.38	ZAL	60.43	ZAP	18.32	ETS	160.50	ZAE	150.46	ETE	195.70	ZAC	28.08	ETC	132.52	CLP	17.54

PLANETOCENTRIC CONIC

C3 87.593 VHL 9.359 DLA -13.48 RAL 320.91 RAD 6569.7 VEL 14.455 PTH 2.63 VHP 17.111 DPA -29.54 RAP 287.56 ECC 2.4416

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 4 37	2143.55	-17.78	37.03	203.87	112.40	9 40 21	1543.6	-14.59	29.81
90.00	17 31 52	5652.45	27.94	266.00	214.65	94.80	19 6 4	5052.5	28.31	257.35
100.00	10 18 54	1903.90	-19.33	18.73	203.18	113.25	10 50 38	1303.9	-16.02	11.50
100.00	19 0 16	5367.34	29.62	245.18	214.80	94.24	20 29 44	4767.3	29.89	236.38
110.00	11 11 16	1739.86	-23.41	4.29	201.19	115.65	11 40 16	1139.9	-19.76	357.05
110.00	20 24 23	5104.14	34.09	225.51	215.12	92.74	21 49 27	4504.1	34.09	216.27

DIFFERENTIAL CORRECTIONS

TDE	-.5169	TRA	-1.5767	TC3	-.1490	BAU	.1791
RDE	-.6615	RRA	.3654	RC3	-.0342	FAU	.01498
FDE	.3548	FRA	.8071	FC3	-.1481	BSP	3131
BDE	.8395	BRA	1.6185	BC3	.1529	FSP	-124

MID-COURSE EXECUTION ACCURACY

SGT	1078.5	SGR	470.1	SG3	53.4		
RRT	-.1623	RRF	.1606	RTF	-.7435		
SGB	1176.5	R23	-.0129	R13	.7445		
SG1	1081.8	SG2	462.5	THA	175.04		

ORBIT DETERMINATION ACCURACY

ST	434.6	SR	410.8	SS	392.5
CRT	.6027	CRS	.7099	CST	.9885
LSA	658.5	MSA	278.9	SSA	15.0
EL1	535.6	EL2	266.0	ALF	42.33

LAUNCH DATE OCT 13 1965 FLIGHT TIME 84.00 ARRIVAL DATE JAN 5 1966

HELIOCENTRIC CONIC DISTANCE 185,887

RL	149.24	LAL	.00	LOL	19.45	VL	22.525	GAL	10.23	AZL	89.08	HCA	71.88	SMA	104.41	ECC	.45843	INC	.9226	V1	29.856
RP	107.64	LAP	.88	LOP	91.33	VP	34.564	GAP	-27.23	AZP	89.71	TAL	167.44	TAP	239.32	RCA	56.54	APO	152.27	V2	35.204
RC	48.537	GL	2.30	GP	-5.62	ZAL	59.71	ZAP	17.00	ETS	158.29	ZAE	151.76	ETE	198.24	ZAC	29.52	ETC	134.62	CLP	16.07

PLANETOCENTRIC CONIC

C3 79.437 VHL 8.913 DLA -12.71 RAL 321.44 RAD 6569.6 VEL 14.170 PTH 2.58 VHP 16.381 DPA -29.65 RAP 289.60 ECC 2.3073

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 0 2	2147.94	-17.90	37.31	203.01	112.32	9 35 50	1547.9	-14.72	30.07
90.00	17 40 39	5603.84	28.17	262.46	213.11	93.04	19 14 3	5003.8	28.29	253.79
100.00	10 14 49	1906.66	-19.41	18.90	202.34	113.19	10 46 36	1306.7	-16.10	11.66
100.00	19 8 33	5320.35	29.80	241.70	213.20	92.42	20 37 13	4720.3	29.82	232.89
110.00	11 8 17	1739.22	-23.39	4.25	200.40	115.67	11 37 16	1139.2	-19.74	357.01
110.00	20 31 34	5060.55	34.18	222.11	213.34	90.73	21 55 55	4460.6	33.90	212.88

DIFFERENTIAL CORRECTIONS

TDE	-.5196	TRA	-1.5804	TC3	-.1508	BAU	.1659
RDE	-.6235	RRA	.3595	RC3	-.0408	FAU	.01539
FDE	.3762	FRA	.8371	FC3	-.1677	BSP	3323
BDE	.8116	BRA	1.6208	BC3	.1562	FSP	-137

MID-COURSE EXECUTION ACCURACY

SGT	1126.3	SGR	471.2	SG3	58.1		
RRT	-.1758	RRF	.1750	RTF	-.7591		
SGB	1220.9	R23	-.0147	R13	.7602		
SG1	1129.9	SG2	462.4	THA	174.94		

ORBIT DETERMINATION ACCURACY

ST	457.5	SR	407.1	SS	415.0
CRT	.5998	CRS	.7135	CST	.9873
LSA	684.0	MSA	281.2	SSA	15.1
EL1	548.9	EL2	271.5	ALF	39.48

LAUNCH DATE OCT 13 1965 FLIGHT TIME 86.00 ARRIVAL DATE JAN 7 1966

HELIOCENTRIC CONIC DISTANCE 192.427

RL	149.24	LAL	.00	LOL	19.45	VL	22.915	GAL	9.72	AZL	88.90	HCA	75.12	SMA	105.88	ECC	.43755	INC	1.0976	V1	29.856
RP	107.62	LAP	1.06	LOP	94.57	VP	34.828	GAP	-25.93	AZP	89.72	TAL	167.02	TAP	242.14	RCA	59.55	APO	152.21	V2	35.213
RC	47.108	GL	2.92	GP	-5.89	ZAL	59.07	ZAP	15.73	ETS	155.64	ZAE	153.14	ETE	201.23	ZAC	31.02	ETC	136.52	CLP	14.61

PLANETOCENTRIC CONIC

C3	72.091	VHL	8.491	DLA	-11.91	RAL	321.88	RAD	6569.4	VEL	13.908	PTH	2.54	VHP	15.676	DPA	-29.76	RAP	291.66	ECC	2.1864

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 55 1	2152.53	-18.02	37.59	202.05	112.22	9 30 53	1552.5	-14.85	30.35
90.00	17 49 12	5554.19	28.29	258.83	211.42	91.22	19 21 46	4954.2	28.16	250.17
100.00	10 10 18	1909.64	-19.49	19.08	201.40	113.13	10 42 8	1309.6	-16.19	11.84
100.00	19 16 36	5272.31	29.89	238.13	211.45	90.54	20 44 29	4672.3	29.64	229.33
110.00	11 4 51	1738.80	-23.38	4.23	199.51	115.68	11 33 50	1138.8	-19.73	356.99
110.00	20 38 33	5015.92	34.16	218.62	211.41	88.66	22 2 8	4415.9	33.60	209.43

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY				ORBIT DETERMINATION ACCURACY			
TDE	-.5220	TRA	-1.5834	TC3	-.1510	BAU	.1528	SGT	1175.7	SGR	471.8	SG3	63.2	ST	481.1	SR	402.2	SS	438.5
RDE	-.5861	RRA	.3534	RC3	-.0483	FAU	.01585	RRT	.1907	RRF	.1911	RTF	-.7739	CRT	.5963	CRS	.7165	CST	.9861
FDE	.3990	FRA	.8683	FC3	-.1903	BSP	3517	SGB	1266.8	R23	-.0169	R13	.7750	LSA	711.0	MSA	282.6	SSA	15.3
BDE	.7849	BRA	1.6223	BC3	.1586	FSP	-152	SG1	1179.8	SG2	461.5	THA	174.83	EL1	563.2	EL2	275.8	ALF	36.60

LAUNCH DATE OCT 13 1965 FLIGHT TIME 88.00 ARRIVAL DATE JAN 9 1966

HELIOCENTRIC CONIC DISTANCE 199.013

RL	149.24	LAL	.00	LOL	19.45	VL	23.278	GAL	9.23	AZL	88.73	HCA	78.35	SMA	107.32	ECC	.41762	INC	1.2673	V1	29.856
RP	107.60	LAP	1.24	LOP	97.80	VP	35.076	GAP	-24.68	AZP	89.74	TAL	166.64	TAP	245.00	RCA	62.50	APO	152.14	V2	35.220
RC	45.785	GL	3.60	GP	-6.18	ZAL	58.50	ZAP	14.50	ETS	152.42	ZAE	154.57	ETE	204.78	ZAC	32.57	ETC	138.22	CLP	13.14

PLANETOCENTRIC CONIC

C3	65.477	VHL	8.092	DLA	-11.08	RAL	322.24	RAD	6569.2	VEL	13.669	PTH	2.50	VHP	14.995	DPA	-29.86	RAP	293.72	ECC	2.0776

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 49 31	2157.53	-18.14	37.90	201.01	112.12	9 25 28	1557.5	-14.99	30.65
90.00	17 57 34	5503.51	28.31	255.12	209.60	89.37	19 29 17	4903.5	27.92	246.48
100.00	10 5 18	1913.04	-19.58	19.29	200.38	113.05	10 37 11	1313.0	-16.29	12.05
100.00	19 24 28	5223.24	29.86	234.48	209.57	88.62	20 51 31	4623.2	29.35	225.71
110.00	11 0 57	1738.77	-23.38	4.22	198.53	115.68	11 29 55	1138.8	-19.73	356.98
110.00	20 45 19	4970.27	34.03	215.06	209.36	86.56	22 8 9	4370.3	33.18	205.93

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY				ORBIT DETERMINATION ACCURACY			
TDE	-.5244	TRA	-1.5854	TC3	-.1495	BAU	.1400	SGT	1226.8	SGR	471.7	SG3	68.8	ST	505.7	SR	396.1	SS	483.5
RDE	-.5493	RRA	.3473	RC3	-.0569	FAU	.01635	RRT	-.2072	RRF	.2089	RTF	-.7880	CRT	.5923	CRS	.7190	CST	.9848
FDE	.4233	FRA	.9009	FC3	-.2162	BSP	3714	SGB	1314.3	R23	-.0194	R13	.7892	LSA	739.7	MSA	283.1	SSA	15.4
+ BDE	.7594	BRA	1.6230	BC3	.1600	FSP	-168	SG1	1231.3	SG2	459.8	THA	174.70	EL1	578.7	EL2	278.9	ALF	33.70

LAUNCH DATE OCT 13 1965 FLIGHT TIME 90.00 ARRIVAL DATE JAN 11 1966

HELIOCENTRIC CONIC DISTANCE 205.639

RL	149.24	LAL	.00	LOL	19.45	VL	23.617	GAL	8.75	AZL	88.57	HCA	81.59	SMA	108.72	ECC	.39863	INC	1.4333	V1	29.856
RP	107.57	LAP	1.42	LOP	101.04	VP	35.309	GAP	-23.49	AZP	89.79	TAL	166.31	TAP	247.90	RCA	65.38	APO	152.05	V2	35.227
RC	44.580	GL	4.34	GP	-6.50	ZAL	58.00	ZAP	13.35	ETS	148.52	ZAE	156.03	ETE	209.03	ZAC	34.16	ETC	139.75	CLP	11.68

PLANETOCENTRIC CONIC

C3	59.528	VHL	7.715	DLA	-10.21	RAL	322.51	RAD	6569.1	VEL	13.449	PTH	2.46	VHP	14.339	DPA	-29.97	RAP	295.78	ECC	1.9797

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 43 30	2163.19	-18.29	38.25	199.87	112.00	9 19 33	1563.2	-15.14	30.99
90.00	18 5 45	5451.79	28.21	251.34	207.65	87.47	19 36 37	4851.8	27.56	242.74
100.00	9 59 47	1917.09	-19.69	19.55	199.26	112.96	10 31 44	1317.1	-16.41	12.29
100.00	19 32 10	5173.12	29.72	230.76	207.57	86.67	20 58 23	4573.1	28.95	222.04
110.00	10 56 32	1739.37	-23.40	4.26	197.46	115.66	11 25 32	1139.4	-19.75	357.02
110.00	20 51 54	4923.61	33.78	211.44	207.19	84.43	22 13 57	4323.6	32.64	202.39

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY				ORBIT DETERMINATION ACCURACY			
TDE	-.5291	TRA	-1.5889	TC3	-.1475	BAU	.1288	SGT	1282.0	SGR	471.2	SG3	75.0	ST	532.7	SR	388.7	SS	490.2
RDE	-.5130	RRA	.3413	RC3	-.0668	FAU	.01689	RRT	-.2245	RRF	.2288	RTF	-.8009	CRT	.5887	CRS	.7208	CST	.9836
FDE	.4499	FRA	.9354	FC3	-.2456	BSP	3856	SGB	1365.9	R23	-.0233	R13	.8021	LSA	771.4	MSA	282.6	SSA	15.6
BDE	.7369	BRA	1.6251	BC3	.1619	FSP	-184	SG1	1287.0	SG2	457.4	THA	174.60	EL1	596.8	EL2	280.4	ALF	30.72

LAUNCH DATE OCT 13 1965 FLIGHT TIME 92.00 ARRIVAL DATE JAN 13 1966

HELIOCENTRIC CONIC DISTANCE 212.300

RL	149.24	LAL	.00	LOL	19.45	VL	23.933	GAL	8.29	AZL	88.40	HCA	84.83	SMA	110.07	ECC	.38057	INC	1.5965	V1	29.856
RP	107.55	LAP	1.59	LOP	104.28	VP	35.527	GAP	-22.33	AZP	89.86	TAL	166.02	TAP	250.85	RCA	68.18	APO	151.96	V2	35.234
RC	43.503	GL	5.14	GP	-6.86	ZAL	57.58	ZAP	12.28	ETS	143.75	ZAE	157.46	ETE	214.10	ZAC	35.78	ETC	141.12	CLP	10.21

PLANETOCENTRIC CONIC

C3	54.181	VHL	7.361	DLA	-9.30	RAL	322.70	RAD	6569.0	VEL	13.249	PTH	2.42	VHP	13.706	DPA	-30.09	RAP	297.86	ECC	1.8917

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 36 56	2169.75	-18.46	38.66	198.67	111.86	9 13 6	1569.8	-15.33	31.38
90.00	18 13 48	5399.01	27.99	247.50	205.60	85.56	19 43 47	4799.0	27.08	238.95
100.00	9 53 44	1922.03	-19.82	19.86	198.07	112.85	10 25 46	1322.0	-16.55	12.58
100.00	19 39 42	5121.97	29.46	226.98	205.46	84.70	21 5 4	4522.0	28.41	218.33
110.00	10 51 36	1740.80	-23.44	4.35	196.32	115.63	11 20 37	1140.8	-19.80	357.10
110.00	20 58 19	4875.97	33.41	207.77	204.94	82.29	22 19 35	4276.0	31.98	198.84

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY				ORBIT DETERMINATION ACCURACY			
TDE	-.5316	TRA	-1.5888	TC3	-.1415	BAU	.1171	SGT	1336.1	SGR	470.4	SG3	81.7	ST	559.1	SR	379.9	SS	518.3
RDE	-.4773	RRA	.3355	RC3	-.0781	FAU	.01750	RRT	-.2450	RRF	.2512	RTF	-.8135	CRT	.5833	CRS	.7217	CST	.9823
FDE	.4782	FRA	.9713	FC3	-.2797	BSP	4058	SGB	1416.5	R23	-.0267	R13	.8149	LSA	803.9	MSA	281.2	SSA	15.7
BDE	.7144	BRA	1.6239	BC3	.1617	FSP	-203	SG1	1341.7	SG2	454.2	THA	174.43	EL1	615.0	EL2	280.5	ALF	27.91

LAUNCH DATE OCT 13 1965 FLIGHT TIME 94.00 ARRIVAL DATE JAN 15 1966

HELIOCENTRIC CONIC DISTANCE 218.992

RL	149.24	LAL	.00	LOL	19.45	VL	24.226	GAL	7.85	AZL	88.24	HCA	88.07	SMA	111.38	ECC	.36343	INC	1.7581	VI	29.856
RP	107.54	LAP	1.76	LOP	107.52	VP	35.731	GAP	-21.22	AZP	89.94	TAL	165.78	TAP	253.85	RCA	70.90	APO	151.85	V2	35.239
RC	42.563	GL	6.01	GP	-7.25	ZAL	57.24	ZAP	11.34	ETS	137.95	ZAE	158.78	ETE	220.14	ZAC	37.44	ETC	142.34	CLP	8.74

PLANETOCENTRIC CONIC

C3	49.380	VHL	7.027	DLA	-8.35	RAL	322.80	RAD	6568.8	VEL	13.067	PTH	2.38	VHP	13.096	DPA	-30.21	RAP	299.93	ECC	1.8127

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 29 48	2177.50	-18.65	39.15	197.39	111.70	9 6 5	1577.5	-15.54	31.85
90.00	18 21 44	5345.18	27.65	243.60	203.47	83.63	19 50 49	4745.2	26.48	235.13
100.00	9 47 5	1928.13	-19.98	20.24	196.82	112.71	10 19 14	1328.1	-16.73	12.95
100.00	19 47 7	5069.79	29.07	223.15	203.27	82.72	21 11 37	4469.8	27.76	214.59
110.00	10 46 7	1743.32	-23.51	4.51	195.11	115.56	11 15 10	1143.3	-19.88	357.25
110.00	21 4 35	4827.36	32.90	204.07	202.60	80.16	22 25 2	4227.4	31.19	195.26

DIFFERENTIAL CORRECTIONS

TDE	-.5341	TRA	-1.5875	TC3	-.1327	BAU	.1062
RDE	-.4420	RRA	.3301	RC3	-.0910	FAU	.01819
FDE	.5091	FRA	1.0091	FC3	-.3188	BSP	4266
BDE	.6933	BRA	1.6215	BC3	.1609	FSP	-225

MID-COURSE EXECUTION ACCURACY

SGT	1391.4	SGR	469.3	SG3	89.1		
RRT	-.2681	RRF	.2766	RTF	-.8255		
SGB	1468.4	R23	-.0305	R13	.8269		
SG1	1397.7	SG2	450.1	THA	174.23		

ORBIT DETERMINATION ACCURACY

ST	586.3	SR	369.6	SS	548.1
CRT	.5767	CRS	.7216	CST	.9809
LSA	838.2	MSA	279.1	SSA	15.9
EL1	634.4	EL2	279.0	ALF	25.17

LAUNCH DATE OCT 13 1965 FLIGHT TIME 96.00 ARRIVAL DATE JAN 17 1966

HELIOCENTRIC CONIC DISTANCE 225.711

RL	149.24	LAL	.00	LOL	19.45	VL	24.500	GAL	7.42	AZL	88.08	HCA	91.31	SMA	112.64	ECC	.34720	INC	1.9192	VI	29.856
RP	107.52	LAP	1.92	LOP	110.76	VP	35.922	GAP	-20.16	AZP	90.04	TAL	165.58	TAP	256.90	RCA	73.53	APO	151.74	V2	35.244
RC	41.769	GL	6.96	GP	-7.69	ZAL	56.99	ZAP	10.55	ETS	130.97	ZAE	159.92	ETE	227.25	ZAC	39.12	ETC	143.44	CLP	7.25

PLANETOCENTRIC CONIC

C3	45.077	VHL	6.714	DLA	-7.35	RAL	322.81	RAD	6568.7	VEL	12.901	PTH	2.35	VHP	12.507	DPA	-30.36	RAP	302.01	ECC	1.7418

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 22 1	2186.71	-18.88	39.72	196.06	111.50	8 58 28	1586.7	-15.80	32.41
90.00	18 29 34	5290.28	27.17	239.65	201.26	81.71	19 57 45	4690.3	25.74	231.28
100.00	9 39 50	1935.67	-20.18	20.71	195.50	112.54	10 12 6	1335.7	-16.95	13.41
100.00	19 54 26	5016.56	28.55	219.28	201.02	80.75	21 18 3	4416.6	26.98	210.83
110.00	10 40 2	1747.20	-23.63	4.75	193.85	115.45	11 9 9	1147.2	-20.00	357.49
110.00	21 10 44	4777.79	32.26	200.35	200.21	78.04	22 30 22	4177.8	30.28	191.69

DIFFERENTIAL CORRECTIONS

TDE	-.5371	TRA	-1.5850	TC3	-.1207	BAU	.0967
RDE	-.4072	RRA	.3252	RC3	-.1057	FAU	.01894
FDE	.5429	FRA	1.0490	FC3	-.3637	BSP	4478
BDE	.6741	BRA	1.6180	BC3	.1604	FSP	-248

MID-COURSE EXECUTION ACCURACY

SGT	1447.9	SGR	468.2	SG3	97.3		
RRT	-.2941	RRF	.3052	RTF	-.8368		
SGB	1521.7	R23	-.0349	R13	.8383		
SG1	1455.1	SG2	445.3	THA	174.00		

ORBIT DETERMINATION ACCURACY

ST	614.5	SR	357.5	SS	580.1
CRT	.5688	CRS	.7201	CST	.9795
LSA	874.9	MSA	276.0	SSA	16.0
EL1	655.2	EL2	275.7	ALF	22.51

LAUNCH DATE OCT 13 1965 FLIGHT TIME 98.00 ARRIVAL DATE JAN 19 1966

HELIOCENTRIC CONIC DISTANCE 232.451

RL	149.24	LAL	.00	LOL	19.45	VL	24.754	GAL	7.01	AZL	87.92	HCA	94.55	SMA	113.84	ECC	.33186	INC	2.0807	VI	29.856
RP	107.51	LAP	2.07	LOP	114.01	VP	36.100	GAP	-19.13	AZP	90.17	TAL	165.44	TAP	259.99	RCA	76.06	APO	151.63	V2	35.249
RC	41.131	GL	7.99	GP	-8.18	ZAL	56.81	ZAP	9.98	ETS	122.80	ZAE	160.76	ETE	235.40	ZAC	40.83	ETC	144.40	CLP	5.75

PLANETOCENTRIC CONIC

C3	41.226	VHL	6.421	DLA	-6.29	RAL	322.72	RAD	6568.6	VEL	12.751	PTH	2.32	VHP	11.940	DPA	-30.53	RAP	304.08	ECC	1.6785

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 13 34	2197.71	-19.16	40.42	194.68	111.26	8 50 12	1597.7	-16.10	33.08
90.00	18 37 22	5234.30	26.56	235.67	198.99	79.80	20 4 36	4634.3	24.88	227.40
100.00	9 31 55	1944.95	-20.42	21.29	194.14	112.32	10 4 20	1345.0	-17.21	13.97
100.00	20 1 42	4962.29	27.89	215.38	198.71	78.79	21 24 24	4362.3	26.06	207.06
110.00	10 33 19	1752.71	-23.79	5.10	192.54	115.31	11 2 32	1152.7	-20.18	357.82
110.00	21 16 47	4727.29	31.49	196.61	197.78	75.95	22 35 35	4127.3	29.24	188.13

DIFFERENTIAL CORRECTIONS

TDE	-.5407	TRA	-1.5813	TC3	-.1050	BAU	.0888
RDE	-.3727	RRA	.3211	RC3	-.1223	FAU	.01977
FDE	.5803	FRA	1.0913	FC3	-.4152	BSP	4690
BDE	.6567	BRA	1.6135	BC3	.1612	FSP	-274

MID-COURSE EXECUTION ACCURACY

SGT	1505.4	SGR	467.3	SG3	106.2		
RRT	-.3235	RRF	.3375	RTF	-.8474		
SGB	1576.3	R23	-.0399	R13	.8491		
SG1	1513.7	SG2	439.7	THA	173.73		

ORBIT DETERMINATION ACCURACY

ST	643.6	SR	343.6	SS	614.5
CRT	.5591	CRS	.7168	CST	.9781
LSA	914.1	MSA	272.0	SSA	16.1
EL1	677.5	EL2	270.6	ALF	19.93

LAUNCH DATE OCT 13 1965 FLIGHT TIME 100.00 ARRIVAL DATE JAN 21 1966

HELIOCENTRIC CONIC DISTANCE 239.208

RL	149.24	LAL	.00	LOL	19.45	VL	24.990	GAL	6.61	AZL	87.76	HCA	97.80	SMA	115.00	ECC	.31739	INC	2.2437	VI	29.856
RP	107.50	LAP	2.22	LOP	117.25	VP	36.265	GAP	-18.14	AZP	90.30	TAL	165.34	TAP	263.13	RCA	78.50	APO	151.50	V2	35.252
RC	40.657	GL	9.10	GP	-8.71	ZAL	56.73	ZAP	9.68	ETS	113.61	ZAE	161.21	ETE	244.41	ZAC	42.56	ETC	145.25	CLP	4.24

PLANETOCENTRIC CONIC

C3	37.789	VHL	6.147	DLA	-5.18	RAL	322.55	RAD	6568.5	VEL	12.616	PTH	2.29	VHP	11.394	DPA	-30.73	RAP	306.15	ECC	1.6219

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 4 24	2210.83	-19.48	41.24	193.26	110.97	8 41 15	1610.8	-16.45	33.87
90.00	18 45 9	5177.21	25.81	231.66	196.70	77.92	20 11 26	4577.2	23.89	223.52
100.00	9 23 18	1956.30	-20.71	22.01	192.74	112.05	9 55 54	1356.3	-17.54	14.65
100.00	20 8 56	4906.96	27.10	211.46	196.37	76.88	21 30 43	4307.0	25.02	203.28
110.00	10 25 57	1760.17	-24.00	5.57	191.19	115.10	10 55 17	1160.2	-20.42	358.26
110.00	21 22 47	4675.86	30.58	192.88	195.34	73.92	22 40 42	4075.9	28.07	184.58

DIFFERENTIAL CORRECTIONS

TDE	-.5451	TRA	-1.5762	TC3	-.0854	BAU	.0833
RDE	-.3383	RRA	.3178	RC3	-.1411	FAU	.02068
FDE	.6218	FRA	1.1362	FC3	-.4739	BSP	4904
BDE	.6415	BRA	1.6079	BC3	.1649	FSP	-303

MID-COURSE EXECUTION ACCURACY

SGT	1563.7	SGR	466.9	SG3	116.1		
RRT	-.3566	RRF	.3739	RTF	-.8575		
SGB	1631.9	R23	-.0456	R13	.8593		
SG1	1573.3	SG2	433.5	THA	173.42		

ORBIT DETERMINATION ACCURACY

ST	673.8	SR	327.7	SS	651.5
CRT	.5467	CRS	.7109	CST	.9768
LSA	956.1	MSA	267.3	SSA	16.2
EL1	701.4	EL2	263.6	ALF	17.43

LAUNCH DATE OCT 13 1965 FLIGHT TIME 102.00 ARRIVAL DATE JAN 23 1966

HELIOCENTRIC CONIC DISTANCE 245,979

RL	149.24	LAL	.00	LOL	19.45	VL	25.209	GAL	6.23	AZL	87.59	HCA	101.04	SMA	116.11	ECC	.30376	INC	2.4092	V1	29.856
RP	107.49	LAP	2.36	LOP	120.50	VP	36.419	GAP	-17.18	AZP	90.46	TAL	165.29	TAP	266.33	RCA	80.84	APO	151.38	V2	35.255
RC	40.351	GL	10.30	GP	-9.31	ZAL	56.74	ZAP	9.69	ETS	103.87	ZAE	161.19	ETE	253.83	ZAC	44.31	ETC	146.00	CLP	2.70

PLANETOCENTRIC CONIC

C3	34.730	VHL	5.893	DLA	-4.00	RAL	322.28	RAD	6568.4	VEL	12.494	PTH	2.26	VHP	10.869	OPA	-30.98	RAP	308.22	ECC	1.5716

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 54 27	2226.40	-19.85	42.23	191.82	110.62	8 31 34	1626.4	-16.87	34.83
90.00	18 52 58	5118.97	24.92	227.63	194.38	76.09	20 18 17	4519.0	22.76	219.62
100.00	9 13 55	1970.05	-21.06	22.88	191.32	111.72	9 46 45	1370.0	-17.92	15.49
100.00	20 16 11	4850.56	26.17	207.53	194.02	75.01	21 37 2	4250.6	23.85	199.49
110.00	10 17 52	1769.86	-24.28	6.19	189.82	114.83	10 47 22	1169.9	-20.73	358.84
110.00	21 28 44	4623.51	29.53	189.16	192.89	71.95	22 45 47	4023.5	26.78	181.06

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY				ORBIT DETERMINATION ACCURACY			
TDE	-.5506	TRA	-1.5696	TC3	-.0615	BAU	.0805	SGT	1622.3	SGR	467.4	SG3	127.0	ST	705.1	SR	309.6	SS	691.5
RDE	-.3039	RRA	.3156	RC3	-.1622	FAU	.02169	RRT	-.3938	RRF	.4148	RTF	-.8669	CRT	.5305	CRS	.7013	CST	.9757
FDE	.6682	FRA	1.1841	FC3	-.5408	BSP	5118	SGB	1688.3	R23	-.0523	R13	.8690	LSA	1001.2	MSA	261.7	SSA	16.3
BDE	.6289	BRA	1.6010	BC3	.1735	FSP	-335	SG1	1633.5	SG2	426.7	THA	173.05	EL1	726.8	EL2	254.6	ALF	14.99

LAUNCH DATE OCT 13 1965 FLIGHT TIME 104.00 ARRIVAL DATE JAN 25 1966

HELIOCENTRIC CONIC DISTANCE 252,760

RL	149.24	LAL	.00	LOL	19.45	VL	25.412	GAL	5.87	AZL	87.42	HCA	104.28	SMA	117.16	ECC	.29096	INC	2.5786	V1	29.856
RP	107.48	LAP	2.50	LOP	123.75	VP	36.562	GAP	-16.26	AZP	90.64	TAL	165.28	TAP	269.57	RCA	83.07	APO	151.25	V2	35.257
RC	40.219	GL	11.60	GP	-9.99	ZAL	56.85	ZAP	10.05	ETS	94.23	ZAE	160.65	ETE	263.09	ZAC	46.08	ETC	146.64	CLP	1.14

PLANETOCENTRIC CONIC

C3	32.016	VHL	5.658	DLA	-2.75	RAL	321.93	RAD	6568.3	VEL	12.385	PTH	2.24	VHP	10.364	OPA	-31.27	RAP	310.29	ECC	1.5269

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 43 41	2244.80	-20.29	43.40	190.37	110.19	8 21 6	1644.8	-17.36	35.96
90.00	19 0 53	5059.55	23.88	223.58	192.07	74.32	20 25 12	4459.6	21.50	215.72
100.00	9 3 45	1986.54	-21.47	23.94	189.89	111.31	9 36 52	1386.5	-18.38	16.50
100.00	20 23 30	4793.04	25.09	203.59	191.68	73.20	21 43 23	4193.0	22.55	195.72
110.00	10 9 3	1782.13	-24.63	6.97	188.44	114.49	10 38 45	1182.1	-21.12	359.58
110.00	21 34 41	4570.22	28.35	185.47	190.47	70.05	22 50 52	3970.2	25.37	177.56

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY				ORBIT DETERMINATION ACCURACY			
TDE	-.5579	TRA	-1.5621	TC3	-.0341	BAU	.0809	SGT	1681.8	SGR	469.5	SG3	139.0	ST	738.1	SR	288.9	SS	735.0
RDE	-.2691	RRA	.3148	RC3	-.1859	FAU	.02280	RRT	-.4348	RRF	.4604	RTF	-.8755	CRT	.5087	CRS	.6861	CST	.9747
FDE	.7204	FRA	1.2353	FC3	-.6165	BSP	5291	SGB	1746.1	R23	-.0604	R13	.8779	LSA	1050.3	MSA	255.4	SSA	16.3
BDE	.6194	BRA	1.5935	BC3	.1890	FSP	-371	SG1	1694.9	SG2	419.5	THA	172.62	EL1	754.4	EL2	243.4	ALF	12.59

LAUNCH DATE OCT 13 1965 FLIGHT TIME 106.00 ARRIVAL DATE JAN 27 1966

HELIOCENTRIC CONIC DISTANCE 259,547

RL	149.24	LAL	.00	LOL	19.45	VL	25.600	GAL	5.53	AZL	87.25	HCA	107.53	SMA	118.16	ECC	.27895	INC	2.7529	V1	29.856
RP	107.48	LAP	2.62	LOP	127.00	VP	36.695	GAP	-15.37	AZP	90.83	TAL	165.33	TAP	272.85	RCA	85.20	APO	151.13	V2	35.259
RC	40.263	GL	12.99	GP	-10.74	ZAL	57.05	ZAP	10.75	ETS	85.35	ZAE	159.63	ETE	271.64	ZAC	47.87	ETC	147.18	CLP	-.45

PLANETOCENTRIC CONIC

C3	29.621	VHL	5.443	DLA	-1.43	RAL	321.47	RAD	6568.2	VEL	12.288	PTH	2.21	VHP	9.880	OPA	-31.63	RAP	312.36	ECC	1.4875

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 32 3	2266.40	-20.79	44.79	188.93	109.67	8 9 49	1666.4	-17.92	37.29
90.00	19 8 55	4998.90	22.71	219.52	189.77	72.61	20 32 14	4398.9	20.11	211.81
100.00	8 52 43	2006.15	-21.95	25.19	188.47	110.82	9 26 10	1406.2	-18.92	17.71
100.00	20 30 56	4734.38	23.88	199.66	189.36	71.47	21 49 50	4134.4	21.13	191.94
110.00	9 59 27	1797.29	-25.05	7.94	187.07	114.05	10 29 24	1197.3	-21.59	.51
110.00	21 40 42	4516.00	27.03	181.80	188.08	68.24	22 55 58	3916.0	23.84	174.09

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY				ORBIT DETERMINATION ACCURACY			
TDE	-.5654	TRA	-1.5531	TC3	.0002	BAU	.0841	SGT	1740.4	SGR	473.8	SG3	152.2	ST	771.4	SR	265.6	SS	782.5
RDE	-.2338	RRA	.3156	RC3	-.2124	FAU	.02401	RRT	-.4817	RRF	.5106	RTF	-.8842	CRT	.4761	CRS	.6620	CST	.9737
FDE	.7797	FRA	1.2902	FC3	-.7017	BSP	5555	SGB	1803.8	R23	-.0679	R13	.8869	LSA	1102.6	MSA	248.9	SSA	16.3
BDE	.6118	BRA	1.5848	BC3	.2124	FSP	-410	SG1	1756.2	SG2	411.5	THA	172.09	EL1	782.7	EL2	230.2	ALF	10.20

LAUNCH DATE OCT 13 1965 FLIGHT TIME 108.00 ARRIVAL DATE JAN 29 1966

HELIOCENTRIC CONIC DISTANCE 266,337

RL	149.24	LAL	.00	LOL	19.45	VL	25.774	GAL	5.20	AZL	87.07	HCA	110.77	SMA	119.11	ECC	.26772	INC	2.9335	V1	29.856
RP	107.48	LAP	2.74	LOP	130.24	VP	36.817	GAP	-14.50	AZP	91.04	TAL	165.41	TAP	276.18	RCA	87.22	APO	151.00	V2	35.259
RC	40.482	GL	14.50	GP	-11.59	ZAL	57.35	ZAP	11.77	ETS	77.61	ZAE	158.19	ETE	279.11	ZAC	49.67	ETC	147.63	CLP	-2.08

PLANETOCENTRIC CONIC

C3	27.519	VHL	5.246	DLA	-.02	RAL	320.93	RAD	6568.1	VEL	12.202	PTH	2.19	VHP	9.416	OPA	-32.06	RAP	314.42	ECC	1.4529

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 19 27	2291.61	-21.36	46.42	187.51	109.04	7 57 39	1691.6	-18.57	38.86
90.00	19 17 11	4936.92	21.39	215.46	187.52	70.99	20 39 27	4336.9	18.60	207.89
100.00	8 40 47	2029.26	-22.50	26.69	187.07	110.22	9 14 36	1429.3	-19.54	19.14
100.00	20 38 32	4674.51	22.53	195.72	187.08	69.82	21 56 26	4074.5	19.58	188.17
110.00	9 49 0	1815.71	-25.56	9.14	185.72	113.51	10 19 16	1215.7	-22.16	1.63
110.00	21 46 48	4460.82	25.59	178.16	185.74	66.52	23 1 9	3860.8	22.19	170.65

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY				ORBIT DETERMINATION ACCURACY			
TDE	-.5737	TRA	-1.5401	TC3	.0407	BAU	.0903	SGT	1795.5	SGR	481.5	SG3	166.7	ST	804.5	SR	239.7	SS	833.6
RDE	-.1975	RRA	.3183	RC3	-.2421	FAU	.02537	RRT	-.5325	RRF	.5651	RTF	-.8923	CRT	.4279	CRS	.6234	CST	.9729
FDE	.8462	FRA	1.3478	FC3	-.7983	BSP	5825	SGB	1859.0	R23	-.0765	R13	.8953	LSA	1157.9	MSA	241.9	SSA	16.2
BDE	.6067	BRA	1.5726	BC3	.2455	FSP	-455	SG1	1814.7	SG2	403.3	THA	171.45	EL1	811.5	EL2	214.8	ALF	7.82

LAUNCH DATE OCT 13 1965 FLIGHT TIME 110.00 ARRIVAL DATE JAN 31 1966

HELIOCENTRIC CONIC DISTANCE 273.127

RL	149.24	LAL	.00	LOL	19.45	VL	25.935	GAL	4.89	AZL	86.88	HCA	114.01	SMA	120.01	ECC	.25724	INC	3.1221	V1	29.856
RP	107.48	LAP	2.85	LOP	133.49	VP	36.929	GAP	-13.67	AZP	91.27	TAL	165.54	TAP	279.56	RCA	89.14	APO	150.88	V2	35.259
RC	40.875	GL	16.12	GP	-12.55	ZAL	57.76	ZAP	13.08	ETS	71.17	ZAE	156.42	ETE	285.38	ZAC	51.50	ETC	147.99	CLP	-3.74

PLANETOCENTRIC CONIC

C3	25.689	VHL	5.068	DLA	1.47	RAL	320.30	RAD	6568.0	VEL	12.127	PTH	2.17	VHP	8.973	DPA	-32.59	RAP	316.48	ECC	1.4228

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 5 50	2320.86	-22.00	48.33	186.13	108.29	7 44 31	1720.9	-19.29	40.70
90.00	19 25 43	4873.54	19.93	211.38	185.32	69.46	20 46 56	4273.5	16.95	203.97
100.00	8 27 52	2056.27	-23.13	28.45	185.71	109.49	9 2 8	1456.3	-20.26	20.83
100.00	20 46 22	4613.36	21.04	191.79	184.86	68.26	22 3 16	4013.4	17.90	184.40
110.00	9 37 41	1837.74	-26.15	10.58	184.42	112.84	10 8 19	1237.7	-22.83	2.99
110.00	21 53 2	4404.66	24.02	174.56	183.47	64.91	23 6 27	3804.7	20.43	167.24

DIFFERENTIAL CORRECTIONS

TDE	-.5861	TRA	-1.5285	TC3	.0826	BAU	.0986
RDE	-.1596	RRA	.3233	RC3	-.2749	FAU	.02683
FDE	.9229	FRA	1.4104	FC3	-.9041	BSP	6037
BDE	.6074	BRA	1.5623	BC3	.2870	FSP	-503

MID-COURSE EXECUTION ACCURACY

SGT	1853.0	SGR	493.8	SG3	182.7		
RRT	-.5854	RRF	.6226	RTF	-.8995		
SGB	1917.6	R23	-.0874	R13	.9030		
SG1	1876.4	SG2	395.3	THA	170.72		

ORBIT DETERMINATION ACCURACY

ST	841.3	SR	211.3	SS	890.1		
CRT	.3525	CRS	.5587	CST	.9725		
LSA	1220.4	MSA	234.7	SSA	16.1		
ELI	844.8	EL2	196.9	ALF	5.35		

LAUNCH DATE OCT 13 1965 FLIGHT TIME 112.00 ARRIVAL DATE FEB 2 1966

HELIOCENTRIC CONIC DISTANCE 279.914

RL	149.24	LAL	.00	LOL	19.45	VL	26.083	GAL	4.59	AZL	86.68	HCA	117.26	SMA	120.85	ECC	.24748	INC	3.3204	V1	29.856
RP	107.48	LAP	2.95	LOP	136.75	VP	37.033	GAP	-12.87	AZP	91.52	TAL	165.72	TAP	282.97	RCA	90.94	APO	150.76	V2	35.258
RC	41.437	GL	17.86	GP	-13.63	ZAL	58.27	ZAP	14.66	ETS	65.95	ZAE	154.41	ETE	290.45	ZAC	53.34	ETC	148.25	CLP	-5.44

PLANETOCENTRIC CONIC

C3	24.114	VHL	4.911	DLA	3.06	RAL	319.57	RAD	6568.0	VEL	12.062	PTH	2.16	VHP	8.550	DPA	-33.22	RAP	318.56	ECC	1.3969

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 51 8	2354.61	-22.70	50.55	184.80	107.39	7 30 23	1754.6	-20.11	42.84
90.00	19 34 38	4808.64	18.33	207.30	183.20	68.03	20 54 47	4208.6	15.18	200.03
100.00	8 13 54	2087.63	-23.82	30.52	184.41	108.61	8 48 42	1487.6	-21.06	22.81
100.00	20 54 33	4550.85	19.41	187.86	182.72	66.81	22 10 24	3950.9	16.11	180.63
110.00	9 25 26	1863.77	-26.83	12.30	183.18	112.03	9 56 29	1263.8	-23.60	4.62
110.00	21 59 31	4347.48	22.32	170.98	181.28	63.41	23 11 58	3747.5	18.57	163.86

DIFFERENTIAL CORRECTIONS

TDE	-.6014	TRA	-1.5154	TC3	.1277	BAU	.1084
RDE	-.1194	RRA	.3310	RC3	-.3110	FAU	.02839
FDE	1.0112	FRA	1.4772	FC3	-1.0191	BSP	6245
BDE	.6131	BRA	1.5511	BC3	.3762	FSP	-556

MID-COURSE EXECUTION ACCURACY

SGT	1908.7	SGR	512.2	SG3	200.3		
RRT	-.6397	RRF	.6813	RTF	-.9062		
SGB	1976.2	R23	-.0997	R13	.9104		
SG1	1937.8	SG2	387.8	THA	169.85		

ORBIT DETERMINATION ACCURACY

ST	880.1	SR	181.6	SS	952.1		
CRT	.2261	CRS	.4447	CST	.9725		
LSA	1289.2	MSA	227.3	SSA	15.9		
ELI	881.1	EL2	176.7	ALF	2.78		

LAUNCH DATE OCT 13 1965 FLIGHT TIME 114.00 ARRIVAL DATE FEB 4 1966

HELIOCENTRIC CONIC DISTANCE 286.695

RL	149.24	LAL	.00	LOL	19.45	VL	26.220	GAL	4.31	AZL	86.47	HCA	120.50	SMA	121.64	ECC	.23842	INC	3.5307	V1	29.856
RP	107.49	LAP	3.04	LOP	140.00	VP	37.128	GAP	-12.09	AZP	91.79	TAL	165.92	TAP	286.42	RCA	92.64	APO	150.65	V2	35.256
RC	42.162	GL	19.72	GP	-14.86	ZAL	58.88	ZAP	16.48	ETS	61.81	ZAE	152.23	ETE	294.44	ZAC	55.21	ETC	148.42	CLP	-7.20

PLANETOCENTRIC CONIC

C3	22.779	VHL	4.773	DLA	4.75	RAL	318.75	RAD	6567.9	VEL	12.007	PTH	2.14	VHP	8.150	DPA	-34.00	RAP	320.64	ECC	1.3749

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 35 14	2393.37	-23.47	53.14	183.56	106.32	7 15 7	1793.4	-21.01	45.33
90.00	19 44 2	4742.06	16.58	203.19	181.17	66.71	21 3 4	4142.1	13.29	196.06
100.00	7 58 48	2123.80	-24.59	32.94	183.19	107.56	8 34 12	1523.8	-21.95	25.13
100.00	21 3 8	4486.86	17.65	183.93	180.67	65.48	22 17 55	3886.9	14.19	176.84
110.00	9 12 10	1894.19	-27.59	14.34	182.02	111.04	9 43 44	1294.2	-24.48	6.55
110.00	22 6 16	4289.24	20.50	167.44	179.18	62.03	23 17 45	3689.2	16.60	160.49

DIFFERENTIAL CORRECTIONS

TDE	-.6197	TRA	-1.5014	TC3	.1750	BAU	.1193
RDE	-.0761	RRA	.3420	RC3	-.3506	FAU	.03006
FDE	1.1128	FRA	1.5485	FC3	-1.1424	BSP	6457
BDE	.6244	BRA	1.5398	BC3	.3919	FSP	-615

MID-COURSE EXECUTION ACCURACY

SGT	1962.8	SGR	538.6	SG3	219.5		
RRT	-.6934	RRF	.7392	RTF	-.9125		
SGB	2035.3	R23	-.1133	R13	.9174		
SG1	1999.3	SG2	381.0	THA	168.82		

ORBIT DETERMINATION ACCURACY

ST	920.8	SR	154.0	SS	1020.1		
CRT	.0061	CRS	.2355	CST	.9727		
LSA	1365.1	MSA	220.3	SSA	15.6		
ELI	920.8	EL2	154.0	ALF	.06		

LAUNCH DATE OCT 13 1965 FLIGHT TIME 116.00 ARRIVAL DATE FEB 6 1966

HELIOCENTRIC CONIC DISTANCE 293.468

RL	149.24	LAL	.00	LOL	19.45	VL	26.346	GAL	4.05	AZL	86.24	HCA	123.74	SMA	122.39	ECC	.23002	INC	3.7554	V1	29.856
RP	107.49	LAP	3.12	LOP	143.25	VP	37.214	GAP	-11.34	AZP	92.09	TAL	166.17	TAP	289.91	RCA	94.24	APO	150.54	V2	35.254
RC	43.042	GL	21.70	GP	-16.27	ZAL	59.60	ZAP	18.54	ETS	58.57	ZAE	149.95	ETE	297.47	ZAC	57.10	ETC	148.51	CLP	-9.01

PLANETOCENTRIC CONIC

C3	21.673	VHL	4.655	DLA	6.54	RAL	317.85	RAD	6567.9	VEL	11.960	PTH	2.13	VHP	7.772	DPA	-34.93	RAP	322.75	ECC	1.3567

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 18 1	2437.73	-24.28	56.13	182.42	105.03	6 58 38	1837.7	-21.98	48.21
90.00	19 54 3	4673.59	14.69	199.05	179.25	65.52	21 11 57	4073.6	11.27	192.05
100.00	7 42 28	2165.32	-25.41	35.75	182.08	106.30	8 18 33	1565.3	-22.93	27.83
100.00	21 12 17	4421.23	15.75	179.98	178.74	64.26	22 25 58	3821.2	12.16	173.03
110.00	8 57 50	1929.45	-28.43	16.74	180.97	109.84	9 29 59	1329.5	-25.46	8.82
110.00	22 13 24	4229.86	18.57	163.92	177.21	60.77	23 23 54	3629.9	14.53	157.13

DIFFERENTIAL CORRECTIONS

TDE	-.6416	TRA	-1.4862	TC3	.2240	BAU	.1313
RDE	-.0283	RRA	.3568	RC3	-.3938	FAU	.03185
FDE	1.2301	FRA	1.6241	FC3	-1.2721	BSP	6660
BDE	.6423	BRA	1.5284	BC3	.4531	FSP	-679

MID-COURSE EXECUTION ACCURACY

SGT	2014.1	SGR	575.4	SG3	240.4		
RRT	-.7444	RRF	.7938	RTF	-.9183		
SGB	2094.7	R23	-.1280	R13	.9242		
SG1	2060.8	SG2	375.5	THA	167.58		

ORBIT DETERMINATION ACCURACY

ST	963.7	SR	137.5	SS	1094.7		
CRT	-.3453	CRS	-.1233	CST	.9733		
LSA	1449.1	MSA	213.7	SSA	15.1		
ELI	964.9	EL2	128.9	ALF	177.13		

LAUNCH DATE OCT 13 1965 FLIGHT TIME 118.00 ARRIVAL DATE FEB 8 1966

HELIOCENTRIC CONIC DISTANCE 300.230

RL	149.24	LAL	.00	LOL	19.45	VL	26.461	GAL	3.80	AZL	86.00	HCA	126.98	SMA	123.08	ECC	.22226	INC	3.9978	VI	29.856
RP	107.50	LAP	3.19	LOP	146.50	VP	37.293	GAP	-10.61	AZP	92.41	TAL	166.44	TAP	293.42	RCA	95.72	APO	150.43	V2	35.250
RC	44.068	GL	23.81	GP	-17.88	ZAL	60.43	ZAP	20.84	ETS	56.07	ZAE	147.58	ETE	299.68	ZAC	59.03	ETC	148.50	CLP	-10.89

PLANETOCENTRIC CONIC

C3	20.791	VHL	4.560	DLA	8.44	RAL	316.86	RAD	6567.8	VEL	11.924	PTH	2.12	VHP	7.418	DPA	-36.05	RAP	324.89	ECC	1.3422

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 59 20	2488.35	-25.13	59.59	181.42	103.49	6 40 48	1888.4	-23.03	51.56
90.00	20 4 51	4602.98	12.66	194.86	177.48	64.46	21 21 34	4003.0	9.12	187.97
100.00	7 24 46	2212.80	-26.28	39.01	181.10	104.79	8 1 38	1612.8	-23.99	30.96
100.00	21 22 6	4353.76	13.72	176.00	176.94	63.18	22 34 40	3753.8	10.01	169.17
110.00	8 42 20	1970.04	-29.33	19.55	180.07	108.40	9 15 10	1370.0	-26.54	11.48
110.00	22 21 1	4169.28	16.52	160.42	175.37	59.64	23 30 31	3569.3	12.36	153.78

DIFFERENTIAL CORRECTIONS

TOE	-.6676	TRA	-1.4697	TC3	.2716	BAU	.1438												
ROE	.0254	RRA	.3761	RC3	-.4404	FAU	.03370												
FOE	1.3653	FRA	1.7031	FC3	-1.4032	BSP	6858												
BOE	.6681	BRA	1.5171	BC3	.5174	FSP	-747												

MID-COURSE EXECUTION ACCURACY

SGT	2061.7	SGR	625.0	SG3	262.9						
RRT	-.7903	RRF	.8425	RTF	-.9236						
SGB	2154.4	R23	-.1434	R13	.9307						
SG1	2122.0	SG2	372.1	THA	166.09						

ORBIT DETERMINATION ACCURACY

ST	1008.7	SR	147.3	SS	1175.8						
CRT	-.7208	CRS	-.5482	CST	.9743						
LSA	1542.2	MSA	207.7	SSA	14.6						
ELI	1014.3	EL2	101.6	ALF	173.93						

LAUNCH DATE OCT 13 1965 FLIGHT TIME 120.00 ARRIVAL DATE FEB 10 1966

HELIOCENTRIC CONIC DISTANCE 306.980

RL	149.24	LAL	.00	LOL	19.45	VL	26.567	GAL	3.57	AZL	85.74	HCA	130.22	SMA	123.72	ECC	.21511	INC	4.2617	VI	29.856
RP	107.51	LAP	3.25	LOP	149.75	VP	37.364	GAP	-9.91	AZP	92.75	TAL	166.73	TAP	296.95	RCA	97.11	APO	150.34	V2	35.247
RC	45.230	GL	26.05	GP	-19.72	ZAL	61.36	ZAP	23.39	ETS	54.16	ZAE	145.16	ETE	301.16	ZAC	61.02	ETC	148.39	CLP	-12.83

PLANETOCENTRIC CONIC

C3	20.131	VHL	4.487	DLA	10.45	RAL	315.79	RAD	6567.8	VEL	11.896	PTH	2.11	VHP	7.089	DPA	-37.39	RAP	327.09	ECC	1.3313

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 38 58	2546.08	-25.99	63.61	180.57	101.66	6 21 25	1946.1	-24.12	55.43
90.00	20 16 40	4529.82	10.47	190.60	175.87	63.54	21 32 10	3929.8	6.84	183.81
100.00	7 5 31	2266.98	-27.16	42.79	180.28	102.99	7 43 18	1667.0	-25.10	34.60
100.00	21 32 49	4284.16	11.54	171.98	175.31	62.23	22 44 13	3684.2	7.74	165.26
110.00	8 25 33	2016.53	-30.28	22.83	179.34	106.67	8 59 9	1416.5	-27.70	14.59
110.00	22 29 16	4107.37	14.35	156.93	173.68	58.64	23 37 43	3507.4	10.10	150.41

DIFFERENTIAL CORRECTIONS

TOE	-.6975	TRA	-1.4516	TC3	.3176	BAU	.1572												
ROE	.0871	RRA	.4008	RC3	-.4900	FAU	.03560												
FOE	1.5207	FRA	1.7841	FC3	-1.5312	BSP	7074												
BOE	.7029	BRA	1.5059	BC3	.5839	FSP	-822												

MID-COURSE EXECUTION ACCURACY

SGT	2104.2	SGR	690.4	SG3	286.9						
RRT	-.8298	RRF	.8838	RTF	-.9286						
SGB	2214.5	R23	-.1583	R13	.9372						
SG1	2183.2	SG2	371.3	THA	164.30						

ORBIT DETERMINATION ACCURACY

ST	1055.0	SR	192.2	SS	1263.6						
CRT	-.9247	CRS	-.8200	CST	.9754						
LSA	1644.8	MSA	202.7	SSA	13.8						
ELI	1070.0	EL2	72.1	ALF	170.39						

LAUNCH DATE OCT 13 1965 FLIGHT TIME 122.00 ARRIVAL DATE FEB 12 1966

HELIOCENTRIC CONIC DISTANCE 313.715

RL	149.24	LAL	.00	LOL	19.45	VL	26.664	GAL	3.36	AZL	85.45	HCA	133.46	SMA	124.32	ECC	.20855	INC	4.5520	VI	29.856
RP	107.53	LAP	3.30	LOP	153.00	VP	37.429	GAP	-9.23	AZP	93.13	TAL	167.04	TAP	300.50	RCA	98.39	APO	150.25	V2	35.242
RC	46.516	GL	28.42	GP	-21.84	ZAL	62.40	ZAP	26.21	ETS	52.74	ZAE	142.65	ETE	302.01	ZAC	63.06	ETC	148.19	CLP	-14.86

PLANETOCENTRIC CONIC

C3	19.698	VHL	4.438	DLA	12.57	RAL	314.64	RAD	6567.8	VEL	11.878	PTH	2.11	VHP	6.790	DPA	-38.99	RAP	329.37	ECC	1.3242

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 16 41	2611.99	-26.81	68.26	179.90	99.47	6 0 13	2012.0	-25.23	59.94
90.00	20 29 46	4453.57	8.13	186.22	174.46	62.78	21 44 0	3853.6	4.42	179.51
100.00	6 44 29	2328.78	-28.03	47.18	179.66	100.83	7 23 18	1728.8	-26.25	38.83
100.00	21 44 38	4212.01	9.22	167.88	173.88	61.44	22 54 50	3612.0	5.34	161.24
110.00	8 7 20	2069.59	-31.26	26.66	178.82	104.60	8 41 49	1469.6	-28.94	18.22
110.00	22 38 18	4043.97	12.08	153.43	172.17	57.78	23 45 42	3444.0	7.74	147.02

DIFFERENTIAL CORRECTIONS

TOE	-.7305	TRA	-1.4311	TC3	.3608	BAU	.1716												
ROE	.1594	RRA	.4318	RC3	-.5425	FAU	.03753												
FOE	1.6970	FRA	1.8647	FC3	-1.6493	BSP	7316												
BOE	.7477	BRA	1.4948	BC3	.6515	FSP	-902												

MID-COURSE EXECUTION ACCURACY

SGT	2138.9	SGR	774.8	SG3	311.8						
RRT	-.8625	RRF	.9170	RTF	-.9331						
SGB	2275.0	R23	-.1714	R13	.9437						
SG1	2244.0	SG2	373.8	THA	162.14						

ORBIT DETERMINATION ACCURACY

ST	1100.9	SR	268.2	SS	1356.8						
CRT	-.9874	CRS	-.9324	CST	.9767						
LSA	1756.4	MSA	198.8	SSA	13.0						
ELI	1132.3	EL2	41.2	ALF	166.46						

LAUNCH DATE OCT 13 1965 FLIGHT TIME 124.00 ARRIVAL DATE FEB 14 1966

HELIOCENTRIC CONIC DISTANCE 320.435

RL	149.24	LAL	.00	LOL	19.45	VL	26.752	GAL	3.16	AZL	85.12	HCA	136.70	SMA	124.87	ECC	.20254	INC	4.8752	VI	29.856
RP	107.55	LAP	3.34	LOP	156.25	VP	37.487	GAP	-8.57	AZP	93.55	TAL	167.37	TAP	304.07	RCA	99.58	APO	150.16	V2	35.236
RC	47.916	GL	30.93	GP	-24.28	ZAL	63.53	ZAP	29.32	ETS	51.69	ZAE	140.05	ETE	302.30	ZAC	65.20	ETC	147.90	CLP	-16.96

PLANETOCENTRIC CONIC

C3	19.506	VHL	4.417	DLA	14.81	RAL	313.41	RAD	6567.8	VEL	11.870	PTH	2.11	VHP	6.522	DPA	-40.90	RAP	331.79	ECC	1.3210

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 52 2	2687.55	-27.54	73.66	179.45	96.85	5 36 50	2087.5	-26.31	65.21
90.00	20 44 35	4373.38	5.61	181.68	173.30	62.20	21 57 28	3773.4	1.84	175.02
100.00	6 21 22	2399.45	-28.83	52.28	179.26	98.26	7 1 22	1799.4	-27.39	43.77
100.00	21 57 56	4136.71	6.75	163.66	172.68	60.81	23 6 53	3536.7	2.81	157.09
110.00	7 47 28	2130.07	-32.21	31.12	178.55	102.12	8 22 58	1530.1	-30.21	22.48
110.00	22 48 20	3978.85	9.69	149.89	170.89	57.06	23 54 39	3378.9	5.28	143.58

DIFFERENTIAL CORRECTIONS

TOE	-.7711	TRA	-1.4116	TC3	.3923	BAU	.1860												
ROE	.2466	RRA	.4705	RC3	-.5956	FAU	.03925												
FOE	1.8985	FRA	1.9437	FC3	-1.7421	BSP	7522												
BOE	.8096	BRA	1.4880	BC3	.7132	FSP	-981												

MID-COURSE EXECUTION ACCURACY

SGT	2170.0	SGR	881.8	SG3	337.3						
RRT	-.8874	RRF	.9424	RTF	-.9371						
SGB	2342.3	R23	-.1825	R13	.9501						
SG1	2311.0	SG2	381.7	THA	159.59						

ORBIT DETERMINATION ACCURACY

ST	1150.5	SR	372.1	SS	1456.5						
CRT	-.9993	CRS	-.9741	CST	.9782						
LSA	1882.9	MSA	195.8	SSA	12.0						
ELI	1209.1	EL2	13.4	ALF	162.09						

LAUNCH DATE OCT 13 1965 FLIGHT TIME 126.00 ARRIVAL DATE FEB 16 1966

HELIOCENTRIC CONIC DISTANCE 327.136

RL	149.24	LAL	.00	LOL	19.45	VL	26.832	GAL	2.98	AZL	84.76	HCA	139.93	SMA	125.38	ECC	.19707	INC	5.2394	VI	29.856
RP	107.56	LAP	3.37	LOP	159.50	VP	37.538	GAP	-7.93	AZP	94.01	TAL	167.70	TAP	307.63	RCA	100.67	APO	150.08	V2	35.230
RC	49.420	GL	33.57	GP	-27.09	ZAL	64.76	ZAP	32.75	ETS	50.94	ZAE	137.31	ETE	302.08	ZAC	67.44	ETC	147.52	CLP	-19.15

PLANETOCENTRIC CONIC

C3	19.582	VHL	4.425	DLA	17.18	RAL	312.10	RAD	6567.8	VEL	11.873	PTH	2.11	VHP	6.293	DPA	-43.15	RAP	334.40	ECC	1.3223

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 24 25	2774.90	-28.09	79.99	179.22	93.72	5 10 40	2174.9	-27.28	71.42
90.00	21 1 43	4287.86	2.87	176.88	172.44	61.82	22 13 11	3687.9	-.92	170.25
100.00	5 55 39	2480.72	-29.48	58.23	179.10	95.20	6 37 0	1880.7	-28.45	49.58
100.00	22 13 10	4057.28	4.09	159.26	171.76	60.36	23 20 47	3457.3	.11	152.73
110.00	7 25 39	2199.12	-33.08	36.32	178.57	99.16	8 2 18	1599.1	-31.46	27.46
110.00	22 59 39	3911.64	7.18	146.31	169.86	56.49	24 4 51	3311.6	2.73	140.05

DIFFERENTIAL CORRECTIONS								MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TDE	-.8169	TRA	-1.3906	TC3	.4135	BAU	.2012	SGT	2191.8	SGR	1014.9	SG3	361.8	ST	1199.4	SR	503.4	SS	1558.9
RDE	.3529	RRA	.5177	RC3	-.6480	FAU	.04071	RRT	-.9061	RRF	.9610	RTF	-.9405	CRT	-.9979	CRS	-.9898	CST	.9798
FDE	2.1218	FRA	2.0140	FC3	-1.7998	BSP	7747	SGB	2415.4	R23	-.1890	R13	.9566	LSA	2021.0	MSA	193.7	SSA	10.9
BDE	.8899	BRA	1.4838	BC3	.7687	FSP	-1060	SG1	2382.9	SG2	395.0	THA	156.56	EL1	1300.4	EL2	29.8	ALF	157.26

LAUNCH DATE OCT 13 1965 FLIGHT TIME 128.00 ARRIVAL DATE FEB 18 1966

HELIOCENTRIC CONIC DISTANCE 333.819

RL	149.24	LAL	.00	LOL	19.45	VL	26.905	GAL	2.81	AZL	84.34	HCA	143.16	SMA	125.84	ECC	.19210	INC	5.6560	VI	29.856
RP	107.58	LAP	3.39	LOP	162.75	VP	37.584	GAP	-7.31	AZP	94.53	TAL	168.04	TAP	311.20	RCA	101.67	APO	150.01	V2	35.224
RC	51.018	GL	36.35	GP	-30.33	ZAL	66.08	ZAP	36.55	ETS	50.42	ZAE	134.35	ETE	301.43	ZAC	69.84	ETC	147.07	CLP	-21.44

PLANETOCENTRIC CONIC

C3	19.968	VHL	4.469	DLA	19.66	RAL	310.70	RAD	6567.8	VEL	11.889	PTH	2.11	VHP	6.109	DPA	-45.78	RAP	337.29	ECC	1.3286

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	3 52 49	2877.51	-28.32	87.49	179.23	89.97	4 40 47	2277.5	-28.02	78.84
90.00	21 22 10	4194.52	-.14	171.68	171.97	61.68	22 32 4	3594.5	-3.92	165.04
100.00	5 26 33	2575.24	-29.86	65.23	179.20	91.53	6 9 29	1975.2	-29.32	56.47
100.00	22 31 7	3972.02	1.21	154.57	171.22	60.13	23 37 19	3372.0	-2.78	148.05
110.00	7 1 28	2278.28	-33.77	42.39	178.91	95.63	7 39 27	1678.3	-32.63	33.34
110.00	23 12 41	3841.74	4.54	142.62	169.14	56.08	24 16 43	3241.7	.05	136.40

DIFFERENTIAL CORRECTIONS								MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TDE	-.8701	TRA	-1.3694	TC3	.4198	BAU	.2169	SGT	2205.0	SGR	1177.9	SG3	383.9	ST	1248.1	SR	665.7	SS	1661.9
RDE	.4855	RRA	.5752	RC3	-.6958	FAU	.04162	RRT	-.9194	RRF	.9741	RTF	-.9435	CRT	-.9944	CRS	-.9960	CST	.9814
FDE	2.3652	FRA	2.0698	FC3	-1.8044	BSP	7987	SGB	2499.9	R23	-.1896	R13	.9632	LSA	2173.8	MSA	192.6	SSA	9.8
BDE	.9964	BRA	1.4853	BC3	.8126	FSP	-1130	SG1	2465.3	SG2	414.4	THA	153.02	EL1	1413.2	EL2	62.0	ALF	152.00

LAUNCH DATE OCT 13 1965 FLIGHT TIME 130.00 ARRIVAL DATE FEB 20 1966

HELIOCENTRIC CONIC DISTANCE 340.480

RL	149.24	LAL	.00	LOL	19.45	VL	26.971	GAL	2.65	AZL	83.86	HCA	146.39	SMA	126.26	ECC	.18760	INC	6.1402	VI	29.856
RP	107.61	LAP	3.39	LOP	165.99	VP	37.624	GAP	-6.71	AZP	95.12	TAL	168.37	TAP	314.76	RCA	102.58	APO	149.95	V2	35.216
RC	52.701	GL	39.26	GP	-34.06	ZAL	67.49	ZAP	40.72	ETS	50.03	ZAE	131.12	ETE	300.40	ZAC	72.41	ETC	146.55	CLP	-23.81

PLANETOCENTRIC CONIC

C3	20.733	VHL	4.553	DLA	22.26	RAL	309.21	RAD	6567.8	VEL	11.921	PTH	2.12	VHP	5.980	DPA	-48.84	RAP	340.63	ECC	1.3412

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	3 15 18	3001.63	-27.98	96.55	179.40	85.45	4 5 19	2401.6	-28.32	87.90
90.00	21 47 49	4088.35	-3.56	165.75	172.03	61.89	22 55 57	3488.4	-7.29	159.06
100.00	4 52 44	2687.47	-29.77	73.57	179.53	87.15	5 37 31	2087.5	-29.85	64.77
100.00	22 53 4	3877.75	-1.99	149.40	171.16	60.17	23 57 42	3277.7	-5.94	142.85
110.00	6 34 15	2369.85	-34.16	49.51	179.59	91.43	7 13 45	1769.8	-33.58	40.31
110.00	23 28 2	3768.13	1.73	138.77	168.83	55.86	24 30 50	3168.1	-2.76	132.56

DIFFERENTIAL CORRECTIONS								MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TDE	-.9279	TRA	-1.3453	TC3	.4171	BAU	.2347	SGT	2203.1	SGR	1374.1	SG3	400.7	ST	1290.2	SR	861.7	SS	1757.3
RDE	.6521	RRA	.6431	RC3	-.7368	FAU	.04192	RRT	-.9291	RRF	.9830	RTF	-.9461	CRT	-.9915	CRS	-.9984	CST	.9829
FDE	2.6155	FRA	2.0981	FC3	-1.7503	BSP	8342	SGB	2596.4	R23	-.1827	R13	.9699	LSA	2336.3	MSA	192.2	SSA	8.7
BDE	1.1341	BRA	1.4911	BC3	.8467	FSP	-1194	SG1	2559.3	SG2	437.6	THA	148.90	EL1	1548.7	EL2	93.5	ALF	146.35

LAUNCH DATE OCT 13 1965 FLIGHT TIME 132.00 ARRIVAL DATE FEB 22 1966

HELIOCENTRIC CONIC DISTANCE 347.119

RL	149.24	LAL	.00	LOL	19.45	VL	27.030	GAL	2.51	AZL	83.29	HCA	149.62	SMA	126.65	ECC	.18355	INC	6.7139	VI	29.856
RP	107.63	LAP	3.39	LOP	169.24	VP	37.659	GAP	-6.13	AZP	95.80	TAL	168.68	TAP	318.30	RCA	103.40	APO	149.90	V2	35.208
RC	54.462	GL	42.32	GP	-38.32	ZAL	69.00	ZAP	45.28	ETS	49.71	ZAE	127.51	ETE	299.09	ZAC	75.21	ETC	146.02	CLP	-26.25

PLANETOCENTRIC CONIC

C3	21.990	VHL	4.689	DLA	24.99	RAL	307.62	RAD	6567.9	VEL	11.974	PTH	2.13	VHP	5.923	DPA	-52.31	RAP	344.65	ECC	1.3619

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	2 27 16	3161.97	-26.58	108.06	179.54	79.85	3 19 58	2562.0	-27.71	99.58
90.00	22 23 9	3956.37	-7.74	158.31	172.90	62.68	23 29 6	3356.4	-11.35	151.48
100.00	4 11 24	2826.26	-28.86	83.78	179.96	81.85	4 58 30	2226.3	-29.69	75.07
100.00	23 21 43	3767.31	-5.71	143.31	171.79	60.61	24 24 30	3167.3	-9.58	136.67
110.00	6 2 54	2477.43	-34.02	57.91	180.58	86.47	6 44 11	1877.4	-34.14	48.66
110.00	23 46 43	3688.90	-1.30	134.64	169.05	55.84	24 48 12	3088.9	-5.77	128.41

DIFFERENTIAL CORRECTIONS								MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TDE	-.9987	TRA	-1.3248	TC3	.3904	BAU	.2514	SGT	2193.7	SGR	1606.5	SG3	409.7	ST	1332.7	SR	1098.1	SS	1842.8
RDE	.8660	RRA	.7239	RC3	-.7607	FAU	.04091	RRT	-.9350	RRF	.9889	RTF	-.9480	CRT	-.9896	CRS	-.9994	CST	.9845
FDE	2.8642	FRA	2.0931	FC3	-1.6107	BSP	8664	SGB	2719.0	R23	-.1694	R13	.9765	LSA	2518.1	MSA	192.2	SSA	7.5
BDE	1.3218	BRA	1.5097	BC3	.8550	FSP	-1228	SG1	2678.7	SG2	466.7	THA	144.35	EL1	1722.4	EL2	122.1	ALF	140.57

LAUNCH DATE OCT 13 1965 FLIGHT TIME 134.00 ARRIVAL DATE FEB 24 1966

HELIOCENTRIC CONIC DISTANCE 353.734

RL	149.24	LAL	.00	LOL	19.45	VL	27.083	GAL	2.39	AZL	82.59	HCA	152.84	SMA	127.00	ECC	.17993	INC	7.4092
RP	107.66	LAP	3.38	LOP	172.48	VP	37.689	GAP	-5.57	AZP	96.60	TAL	168.98	TAP	321.82	RCA	104.15	APO	149.85
RC	56.291	GL	45.51	GP	-43.16	ZAL	70.60	ZAP	50.23	ETS	49.40	ZAE	123.46	ETE	297.59	ZAC	78.29	ETC	145.53

V1	29.856																		
V2	35.200																		
CLP	-28.73																		

PLANETOCENTRIC CONIC

C3	23.926	VHL	4.891	DLA	27.84	RAL	305.91	RAD	6568.0	VEL	12.054	PTH	2.15	VHP	5.960	DPA	-56.18	RAP	349.73
ECC	1.3938																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	1 6 1	3431.28	-22.03	126.45	178.68	71.74	2 3 12	2831.3	-24.32	118.53
90.00	23 30 47	3728.13	-14.58	145.03	175.61	65.45	24 32 55	3128.1	-17.77	137.80
100.00	3 14 30	3017.06	-26.26	97.35	180.06	75.18	4 4 47	2417.1	-28.04	89.00
100.00	0 8 54	3617.58	-10.62	134.91	173.61	61.89	1 9 12	3017.6	-14.30	128.05
110.00	5 25 22	2607.51	-33.02	67.92	181.73	80.62	6 8 49	2007.5	-33.97	58.81
110.00	0 14 32	3599.89	-4.69	129.98	170.01	56.10	1 14 32	2999.9	-9.11	123.68

DIFFERENTIAL CORRECTIONS

TDE	-1.0772	TRA	-1.3030	TC3	.3538	BAU	.2692
RDE	1.1403	RRA	.8155	RC3	-.7635	FAU	.03864
FDE	3.0788	FRA	2.0352	FC3	-1.3980	BSP	9138
BDE	1.5687	BRA	1.5372	BC3	.8415	FSP	-1234

MID-COURSE EXECUTION ACCURACY

SGT	2166.0	SGR	1873.2	SG3	406.6		
RRT	-.9387	RRF	.9927	RTF	-.9495		
SGB	2863.6	R23	-.1496	R13	.9827		
SG1	2820.4	SG2	495.9	THA	139.41		

ORBIT DETERMINATION ACCURACY

ST	1364.0	SR	1374.6	SS	1903.3		
CRT	-.9885	CRS	-.9998	CST	.9858		
LSA	2708.4	MSA	192.7	SSA	6.4		
EL1	1931.0	EL2	146.7	ALF	134.77		

LAUNCH DATE OCT 13 1965 FLIGHT TIME 136.00 ARRIVAL DATE FEB 26 1966

HELIOCENTRIC CONIC DISTANCE 360.323

RL	149.24	LAL	.00	LOL	19.45	VL	27.130	GAL	2.28	AZL	81.72	HCA	156.05	SMA	127.31	ECC	.17672	INC	8.2751
RP	107.69	LAP	3.35	LOP	175.72	VP	37.714	GAP	-5.02	AZP	97.57	TAL	169.25	TAP	325.30	RCA	104.81	APO	149.81
RC	58.184	GL	48.84	GP	-48.58	ZAL	72.30	ZAP	55.52	ETS	49.06	ZAE	118.89	ETE	296.07	ZAC	81.67	ETC	145.19

V1	29.856																		
V2	35.191																		
CLP	-31.18																		

PLANETOCENTRIC CONIC

C3	26.858	VHL	5.182	DLA	30.80	RAL	304.05	RAD	6568.1	VEL	12.175	PTH	2.18	VHP	6.124	DPA	-60.29	RAP	356.51
ECC	1.4420																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
77.36	22 28 10	3932.62	-19.31	162.33	178.07	65.53	23 33 43	3332.6	-22.44	154.87
102.64	1 53 48	3283.82	-19.29	114.47	178.07	65.52	2 48 32	2683.8	-22.43	107.01
77.36	22 28 10	3932.62	-19.31	162.33	178.07	65.53	23 33 43	3332.6	-22.44	154.87
102.64	1 53 48	3283.82	-19.29	114.47	178.07	65.52	2 48 32	2683.8	-22.43	107.01
110.00	4 36 50	2774.93	-30.48	80.30	182.64	73.72	5 23 5	2174.9	-32.41	71.61
110.00	0 48 15	3489.50	-8.84	124.13	172.16	56.85	1 46 24	2889.5	-13.15	117.68

DIFFERENTIAL CORRECTIONS

TDE	-1.1746	TRA	-1.2880	TC3	.2986	BAU	.2838
RDE	1.4981	RRA	.9187	RC3	-.7320	FAU	.03450
FDE	3.2348	FRA	1.9199	FC3	-1.1119	BSP	9641
BDE	1.9037	BRA	1.5820	BC3	.7905	FSP	-1190

MID-COURSE EXECUTION ACCURACY

SGT	2128.4	SGR	2171.8	SG3	388.6		
RRT	-.9401	RRF	.9951	RTF	-.9504		
SGB	3040.9	R23	-.1256	R13	.9881		
SG1	2995.0	SG2	526.2	THA	134.38		

ORBIT DETERMINATION ACCURACY

ST	1390.6	SR	1694.0	SS	1932.7		
CRT	-.9880	CRS	-1.0000	CST	.9870		
LSA	2915.7	MSA	193.7	SSA	5.3		
EL1	2185.4	EL2	166.3	ALF	129.32		

LAUNCH DATE OCT 13 1965 FLIGHT TIME 138.00 ARRIVAL DATE FEB 28 1966

HELIOCENTRIC CONIC DISTANCE 366.883

RL	149.24	LAL	.00	LOL	19.45	VL	27.172	GAL	2.19	AZL	80.61	HCA	159.26	SMA	127.59	ECC	.17388	INC	9.3908
RP	107.72	LAP	3.31	LOP	178.96	VP	37.735	GAP	-4.49	AZP	98.79	TAL	169.49	TAP	328.75	RCA	105.40	APO	149.77
RC	60.133	GL	52.29	GP	-54.55	ZAL	74.11	ZAP	61.06	ETS	48.70	ZAE	113.77	ETE	294.72	ZAC	85.41	ETC	145.19

V1	29.856																		
V2	35.181																		
CLP	-33.45																		

PLANETOCENTRIC CONIC

C3	31.363	VHL	5.600	DLA	33.84	RAL	302.01	RAD	6568.2	VEL	12.359	PTH	2.23	VHP	6.469	DPA	-64.37	RAP	6.04
ECC	1.5162																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
70.66	21 35 18	4110.67	-19.85	176.20	179.44	62.02	22 43 49	3510.7	-23.43	168.92
109.34	2 30 21	3183.31	-19.84	107.09	179.43	62.01	3 23 24	2583.3	-23.42	99.81
70.66	21 35 18	4110.67	-19.85	176.20	179.44	62.02	22 43 49	3510.7	-23.43	168.92
109.34	2 30 21	3183.31	-19.84	107.09	179.43	62.01	3 23 24	2583.3	-23.42	99.81
110.00	3 11 15	3058.39	-23.51	99.35	181.42	64.44	4 2 13	2458.4	-26.75	91.69
110.00	1 57 31	3283.60	-16.26	112.80	177.33	59.51	2 52 14	2683.6	-20.19	105.87

DIFFERENTIAL CORRECTIONS

TDE	-1.2986	TRA	-1.2843	TC3	.2323	BAU	.2925
RDE	1.9678	RRA	1.0305	RC3	-.6577	FAU	.02848
FDE	3.2958	FRA	1.7432	FC3	-.7862	BSP	10198
BDE	2.3577	BRA	1.6466	BC3	.6975	FSP	-1091

MID-COURSE EXECUTION ACCURACY

SGT	2082.0	SGR	2491.4	SG3	353.7		
RRT	-.9397	RRF	.9965	RTF	-.9510		
SGB	3246.8	R23	-.0989	R13	.9925		
SG1	3199.1	SG2	554.7	THA	129.56		

ORBIT DETERMINATION ACCURACY

ST	1410.8	SR	2049.1	SS	1918.8		
CRT	-.9878	CRS	-1.0000	CST	.9881		
LSA	3135.7	MSA	195.4	SSA	4.3		
EL1	2481.1	EL2	181.3	ALF	124.43		

LAUNCH DATE OCT 13 1965 FLIGHT TIME 140.00 ARRIVAL DATE MAR 2 1966

HELIOCENTRIC CONIC DISTANCE 373.410

RL	149.24	LAL	.00	LOL	19.45	VL	27.208	GAL	2.11	AZL	79.11	HCA	162.45	SMA	127.83	ECC	.17141	INC	10.8922
RP	107.75	LAP	3.27	LOP	182.20	VP	37.752	GAP	-3.98	AZP	100.40	TAL	169.69	TAP	332.14	RCA	105.92	APO	149.74
RC	62.133	GL	55.82	GP	-61.03	ZAL	76.05	ZAP	66.68	ETS	48.54	ZAE	108.07	ETE	293.92	ZAC	89.52	ETC	145.90

V1	29.856																		
V2	35.171																		
CLP	-35.19																		

PLANETOCENTRIC CONIC

C3	38.573	VHL	6.211	DLA	36.91	RAL	299.72	RAD	6568.5	VEL	12.647	PTH	2.30	VHP	7.084	DPA	-67.84	RAP	19.74
ECC	1.6348																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
65.27	20 55 37	4254.69	-19.64	187.48	181.37	58.10	22 6 32	3654.7	-23.71	180.48
114.73	2 51 45	3143.72	-19.62	103.82	181.36	58.09	3 44 9	2543.7	-23.69	96.83
65.27	20 55 37	4254.69	-19.64	187.48	181.37	58.10	22 6 32	3654.7	-23.71	180.48
114.73	2 51 45	3143.72	-19.62	103.82	181.36	58.09	3 44 9	2543.7	-23.69	96.83
65.27	20 55 37	4254.69	-19.64	187.48	181.37	58.10	22 6 32	3654.7	-23.71	180.48
114.73	2 51 45	3143.72	-19.62	103.82	181.36	58.09	3 44 9	2543.7	-23.69	96.83

DIFFERENTIAL CORRECTIONS

TDE	-1.4703	TRA	-1.2988	TC3	.1687	BAU	.2922
RDE	2.5867	RRA	1.1389	RC3	-.5409	FAU	.02121
FDE	3.2306	FRA	1.5057	FC3	-.4761	BSP	10993
BDE	2.9754	BRA	1.7274	BC3	.5667	FSP	-958

MID-COURSE EXECUTION ACCURACY

SGT	2032.0	SGR	2805.9	SG3	302.4		
RRT	-.9378	RRF	.9971	RTF	-.9518		
SGB	3464.4	R23	-.0712	R13	.9957		
SG1	3415.6	SG2	579.7	THA	125.35		

ORBIT DETERMINATION ACCURACY

ST	1429.0	SR	2418.8	SS	1851.9		
CRT	-.9878	CRS	-1.0000	CST	.9892		
LSA	3359.0	MSA	197.8	SSA	3.4		
EL1	2802.8	EL2	192.0	ALF	120.42		

LAUNCH DATE OCT 13 1965 FLIGHT TIME 142.00 ARRIVAL DATE MAR 4 1966

HELIOCENTRIC CONIC DISTANCE 379.897

RL 149.24 LAL .00 LOL 19.45 VL 27.240 GAL 2.05 AZL 76.97 HCA 165.63 SMA 128.05 ECC .16928 INC13.0336 VI 29.856
RP 107.78 LAP 3.21 LOP 185.44 VP 37.766 GAP -3.49 AZP 102.64 TAL 169.83 TAP 335.46 RCA 106.37 APO 149.72 V2 35.160
RC 64.180 GL 59.34 GP -67.92 ZAL 78.11 ZAP 72.18 ETS 49.44 ZAE 101.80 ETE 294.66 ZAC 94.07 ETC 148.33 CLP -35.49

PLANETOCENTRIC CONIC

C3 50.943 VHL 7.137 DLA 39.90 RAL 297.11 RAD 6568.9 VEL 13.126 PTH 2.40 VHP 8.132 DPA -69.72 RAP 38.46 ECC 1.8384

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
60.63	20 22 26	4390.39	-18.27	197.72	183.86	53.89	21 35 37	3790.4	-22.85	191.13
119.37	3 4 8	3147.82	-18.26	103.19	183.85	53.89	3 56 36	2547.8	-22.84	96.60
60.63	20 22 26	4390.39	-18.27	197.72	183.86	53.89	21 35 37	3790.4	-22.85	191.13
119.37	3 4 8	3147.82	-18.26	103.19	183.85	53.89	3 56 36	2547.8	-22.84	96.60
60.63	20 22 26	4390.39	-18.27	197.72	183.86	53.89	21 35 37	3790.4	-22.85	191.13
119.37	3 4 8	3147.82	-18.26	103.19	183.85	53.89	3 56 36	2547.8	-22.84	96.60

DIFFERENTIAL CORRECTIONS
TDE-1.7847 TRA-1.3739 TC3 .1036 BAU .2652
RDE 3.4206 RRA 1.2312 RC3 -.3754 FAU .01273
FDE 3.0505 FRA 1.2421 FC3 -.2163 BSP 11709
BDE 3.8582 BRA 1.8449 BC3 .3894 FSP -777

MID-COURSE EXECUTION ACCURACY
SGT 2035.0 SGR 3080.1 SG3 241.0
RRT -.9358 RRF .9968 RTF -.9552
SGB 3691.6 R23 -.0428 R13 .9979
SG1 3641.4 SG2 607.0 THA 122.75

ORBIT DETERMINATION ACCURACY
ST 1496.2 SR 2773.0 SS 1742.3
CRT -.9884 CRS -.9998 CST .9910
LSA 3594.8 MSA 202.1 SSA 2.7
EL1 3144.5 EL2 200.6 ALF 118.19

LAUNCH DATE OCT 13 1965 FLIGHT TIME 144.00 ARRIVAL DATE MAR 6 1966

HELIOCENTRIC CONIC DISTANCE 386.325

RL 149.24 LAL .00 LOL 19.45 VL 27.268 GAL 2.01 AZL 73.65 HCA 168.78 SMA 128.23 ECC .16748 INC16.3494 VI 29.856
RP 107.81 LAP 3.14 LOP 188.67 VP 37.775 GAP -3.01 AZP 106.05 TAL 169.91 TAP 338.68 RCA 106.76 APO 149.71 V2 35.149
RC 66.268 GL 62.60 GP -75.10 ZAL 80.33 ZAP 77.30 ETS 55.20 ZAE 94.83 ETE 300.76 ZAC 99.22 ETC 156.38 CLP -31.27

PLANETOCENTRIC CONIC

C3 74.661 VHL 8.641 DLA 42.53 RAL 294.12 RAD 6569.5 VEL 14.000 PTH 2.55 VHP 9.949 DPA -68.88 RAP 59.78 ECC 2.2287

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
56.83	19 53 56	4528.80	-15.30	207.22	186.79	49.81	21 9 25	3928.8	-20.36	201.13
123.17	3 8 48	3194.30	-15.28	104.75	186.78	49.81	4 2 2	2594.3	-20.34	98.66
56.83	19 53 56	4528.80	-15.30	207.22	186.79	49.81	21 9 25	3928.8	-20.36	201.13
123.17	3 8 48	3194.30	-15.28	104.75	186.78	49.81	4 2 2	2594.3	-20.34	98.66
56.83	19 53 56	4528.80	-15.30	207.22	186.79	49.81	21 9 25	3928.8	-20.36	201.13
123.17	3 8 48	3194.30	-15.28	104.75	186.78	49.81	4 2 2	2594.3	-20.34	98.66

DIFFERENTIAL CORRECTIONS
TDE-2.6609 TRA-1.6161 TC3 .0507 BAU .1897
RDE 4.4383 RRA 1.1961 RC3 -.1831 FAU .00419
FDE 2.7874 FRA .9802 FC3 -.0486 BSP 12714
BDE 5.1748 BRA 2.0106 BC3 .1500 FSP -598

MID-COURSE EXECUTION ACCURACY
SGT 2288.2 SGR 3149.6 SG3 177.1
RRT -.9416 RRF .9938 RTF -.9704
SGB 3893.1 R23 -.0134 R13 .9990
SG1 3841.4 SG2 632.0 THA 125.48

ORBIT DETERMINATION ACCURACY
ST 1817.6 SR 2960.7 SS 1605.1
CRT -.9911 CRS -.9995 CST .995C
LSA 3821.4 MSA 206.1 SSA 2.1
EL1 3468.0 EL2 206.0 ALF 121.4

LAUNCH DATE OCT 13 1965 FLIGHT TIME 146.00 ARRIVAL DATE MAR 8 1966

HELIOCENTRIC CONIC DISTANCE 392.664

RL 149.24 LAL .00 LOL 19.45 VL 27.291 GAL 2.00 AZL 67.84 HCA 171.85 SMA 128.39 ECC .16603 INC22.1601 VI 29.856
RP 107.85 LAP 3.06 LOP 191.90 VP 37.781 GAP -2.58 AZP 111.96 TAL 169.86 TAP 341.72 RCA 107.07 APO 149.71 V2 35.138
RC 68.394 GL 64.92 GP -81.74 ZAL 82.68 ZAP 81.80 ETS 95.79 ZAE 86.74 ETE 342.09 ZAC 105.50 ETC 200.15 CLP -6.49

PLANETOCENTRIC CONIC

C3 129.018 VHL 11.359 DLA 44.12 RAL 290.78 RAD 6570.4 VEL 15.823 PTH 2.80 VHP 13.354 DPA -64.54 RAP 78.49 ECC 3.1233

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
54.63	19 31 46	4669.83	-10.37	215.32	189.92	46.87	20 49 36	4069.8	-15.78	209.68
125.37	3 4 20	3287.89	-10.35	108.61	189.91	46.86	3 59 8	2687.9	-15.76	102.97
54.63	19 31 46	4669.83	-10.37	215.32	189.92	46.87	20 49 36	4069.8	-15.78	209.68
125.37	3 4 20	3287.89	-10.35	108.61	189.91	46.86	3 59 8	2687.9	-15.76	102.97
54.63	19 31 46	4669.83	-10.37	215.32	189.92	46.87	20 49 36	4069.8	-15.78	209.68
125.37	3 4 20	3287.89	-10.35	108.61	189.91	46.86	3 59 8	2687.9	-15.76	102.97

DIFFERENTIAL CORRECTIONS
TDE-7.4150 TRA-2.3688 TC3 -.0549 BAU .1050
RDE .3509 RRA -.3266 RC3 -.0264 FAU-.00599
FDE 2.5817 FRA .8051 FC3 .0402 BSP 12140
BDE 7.4233 BRA 2.3912 BC3 .0609 FSP -383

MID-COURSE EXECUTION ACCURACY
SGT 4095.9 SGR 296.0 SG3 122.9
RRT -.2249 RRF .2262 RTF -.9994
SGB 4106.6 R23 -.0003 R13 .9994
SG1 4096.4 SG2 288.3 THA 179.06

ORBIT DETERMINATION ACCURACY
ST 3773.5 SR 189.9 SS 1515.3
CRT -.8758 CRS -.8773 CST 1.0000
LSA 4069.8 MSA 91.6 SSA 1.7
EL1 3777.2 EL2 91.6 ALF 177.47

LAUNCH DATE OCT 13 1965 FLIGHT TIME 148.00 ARRIVAL DATE MAR 10 1966

HELIOCENTRIC CONIC DISTANCE 398.771

RL 149.24 LAL .00 LOL 19.45 VL 27.311 GAL 2.04 AZL 55.40 HCA 174.75 SMA 128.52 ECC .16499 INC34.5961 VI 29.856
RP 107.89 LAP 2.98 LOP 195.13 VP 37.785 GAP -2.20 AZP 124.48 TAL 169.59 TAP 344.35 RCA 107.32 APO 149.73 V2 35.126
RC 70.553 GL 64.09 GP -79.51 ZAL 85.12 ZAP 85.42 ETS 172.13 ZAE 75.81 ETE 59.10 ZAC 114.64 ETC 281.01 CLP 63.97

PLANETOCENTRIC CONIC

C3 296.831 VHL 17.229 DLA 42.51 RAL 287.60 RAD 6571.7 VEL 20.448 PTH 3.16 VHP 20.830 DPA -55.44 RAP 92.22 ECC 5.8851

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
56.86	19 28 4	4776.34	-4.11	219.00	193.12	47.65	20 47 40	4176.3	-9.47	213.43
123.14	2 42 39	3442.56	-4.10	116.59	193.10	47.65	3 40 2	2842.6	-9.46	111.03
56.86	19 28 4	4776.34	-4.11	219.00	193.12	47.65	20 47 40	4176.3	-9.47	213.43
123.14	2 42 39	3442.56	-4.10	116.59	193.10	47.65	3 40 2	2842.6	-9.46	111.03
56.86	19 28 4	4776.34	-4.11	219.00	193.12	47.65	20 47 40	4176.3	-9.47	213.43
123.14	2 42 39	3442.56	-4.10	116.59	193.10	47.65	3 40 2	2842.6	-9.46	111.03

DIFFERENTIAL CORRECTIONS
TDE-3.8168 TRA -.0569 TC3 -.0862 BAU .8405
RD-10.8847 RRA-3.2254 RC3 -.1935 FAU-.01970
FDE 2.6386 FRA .7635 FC3 .0575 BSP 12729
BDE11.5345 BRA 3.2259 BC3 .2118 FSP -269

MID-COURSE EXECUTION ACCURACY
SGT 1303.9 SGR 3957.9 SG3 83.2
RRT .9360 RRF -.9993 RTF -.9407
SGB 4167.1 R23 -.0175 R13 -.9992
SG1 4144.0 SG2 438.5 THA 72.66

ORBIT DETERMINATION ACCURACY
ST 1269.4 SR 3646.1 SS 1590.2
CRT .9935 CRS 1.0000 CST .9938
LSA 4173.2 MSA 137.1 SSA 1.9
EL1 3858.3 EL2 136.4 ALF 70.90

LAUNCH DATE OCT 13 1965 FLIGHT TIME 150.00 ARRIVAL DATE MAR 12 1966

DISTANCE 404.026

HELIOCENTRIC CONIC

RL 149.24 LAL .00 LOL 19.45 VL 27.327 GAL 2.24 AZL 20.86 HCA 176.92 SMA 128.63 ECC .16481 INC69.1427 V1 29.856
RP 107.92 LAP 2.88 LOP 198.35 VP 37.785 GAP -2.05 AZP 159.12 TAL 168.52 TAP 345.44 RCA 107.43 APO 149.83 V2 35.114
RC 72.741 GL 51.65 GP -59.39 ZAL 87.25 ZAP 87.78 ETS 181.88 ZAE 55.48 ETE 66.68 ZAC 132.80 ETC 300.48 CLP 85.63

PLANETOCENTRIC CONIC

C3 1058.748 VHL 32.538 DLA 29.59 RAL 286.80 RAD 6573.0 VEL 34.352 PTH 3.51 VHP 40.481 DPA -35.04 RAP 102.11 ECC18.4243

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
81.04	21 46 56	4443.95	.28	189.77	197.31	60.41	23 1 0	3844.0	-3.66	183.22
98.96	0 17 22	3970.95	.30	155.01	197.30	60.41	1 23 33	3371.0	-3.64	148.46
100.00	1 1 18	3830.43	-3.59	146.80	199.52	60.30	2 5 8	3230.4	-7.52	140.21
100.00	23 45 41	4059.71	4.17	159.39	195.10	60.37	24 53 21	3459.7	.20	152.86
110.00	3 46 27	3312.82	-15.25	114.45	206.41	59.03	4 41 40	2712.8	-19.24	107.61
110.00	23 17 1	4150.08	15.85	159.33	188.23	59.31	24 26 11	3550.1	11.66	152.73

DIFFERENTIAL CORRECTIONS

TDE-5.6342 TRA .9760 TC3 -.0989 BAU 3.9513
RD-16.7021 RRA-5.9658 RC3 -.2611 FAU-.06888
FDE 3.4305 FRA 1.2806 FC3 .0563 BSP 11269
BDE17.6268 BRA 6.0451 BC3 .2792 FSP -202

MID-COURSE EXECUTION ACCURACY

SGT 1198.9 SGR 3604.9 SG3 65.0
RRT .8728 RRF -.9997 RTF -.8687
SGB 3799.0 R23 -.0523 R13 -.9984
SG1 3757.3 SG2 561.4 THA 73.43

ORBIT DETERMINATION ACCURACY

ST 994.1 SR 2963.7 SS 2130.6
CRT .9834 CRS 1.0000 CST .9824
LSA 3778.9 MSA 176.1 SSA 1.6
EL1 3121.3 EL2 171.1 ALF 71.69

LAUNCH DATE OCT 13 1965 FLIGHT TIME 152.00 ARRIVAL DATE MAR 14 1966

DISTANCE 414.258

HELIOCENTRIC CONIC

RL 149.24 LAL .00 LOL 19.45 VL 27.340 GAL 1.53 AZL 142.60 HCA 183.49 SMA 128.72 ECC .16162 INC52.5957 V1 29.856
RP 107.96 LAP 2.77 LOP 201.57 VP 37.783 GAP -.62 AZP 37.46 TAL 172.01 TAP 355.51 RCA 107.92 APO 149.52 V2 35.101
RC 74.954 GL -58.49 GP 66.81 ZAL 87.24 ZAP 88.91 ETS 190.36 ZAE 74.96 ETE 298.74 ZAC 97.15 ETC 75.03 CLP 87.24

PLANETOCENTRIC CONIC

C3 648.400 VHL 25.464 DLA -76.18 RAL 336.24 RAD 6572.6 VEL 27.743 PTH 3.41 VHP 33.461 DPA 85.21 RAP 208.45 ECC11.6710

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
15.75	8 50 41	2429.46	1.18	81.40	245.93	166.18	9 31 11	1829.5	8.94	79.89
164.25	19 48 3	644.41	1.18	284.09	245.96	166.18	19 58 47	44.4	8.95	282.58
15.75	8 50 41	2429.46	1.18	81.40	245.93	166.18	9 31 11	1829.5	8.94	79.89
164.25	19 48 3	644.41	1.18	284.09	245.96	166.18	19 58 47	44.4	8.95	282.58
15.75	8 50 41	2429.46	1.18	81.40	245.93	166.18	9 31 11	1829.5	8.94	79.89
164.25	19 48 3	644.41	1.18	284.09	245.96	166.18	19 58 47	44.4	8.95	282.58

DIFFERENTIAL CORRECTIONS

TDE 4.5949 TRA-1.5793 TC3 -.1378 BAU 2.4556
RDE-3.1356 RRA 3.5272 RC3 .2475 FAU-.04075
FDE -.9010 FRA .7923 FC3 .0544 BSP 12904
BDE 5.5628 BRA 3.8647 BC3 .2833 FSP -229

MID-COURSE EXECUTION ACCURACY

SGT 1942.7 SGR 3622.7 SG3 71.0
RRT -.9315 RRF .9986 RTF -.9488
SGB 4110.7 R23 -.0285 R13 .9995
SG1 4062.2 SG2 630.1 THA 117.25

ORBIT DETERMINATION ACCURACY

ST 1126.3 SR 1221.7 SS 873.5
CRT -.8539 CRS -.9928 CST .9100
LSA 1820.5 MSA 458.0 SSA 1.1
EL1 1600.3 EL2 447.4 ALF 132.28

LAUNCH DATE OCT 13 1965 FLIGHT TIME 154.00 ARRIVAL DATE MAR 16 1966

DISTANCE 419.827

HELIOCENTRIC CONIC

RL 149.24 LAL .00 LOL 19.45 VL 27.349 GAL 1.70 AZL 116.52 HCA 185.97 SMA 128.78 ECC .16153 INC26.5195 V1 29.856
RP 108.00 LAP 2.66 LOP 204.79 VP 37.778 GAP -.40 AZP 63.60 TAL 171.14 TAP 357.11 RCA 107.98 APO 149.59 V2 35.089
RC 77.191 GL -65.56 GP 83.82 ZAL 84.42 ZAP 88.44 ETS 227.41 ZAE 91.14 ETE 333.13 ZAC 81.76 ETC 108.46 CLP 75.39

PLANETOCENTRIC CONIC

C3 179.751 VHL 13.407 DLA -76.71 RAL 11.06 RAD 6570.9 VEL 17.351 PTH 2.95 VHP 18.133 DPA 71.72 RAP 277.02 ECC 3.9582

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
15.13	11 8 22	2287.76	10.63	80.05	278.50	166.48	11 46 30	1687.8	18.41	78.50
164.87	22 8 11	5788.64	10.64	260.04	278.53	166.48	23 44 39	5188.6	18.41	258.49
15.13	11 8 22	2287.76	10.63	80.05	278.50	166.48	11 46 30	1687.8	18.41	78.50
164.87	22 8 11	5788.64	10.64	260.04	278.53	166.48	23 44 39	5188.6	18.41	258.49
15.13	11 8 22	2287.76	10.63	80.05	278.50	166.48	11 46 30	1687.8	18.41	78.50
164.87	22 8 11	5788.64	10.64	260.04	278.53	166.48	23 44 39	5188.6	18.41	258.49

DIFFERENTIAL CORRECTIONS

TDE-1.8754 TRA-2.0344 TC3 -.1199 BAU .3508
RDE 2.5901 RRA 1.0986 RC3 .0832 FAU-.00580
FDE .8407 FRA .5890 FC3 .0279 BSP 13969
BDE 3.1978 BRA 2.3121 BC3 .1460 FSP -316

MID-COURSE EXECUTION ACCURACY

SGT 3880.3 SGR 2334.1 SG3 99.8
RRT -.9591 RRF .9835 RTF -.9940
SGB 4528.2 R23 -.0320 R13 .9992
SG1 4492.1 SG2 570.6 THA 149.47

ORBIT DETERMINATION ACCURACY

ST 1389.4 SR 1265.2 SS 762.8
CRT -.9003 CRS -.9725 CST .9769
LSA 1984.6 MSA 417.7 SSA 1.2
EL1 1832.2 EL2 417.6 ALF 137.97

LAUNCH DATE OCT 13 1965 FLIGHT TIME 156.00 ARRIVAL DATE MAR 18 1966

DISTANCE 425.922

HELIOCENTRIC CONIC

RL 149.24 LAL .00 LOL 19.45 VL 27.356 GAL 1.77 AZL 106.58 HCA 188.93 SMA 128.83 ECC .16137 INC16.5847 V1 29.856
RP 108.04 LAP 2.54 LOP 208.01 VP 37.770 GAP -.05 AZP 73.61 TAL 170.74 TAP 359.66 RCA 108.04 APO 149.62 V2 35.076
RC 79.446 GL -63.54 GP 86.40 ZAL 81.16 ZAP 88.76 ETS 326.11 ZAE 99.84 ETE 70.23 ZAC 73.62 ETC 202.72 CLP -69.79

PLANETOCENTRIC CONIC

C3 76.000 VHL 8.718 DLA -73.32 RAL 8.26 RAD 6569.5 VEL 14.048 PTH 2.56 VHP 12.102 DPA 62.73 RAP 283.13 ECC 2.2508

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
19.03	11 5 8	2107.72	21.67	74.52	271.41	162.00	11 40 16	1507.7	29.25	72.11
160.97	21 49 7	5623.65	21.68	258.41	271.43	162.00	23 22 51	5023.7	29.26	256.01
19.03	11 5 8	2107.72	21.67	74.52	271.41	162.00	11 40 16	1507.7	29.25	72.11
160.97	21 49 7	5623.65	21.68	258.41	271.43	162.00	23 22 51	5023.7	29.26	256.01
19.03	11 5 8	2107.72	21.67	74.52	271.41	162.00	11 40 16	1507.7	29.25	72.11
160.97	21 49 7	5623.65	21.68	258.41	271.43	162.00	23 22 51	5023.7	29.26	256.01

DIFFERENTIAL CORRECTIONS

TDE-1.2656 TRA -.4547 TC3 -.0071 BAU .1937
RDE-1.4287 RRA-1.8900 RC3 .1905 FAU .00852
FDE .7392 FRA .7189 FC3 -.0970 BSP 14495
BDE 1.9087 BRA 1.9440 BC3 .1906 FSP -480

MID-COURSE EXECUTION ACCURACY

SGT 1332.4 SGR 4439.8 SG3 149.0
RRT .8926 RRF -.9971 RTF -.9205
SGB 4635.4 R23 .0336 R13 -.9988
SG1 4599.0 SG2 580.0 THA 74.76

ORBIT DETERMINATION ACCURACY

ST 888.5 SR 1602.1 SS 724.3
CRT .8335 CRS .9886 CST .9071
LSA 1919.5 MSA 442.8 SSA 1.8
EL1 1777.7 EL2 442.5 ALF 63.42

LAUNCH DATE OCT 13 1965 FLIGHT TIME 158.00 ARRIVAL DATE MAR 20 1966

DISTANCE 432.144

HELIOCENTRIC CONIC

RL	149.24	LAL	.00	LOL	19.45	VL	27.360	GAL	1.83	AZL	101.64	HCA	192.01	SMA	128.86	ECC .16133	INC 11.6447	VI 29.856
RP	108.08	LAP	2.41	LOP	211.22	VP	37.761	GAP	.34	AZP	78.60	TAL	170.42	TAP	2.43	RCA 108.07	APO 149.64	V2 35.063
RC	81.719	GL	-58.67	GP	79.86	ZAL	77.78	ZAP	89.93	ETS	348.72	ZAE	105.96	ETE	91.76	ZAC 67.69	ETC 220.91	CLP -89.59

PLANETOCENTRIC CONIC

C3 41.753 VHL 6.462 DLA -69.04 RAL 358.99 RAD 6568.6 VEL 12.772 PTH 2.32 VHP 9.143 DPA 56.06 RAP 285.44 ECC 1.6872

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
23.98	10 38 35	1948.82	30.25	66.49	256.06	155.53	11 11 4	1348.8	37.46	62.74
156.02	21 1 39	5489.61	30.25	255.52	256.08	155.53	22 33 9	4889.6	37.47	251.77
23.98	10 38 35	1948.82	30.25	66.49	256.06	155.53	11 11 4	1348.8	37.46	62.74
156.02	21 1 39	5489.61	30.25	255.52	256.08	155.53	22 33 9	4889.6	37.47	251.77
23.98	10 38 35	1948.82	30.25	66.49	256.06	155.53	11 11 4	1348.8	37.46	62.74
156.02	21 1 39	5489.61	30.25	255.52	256.08	155.53	22 33 9	4889.6	37.47	251.77

DIFFERENTIAL CORRECTIONS

TDE	-.5764	TRA	.2268	TC3	-.1751	BAU	.3713
RDE	-.6398	RRA	-1.8182	RC3	.6417	FAU	.02004
FDE	.4527	FRA	.9697	FC3	-.4155	BSP	14608
BDE	.8611	BRA	1.8323	BC3	.6652	FSP	-695

MID-COURSE EXECUTION ACCURACY

SGT	792.7	SGR	4616.8	SG3	215.6		
RRT	-.6642	RRF	-.9986	RTF	.6408		
SGB	4684.4	R23	.0447	R13	-.9980		
SG1	4647.2	SG2	588.7	THA	96.61		

ORBIT DETERMINATION ACCURACY

ST	538.2	SR	1466.3	SS	652.0
CRT	.0783	CRS	.9939	CST	.1879
LSA	1604.3	MSA	539.4	SSA	2.5
EL1	1467.0	EL2	536.3	ALF	88.10

LAUNCH DATE OCT 13 1965 FLIGHT TIME 160.00 ARRIVAL DATE MAR 22 1966

DISTANCE 438.401

HELIOCENTRIC CONIC

RL	149.24	LAL	.00	LOL	19.45	VL	27.361	GAL	1.89	AZL	98.72	HCA	195.15	SMA	128.87	ECC .16146	INC 8.7169	VI 29.856
RP	108.12	LAP	2.27	LOP	214.43	VP	37.750	GAP	.73	AZP	81.58	TAL	170.10	TAP	5.25	RCA 108.06	APO 149.67	V2 35.050
RC	84.008	GL	-52.78	GP	74.21	ZAL	74.43	ZAP	91.88	ETS	358.45	ZAE	110.81	ETE	101.00	ZAC 62.61	ETC 226.37	CLP -96.93

PLANETOCENTRIC CONIC

C3 27.088 VHL 5.205 DLA -63.94 RAL 350.81 RAD 6568.1 VEL 12.185 PTH 2.19 VHP 7.446 DPA 50.37 RAP 286.44 ECC 1.4458

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
29.93	10 19 23	1820.24	35.32	56.31	240.53	147.43	10 49 43	1220.2	41.93	50.94
150.07	20 15 38	5400.44	35.33	251.89	240.54	147.43	21 45 38	4800.4	41.94	246.53
29.93	10 19 23	1820.24	35.32	56.31	240.53	147.43	10 49 43	1220.2	41.93	50.94
150.07	20 15 38	5400.44	35.33	251.89	240.54	147.43	21 45 38	4800.4	41.94	246.53
29.93	10 19 23	1820.24	35.32	56.31	240.53	147.43	10 49 43	1220.2	41.93	50.94
150.07	20 15 38	5400.44	35.33	251.89	240.54	147.43	21 45 38	4800.4	41.94	246.53

DIFFERENTIAL CORRECTIONS

TDE	-.4518	TRA	.4851	TC3	-.4995	BAU	.4545
RDE	-.1598	RRA	-1.7194	RC3	1.1514	FAU	.03149
FDE	.2258	FRA	1.2865	FC3	-1.0066	BSP	14725
BDE	.4792	BRA	1.7865	BC3	1.2551	FSP	-956

MID-COURSE EXECUTION ACCURACY

SGT	1412.7	SGR	4476.2	SG3	293.7		
RRT	-.9132	RRF	-.9985	RTF	.9040		
SGB	4693.8	R23	.0539	R13	-.9972		
SG1	4661.1	SG2	552.9	THA	106.31		

ORBIT DETERMINATION ACCURACY

ST	616.9	SR	1305.1	SS	642.9
CRT	-.4776	CRS	.9932	CST	-.3725
LSA	1484.8	MSA	541.1	SSA	3.2
EL1	1344.3	EL2	526.3	ALF	105.09

LAUNCH DATE OCT 13 1965 FLIGHT TIME 162.00 ARRIVAL DATE MAR 24 1966

DISTANCE 444.664

HELIOCENTRIC CONIC

RL	149.24	LAL	.00	LOL	19.45	VL	27.360	GAL	1.96	AZL	96.78	HCA	198.31	SMA	128.86	ECC .16177	INC 6.7791	VI 29.856
RP	108.16	LAP	2.13	LOP	217.64	VP	37.737	GAP	1.12	AZP	83.56	TAL	169.76	TAP	8.07	RCA 108.01	APO 149.70	V2 35.036
RC	86.309	GL	-46.58	GP	69.09	ZAL	71.23	ZAP	94.50	ETS	5.14	ZAE	114.85	ETE	107.84	ZAC 57.94	ETC 228.98	CLP-102.71

PLANETOCENTRIC CONIC

C3 19.746 VHL 4.444 DLA -58.39 RAL 344.72 RAD 6567.8 VEL 11.880 PTH 2.11 VHP 6.378 DPA 45.19 RAP 286.79 ECC 1.3250

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
36.54	10 11 25	1714.27	37.25	45.02	226.80	138.81	10 39 59	1114.3	43.06	38.23
143.46	19 35 2	5352.46	37.26	248.55	226.82	138.81	21 4 15	4752.5	43.07	241.75
36.54	10 11 25	1714.27	37.25	45.02	226.80	138.81	10 39 59	1114.3	43.06	38.23
143.46	19 35 2	5352.46	37.26	248.55	226.82	138.81	21 4 15	4752.5	43.07	241.75
36.54	10 11 25	1714.27	37.25	45.02	226.80	138.81	10 39 59	1114.3	43.06	38.23
143.46	19 35 2	5352.46	37.26	248.55	226.82	138.81	21 4 15	4752.5	43.07	241.75

DIFFERENTIAL CORRECTIONS

TDE	-.3997	TRA	.6736	TC3	-.9547	BAU	.4976
RDE	.0099	RRA	-1.6404	RC3	1.6253	FAU	.04258
FDE	.1179	FRA	1.6473	FC3	-1.8668	BSP	14667
BDE	.3998	BRA	1.7733	BC3	1.8850	FSP	-1230

MID-COURSE EXECUTION ACCURACY

SGT	1931.6	SGR	4285.7	SG3	378.5		
RRT	-.9565	RRF	-.9983	RTF	.9505		
SGB	4700.9	R23	.0632	R13	-.9964		
SG1	4672.4	SG2	517.0	THA	113.63		

ORBIT DETERMINATION ACCURACY

ST	716.5	SR	1211.3	SS	675.7
CRT	-.7022	CRS	.9909	CST	-.6001
LSA	1479.4	MSA	498.5	SSA	4.0
EL1	1328.2	EL2	465.2	ALF	115.97

LAUNCH DATE OCT 13 1965 FLIGHT TIME 164.00 ARRIVAL DATE MAR 26 1966

DISTANCE 450.920

HELIOCENTRIC CONIC

RL	149.24	LAL	.00	LOL	19.45	VL	27.357	GAL	2.04	AZL	95.40	HCA	201.48	SMA	128.84	ECC .16225	INC 5.3972	VI 29.856
RP	108.20	LAP	1.97	LOP	220.85	VP	37.722	GAP	1.51	AZP	84.98	TAL	169.37	TAP	10.86	RCA 107.93	APO 149.74	V2 35.023
RC	88.623	GL	-40.47	GP	64.30	ZAL	68.26	ZAP	97.67	ETS	10.39	ZAE	118.23	ETE	113.93	ZAC 53.53	ETC 230.35	CLP-107.92

PLANETOCENTRIC CONIC

C3 15.701 VHL 3.962 DLA -52.72 RAL 340.36 RAD 6567.6 VEL 11.708 PTH 2.06 VHP 5.669 DPA 40.34 RAP 286.78 ECC 1.2584

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
43.48	10 13 21	1620.75	36.85	33.68	215.56	130.80	10 40 22	1020.7	41.81	25.97
136.52	18 58 18	5339.59	36.86	246.56	215.57	130.79	20 27 17	4739.6	41.82	238.85
43.48	10 13 21	1620.75	36.85	33.68	215.56	130.80	10 40 22	1020.7	41.81	25.97
136.52	18 58 18	5339.59	36.86	246.56	215.57	130.79	20 27 17	4739.6	41.82	238.85
43.48	10 13 21	1620.75	36.85	33.68	215.56	130.80	10 40 22	1020.7	41.81	25.97
136.52	18 58 18	5339.59	36.86	246.56	215.57	130.79	20 27 17	4739.6	41.82	238.85

DIFFERENTIAL CORRECTIONS

TDE	-.3443	TRA	.8407	TC3	-1.5028	BAU	.5264
RDE	.0379	RRA	-1.5595	RC3	2.0077	FAU	.05315
FDE	.1170	FRA	2.0189	FC3	-2.9309	BSP	14672
BDE	.3464	BRA	1.7716	BC3	2.5079	FSP	-1511

MID-COURSE EXECUTION ACCURACY

SGT	2386.3	SGR	4048.7	SG3	462.5		
RRT	-.9723	RRF	-.9980	RTF	.9673		
SGB	4699.6	R23	.0728	R13	-.9954		
SG1	4674.7	SG2	483.4	THA	120.17		

ORBIT DETERMINATION ACCURACY

ST	782.1	SR	1119.1	SS	713.8
CRT	-.8013	CRS	.9863	CST	-.6920
LSA	1471.1	MSA	458.0	SSA	5.0
EL1	1305.1	EL2	401.2	ALF	122.72

LAUNCH DATE OCT 13 1965 FLIGHT TIME 166.00 ARRIVAL DATE MAR 28 1966

HELIOCENTRIC CONIC DISTANCE 457.162

RL 149.24 LAL .00 LOL 19.45 VL 27.352 GAL 2.13 AZL 94.36 HCA 204.66 SMA 128.80 ECC .16290 INC 4.3576 V1 29.856
RP 108.24 LAP 1.82 LOP 224.05 VP 37.706 GAP 1.90 AZP 86.04 TAL 168.95 TAP 13.61 RCA 107.82 APO 149.78 V2 35.010
RC 90.946 GL -34.65 GP 59.76 ZAL 65.58 ZAP 101.23 ETS 14.69 ZAE 121.01 ETE 119.69 ZAC 49.34 ETC 230.90 CLP-112.74

PLANETOCENTRIC CONIC

C3 13.342 VHL 3.653 DLA -47.19 RAL 337.25 RAD 6567.5 VEL 11.607 PTH 2.03 VHP 5.187 DPA 35.74 RAP 286.60 ECC 1.2196

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
50.52	10 23 45	1530.53	34.97	22.75	206.86	123.98	10 49 16	930.5	39.14	14.61
129.48	18 23 4	5357.64	34.98	246.61	206.87	123.97	19 52 22	4757.6	39.16	238.47
50.52	10 23 45	1530.53	34.97	22.75	206.86	123.98	10 49 16	930.5	39.14	14.61
129.48	18 23 4	5357.64	34.98	246.61	206.87	123.97	19 52 22	4757.6	39.16	238.47
50.52	10 23 45	1530.53	34.97	22.75	206.86	123.98	10 49 16	930.5	39.14	14.61
129.48	18 23 4	5357.64	34.98	246.61	206.87	123.97	19 52 22	4757.6	39.16	238.47

DIFFERENTIAL CORRECTIONS

TDE -.2728 TRA .9979 TC3-2.0923 BAU .5491
RDE .0102 RRA-1.4744 RC3 2.2579 FAU .06265
FDE .2002 FRA 2.3770 FC3-4.0653 BSP 14724
BDE .2730 BRA 1.7804 BC3 3.0783 FSP -1777

MID-COURSE EXECUTION ACCURACY

SGT 2797.4 SGR 3782.2 SG3 539.7
RRT -.9799 RRF -.9975 RTF .9753
SGB 4704.3 R23 .0813 R13 -.9943
SG1 4682.7 SG2 450.4 THA 126.32

ORBIT DETERMINATION ACCURACY

ST 814.1 SR 1022.4 SS 752.1
CRT -.8587 CRS .9793 CST -.7372
LSA 1446.8 MSA 424.5 SSA 6.0
ELI 1262.5 EL2 337.9 ALF 127.51

LAUNCH DATE OCT 13 1965 FLIGHT TIME 168.00 ARRIVAL DATE MAR 30 1966

HELIOCENTRIC CONIC DISTANCE 463.388

RL 149.24 LAL .00 LOL 19.45 VL 27.344 GAL 2.23 AZL 93.54 HCA 207.84 SMA 128.75 ECC .16373 INC 3.5428 V1 29.856
RP 108.29 LAP 1.65 LOP 227.24 VP 37.689 GAP 2.28 AZP 86.87 TAL 168.48 TAP 16.32 RCA 107.67 APO 149.83 V2 34.996
RC 93.279 GL -29.26 GP 55.44 ZAL 63.19 ZAP 105.05 ETS 18.22 ZAE 123.23 ETE 125.21 ZAC 45.37 ETC 230.76 CLP-117.24

PLANETOCENTRIC CONIC

C3 11.936 VHL 3.455 DLA -41.97 RAL 335.03 RAD 6567.5 VEL 11.547 PTH 2.02 VHP 4.858 DPA 31.37 RAP 286.36 ECC 1.1964

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
57.62	10 42 17	1434.83	32.28	12.06	200.42	118.43	11 6 12	834.8	35.79	3.80
122.38	17 46 51	5405.73	32.29	249.04	200.42	118.42	19 16 57	4805.7	35.80	240.78
57.62	10 42 17	1434.83	32.28	12.06	200.42	118.43	11 6 12	834.8	35.79	3.80
122.38	17 46 51	5405.73	32.29	249.04	200.42	118.42	19 16 57	4805.7	35.80	240.78
57.62	10 42 17	1434.83	32.28	12.06	200.42	118.43	11 6 12	834.8	35.79	3.80
122.38	17 46 51	5405.73	32.29	249.04	200.42	118.42	19 16 57	4805.7	35.80	240.78

DIFFERENTIAL CORRECTIONS

TDE -.1840 TRA 1.1505 TC3-2.6677 BAU .5684
RDE -.0361 RRA-1.3891 RC3 2.3601 FAU .07039
FDE .3483 FRA 2.7066 FC3-5.1055 BSP 14776
BDE .1875 BRA 1.8037 BC3 3.5618 FSP -2005

MID-COURSE EXECUTION ACCURACY

SGT 3174.4 SGR 3502.1 SG3 606.2
RRT -.9841 RRF -.9969 RTF .9797
SGB 4726.7 R23 .0875 R13 -.9931
SG1 4708.0 SG2 420.0 THA 132.15

ORBIT DETERMINATION ACCURACY

ST 830.0 SR 932.8 SS 799.2
CRT -.9043 CRS .9704 CST -.7745
LSA 1429.0 MSA 394.4 SSA 7.3
ELI 1218.8 EL2 271.2 ALF 131.31

LAUNCH DATE OCT 13 1965 FLIGHT TIME 170.00 ARRIVAL DATE APR 1 1966

HELIOCENTRIC CONIC DISTANCE 469.596

RL 149.24 LAL .00 LOL 19.45 VL 27.336 GAL 2.34 AZL 92.88 HCA 211.02 SMA 128.69 ECC .16473 INC 2.8838 V1 29.856
RP 108.33 LAP 1.49 LOP 230.44 VP 37.670 GAP 2.66 AZP 87.53 TAL 167.97 TAP 18.99 RCA 107.49 APO 149.89 V2 34.983
RC 95.621 GL -24.35 GP 51.35 ZAL 61.07 ZAP 109.01 ETS 21.11 ZAE 124.92 ETE 130.50 ZAC 41.68 ETC 229.94 CLP-121.43

PLANETOCENTRIC CONIC

C3 11.111 VHL 3.333 DLA -37.14 RAL 333.46 RAD 6567.4 VEL 11.511 PTH 2.01 VHP 4.639 DPA 27.23 RAP 286.16 ECC 1.1829

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
64.89	11 10 7	1322.97	29.24	.92	195.79	114.00	11 32 10	723.0	32.22	352.70
115.11	17 6 30	5487.75	29.25	254.19	195.80	113.98	18 37 58	4887.7	32.23	245.97
64.89	11 10 7	1322.97	29.24	.92	195.79	114.00	11 32 10	723.0	32.22	352.70
115.11	17 6 30	5487.75	29.25	254.19	195.80	113.98	18 37 58	4887.7	32.23	245.97
64.89	11 10 7	1322.97	29.24	.92	195.79	114.00	11 32 10	723.0	32.22	352.70
115.11	17 6 30	5487.75	29.25	254.19	195.80	113.98	18 37 58	4887.7	32.23	245.97

DIFFERENTIAL CORRECTIONS

TDE -.0821 TRA 1.2990 TC3-3.1889 BAU .5874
RDE -.0794 RRA-1.3028 RC3 2.3381 FAU .07619
FDE .5306 FRA 2.9890 FC3-5.9370 BSP 14896
BDE .1142 BRA 1.8398 BC3 3.9542 FSP -2189

MID-COURSE EXECUTION ACCURACY

SGT 3519.2 SGR 3215.7 SG3 658.2
RRT -.9865 RRF -.9960 RTF .9824
SGB 4767.1 R23 .0902 R13 -.9919
SG1 4751.1 SG2 390.8 THA 137.62

ORBIT DETERMINATION ACCURACY

ST 854.5 SR 855.1 SS 858.1
CRT -.9471 CRS .9611 CST -.8219
LSA 1437.6 MSA 361.7 SSA 8.7
ELI 1192.7 EL2 196.7 ALF 134.98

LAUNCH DATE OCT 13 1965 FLIGHT TIME 172.00 ARRIVAL DATE APR 3 1966

HELIOCENTRIC CONIC DISTANCE 475.784

RL 149.24 LAL .00 LOL 19.45 VL 27.325 GAL 2.47 AZL 92.34 HCA 214.20 SMA 128.62 ECC .16590 INC 2.3367 V1 29.856
RP 108.37 LAP 1.31 LOP 233.63 VP 37.650 GAP 3.03 AZP 88.07 TAL 167.41 TAP 21.62 RCA 107.28 APO 149.96 V2 34.970
RC 97.969 GL -19.93 GP 47.49 ZAL 59.20 ZAP 113.00 ETS 23.47 ZAE 126.12 ETE 135.50 ZAC 38.31 ETC 228.45 CLP-125.33

PLANETOCENTRIC CONIC

C3 10.664 VHL 3.266 DLA -32.73 RAL 332.38 RAD 6567.4 VEL 11.491 PTH 2.00 VHP 4.501 DPA 23.35 RAP 286.04 ECC 1.1755

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
72.86	11 52 10	1174.35	26.14	347.80	192.58	110.43	12 11 44	574.3	28.68	339.67
107.14	16 15 48	5619.57	26.15	263.14	192.58	110.42	17 49 28	5019.6	28.69	255.00
72.86	11 52 10	1174.35	26.14	347.80	192.58	110.43	12 11 44	574.3	28.68	339.67
107.14	16 15 48	5619.57	26.15	263.14	192.58	110.42	17 49 28	5019.6	28.69	255.00
110.00	15 18 20	5796.79	20.62	274.10	189.88	117.89	16 54 56	5196.8	24.18	266.77
110.00	17 48 49	5333.16	31.95	243.00	194.56	102.85	19 17 42	4733.2	33.39	234.07

DIFFERENTIAL CORRECTIONS

TDE .0291 TRA 1.4439 TC3-3.6319 BAU .6071
RDE -.1128 RRA-1.2179 RC3 2.2242 FAU .07997
FDE .7255 FRA 3.2156 FC3-6.4924 BSP 15098
BDE .1165 BRA 1.8890 BC3 4.2588 FSP -2325

MID-COURSE EXECUTION ACCURACY

SGT 3833.9 SGR 2932.9 SG3 694.3
RRT -.9877 RRF -.9948 RTF .9841
SGB 4827.1 R23 .0888 R13 -.9909
SG1 4813.2 SG2 365.7 THA 142.67

ORBIT DETERMINATION ACCURACY

ST 907.7 SR 788.6 SS 927.3
CRT -.9803 CRS .9525 CST -.8741
LSA 1482.5 MSA 328.0 SSA 10.3
ELI 1196.6 EL2 118.1 ALF 139.10

LAUNCH DATE OCT 13 1965 FLIGHT TIME 174.00 ARRIVAL DATE APR 5 1966

DISTANCE 481.952

HELIOCENTRIC CONIC

RL 149.24 LAL .00 LOL 19.45 VL 27.313 GAL 2.61 AZL 91.87 HCA 217.39 SMA 128.54 ECC .16724 INC 1.8728 VI 29.856
RP 108.41 LAP 1.14 LOP 236.82 VP 37.630 GAP 3.40 AZP 88.51 TAL 166.81 TAP 24.20 RCA 107.04 APO 150.03 V2 34.957
RC 100.323 GL -15.99 GP 43.89 ZAL 57.53 ZAP 116.94 ETS 25.37 ZAE 126.89 ETE 140.13 ZAC 35.31 ETC 226.29 CLP-128.95

PLANETOCENTRIC CONIC

C3 10.480 VHL 3.237 DLA -28.73 RAL 331.66 RAD 6567.4 VEL 11.483 PTH 2.00 VHP 4.427 DPA 19.75 RAP 286.04 ECC 1.1725

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
84.91	13 18 39	886.89	23.13	325.18	190.45	107.53	13 33 26	286.9	25.32	317.16
95.09	14 43 35	611.92	23.14	305.04	190.45	107.52	14 53 47	11.9	25.32	297.02
100.00	14 12 38	711.64	18.50	310.50	188.57	113.91	14 24 30	111.6	21.57	303.06
100.00	16 32 17	5550.45	27.95	258.52	191.80	101.06	18 4 47	4950.4	29.19	249.93
110.00	14 6 24	731.26	13.03	308.98	185.56	121.89	14 18 35	131.3	17.15	302.29
110.00	18 55 1	5103.59	34.09	225.47	192.67	92.71	20 20 4	4503.6	34.09	216.22

DIFFERENTIAL CORRECTIONS

TOE .1493 TRA 1.5889 TC3-3.9770 BAU .6265
RDE -.1369 RRA-1.1381 RC3 2.0450 FAU .08155
FOE .9224 FRA 3.3895 FC3-6.7370 BSP 15294
BOE .2026 BRA 1.9545 BC3 4.4720 FSP -2396

MID-COURSE EXECUTION ACCURACY

SGT 4121.3 SGR 2662.5 SG3 715.1
RRT -.9879 RRF -.9933 RTF .9852
SGB 4906.6 R23 .0839 R13 -.9900
SG1 4894.2 SG2 347.3 THA 147.27

ORBIT DETERMINATION ACCURACY

ST 1000.7 SR 731.6 SS 1004.3
CRT -.9973 CRS .9449 CST -.9195
LSA 1567.5 MSA 296.8 SSA 11.8
EL1 1238.9 EL2 43.5 ALF 143.85

LAUNCH DATE OCT 13 1965 FLIGHT TIME 176.00 ARRIVAL DATE APR 7 1966

DISTANCE 488.099

HELIOCENTRIC CONIC

RL 149.24 LAL .00 LOL 19.45 VL 27.300 GAL 2.76 AZL 91.47 HCA 220.57 SMA 128.45 ECC .16875 INC 1.4720 VI 29.856
RP 108.44 LAP .96 LOP 240.01 VP 37.608 GAP 3.77 AZP 88.88 TAL 166.17 TAP 26.73 RCA 106.77 APO 150.12 V2 34.945
RC 102.682 GL -12.49 GP 40.56 ZAL 56.02 ZAP 120.75 ETS 26.90 ZAE 127.30 ETE 144.36 ZAC 32.73 ETC 223.47 CLP-132.31

PLANETOCENTRIC CONIC

C3 10.489 VHL 3.239 DLA -25.13 RAL 331.23 RAD 6567.4 VEL 11.484 PTH 2.00 VHP 4.402 DPA 16.42 RAP 286.19 ECC 1.1726

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 1 50	1138.10	13.02	339.28	186.34	115.37	12 20 48	538.1	16.34	332.17
90.00	15 56 57	5649.12	27.96	265.75	190.60	94.68	17 31 7	5049.1	28.31	257.11
100.00	12 59 54	950.66	11.35	324.65	185.48	117.84	13 15 44	350.7	14.99	317.75
100.00	17 41 35	5311.79	29.83	241.06	190.73	92.09	19 10 7	4711.8	29.80	232.26
110.00	13 24 14	874.30	7.77	316.72	183.33	123.39	13 38 49	274.3	12.11	310.31
110.00	19 33 44	4960.92	33.99	214.34	190.65	86.13	20 56 25	4360.9	33.08	205.22

DIFFERENTIAL CORRECTIONS

TOE .2726 TRA 1.7310 TC3-4.2347 BAU .6476
RDE -.1485 RRA-1.0620 RC3 1.8417 FAU .08157
FOE 1.0982 FRA 3.5049 FC3-6.7321 BSP 15612
BOE .3105 BRA 2.0309 BC3 4.6178 FSP -2434

MID-COURSE EXECUTION ACCURACY

SGT 4381.6 SGR 2408.1 SG3 721.3
RRT -.9874 RRF -.9911 RTF .9859
SGB 4999.7 R23 .0752 R13 -.9893
SG1 4988.6 SG2 334.3 THA 151.37

ORBIT DETERMINATION ACCURACY

ST 1126.6 SR 676.7 SS 1076.6
CRT -.9988 CRS .9367 CST -.9510
LSA 1677.1 MSA 271.0 SSA 13.1
EL1 1313.9 EL2 28.2 ALF 149.02

LAUNCH DATE OCT 13 1965 FLIGHT TIME 178.00 ARRIVAL DATE APR 9 1966

DISTANCE 494.223

HELIOCENTRIC CONIC

RL 149.24 LAL .00 LOL 19.45 VL 27.285 GAL 2.93 AZL 91.12 HCA 223.75 SMA 128.35 ECC .17044 INC 1.1204 VI 29.856
RP 108.48 LAP .77 LOP 243.19 VP 37.586 GAP 4.14 AZP 89.19 TAL 165.48 TAP 29.23 RCA 106.47 APO 150.22 V2 34.932
RC 105.043 GL -9.40 GP 37.51 ZAL 54.64 ZAP 124.41 ETS 28.15 ZAE 127.41 ETE 148.15 ZAC 30.59 ETC 220.02 CLP-135.42

PLANETOCENTRIC CONIC

C3 10.650 VHL 3.263 DLA -21.89 RAL 331.03 RAD 6567.4 VEL 11.491 PTH 2.00 VHP 4.417 DPA 13.37 RAP 286.49 ECC 1.1753

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 11 57	1313.52	7.71	349.42	184.71	117.33	11 33 51	713.5	11.31	342.60
90.00	16 45 14	5479.86	28.28	253.40	189.64	88.50	18 16 34	4879.9	27.77	244.77
100.00	12 17 50	1100.89	6.46	333.11	184.03	119.25	12 36 11	500.9	10.31	326.44
100.00	18 22 2	5167.73	29.70	230.36	189.56	86.46	19 48 10	4567.7	28.89	221.65
110.00	12 53 52	987.93	3.47	322.71	182.18	124.03	13 10 20	387.9	7.91	316.44
110.00	20 2 29	4853.45	33.19	206.05	189.13	81.30	21 23 23	4253.5	31.63	197.17

DIFFERENTIAL CORRECTIONS

TOE .3996 TRA 1.8738 TC3-4.4068 BAU .6690
RDE -.1514 RRA -.9925 RC3 1.6309 FAU .08015
FOE 1.2521 FRA 3.5740 FC3-6.5153 BSP 15972
BOE .4273 BRA 2.1204 BC3 4.6989 FSP -2431

MID-COURSE EXECUTION ACCURACY

SGT 4619.0 SGR 2174.9 SG3 715.9
RRT -.9861 RRF -.9884 RTF .9864
SGB 5105.4 R23 .0648 R13 -.9888
SG1 5094.9 SG2 327.8 THA 154.98

ORBIT DETERMINATION ACCURACY

ST 1277.1 SR 623.8 SS 1142.7
CRT -.9898 CRS .9271 CST -.9705
LSA 1806.1 MSA 252.0 SSA 14.1
EL1 1419.0 EL2 79.9 ALF 154.11

LAUNCH DATE OCT 13 1965 FLIGHT TIME 180.00 ARRIVAL DATE APR 11 1966

DISTANCE 500.325

HELIOCENTRIC CONIC

RL 149.24 LAL .00 LOL 19.45 VL 27.269 GAL 3.11 AZL 90.81 HCA 226.93 SMA 128.24 ECC .17231 INC .8074 VI 29.856
RP 108.52 LAP .59 LOP 246.38 VP 37.563 GAP 4.51 AZP 89.45 TAL 164.76 TAP 31.69 RCA 106.14 APO 150.34 V2 34.920
RC 107.406 GL -6.66 GP 34.72 ZAL 53.36 ZAP 127.87 ETS 29.17 ZAE 127.29 ETE 151.51 ZAC 28.92 ETC 216.05 CLP-138.32

PLANETOCENTRIC CONIC

C3 10.935 VHL 3.307 DLA -18.98 RAL 331.01 RAD 6567.4 VEL 11.503 PTH 2.00 VHP 4.465 DPA 10.61 RAP 286.95 ECC 1.1800

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 37 44	1444.24	3.56	356.79	184.04	118.11	11 1 48	844.2	7.29	350.10
90.00	17 19 19	5359.93	27.76	244.66	188.95	84.15	18 48 38	4759.9	26.66	236.17
100.00	11 47 26	1219.30	2.48	339.65	183.44	119.80	12 7 46	619.3	6.43	333.09
100.00	18 52 17	5060.11	28.99	222.44	188.78	82.36	20 16 37	4460.1	27.63	213.91
110.00	12 30 27	1084.50	-.22	327.75	181.76	124.18	12 48 32	484.5	4.27	321.54
110.00	20 25 46	4767.67	32.12	199.59	188.14	77.61	21 45 13	4167.7	30.08	190.97

DIFFERENTIAL CORRECTIONS

TOE .5288 TRA 2.0174 TC3-4.5022 BAU .6905
RDE -.1470 RRA -.9293 RC3 1.4276 FAU .07764
FOE 1.3795 FRA 3.6026 FC3-6.1468 BSP 16360
BOE .5489 BRA 2.2211 BC3 4.7232 FSP -2395

MID-COURSE EXECUTION ACCURACY

SGT 4834.2 SGR 1963.6 SG3 700.9
RRT -.9838 RRF -.9848 RTF .9867
SGB 5217.7 R23 .0536 R13 -.9883
SG1 5207.5 SG2 326.5 THA 158.13

ORBIT DETERMINATION ACCURACY

ST 1441.2 SR 571.5 SS 1138.4
CRT -.9741 CRS .9147 CST -.9821
LSA 1944.9 MSA 239.1 SSA 14.7
EL1 1545.7 EL2 120.4 ALF 158.74

LAUNCH DATE OCT 13 1965 FLIGHT TIME 182.00 ARRIVAL DATE APR 13 1966

HELIOCENTRIC CONIC DISTANCE 506.405

RL	149.24	LAL	.00	LOL	19.45	VL	27.252	GAL	3.30	AZL	90.53	HCA	230.11	SMA	128.13	ECC	.17436	INC	.5256	V1	29.856
RP	108.56	LAP	.40	LOP	249.55	VP	37.540	GAP	4.88	AZP	89.66	TAL	164.00	TAP	34.10	RCA	105.79	APO	150.47	V2	34.909
RC	109.770	GL	-4.25	GP	32.19	ZAL	52.15	ZAP	131.13	ETS	30.02	ZAE	127.02	ETE	154.45	ZAC	27.72	ETC	211.69	CLP	-141.01

PLANETOCENTRIC CONIC

C3	11.329	VHL	3.366	DLA	-16.36	RAL	331.14	RAD	6567.4	VEL	11.520	PTH	2.01	VHP	4.540	DPA	8.13	RAP	287.57	ECC	1.1864

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 11 43	1552.32	.08	2.82	184.01	118.32	10 37 35	952.3	3.86	356.19
90.00	17 46 24	5266.44	26.93	237.95	188.63	80.89	19 14 10	4666.4	25.39	229.62
100.00	11 23 52	1319.50	-.92	345.15	183.45	119.88	11 45 52	719.5	3.06	338.63
100.00	19 16 56	4974.50	28.05	216.25	188.41	79.23	20 39 50	4374.5	26.28	207.90
110.00	12 11 47	1169.43	-3.46	332.18	181.86	124.03	12 31 16	569.4	1.03	325.98
110.00	20 45 31	4697.34	30.97	194.43	187.63	74.76	22 3 48	4097.3	28.57	186.05

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY				ORBIT DETERMINATION ACCURACY			
TDE	.6626	TRA	2.1660	TC3	-4.5219	BAU	.7099	SGT	5030.3	SGR	1775.3	SG3	679.4	ST	1615.3	SR	522.5	SS	1247.5
RDE	-.1388	RRA	-.8745	RC3	1.2332	FAU	.07396	RRT	-.9803	RRF	-.9802	RTF	.9866	CRT	-.9540	CRS	.8995	CST	-.9889
FDE	1.4881	FRA	3.6069	FC3	-5.6517	BSP	16696	SGB	5334.4	R23	.0445	R13	-.9878	LSA	2094.1	MSA	230.9	SSA	15.1
BDE	.6769	BRA	2.3359	BC3	4.6871	FSP	-2323	SG1	5324.1	SG2	330.9	THA	160.84	EL1	1691.1	EL2	149.6	ALF	162.71

LAUNCH DATE OCT 13 1965 FLIGHT TIME 184.00 ARRIVAL DATE APR 15 1966

HELIOCENTRIC CONIC DISTANCE 512.460

RL	149.24	LAL	.00	LOL	19.45	VL	27.234	GAL	3.52	AZL	90.27	HCA	233.28	SMA	128.00	ECC	.17660	INC	.2688	V1	29.856
RP	108.59	LAP	.22	LOP	252.73	VP	37.516	GAP	5.25	AZP	89.84	TAL	163.20	TAP	36.48	RCA	105.40	APO	150.61	V2	34.897
RC	112.133	GL	-2.13	GP	29.90	ZAL	51.00	ZAP	134.19	ETS	30.76	ZAE	126.63	ETE	157.01	ZAC	26.97	ETC	207.11	CLP	-143.52

PLANETOCENTRIC CONIC

C3	11.823	VHL	3.438	DLA	-14.00	RAL	331.40	RAD	6567.5	VEL	11.542	PTH	2.01	VHP	4.638	DPA	5.89	RAP	288.35	ECC	1.1946

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 51 0	1645.33	-2.94	8.05	184.43	118.18	10 18 26	1045.9	.85	1.42
90.00	18 9 11	5190.63	26.00	232.60	188.67	78.36	19 35 41	4590.6	24.13	224.42
100.00	11 4 56	1407.39	-3.89	349.98	183.90	119.66	11 28 23	807.4	.09	343.45
100.00	19 37 56	4904.39	27.06	211.28	188.41	76.79	20 59 40	4304.4	24.97	203.10
110.00	11 56 33	1245.69	-6.36	336.19	182.37	123.66	12 17 19	645.7	-1.89	329.95
110.00	21 2 48	4638.86	29.85	190.24	187.54	72.51	22 20 7	4038.9	27.17	182.08

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY				ORBIT DETERMINATION ACCURACY			
TDE	.7945	TRA	2.3149	TC3	-4.4960	BAU	.7303	SGT	5207.3	SGR	1607.7	SG3	652.7	ST	1784.3	SR	473.7	SS	1281.0
RDE	-.1249	RRA	-.8247	RC3	1.0641	FAU	.07005	RRT	-.9757	RRF	-.9744	RTF	.9865	CRT	-.9281	CRS	.8780	CST	-.9929
FDE	1.5653	FRA	3.5816	FC3	-5.1292	BSP	17105	SGB	5449.9	R23	.0356	R13	-.9874	LSA	2235.6	MSA	226.2	SSA	15.3
BDE	.8043	BRA	2.4574	BC3	4.6202	FSP	-2245	SG1	5439.4	SG2	337.1	THA	163.17	EL1	1838.1	EL2	171.2	ALF	166.04

LAUNCH DATE OCT 13 1965 FLIGHT TIME 186.00 ARRIVAL DATE APR 17 1966

HELIOCENTRIC CONIC DISTANCE 518.491

RL	149.24	LAL	.00	LOL	19.45	VL	27.215	GAL	3.74	AZL	90.03	HCA	236.46	SMA	127.88	ECC	.17904	INC	.0313	V1	29.856
RP	108.63	LAP	.03	LOP	255.91	VP	37.492	GAP	5.63	AZP	89.98	TAL	162.37	TAP	38.83	RCA	104.98	APO	150.77	V2	34.886
RC	114.493	GL	-.26	GP	27.84	ZAL	49.89	ZAP	137.04	ETS	31.42	ZAE	126.17	ETE	159.22	ZAC	26.65	ETC	202.51	CLP	-145.86

PLANETOCENTRIC CONIC

C3	12.412	VHL	3.523	DLA	-11.87	RAL	331.77	RAD	6567.5	VEL	11.567	PTH	2.02	VHP	4.756	DPA	3.91	RAP	289.26	ECC	1.2043

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 34 4	1729.21	-5.60	12.72	185.20	117.80	10 2 53	1129.2	-1.84	6.06
90.00	18 29 0	5127.89	25.06	228.24	189.02	76.37	19 54 28	4527.9	22.94	220.21
100.00	10 49 23	1486.24	-6.53	354.35	184.69	119.23	11 14 9	886.2	-2.59	347.78
100.00	19 56 23	4846.10	26.09	207.22	188.73	74.86	21 17 9	4246.1	23.76	199.20
110.00	11 43 59	1315.21	-8.96	339.89	183.21	123.13	12 5 55	715.2	-4.54	333.59
110.00	21 18 15	4589.89	28.80	186.82	187.79	70.74	22 34 45	3989.9	25.90	178.84

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY				ORBIT DETERMINATION ACCURACY			
TDE	.9278	TRA	2.4676	TC3	-4.4264	BAU	.7501	SGT	5368.5	SGR	1460.2	SG3	623.2	ST	1949.1	SR	428.0	SS	1304.8
RDE	-.1086	RRA	-.7810	RC3	.9158	FAU	.06585	RRT	-.9697	RRF	-.9673	RTF	.9863	CRT	-.8958	CRS	.8497	CST	-.9954
FDE	1.6223	FRA	3.5396	FC3	-4.5927	BSP	17522	SGB	5563.5	R23	.0283	R13	-.9869	LSA	2373.7	MSA	223.8	SSA	15.3
BDE	.9342	BRA	2.5883	BC3	4.5202	FSP	-2157	SG1	5552.8	SG2	344.9	THA	165.17	EL1	1986.8	EL2	186.6	ALF	168.77

LAUNCH DATE OCT 13 1965 FLIGHT TIME 188.00 ARRIVAL DATE APR 19 1966

HELIOCENTRIC CONIC DISTANCE 524.496

RL	149.24	LAL	.00	LOL	19.45	VL	27.196	GAL	3.98	AZL	89.81	HCA	239.63	SMA	127.75	ECC	.18169	INC	.1856	V1	29.856
RP	108.66	LAP	-.16	LOP	259.08	VP	37.468	GAP	6.00	AZP	90.09	TAL	161.51	TAP	41.14	RCA	104.54	APO	150.96	V2	34.875
RC	116.852	GL	1.40	GP	25.99	ZAL	48.81	ZAP	139.71	ETS	32.04	ZAE	125.67	ETE	161.13	ZAC	26.72	ETC	198.07	CLP	-148.05

PLANETOCENTRIC CONIC

C3	13.096	VHL	3.619	DLA	-9.94	RAL	332.22	RAD	6567.5	VEL	11.597	PTH	2.03	VHP	4.891	DPA	2.14	RAP	290.31	ECC	1.2155

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 20 0	1804.68	-7.98	16.99	186.26	117.26	9 50 5	1204.7	-4.26	10.28
90.00	18 46 40	5075.43	24.17	224.65	189.64	74.78	20 11 15	4475.4	21.85	216.75
100.00	10 36 26	1558.08	-8.90	358.37	185.77	118.65	11 2 24	958.1	-5.01	351.74
100.00	20 12 55	4797.26	25.18	203.88	189.33	73.33	21 32 52	4197.3	22.65	195.99
110.00	11 33 32	1379.30	-11.33	343.35	184.32	122.47	11 56 31	779.3	-6.96	336.97
110.00	21 32 18	4548.81	27.84	184.01	188.32	69.32	22 48 7	3948.8	24.77	176.18

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY				ORBIT DETERMINATION ACCURACY			
TDE	1.0631	TRA	2.6263	TC3	-4.3175	BAU	.7684	SGT	5515.2	SGR	1331.0	SG3	592.3	ST	2108.4	SR	386.5	SS	1320.7
RDE	-.0906	RRA	-.7434	RC3	.7858	FAU	.06140	RRT	-.9621	RRF	-.9587	RTF	.9860	CRT	-.8554	CRS	.8131	CST	-.9969
FDE	1.6629	FRA	3.4885	FC3	-4.0589	BSP	17909	SGB	5673.6	R23	.0226	R13	-.9864	LSA	2507.8	MSA	222.8	SSA	15.2
BDE	1.0669	BRA	2.7295	BC3	4.3884	FSP	-2059	SG1	5662.5	SG2	353.7	THA	166.88	EL1	2134.4	EL2	197.8	ALF	171.01

LAUNCH DATE OCT 13 1965 FLIGHT TIME 190.00 ARRIVAL DATE APR 21 1966

DISTANCE 530.475

HELIOCENTRIC CONIC

RL 149.24 LAL .00 LOL 19.45 VL 27.175 GAL 4.24 AZL 89.61 HCA 242.80 SMA 127.61 ECC .18455 INC .3912 VI 29.856
RP 108.69 LAP -.35 LOP 262.25 VP 37.444 GAP 6.38 AZP 90.18 TAL 160.61 TAP 43.42 RCA 104.06 APO 151.16 V2 34.865
RC 119.206 GL 2.85 GP 24.32 ZAL 47.76 ZAP 142.20 ETS 32.65 ZAE 125.16 ETE 162.77 ZAC 27.13 ETC 193.92 CLP-150.12

PLANETOCENTRIC CONIC

C3 13.878 VHL 3.725 DLA -8.19 RAL 332.74 RAD 6567.5 VEL 11.630 PTH 2.04 VHP 5.041 DPA .58 RAP 291.49 ECC 1.2284

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 8 11	1873.97	-10.11	20.96	187.56	116.59	9 39 25	1274.0	-6.46	14.18
90.00	19 2 38	5031.36	23.35	221.68	190.50	73.51	20 26 30	4431.4	20.87	213.89
100.00	10 25 34	1624.33	-11.04	2.12	187.08	117.96	10 52 39	1024.3	-7.22	355.42
100.00	20 27 57	4756.23	24.35	201.11	190.16	72.10	21 47 13	4156.2	21.67	193.34
110.00	11 24 47	1438.93	-13.48	346.62	185.64	121.71	11 48 46	838.9	-9.19	340.15
110.00	21 45 13	4514.40	26.99	181.69	189.10	68.19	23 0 28	3914.4	23.79	173.99

DIFFERENTIAL CORRECTIONS

TDE 1.1991 TRA 2.7900 TC3-4.1804 BAU .7856
RDE -.0712 RRA -.7104 RC3 .6742 FAU .05695
FDE 1.6878 FRA 3.4290 FC3-3.5528 BSP 18294
BDE 1.2012 BRA 2.8790 BC3 4.2344 FSP -1960

MID-COURSE EXECUTION ACCURACY

SGT 5647.7 SGR 1217.8 SG3 560.8
RRT -.9527 RRF -.9483 RTF .9856
SGB 5777.5 R23 .0179 R13 -.9859
SG1 5766.1 SG2 362.4 THA 168.34

ORBIT DETERMINATION ACCURACY

ST 2258.6 SR 349.2 SS 1328.3
CRT -.8042 CRS .7654 CST -.9979
LSA 2633.9 MSA 222.7 SSA 15.1
EL1 2276.1 EL2 205.9 ALF 172.85

LAUNCH DATE OCT 13 1965 FLIGHT TIME 192.00 ARRIVAL DATE APR 23 1966

DISTANCE 536.426

HELIOCENTRIC CONIC

RL 149.24 LAL .00 LOL 19.45 VL 27.154 GAL 4.52 AZL 89.41 HCA 245.97 SMA 127.47 ECC .18765 INC .5851 VI 29.856
RP 108.72 LAP -.53 LOP 265.42 VP 37.419 GAP 6.77 AZP 90.24 TAL 159.69 TAP 45.67 RCA 103.55 APO 151.39 V2 34.856
RC 121.557 GL 4.13 GP 22.81 ZAL 46.73 ZAP 144.52 ETS 33.27 ZAE 124.65 ETE 164.18 ZAC 27.83 ETC 190.15 CLP-152.06

PLANETOCENTRIC CONIC

C3 14.760 VHL 3.842 DLA -6.60 RAL 333.32 RAD 6567.6 VEL 11.668 PTH 2.05 VHP 5.206 DPA -.78 RAP 292.78 ECC 1.2429

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 58 12	1938.26	-12.05	24.69	189.06	115.82	9 30 31	1338.3	-8.48	17.83
90.00	19 17 17	4994.34	22.61	219.22	191.55	72.49	20 40 32	4394.3	20.01	211.52
100.00	10 16 24	1686.00	-12.98	5.67	188.58	117.16	10 44 30	1086.0	-9.24	358.88
100.00	20 41 46	4721.83	23.61	198.82	191.20	71.11	22 0 28	4121.8	20.81	191.14
110.00	11 17 27	1494.85	-15.46	349.74	187.17	120.87	11 42 22	894.8	-11.25	343.17
110.00	21 57 13	4485.75	26.26	179.79	190.09	67.28	23 11 58	3885.7	22.95	172.20

DIFFERENTIAL CORRECTIONS

TDE 1.3393 TRA 2.9631 TC3-4.0139 BAU .8002
RDE -.0518 RRA -.6827 RC3 .5767 FAU .05237
FDE 1.7047 FRA 3.3703 FC3-3.0719 BSP 18597
BDE 1.3403 BRA 3.0408 BC3 4.0551 FSP -1852

MID-COURSE EXECUTION ACCURACY

SGT 5769.8 SGR 1119.3 SG3 530.1
RRT -.9415 RRF -.9362 RTF .9850
SGB 5877.4 R23 .0146 R13 -.9852
SG1 5865.7 SG2 371.0 THA 169.61

ORBIT DETERMINATION ACCURACY

ST 2403.9 SR 317.3 SS 1332.2
CRT -.7418 CRS .7066 CST -.9986
LSA 2757.6 MSA 223.0 SSA 15.0
EL1 2415.5 EL2 211.8 ALF 174.36

LAUNCH DATE OCT 13 1965 FLIGHT TIME 194.00 ARRIVAL DATE APR 25 1966

DISTANCE 542.348

HELIOCENTRIC CONIC

RL 149.24 LAL .00 LOL 19.45 VL 27.132 GAL 4.81 AZL 89.23 HCA 249.14 SMA 127.32 ECC .19099 INC .7694 VI 29.856
RP 108.75 LAP -.72 LOP 268.59 VP 37.395 GAP 7.16 AZP 90.27 TAL 158.75 TAP 47.89 RCA 103.01 APO 151.64 V2 34.846
RC 123.903 GL 5.25 GP 21.46 ZAL 45.71 ZAP 146.69 ETS 33.93 ZAE 124.14 ETE 165.40 ZAC 28.78 ETC 186.81 CLP-153.89

PLANETOCENTRIC CONIC

C3 15.751 VHL 3.969 DLA -5.16 RAL 333.96 RAD 6567.6 VEL 11.710 PTH 2.06 VHP 5.384 DPA -1.98 RAP 294.17 ECC 1.2592

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 49 44	1998.42	-13.81	28.24	190.73	114.97	9 23 2	1398.4	-10.33	21.29
90.00	19 30 50	4963.37	21.97	217.18	192.78	71.67	20 53 33	4363.4	19.26	209.56
100.00	10 8 38	1743.86	-14.76	9.05	190.26	116.29	10 37 42	1143.9	-11.10	2.16
100.00	20 54 36	4693.16	22.96	196.94	192.40	70.32	22 12 49	4093.2	20.07	189.34
110.00	11 11 19	1547.64	-17.28	352.75	188.86	119.96	11 37 6	947.6	-13.17	346.06
110.00	22 8 25	4462.14	25.63	178.25	191.25	66.56	23 22 47	3862.1	22.23	170.73

DIFFERENTIAL CORRECTIONS

TDE 1.4785 TRA 3.1406 TC3-3.8387 BAU .8151
RDE -.0312 RRA -.6581 RC3 .4953 FAU .04813
FDE 1.7087 FRA 3.3064 FC3-2.6455 BSP 18949
BDE 1.4788 BRA 3.2088 BC3 3.8705 FSP -1754

MID-COURSE EXECUTION ACCURACY

SGT 5879.2 SGR 1032.8 SG3 499.8
RRT -.9284 RRF -.9221 RTF .9845
SGB 5969.2 R23 .0116 R13 -.9846
SG1 5957.2 SG2 378.8 THA 170.70

ORBIT DETERMINATION ACCURACY

ST 2535.6 SR 290.0 SS 1328.6
CRT -.6640 CRS .6321 CST -.9990
LSA 2868.5 MSA 223.6 SSA 14.9
EL1 2543.0 EL2 216.2 ALF 175.63

LAUNCH DATE OCT 13 1965 FLIGHT TIME 196.00 ARRIVAL DATE APR 27 1966

DISTANCE 548.239

HELIOCENTRIC CONIC

RL 149.24 LAL .00 LOL 19.45 VL 27.110 GAL 5.13 AZL 89.05 HCA 252.31 SMA 127.17 ECC .19460 INC .9461 VI 29.856
RP 108.78 LAP -.90 LOP 271.76 VP 37.371 GAP 7.56 AZP 90.29 TAL 157.78 TAP 50.09 RCA 102.43 APO 151.92 V2 34.838
RC 126.245 GL 6.23 GP 20.25 ZAL 44.71 ZAP 148.72 ETS 34.64 ZAE 123.66 ETE 166.46 ZAC 29.93 ETC 183.90 CLP-155.63

PLANETOCENTRIC CONIC

C3 16.859 VHL 4.106 DLA -3.84 RAL 334.63 RAD 6567.7 VEL 11.758 PTH 2.08 VHP 5.576 DPA -3.01 RAP 295.65 ECC 1.2775

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 42 31	2055.13	-15.41	31.63	192.55	114.06	9 16 46	1455.1	-12.03	24.58
90.00	19 43 26	4937.69	21.41	215.51	194.15	71.01	21 5 44	4337.7	18.62	207.94
100.00	10 2 3	1798.53	-16.38	12.30	192.09	115.36	10 32 2	1198.5	-12.83	5.31
100.00	21 6 34	4669.52	22.41	195.40	193.77	69.68	22 24 24	4069.5	19.44	187.86
110.00	11 6 11	1597.79	-18.96	355.67	190.70	118.99	11 32 48	997.8	-14.95	348.85
110.00	22 18 56	4443.02	25.10	177.01	192.57	66.00	23 33 0	3843.0	21.64	169.56

DIFFERENTIAL CORRECTIONS

TDE 1.6198 TRA 3.3263 TC3-3.6506 BAU .8284
RDE -.0104 RRA -.6369 RC3 .4256 FAU .04403
FDE 1.7053 FRA 3.2431 FC3-2.2611 BSP 19285
BDE 1.6198 BRA 3.3867 BC3 3.6753 FSP -1659

MID-COURSE EXECUTION ACCURACY

SGT 5978.0 SGR 956.9 SG3 470.7
RRT -.9132 RRF -.9060 RTF .9839
SGB 6054.1 R23 .0092 R13 -.9840
SG1 6041.8 SG2 385.9 THA 171.65

ORBIT DETERMINATION ACCURACY

ST 2657.9 SR 267.8 SS 1320.8
CRT -.5712 CRS .5429 CST -.9993
LSA 2971.6 MSA 224.2 SSA 14.7
EL1 2662.4 EL2 219.5 ALF 176.68

LAUNCH DATE OCT 13 1965 FLIGHT TIME 198.00 ARRIVAL DATE APR 29 1966

HELIOCENTRIC CONIC DISTANCE 554,097

RL 149.24 LAL .00 LOL 19.45 VL 27.087 GAL 5.46 AZL 88.88 HCA 255.47 SMA 127.02 ECC .19848 INC 1.1166 V1 29.856
RP 108.80 LAP -1.08 LOP 274.92 VP 37.347 GAP 7.97 AZP 90.28 TAL 156.79 TAP 52.26 RCA 101.81 APO 152.23 V2 34.830
RC 128.581 GL 7.10 GP 19.15 ZAL 43.73 ZAP 150.63 ETS 35.42 ZAE 123.20 ETE 167.37 ZAC 31.25 ETC 181.39 CLP-157.29

PLANETOCENTRIC CONIC

C3 18.096 VHL 4.254 DLA -2.64 RAL 335.34 RAD 6567.7 VEL 11.810 PTH 2.09 VHP 5.780 DPA -3.90 RAP 297.22 ECC 1.2978

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 36 23	2108.91	-16.87	34.90	194.51	113.08	9 11 32	1508.9	-13.60	27.75
90.00	19 55 14	4916.71	20.93	214.15	195.67	70.49	21 17 11	4316.7	18.08	206.63
100.00	9 56 29	1850.49	-17.87	15.44	194.05	114.37	10 27 20	1250.5	-14.43	8.34
100.00	21 17 48	4650.36	21.95	194.16	195.26	69.19	22 35 19	4050.4	18.93	186.67
110.00	11 1 55	1645.70	-20.52	358.52	192.67	117.96	11 29 20	1045.7	-16.62	351.56
110.00	22 28 52	4427.92	24.68	176.04	194.03	65.56	23 42 40	3827.9	21.17	168.64

DIFFERENTIAL CORRECTIONS
TOE 1.7637 TRA 3.5209 TC3-3.4540 BAU .8403
RDE .0105 RRA -.6185 RC3 .3659 FAU .04012
FDE 1.6973 FRA 3.1818 FC3-1.9194 BSP 19596
BDE 1.7637 BRA 3.5748 BC3 3.4733 FSP -1566

MID-COURSE EXECUTION ACCURACY
SGT 6067.5 SGR 890.2 SG3 443.1
RRT -.8960 RRF -.8879 RTF .9833
SGB 6132.5 R23 .0071 R13 -.9834
SG1 6120.0 SG2 391.9 THA 172.48

ORBIT DETERMINATION ACCURACY
ST 2771.1 SR 250.7 SS 1310.3
CRT -.4654 CRS .4408 CST -.9995
LSA 3067.3 MSA 224.8 SSA 14.5
EL1 2773.6 EL2 221.7 ALF 177.57

LAUNCH DATE OCT 13 1965 FLIGHT TIME 200.00 ARRIVAL DATE MAY 1 1966

HELIOCENTRIC CONIC DISTANCE 559,920

RL 149.24 LAL .00 LOL 19.45 VL 27.063 GAL 5.82 AZL 88.72 HCA 258.64 SMA 126.87 ECC .20268 INC 1.2821 V1 29.856
RP 108.82 LAP -1.26 LOP 278.09 VP 37.323 GAP 8.39 AZP 90.25 TAL 155.78 TAP 54.42 RCA 101.16 APO 152.58 V2 34.822
RC 130.911 GL 7.85 GP 18.16 ZAL 42.76 ZAP 152.42 ETS 36.30 ZAE 122.76 ETE 168.17 ZAC 32.70 ETC 179.26 CLP-158.87

PLANETOCENTRIC CONIC

C3 19.474 VHL 4.413 DLA -1.54 RAL 336.08 RAD 6567.8 VEL 11.868 PTH 2.11 VHP 5.997 DPA -4.66 RAP 298.86 ECC 1.3205

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 31 10	2160.21	-18.21	38.07	196.58	112.06	9 7 10	1560.2	-15.06	30.81
90.00	20 6 19	4899.93	20.55	213.07	197.30	70.08	21 27 59	4299.9	17.65	205.59
100.00	9 51 48	1900.14	-19.23	18.49	196.13	113.33	10 23 28	1300.1	-15.91	11.27
100.00	21 28 23	4635.24	21.58	193.19	196.88	68.80	22 45 38	4035.2	18.51	185.74
110.00	10 58 23	1691.67	-21.96	1.30	194.77	116.88	11 26 35	1091.7	-18.18	354.22
110.00	22 38 16	4416.47	24.36	175.30	195.60	65.24	23 51 53	3816.5	20.81	167.95

DIFFERENTIAL CORRECTIONS
TOE 1.9140 TRA 3.7286 TC3-3.2447 BAU .8487
RDE .0310 RRA -.6029 RC3 .3133 FAU .03622
FDE 1.6890 FRA 3.1267 FC3-1.6103 BSP 19802
BDE 1.9142 BRA 3.7771 BC3 3.2598 FSP -1471

MID-COURSE EXECUTION ACCURACY
SGT 6150.6 SGR 831.5 SG3 417.2
RRT -.8769 RRF -.8679 RTF .9826
SGB 6206.5 R23 .0056 R13 -.9827
SG1 6193.8 SG2 396.9 THA 173.21

ORBIT DETERMINATION ACCURACY
ST 2879.9 SR 238.5 SS 1300.0
CRT -.3523 CRS .3314 CST -.9997
LSA 3160.6 MSA 225.0 SSA 14.4
EL1 2881.1 EL2 223.1 ALF 178.32

LAUNCH DATE OCT 13 1965 FLIGHT TIME 202.00 ARRIVAL DATE MAY 3 1966

HELIOCENTRIC CONIC DISTANCE 565,704

RL 149.24 LAL .00 LOL 19.45 VL 27.039 GAL 6.21 AZL 88.56 HCA 261.80 SMA 126.71 ECC .20720 INC 1.4440 V1 29.856
RP 108.85 LAP -1.43 LOP 281.25 VP 37.299 GAP 8.82 AZP 90.21 TAL 154.76 TAP 56.56 RCA 100.46 APO 152.97 V2 34.816
RC 133.236 GL 8.50 GP 17.26 ZAL 41.80 ZAP 154.10 ETS 37.28 ZAE 122.35 ETE 168.87 ZAC 34.26 ETC 177.44 CLP-160.39

PLANETOCENTRIC CONIC

C3 21.009 VHL 4.584 DLA -.54 RAL 336.84 RAD 6567.9 VEL 11.933 PTH 2.12 VHP 6.227 DPA -5.29 RAP 300.57 ECC 1.3458

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 26 46	2209.36	-19.44	41.15	198.77	111.00	9 3 35	1609.4	-16.41	33.78
90.00	20 16 46	4886.97	20.25	212.24	199.03	69.77	21 38 13	4287.0	17.31	204.80
100.00	9 47 51	1947.79	-20.49	21.47	198.33	112.25	10 20 19	1347.8	-17.29	14.14
100.00	21 38 22	4623.78	21.30	192.46	198.60	68.52	22 55 26	4023.8	18.19	185.04
110.00	10 55 31	1735.98	-23.30	4.05	196.98	115.75	11 24 27	1136.0	-19.64	356.82
110.00	22 47 11	4408.36	24.12	174.79	197.29	65.01	24 0 40	3808.4	20.55	167.46

DIFFERENTIAL CORRECTIONS
TOE 2.0635 TRA 3.9432 TC3-3.0405 BAU .8573
RDE .0522 RRA -.5887 RC3 .2693 FAU .03271
FDE 1.6739 FRA 3.0712 FC3-1.3480 BSP 20078
BDE 2.0642 BRA 3.9869 BC3 3.0524 FSP -1388

MID-COURSE EXECUTION ACCURACY
SGT 6222.6 SGR 779.0 SG3 392.6
RRT -.8556 RRF -.8459 RTF .9821
SGB 6271.2 R23 .0041 R13 -.9821
SG1 6258.3 SG2 400.9 THA 173.86

ORBIT DETERMINATION ACCURACY
ST 2974.4 SR 230.4 SS 1285.2
CRT -.2317 CRS .2145 CST -.9998
LSA 3240.6 MSA 225.2 SSA 14.2
EL1 2974.9 EL2 224.0 ALF 178.97

LAUNCH DATE OCT 13 1965 FLIGHT TIME 204.00 ARRIVAL DATE MAY 5 1966

HELIOCENTRIC CONIC DISTANCE 571,446

RL 149.24 LAL .00 LOL 19.45 VL 27.015 GAL 6.61 AZL 88.40 HCA 264.96 SMA 126.56 ECC .21207 INC 1.6033 V1 29.856
RP 108.87 LAP -1.60 LOP 284.41 VP 37.276 GAP 9.27 AZP 90.14 TAL 153.73 TAP 58.69 RCA 99.72 APO 153.39 V2 34.809
RC 135.553 GL 9.06 GP 16.45 ZAL 40.86 ZAP 155.69 ETS 38.39 ZAE 121.96 ETE 169.48 ZAC 35.91 ETC 175.91 CLP-161.84

PLANETOCENTRIC CONIC

C3 22.721 VHL 4.767 DLA .37 RAL 337.61 RAD 6567.9 VEL 12.004 PTH 2.14 VHP 6.471 DPA -5.80 RAP 302.33 ECC 1.3739

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 23 4	2256.67	-20.57	44.16	201.05	109.90	9 0 41	1656.7	-17.67	36.69
90.00	20 26 38	4877.52	20.02	211.64	200.86	69.55	21 47 56	4277.5	17.06	204.21
100.00	9 44 35	1993.72	-21.65	24.40	200.62	111.13	10 17 49	1393.7	-18.58	16.94
100.00	21 47 48	4615.69	21.10	191.94	200.42	68.32	23 4 44	4015.7	17.97	184.54
110.00	10 53 14	1778.86	-24.54	6.76	199.30	114.58	11 22 52	1178.9	-21.01	359.39
110.00	22 55 39	4403.32	23.98	174.47	199.07	64.87	24 9 3	3803.3	20.39	167.16

DIFFERENTIAL CORRECTIONS
TOE 2.2162 TRA 4.1686 TC3-2.8365 BAU .8645
RDE .0736 RRA -.5760 RC3 .2313 FAU .02942
FDE 1.6566 FRA 3.0191 FC3-1.1211 BSP 20348
BDE 2.2174 BRA 4.2082 BC3 2.8459 FSP -1310

MID-COURSE EXECUTION ACCURACY
SGT 6286.2 SGR 732.0 SG3 369.4
RRT -.8323 RRF -.8219 RTF .9815
SGB 6328.7 R23 .0028 R13 -.9816
SG1 6315.8 SG2 403.8 THA 174.44

ORBIT DETERMINATION ACCURACY
ST 3059.8 SR 225.9 SS 1269.1
CRT -.1115 CRS .0979 CST -.9998
LSA 3312.6 MSA 225.1 SSA 14.1
EL1 3059.9 EL2 224.4 ALF 179.53

LAUNCH DATE OCT 13 1965 FLIGHT TIME 206.00 ARRIVAL DATE MAY 7 1966

HELIOCENTRIC CONIC DISTANCE 577.143

RL 149.24 LAL .00 LOL 19.45 VL 26.991 GAL 7.05 AZL 88.24 HCA 268.12 SMA 126.40 ECC .21734 INC 1.7609 V1 29.856
RP 108.88 LAP -1.76 LOP 287.57 VP 37.253 GAP 9.73 AZP 90.06 TAL 152.68 TAP 60.80 RCA 98.93 APO 153.87 V2 34.804
RC 137.863 GL 9.55 GP 15.71 ZAL 39.93 ZAP 157.18 ETS 39.65 ZAE 121.60 ETE 170.02 ZAC 37.63 ETC 174.62 CLP-163.25

PLANETOCENTRIC CONIC

C3 24.630 VHL 4.963 DLA 1.21 RAL 338.39 RAD 6568.0 VEL 12.083 PTH 2.16 VHP 6.730 DPA -6.22 RAP 304.13 ECC 1.4054

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 19 59	2302.36	-21.60	47.12	203.43	108.77	8 58 22	1702.4	-18.84	39.53
90.00	20 35 58	4871.30	19.87	211.24	202.78	69.41	21 57 10	4271.3	16.89	203.83
100.00	9 41 53	2038.16	-22.71	27.27	203.00	109.98	10 15 52	1438.2	-19.78	19.70
100.00	21 56 45	4610.72	20.97	191.62	202.33	68.20	23 13 36	4010.7	17.83	184.24
110.00	10 51 26	1820.51	-25.69	9.45	201.71	113.37	11 21 46	1220.5	-22.31	1.93
110.00	23 3 42	4401.14	23.91	174.33	200.94	64.81	24 17 3	3801.1	20.32	167.03

DIFFERENTIAL CORRECTIONS
TDE 2.3742 TRA 4.4074 TC3-2.6314 BAU .8689
RDE .0950 RRA -.5645 RC3 .1981 FAU .02627
FDE 1.5396 FRA 2.9720 FC3 -.9232 BSP 20568
BDE 2.3761 BRA 4.4434 BC3 2.6389 FSP -1235

MID-COURSE EXECUTION ACCURACY
SGT 6343.2 SGR 689.6 SG3 347.8
RRT -.8071 RRF -.7961 RTF .9811
SGB 6380.6 R23 .0018 R13 -.9811
SG1 6367.7 SG2 405.6 THA 174.97

ORBIT DETERMINATION ACCURACY
ST 3138.5 SR 224.3 SS 1253.1
CRT .0022 CRS -.0126 CST -.9999
LSA 3379.3 MSA 224.6 SSA 13.7
EL1 3138.5 EL2 224.3 ALF .01

LAUNCH DATE OCT 13 1965 FLIGHT TIME 208.00 ARRIVAL DATE MAY 9 1966

HELIOCENTRIC CONIC DISTANCE 582.789

RL 149.24 LAL .00 LOL 19.45 VL 26.966 GAL 7.51 AZL 88.08 HCA 271.29 SMA 126.24 ECC .22303 INC 1.9180 V1 29.856
RP 108.90 LAP -1.92 LOP 290.74 VP 37.230 GAP 10.22 AZP 89.96 TAL 151.63 TAP 62.91 RCA 98.08 APO 154.39 V2 34.799
RC 140.164 GL 9.96 GP 15.05 ZAL 39.02 ZAP 158.60 ETS 41.07 ZAE 121.25 ETE 170.50 ZAC 39.41 ETC 173.53 CLP-164.61

PLANETOCENTRIC CONIC

C3 26.765 VHL 5.173 DLA 1.98 RAL 339.18 RAD 6568.1 VEL 12.171 PTH 2.18 VHP 7.005 DPA -6.53 RAP 305.98 ECC 1.4405

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 17 27	2346.64	-22.54	50.02	205.88	107.61	8 56 34	1746.6	-19.92	42.33
90.00	20 44 48	4868.08	19.80	211.04	204.78	69.33	22 5 56	4268.1	16.81	203.64
100.00	9 39 43	2081.29	-23.68	30.10	205.47	108.79	10 14 24	1481.3	-20.90	22.41
100.00	22 5 14	4608.66	20.92	191.49	204.31	68.15	23 22 2	4008.7	17.77	184.11
110.00	10 50 4	1861.08	-26.76	12.12	204.21	112.11	11 21 5	1261.1	-23.52	4.45
110.00	23 11 22	4401.64	23.93	174.36	202.90	64.83	24 24 43	3801.6	20.34	167.06

DIFFERENTIAL CORRECTIONS
TDE 2.5365 TRA 4.6591 TC3-2.4301 BAU .8717
RDE .1166 RRA -.5537 RC3 .1692 FAU .02331
FDE 1.6221 FRA 2.9286 FC3 -.7541 BSP 20784
BDE 2.5392 BRA 4.6919 BC3 2.4360 FSP -1165

MID-COURSE EXECUTION ACCURACY
SGT 6393.0 SGR 651.0 SG3 327.5
RRT -.7798 RRF -.7683 RTF .9807
SGB 6426.1 R23 .0008 R13 -.9807
SG1 6413.2 SG2 406.3 THA 175.44

ORBIT DETERMINATION ACCURACY
ST 3208.8 SR 224.9 SS 1236.8
CRT .1071 CRS -.1146 CST -.9999
LSA 3438.9 MSA 223.8 SSA 13.7
EL1 3208.8 EL2 223.6 ALF .43

LAUNCH DATE OCT 13 1965 FLIGHT TIME 210.00 ARRIVAL DATE MAY 11 1966

HELIOCENTRIC CONIC DISTANCE 588.379

RL 149.24 LAL .00 LOL 19.45 VL 26.941 GAL 8.01 AZL 87.92 HCA 274.44 SMA 126.07 ECC .22918 INC 2.0753 V1 29.856
RP 108.91 LAP -2.07 LOP 293.90 VP 37.208 GAP 10.73 AZP 89.84 TAL 150.57 TAP 65.02 RCA 97.18 APO 154.97 V2 34.795
RC 142.456 GL 10.31 GP 14.44 ZAL 38.13 ZAP 159.94 ETS 42.69 ZAE 120.92 ETE 170.93 ZAC 41.24 ETC 172.62 CLP-165.93

PLANETOCENTRIC CONIC

C3 29.155 VHL 5.400 DLA 2.68 RAL 339.98 RAD 6568.2 VEL 12.269 PTH 2.21 VHP 7.297 DPA -6.76 RAP 307.87 ECC 1.4798

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 15 25	2389.67	-23.40	52.89	208.41	106.42	8 55 14	1789.7	-20.92	45.09
90.00	20 53 10	4867.68	19.79	211.01	206.85	69.32	22 14 17	4267.7	16.80	203.61
100.00	9 38 0	2123.28	-24.58	32.90	208.02	107.58	10 13 23	1523.3	-21.94	25.10
100.00	22 13 15	4609.31	20.94	191.53	206.37	68.16	23 30 5	4009.3	17.79	184.15
110.00	10 49 7	1900.71	-27.75	14.78	206.79	110.82	11 20 47	1300.7	-24.66	6.96
110.00	23 18 38	4404.64	24.02	174.55	204.92	64.91	24 32 3	3804.6	20.43	167.24

DIFFERENTIAL CORRECTIONS
TDE 2.7075 TRA 4.9290 TC3-2.2276 BAU .8701
RDE .1382 RRA -.5437 RC3 .1435 FAU .02041
FDE 1.6070 FRA 2.8922 FC3 -.6059 BSP 20898
BDE 2.7110 BRA 4.9589 BC3 2.2322 FSP -1093

MID-COURSE EXECUTION ACCURACY
SGT 6438.7 SGR 615.7 SG3 308.8
RRT -.7505 RRF -.7387 RTF .9803
SGB 6468.1 R23 .0000 R13 -.9803
SG1 6455.3 SG2 405.8 THA 175.88

ORBIT DETERMINATION ACCURACY
ST 3275.2 SR 227.1 SS 1222.2
CRT .2003 CRS -.2053 CST -.9999
LSA 3496.0 MSA 222.5 SSA 13.5
EL1 3275.5 EL2 222.4 ALF .80

LAUNCH DATE OCT 13 1965 FLIGHT TIME 212.00 ARRIVAL DATE MAY 13 1966

HELIOCENTRIC CONIC DISTANCE 593.905

RL 149.24 LAL .00 LOL 19.45 VL 26.916 GAL 8.54 AZL 87.77 HCA 277.60 SMA 125.91 ECC .23585 INC 2.2340 V1 29.856
RP 108.92 LAP -2.21 LOP 297.06 VP 37.187 GAP 11.26 AZP 89.70 TAL 149.52 TAP 67.12 RCA 96.22 APO 155.61 V2 34.791
RC 144.737 GL 10.60 GP 13.89 ZAL 37.25 ZAP 161.21 ETS 44.54 ZAE 120.60 ETE 171.31 ZAC 43.10 ETC 171.84 CLP-167.21

PLANETOCENTRIC CONIC

C3 31.837 VHL 5.642 DLA 3.31 RAL 340.76 RAD 6568.3 VEL 12.378 PTH 2.23 VHP 7.608 DPA -6.90 RAP 309.77 ECC 1.5240

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 13 48	2431.59	-24.17	55.71	211.01	105.21	8 54 20	1831.6	-21.85	47.81
90.00	21 1 4	4869.93	19.84	211.15	208.98	69.37	22 22 14	4269.9	16.86	203.75
100.00	9 36 42	2164.23	-25.39	35.67	210.63	106.33	10 12 46	1564.2	-22.91	27.75
100.00	22 20 52	4612.53	21.02	191.74	208.49	68.24	23 37 44	4012.5	17.88	184.35
110.00	10 48 29	1939.52	-28.66	17.43	209.45	109.49	11 20 49	1339.5	-25.73	9.47
110.00	23 25 33	4410.01	24.17	174.89	207.02	65.06	24 39 3	3810.0	20.61	167.56

DIFFERENTIAL CORRECTIONS
TDE 2.8809 TRA 5.2109 TC3-2.0352 BAU .8678
RDE .1606 RRA -.5333 RC3 .1215 FAU .01779
FDE 1.5900 FRA 2.8574 FC3 -.4837 BSP 21086
BDE 2.8854 BRA 5.2381 BC3 2.0388 FSP -1032

MID-COURSE EXECUTION ACCURACY
SGT 6475.0 SGR 582.8 SG3 291.1
RRT -.7190 RRF -.7070 RTF .9801
SGB 6501.1 R23 -.0006 R13 -.9801
SG1 6488.6 SG2 404.2 THA 176.28

ORBIT DETERMINATION ACCURACY
ST 3330.3 SR 230.4 SS 1206.2
CRT .2841 CRS -.2869 CST -.9999
LSA 3542.6 MSA 220.9 SSA 13.3
EL1 3331.0 EL2 220.9 ALF 1.13

LAUNCH DATE OCT 13 1965 FLIGHT TIME 214.00 ARRIVAL DATE MAY 15 1966

HELIOCENTRIC CONIC DISTANCE 599.360

RL	149.24	LAL	.00	LOL	19.45	VL	26.891	GAL	9.11	AZL	87.60	HCA	280.76	SMA	125.75	ECC	.24309	INC	2.3951	V1	29.856
RP	108.93	LAP	-2.35	LOP	300.22	VP	37.166	GAP	11.82	AZP	89.55	TAL	148.47	TAP	69.23	RCA	95.18	APO	156.32	V2	34.788
RC	147.008	GL	10.83	GP	13.38	ZAL	36.40	ZAP	162.41	ETS	46.66	ZAE	120.30	ETE	171.66	ZAC	44.99	ETC	171.19	CLP	-168.47

PLANETOCENTRIC CONIC

C3	34.855	VHL	5.904	DLA	3.89	RAL	341.55	RAD	6568.4	VEL	12.499	PTH	2.26	VHP	7.939	DPA	-6.96	RAP	311.70	ECC	1.5736

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 12 35	2472.51	-24.88	58.50	213.67	103.98	8 53 48	1872.5	-22.71	50.50
90.00	21 8 32	4874.69	19.96	211.46	211.17	69.48	22 29 46	4274.7	16.99	204.04
100.00	9 35 45	2204.26	-26.13	38.42	213.31	105.07	10 12 29	1604.3	-23.80	30.39
100.00	22 28 3	4618.17	21.16	192.10	210.68	68.38	23 45 1	4018.2	18.04	184.69
110.00	10 48 11	1977.58	-29.49	20.08	212.18	108.12	11 21 8	1377.6	-26.73	11.98
110.00	23 32 6	4417.62	24.39	175.38	209.18	65.27	24 45 44	3817.6	20.85	168.02

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TDE	3.0611	TRA	5.5102	TC3	-1.8480	BAU	.8624	SGT	6505.1	SGR	552.1	SG3	274.6	ST	3378.7	SR	234.4	SS	1191.1
RDE	.1834	RRA	-.5228	RC3	.1022	FAU	.01530	RRT	-.6850	RRF	-.6730	RTF	.9800	CRT	.3575	CRS	-.3586	CST	-.9999
FDE	1.5742	FRA	2.8275	FC3	-.3801	BSP	21250	SGB	6528.5	R23	-.0012	R13	-.9800	LSA	3583.4	MSA	218.9	SSA	13.0
BDE	3.0666	BRA	5.5350	BC3	1.8508	FSP	-974	SG1	6516.1	SG2	401.5	THA	176.66	EL1	3379.7	EL2	218.9	ALF	1.43

LAUNCH DATE OCT 13 1965 FLIGHT TIME 216.00 ARRIVAL DATE MAY 17 1966

HELIOCENTRIC CONIC DISTANCE 604.732

RL	149.24	LAL	.00	LOL	19.45	VL	26.866	GAL	9.72	AZL	87.44	HCA	283.92	SMA	125.59	ECC	.25096	INC	2.5595	V1	29.856
RP	108.94	LAP	-2.48	LOP	303.38	VP	37.146	GAP	12.41	AZP	89.38	TAL	147.43	TAP	71.35	RCA	94.07	APO	157.11	V2	34.786
RC	149.266	GL	11.02	GP	12.92	ZAL	36.57	ZAP	163.54	ETS	49.07	ZAE	120.00	ETE	171.98	ZAC	46.91	ETC	170.64	CLP	-169.71

PLANETOCENTRIC CONIC

C3	38.261	VHL	6.186	DLA	4.42	RAL	342.32	RAD	6568.5	VEL	12.634	PTH	2.29	VHP	8.293	DPA	-6.96	RAP	313.65	ECC	1.6297

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 11 43	2512.49	-25.51	61.26	216.38	102.74	8 53 36	1912.5	-23.50	53.17
90.00	21 15 33	4881.82	20.13	211.91	213.42	69.65	22 36 55	4281.8	17.17	204.48
100.00	9 35 8	2243.43	-26.79	41.14	216.04	103.78	10 12 32	1643.4	-24.63	33.01
100.00	22 34 49	4626.11	21.36	192.60	212.91	68.58	23 51 55	4026.1	18.26	185.18
110.00	10 48 8	2014.95	-30.25	22.72	214.97	106.73	11 21 43	1415.0	-27.67	14.48
110.00	23 38 19	4427.35	24.66	176.00	211.39	65.55	24 52 6	3827.4	21.15	168.61

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TDE	3.2492	TRA	5.8289	TC3	-1.6665	BAU	.8535	SGT	6529.5	SGR	523.2	SG3	259.2	ST	3420.7	SR	238.7	SS	1177.1
RDE	.2067	RRA	-.5116	RC3	.0853	FAU	.01294	RRT	-.6485	RRF	-.6366	RTF	.9800	CRT	.4217	CRS	-.4214	CST	-.9999
FDE	1.5601	FRA	2.8025	FC3	-.2928	BSP	21398	SGB	6550.4	R23	-.0017	R13	-.9800	LSA	3619.0	MSA	216.4	SSA	12.8
BDE	3.2558	BRA	5.8513	BC3	1.6686	FSP	-919	SG1	6538.3	SG2	397.7	THA	177.01	EL1	3422.2	EL2	216.4	ALF	1.69

LAUNCH DATE OCT 13 1965 FLIGHT TIME 218.00 ARRIVAL DATE MAY 19 1966

HELIOCENTRIC CONIC DISTANCE 610.011

RL	149.24	LAL	.00	LOL	19.45	VL	26.841	GAL	10.38	AZL	87.27	HCA	287.08	SMA	125.43	ECC	.25953	INC	2.7285	V1	29.856
RP	108.94	LAP	-2.61	LOP	306.55	VP	37.126	GAP	13.05	AZP	89.20	TAL	146.40	TAP	73.48	RCA	92.88	APO	157.98	V2	34.785
RC	151.511	GL	11.17	GP	12.50	ZAL	34.76	ZAP	164.60	ETS	51.84	ZAE	119.71	ETE	172.27	ZAC	48.84	ETC	170.17	CLP	-170.93

PLANETOCENTRIC CONIC

C3	42.119	VHL	6.490	DLA	4.89	RAL	343.08	RAD	6568.6	VEL	12.786	PTH	2.33	VHP	8.674	DPA	-6.88	RAP	315.60	ECC	1.6932

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 11 10	2551.61	-26.06	63.99	219.13	101.48	8 53 42	1951.6	-24.22	55.81
90.00	21 22 9	4891.21	20.35	212.51	215.71	69.87	22 43 41	4291.2	17.42	205.06
100.00	9 34 49	2281.81	-27.38	43.84	218.82	102.48	10 12 51	1681.8	-25.39	35.60
100.00	22 41 12	4636.24	21.61	193.25	215.20	68.83	23 58 28	4036.2	18.54	185.80
110.00	10 48 20	2051.70	-30.94	25.36	217.81	105.31	11 22 32	1451.7	-28.53	16.99
110.00	23 44 10	4439.11	24.99	176.75	213.67	65.88	24 58 9	3839.1	21.52	169.32

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TDE	3.4504	TRA	6.1726	TC3	-1.4877	BAU	.8386	SGT	6551.5	SGR	495.8	SG3	245.0	ST	3460.5	SR	243.0	SS	1165.9
RDE	.2304	RRA	-.4998	RC3	.0702	FAU	.01059	RRT	-.6091	RRF	-.5976	RTF	.9802	CRT	.4775	CRS	-.4761	CST	-.9999
FDE	1.5499	FRA	2.7845	FC3	-.2176	BSP	21425	SGB	6570.3	R23	-.0020	R13	-.9802	LSA	3653.4	MSA	213.4	SSA	12.5
BDE	3.4581	BRA	6.1928	BC3	1.4893	FSP	-863	SG1	6558.5	SG2	392.8	THA	177.35	EL1	3462.4	EL2	213.4	ALF	1.93

LAUNCH DATE OCT 13 1965 FLIGHT TIME 220.00 ARRIVAL DATE MAY 21 1966

HELIOCENTRIC CONIC DISTANCE 615.181

RL	149.24	LAL	.00	LOL	19.45	VL	26.815	GAL	11.09	AZL	87.10	HCA	290.23	SMA	125.27	ECC	.26889	INC	2.9032	V1	29.856
RP	108.94	LAP	-2.72	LOP	309.71	VP	37.108	GAP	13.72	AZP	89.00	TAL	145.40	TAP	75.63	RCA	91.59	APO	158.95	V2	34.784
RC	153.743	GL	11.27	GP	12.12	ZAL	33.98	ZAP	165.59	ETS	55.03	ZAE	119.41	ETE	172.54	ZAC	50.78	ETC	169.76	CLP	-172.14

PLANETOCENTRIC CONIC

C3	46.503	VHL	6.819	DLA	5.32	RAL	343.82	RAD	6568.7	VEL	12.956	PTH	2.36	VHP	9.082	DPA	-6.75	RAP	317.55	ECC	1.7653

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 10 54	2589.87	-26.55	66.69	221.92	100.21	8 54 4	1989.9	-24.87	58.42
90.00	21 28 20	4902.76	20.62	213.25	218.05	70.15	22 50 3	4302.8	17.72	205.77
100.00	9 34 45	2319.41	-27.91	46.51	221.63	101.17	10 13 25	1719.4	-26.08	38.18
100.00	22 47 10	4648.46	21.91	194.04	217.53	69.14	24 4 38	4048.5	18.87	186.56
110.00	10 48 45	2087.83	-31.56	27.99	220.70	103.86	11 23 33	1487.8	-29.34	19.49
110.00	23 49 39	4452.81	25.37	177.64	215.98	66.28	25 3 52	3852.8	21.95	170.16

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TDE	3.6568	TRA	6.5348	TC3	-1.3206	BAU	.8218	SGT	6564.4	SGR	469.6	SG3	231.5	ST	3489.9	SR	247.3	SS	1154.4
RDE	.2552	RRA	-.4863	RC3	.0573	FAU	.00846	RRT	-.5661	RRF	-.5552	RTF	.9805	CRT	.5273	CRS	-.5250	CST	-.9999
FDE	1.5393	FRA	2.7695	FC3	-.1575	BSP	21552	SGB	6581.2	R23	-.0022	R13	-.9805	LSA	3678.2	MSA	210.0	SSA	12.2
BDE	3.6657	BRA	6.5529	BC3	1.3218	FSP	-816	SG1	6569.8	SG2	386.8	THA	177.67	EL1	3492.4	EL2	210.0	ALF	2.15

LAUNCH DATE OCT 14 1965 FLIGHT TIME 70.00 ARRIVAL DATE DEC 23 1965

DISTANCE 142.483

HELIOCENTRIC CONIC

RL	149.20	LAL	.00	LOL	20.44	VL	19.040	GAL	13.64	AZL	90.47	HCA	49.92	SMA	93.69	ECC	.62214	INC	.4654	VI	29.864
RP	107.85	LAP	-.36	LOP	70.36	VP	32.321	GAP	-37.63	AZP	90.30	TAL	171.36	TAP	221.28	RCA	35.40	APO	151.99	V2	35.138
RC	59.781	GL	-.69	GP	-4.31	ZAL	66.31	ZAP	26.49	ETS	168.09	ZAE	145.61	ETE	186.90	ZAC	21.57	ETC	117.35	CLP	26.16

PLANETOCENTRIC CONIC

C3 153.845 VHL 12.403 DLA -17.26 RAL 316.81 RAD 6570.7 VEL 16.588 PTH 2.88 VHP 21.816 DPA -28.77 RAP 277.09 ECC 3.5319

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 19 21	2120.94	-17.19	35.64	207.06	112.85	9 54 42	1520.9	-13.95	28.46
90.00	16 36 32	614.13	25.24	305.84	220.55	103.27	16 46 46	14.1	26.82	297.53
100.00	10 30 45	1890.59	-18.97	17.90	206.25	113.54	11 2 15	1290.6	-15.63	10.71
100.00	18 7 50	5607.76	27.13	262.58	221.05	103.05	19 41 17	5007.8	28.66	254.11
110.00	11 17 5	1745.41	-23.57	4.64	204.00	115.50	11 46 11	1145.4	-19.94	357.38
110.00	19 37 59	5325.70	32.06	242.45	222.33	102.54	21 6 44	4725.7	33.46	233.49

DIFFERENTIAL CORRECTIONS

TDE	-.4862	TRA-1.5200	TC3	-.1184	BAU	.2446	
RDE	-.8824	RRA	.3888	RC3	-.0114	FAU	.01339
FDE	.2485	FRA	.6414	FC3	-.0753	BSP	2168
BDE	1.0075	BRA	1.5690	BC3	.1189	FSP	-69

MID-COURSE EXECUTION ACCURACY

SGT	823.0	SGR	449.8	SG3	32.8		
RRT	-.1037	RRF	.0987	RTF	-.6364		
SGB	937.9	R23	-.0052	R13	.6373		
SG1	824.9	SG2	446.4	THA	175.41		

ORBIT DETERMINATION ACCURACY

ST	314.9	SR	411.5	SS	278.8		
CRT	.6105	CRS	.6825	CST	.9933		
LSA	533.0	MSA	248.9	SSA	13.8		
EL1	469.9	EL2	218.4	ALF	56.95		

LAUNCH DATE OCT 14 1965 FLIGHT TIME 72.00 ARRIVAL DATE DEC 25 1965

DISTANCE 148.579

HELIOCENTRIC CONIC

RL	149.20	LAL	.00	LOL	20.44	VL	19.667	GAL	13.07	AZL	90.21	HCA	53.14	SMA	95.33	ECC	.59515	INC	.2067	VI	29.864
RP	107.81	LAP	-.17	LOP	73.58	VP	32.707	GAP	-35.85	AZP	90.12	TAL	170.74	TAP	223.88	RCA	38.59	APO	152.06	V2	35.149
RC	57.879	GL	-.34	GP	-4.46	ZAL	65.22	ZAP	25.00	ETS	167.21	ZAE	146.30	ETE	188.06	ZAC	22.59	ETC	120.83	CLP	24.62

PLANETOCENTRIC CONIC

C3 138.962 VHL 11.788 DLA -16.60 RAL 317.79 RAD 6570.5 VEL 16.134 PTH 2.84 VHP 20.912 DPA -28.91 RAP 279.01 ECC 3.2870

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 16 47	2127.16	-17.36	36.02	206.82	112.73	9 52 14	1527.2	-14.13	28.83
90.00	16 46 55	5858.81	25.89	280.73	219.96	101.89	18 24 33	5258.8	27.27	272.34
100.00	10 28 45	1894.97	-19.09	18.17	206.04	113.45	11 0 20	1295.0	-15.76	10.97
100.00	18 17 38	5566.23	27.74	259.64	220.39	101.62	19 50 24	4966.2	29.06	251.09
110.00	11 16 15	1746.16	-23.60	4.69	203.84	115.48	11 45 21	1146.2	-19.97	357.42
110.00	19 46 37	5287.81	32.59	239.62	221.51	100.94	21 14 45	4687.8	33.75	230.57

DIFFERENTIAL CORRECTIONS

TDE	-.4913	TRA-1.5257	TC3	-.1244	BAU	.2326	
RDE	-.8416	RRA	.3856	RC3	-.0142	FAU	.01361
FDE	.2650	FRA	.6663	FC3	-.0848	BSP	2326
BDE	.9745	BRA	1.5737	BC3	.1252	FSP	-76

MID-COURSE EXECUTION ACCURACY

SGT	861.2	SGR	454.6	SG3	35.7		
RRT	-.1119	RRF	.1071	RTF	-.6564		
SGB	973.9	R23	-.0059	R13	.6573		
SG1	863.3	SG2	450.7	THA	175.35		

ORBIT DETERMINATION ACCURACY

ST	333.2	SR	413.2	SS	296.3		
CRT	.6107	CRS	.6894	CST	.9926		
LSA	551.5	MSA	255.3	SSA	14.0		
EL1	479.7	EL2	227.3	ALF	54.78		

LAUNCH DATE OCT 14 1965 FLIGHT TIME 74.00 ARRIVAL DATE DEC 27 1965

DISTANCE 154.757

HELIOCENTRIC CONIC

RL	149.20	LAL	.00	LOL	20.44	VL	20.251	GAL	12.51	AZL	89.97	HCA	56.36	SMA	96.95	ECC	.56896	INC	.0280	VI	29.864
RP	107.78	LAP	.03	LOP	76.80	VP	33.073	GAP	-34.15	AZP	89.98	TAL	170.14	TAP	226.50	RCA	41.79	APO	152.11	V2	35.160
RC	56.028	GL	.05	GP	-4.62	ZAL	64.19	ZAP	23.53	ETS	166.19	ZAE	147.10	ETE	189.38	ZAC	23.71	ETC	124.03	CLP	23.10

PLANETOCENTRIC CONIC

C3 125.591 VHL 11.207 DLA -15.92 RAL 318.69 RAD 6570.3 VEL 15.714 PTH 2.79 VHP 20.042 DPA -29.04 RAP 280.96 ECC 3.0669

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 13 54	2132.74	-17.50	36.37	206.47	112.62	9 49 27	1532.7	-14.29	29.17
90.00	16 56 58	5814.51	26.47	277.62	219.19	100.44	18 33 53	5214.5	27.65	269.15
100.00	10 26 25	1898.77	-19.20	18.41	205.71	113.36	10 58 4	1298.8	-15.87	11.19
100.00	18 27 9	5523.71	28.28	256.60	219.56	100.10	19 59 12	4923.7	29.39	247.97
110.00	11 15 3	1746.40	-23.60	4.70	203.56	115.48	11 44 10	1146.4	-19.98	357.44
110.00	19 55 0	5248.84	33.05	236.67	220.50	99.26	21 22 28	4648.8	33.98	227.55

DIFFERENTIAL CORRECTIONS

TDE	-.4957	TRA-1.5312	TC3	-.1299	BAU	.2201	
RDE	-.8012	RRA	.3816	RC3	-.0175	FAU	.01386
FDE	.2820	FRA	.6918	FC3	-.0956	BSP	2494
BDE	.9422	BRA	1.5780	BC3	.1311	FSP	-85

MID-COURSE EXECUTION ACCURACY

SGT	900.9	SGR	458.8	SG3	38.8		
RRT	-.1208	RRF	.1162	RTF	-.6757		
SGB	1011.0	R23	-.0067	R13	.6766		
SG1	903.2	SG2	454.3	THA	175.28		

ORBIT DETERMINATION ACCURACY

ST	352.1	SR	414.1	SS	314.5		
CRT	.6101	CRS	.6956	CST	.9917		
LSA	571.0	MSA	261.1	SSA	14.2		
EL1	489.7	EL2	235.9	ALF	52.48		

LAUNCH DATE OCT 14 1965 FLIGHT TIME 76.00 ARRIVAL DATE DEC 29 1965

DISTANCE 161.011

HELIOCENTRIC CONIC

RL	149.20	LAL	.00	LOL	20.44	VL	20.796	GAL	11.95	AZL	89.75	HCA	59.59	SMA	98.56	ECC	.54363	INC	.2511	VI	29.864
RP	107.75	LAP	.22	LOP	80.03	VP	33.421	GAP	-32.54	AZP	89.87	TAL	169.56	TAP	229.15	RCA	44.98	APO	152.14	V2	35.171
RC	54.237	GL	.48	GP	-4.79	ZAL	63.23	ZAP	22.09	ETS	165.01	ZAE	148.02	ETE	190.89	ZAC	24.91	ETC	126.94	CLP	21.59

PLANETOCENTRIC CONIC

C3 113.570 VHL 10.657 DLA -15.22 RAL 319.51 RAD 6570.2 VEL 15.327 PTH 2.74 VHP 19.203 DPA -29.16 RAP 282.93 ECC 2.8691

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 10 42	2137.79	-17.63	36.68	205.99	112.52	9 46 19	1537.8	-14.43	29.47
90.00	17 6 43	5769.26	26.99	274.41	218.23	98.91	18 42 52	5169.3	27.94	265.87
100.00	10 23 45	1902.10	-19.29	18.61	205.26	113.29	10 55 27	1302.1	-15.97	11.39
100.00	18 36 21	5480.18	28.76	253.45	218.54	98.51	20 7 41	4880.2	29.64	244.76
110.00	11 13 30	1746.23	-23.60	4.69	203.16	115.48	11 42 36	1146.2	-19.97	357.43
110.00	20 3 5	5208.81	33.45	233.61	219.31	97.49	21 29 54	4608.8	34.12	224.44

DIFFERENTIAL CORRECTIONS

TDE	-.5020	TRA-1.5388	TC3	-.1357	BAU	.2086	
RDE	-.7614	RRA	.3771	RC3	-.0213	FAU	.01413
FDE	.2999	FRA	.7181	FC3	-.1077	BSP	2611
BDE	.9120	BRA	1.5843	BC3	.1374	FSP	-93

MID-COURSE EXECUTION ACCURACY

SGT	944.3	SGR	462.3	SG3	42.2		
RRT	-.1295	RRF	.1260	RTF	-.6938		
SGB	1051.4	R23	-.0086	R13	.6947		
SG1	946.7	SG2	457.2	THA	175.26		

ORBIT DETERMINATION ACCURACY

ST	372.9	SR	414.2	SS	333.7		
CRT	.6104	CRS	.7014	CST	.9910		
LSA	592.4	MSA	266.2	SSA	14.4		
EL1	501.0	EL2	244.2	ALF	49.89		

LAUNCH DATE OCT 14 1965 FLIGHT TIME 78.00 ARRIVAL DATE DEC 31 1965

HELIOCENTRIC CONIC DISTANCE 167,336

RL	149.20	LAL	.00	LOL	20.44	VL	21,305	GAL	11.40	AZL	89.54	HCA	62.82	SMA	100.15	ECC	.51919	INC	.4575	V1	29.864
RP	107.72	LAP	.41	LOP	83.26	VP	33,750	GAP	-31.01	AZP	89.79	TAL	169.02	TAP	231.83	RCA	48.16	APO	152.15	V2	35.181
RC	52.511	GL	.94	GP	-4.98	ZAL	62.34	ZAP	20.68	ETS	163.62	ZAE	149.05	ETE	192.63	ZAC	26.20	ETC	129.59	CLP	20.10

PLANETOCENTRIC CONIC

C3 102.754 VHL 10.137 DLA -14.51 RAL 320.25 RAD 6570.0 VEL 14.970 PTH 2.70 VHP 18.395 DPA -29.28 RAP 284.92 ECC 2.6911

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 7 8	2142.42	-17.75	36.96	205.41	112.43	9 42 50	1542.4	-14.56	29.74
90.00	17 16 10	5723.03	27.43	271.10	217.10	97.31	18 51 33	5123.0	28.16	262.51
100.00	10 20 42	1905.04	-19.36	18.80	204.69	113.23	10 52 27	1305.0	-16.06	11.57
100.00	18 45 17	5435.64	29.17	250.20	217.34	96.85	20 15 53	4835.6	29.81	241.46
110.00	11 11 34	1745.73	-23.58	4.66	202.64	115.49	11 40 40	1145.7	-19.96	357.40
110.00	20 10 55	5167.72	33.77	230.45	217.93	95.64	21 37 2	4567.7	34.18	221.23

DIFFERENTIAL CORRECTIONS								MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TDE	-.5057	TRA	-1.5439	TC3	-.1402	BAU	.1958	SGT	987.4	SGR	465.2	SG3	45.9	ST	393.6	SR	413.3	SS	353.6
RDE	-.7221	RRA	.3719	RC3	-.0257	FAU	.01444	RRT	-.1398	RRF	.1368	RTF	-.7116	CRT	.6090	CRS	.7065	CST	.9900
FDE	.3185	FRA	.7450	FC3	-.1217	BSP	2781	SGB	1091.5	R23	-.0099	R13	.7125	LSA	614.2	MSA	270.6	SSA	14.6
BDE	.8816	BRA	1.5881	BC3	.1425	FSP	-103	SG1	990.2	SG2	459.4	THA	175.19	EL1	512.1	EL2	252.0	ALF	47.30

LAUNCH DATE OCT 14 1965 FLIGHT TIME 80.00 ARRIVAL DATE JAN 2 1966

HELIOCENTRIC CONIC DISTANCE 173,726

RL	149.20	LAL	.00	LOL	20.44	VL	21.779	GAL	10.87	AZL	89.35	HCA	66.05	SMA	101.72	ECC	.49566	INC	.6526	V1	29.864
RP	107.69	LAP	.60	LOP	86.49	VP	34.061	GAP	-29.54	AZP	89.74	TAL	168.51	TAP	234.55	RCA	51.30	APO	152.14	V2	35.191
RC	50.858	GL	1.45	GP	-5.18	ZAL	61.51	ZAP	19.30	ETS	161.99	ZAE	150.19	ETE	194.65	ZAC	27.55	ETC	131.99	CLP	18.61

PLANETOCENTRIC CONIC

C3 93.020 VHL 9.645 DLA -13.77 RAL 320.90 RAD 6569.8 VEL 14.641 PTH 2.65 VHP 17.616 DPA -29.38 RAP 286.93 ECC 2.5309

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 3 12	2146.77	-17.87	37.23	204.71	112.34	9 38 59	1546.8	-14.68	30.00
90.00	17 25 21	5675.81	27.80	267.69	215.79	95.64	18 59 57	5075.8	28.29	259.06
100.00	10 17 17	1907.75	-19.44	18.97	204.01	113.17	10 49 5	1307.7	-16.14	11.73
100.00	18 53 57	5390.07	29.49	246.85	215.97	95.12	20 23 47	4790.1	29.89	238.07
110.00	11 9 14	1745.02	-23.56	4.62	202.01	115.51	11 38 19	1145.0	-19.93	357.36
110.00	20 18 29	5125.56	34.00	227.18	216.38	93.72	21 43 55	4525.6	34.15	217.94

DIFFERENTIAL CORRECTIONS								MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TDE	-.5088	TRA	-1.5484	TC3	-.1437	BAU	.1828	SGT	1032.1	SGR	467.5	SG3	49.9	ST	414.9	SR	411.5	SS	374.3
RDE	-.6834	RRA	.3662	RC3	-.0309	FAU	.01479	RRT	-.1512	RRF	.1488	RTF	-.7286	CRT	.6069	CRS	.7111	CST	.9889
FDE	.3379	FRA	.7728	FC3	-.1377	BSP	2961	SGB	1133.0	R23	-.0113	R13	.7296	LSA	637.2	MSA	274.4	SSA	14.8
BDE	.8520	BRA	1.5911	BC3	.1470	FSP	-114	SG1	1035.1	SG2	460.8	THA	175.11	EL1	523.8	EL2	259.1	ALF	44.61

LAUNCH DATE OCT 14 1965 FLIGHT TIME 82.00 ARRIVAL DATE JAN 4 1966

HELIOCENTRIC CONIC DISTANCE 180,175

RL	149.20	LAL	.00	LOL	20.44	VL	22.221	GAL	10.35	AZL	89.16	HCA	69.28	SMA	103.26	ECC	.47308	INC	.8383	V1	29.864
RP	107.66	LAP	.78	LOP	89.72	VP	34.355	GAP	-28.14	AZP	89.70	TAL	168.03	TAP	237.31	RCA	54.41	APO	152.11	V2	35.200
RC	49.288	GL	2.00	GP	-5.41	ZAL	60.75	ZAP	17.94	ETS	160.06	ZAE	151.43	ETE	197.00	ZAC	28.97	ETC	134.16	CLP	17.13

PLANETOCENTRIC CONIC

C3 84.258 VHL 9.179 DLA -13.01 RAL 321.48 RAD 6569.7 VEL 14.339 PTH 2.61 VHP 16.865 DPA -29.48 RAP 288.95 ECC 2.3867

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 58 52	2151.01	-17.98	37.50	203.90	112.25	9 34 43	1551.0	-14.80	30.26
90.00	17 34 16	5627.58	28.07	264.19	214.32	93.90	19 8 3	5027.6	28.31	255.53
100.00	10 13 27	1910.36	-19.51	19.13	203.23	113.11	10 45 17	1310.4	-16.21	11.88
100.00	19 2 22	5343.46	29.72	243.41	214.44	93.32	20 31 25	4743.5	29.87	234.61
110.00	11 6 29	1744.23	-23.54	4.57	201.27	115.53	11 35 34	1144.2	-19.91	357.31
110.00	20 25 49	5082.35	34.14	223.81	214.67	91.73	21 50 31	4482.4	34.01	214.57

DIFFERENTIAL CORRECTIONS								MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TDE	-.5115	TRA	-1.5522	TC3	-.1460	BAU	.1697	SGT	1078.3	SGR	469.1	SG3	54.3	ST	437.0	SR	408.7	SS	395.9
RDE	-.6453	RRA	.3602	RC3	-.0369	FAU	.01518	RRT	-.1636	RRF	.1620	RTF	-.7449	CRT	.6044	CRS	.7151	CST	.9878
FDE	.3583	FRA	.8015	FC3	-.1559	BSP	3146	SGB	1175.9	R23	-.0130	R13	.7459	LSA	661.6	MSA	277.3	SSA	14.9
BDE	.8234	BRA	1.5935	BC3	.1506	FSP	-127	SG1	1081.6	SG2	461.4	THA	175.02	EL1	536.3	EL2	265.3	ALF	41.83

LAUNCH DATE OCT 14 1965 FLIGHT TIME 84.00 ARRIVAL DATE JAN 6 1966

HELIOCENTRIC CONIC DISTANCE 186,680

RL	149.20	LAL	.00	LOL	20.44	VL	22.633	GAL	9.84	AZL	88.98	HCA	72.51	SMA	104.77	ECC	.45145	INC	1.0162	V1	29.864
RP	107.63	LAP	.97	LOP	92.95	VP	34.632	GAP	-26.79	AZP	89.69	TAL	167.60	TAP	240.11	RCA	57.47	APO	152.07	V2	35.209
RC	47.809	GL	2.59	GP	-5.65	ZAL	60.07	ZAP	16.63	ETS	157.75	ZAE	152.77	ETE	199.77	ZAC	30.44	ETC	136.12	CLP	15.66

PLANETOCENTRIC CONIC

C3 76.373 VHL 8.739 DLA -12.23 RAL 321.97 RAD 6569.5 VEL 14.061 PTH 2.56 VHP 16.140 DPA -29.58 RAP 290.98 ECC 2.2569

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 54 6	2155.31	-18.09	37.76	202.99	112.17	9 30 1	1555.3	-14.92	30.52
90.00	17 42 56	5578.33	28.24	260.60	212.70	92.11	19 15 55	4978.3	28.24	251.93
100.00	10 9 11	1913.05	-19.58	19.30	202.34	113.05	10 41 4	1313.0	-16.29	12.05
100.00	19 10 32	5295.83	29.86	239.88	212.76	91.46	20 38 48	4695.8	29.74	231.07
110.00	11 3 18	1743.54	-23.52	4.52	200.42	115.55	11 32 22	1143.5	-19.88	357.27
110.00	20 32 54	5038.10	34.18	220.36	212.81	89.69	21 56 52	4438.1	33.76	211.14

DIFFERENTIAL CORRECTIONS								MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TDE	-.5139	TRA	-1.5551	TC3	-.1470	BAU	.1566	SGT	1126.0	SGR	470.1	SG3	59.1	ST	459.9	SR	404.8	SS	418.6
RDE	-.6077	RRA	.3540	RC3	-.0438	FAU	.01561	RRT	-.1772	RRF	.1766	RTF	-.7605	CRT	.6015	CRS	.7186	CST	.9865
FDE	.3800	FRA	.8311	FC3	-.1769	BSP	3339	SGB	1220.2	R23	-.0149	R13	.7615	LSA	687.3	MSA	279.4	SSA	15.1
BDE	.7959	BRA	1.5949	BC3	.1534	FSP	-140	SG1	1129.7	SG2	461.2	THA	174.92	EL1	549.7	EL2	270.6	ALF	38.99

LAUNCH DATE OCT 14 1965 FLIGHT TIME 86.00 ARRIVAL DATE JAN 8 1966

DISTANCE 193.233

HELIOCENTRIC CONIC

RL	149.20	LAL	.00	LOL	20.44	VL	23.018	GAL	9.34	AZL	88.81	HCA	75.75	SMA	106.24	ECC	.43078	INC	1.1880	VI	29.864
RP	107.61	LAP	1.15	LOP	96.18	VP	34.892	GAP	-25.51	AZP	89.71	TAL	167.20	TAP	242.95	RCA	60.47	APO	152.01	V2	35.217
RC	46.433	GL	3.24	GP	-5.93	ZAL	59.45	ZAP	15.35	ETS	154.96	ZAE	154.18	ETE	203.06	ZAC	31.96	ETC	137.89	CLP	14.19

PLANETOCENTRIC CONIC

C3	69.278	VHL	8.323	DLA	-11.41	RAL	322.37	RAD	6569.3	VEL	13.807	PTH	2.52	VHP	15.441	DPA	-29.67	RAP	293.03	ECC	2.1401

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 48 52	2159.87	-18.20	38.05	201.99	112.07	9 24 52	1559.9	-15.05	30.79
90.00	17 51 24	5528.07	28.32	256.92	210.94	90.27	19 23 32	4928.1	28.05	248.27
100.00	10 4 27	1916.01	-19.66	19.48	201.35	112.98	10 36 23	1316.0	-16.38	12.22
100.00	19 18 30	5247.16	29.89	236.26	210.93	89.56	20 45 57	4647.2	29.51	227.47
110.00	10 59 40	1743.10	-23.51	4.50	199.48	115.56	11 28 43	1143.1	-19.87	357.24
110.00	20 39 47	4992.83	34.11	216.82	210.81	87.60	22 2 59	4392.8	33.40	207.65

DIFFERENTIAL CORRECTIONS

TDE	-.5185	TRA	-1.5596	TC3	-.1477	BAU	.1450
RDE	-.5708	RRA	.3477	RC3	-.0518	FAU	.01607
FDE	.4034	FRA	.8625	FC3	-.2008	BSP	3474
BDE	.7711	BRA	1.5979	BC3	.1565	FSP	-154

MID-COURSE EXECUTION ACCURACY

SGT	1177.9	SGR	470.6	SG3	64.4		
RRT	-.1913	RRF	.1927	RTF	-.7748		
SGB	1268.4	R23	-.0181	R13	.7759		
SG1	1182.0	SG2	460.3	THA	174.85		

ORBIT DETERMINATION ACCURACY

ST	485.2	SR	399.7	SS	442.9		
CRT	.5991	CRS	.7217	CST	.9854		
LSA	715.8	MSA	280.5	SSA	15.3		
EL1	565.5	EL2	274.6	ALF	35.98		

LAUNCH DATE OCT 14 1965 FLIGHT TIME 88.00 ARRIVAL DATE JAN 10 1966

DISTANCE 199.830

HELIOCENTRIC CONIC

RL	149.20	LAL	.00	LOL	20.44	VL	23.376	GAL	8.86	AZL	88.64	HCA	78.98	SMA	107.67	ECC	.41106	INC	1.3551	VI	29.864
RP	107.58	LAP	1.33	LOP	99.42	VP	35.137	GAP	-24.27	AZP	89.74	TAL	166.85	TAP	245.83	RCA	63.41	APO	151.93	V2	35.224
RC	45.168	GL	3.95	GP	-6.22	ZAL	58.91	ZAP	14.14	ETS	151.57	ZAE	155.63	ETE	206.97	ZAC	33.53	ETC	139.48	CLP	12.72

PLANETOCENTRIC CONIC

C3	62.897	VHL	7.931	DLA	-10.56	RAL	322.69	RAD	6569.2	VEL	13.574	PTH	2.48	VHP	14.766	DPA	-29.76	RAP	295.09	ECC	2.0351

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 43 9	2164.92	-18.33	38.36	200.89	111.97	9 19 14	1564.9	-15.19	31.09
90.00	17 59 40	5476.78	28.27	253.17	209.04	88.39	19 30 57	4876.8	27.75	244.54
100.00	9 59 14	1919.46	-19.75	19.70	200.27	112.91	10 31 14	1319.5	-16.48	12.43
100.00	19 26 16	5197.46	29.81	232.57	208.98	87.62	20 52 54	4597.5	29.16	223.82
110.00	10 55 33	1743.13	-23.51	4.50	198.45	115.56	11 24 36	1143.1	-19.87	357.24
110.00	20 46 27	4946.56	33.92	213.22	208.69	85.48	22 8 54	4346.6	32.92	204.13

DIFFERENTIAL CORRECTIONS

TDE	-.5207	TRA	-1.5610	TC3	-.1453	BAU	.1325
RDE	-.5344	RRA	.3414	RC3	-.0609	FAU	.01659
FDE	.4282	FRA	.8949	FC3	-.2284	BSP	3668
BDE	.7461	BRA	1.5979	BC3	.1576	FSP	-170

MID-COURSE EXECUTION ACCURACY

SGT	1229.1	SGR	470.5	SG3	70.2		
RRT	-.2080	RRF	.2109	RTF	-.7888		
SGB	1316.1	R23	-.0207	R13	.7900		
SG1	1233.6	SG2	458.5	THA	174.71		

ORBIT DETERMINATION ACCURACY

ST	509.9	SR	393.4	SS	468.3		
CRT	.5951	CRS	.7241	CST	.9841		
LSA	744.9	MSA	280.9	SSA	15.4		
EL1	581.2	EL2	277.4	ALF	33.10		

LAUNCH DATE OCT 14 1965 FLIGHT TIME 90.00 ARRIVAL DATE JAN 12 1966

DISTANCE 206.466

HELIOCENTRIC CONIC

RL	149.20	LAL	.00	LOL	20.44	VL	23.709	GAL	8.40	AZL	88.48	HCA	82.22	SMA	109.06	ECC	.39229	INC	1.5185	VI	29.864
RP	107.56	LAP	1.50	LOP	102.66	VP	35.367	GAP	-23.08	AZP	89.79	TAL	166.54	TAP	248.76	RCA	66.28	APO	151.85	V2	35.231
RC	44.025	GL	4.72	GP	-6.55	ZAL	58.45	ZAP	13.00	ETS	147.44	ZAE	157.07	ETE	211.65	ZAC	35.13	ETC	140.90	CLP	11.25

PLANETOCENTRIC CONIC

C3	57.163	VHL	7.561	DLA	-9.68	RAL	322.93	RAD	6569.0	VEL	13.361	PTH	2.44	VHP	14.115	DPA	-29.86	RAP	297.15	ECC	1.9408

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 36 55	2170.69	-18.48	38.72	199.71	111.84	9 13 6	1570.7	-15.35	31.44
90.00	18 7 45	5424.45	28.12	249.35	207.03	86.48	19 38 10	4824.5	27.33	240.77
100.00	9 53 30	1923.63	-19.86	19.96	199.11	112.81	10 25 34	1323.6	-16.60	12.68
100.00	19 33 52	5146.75	29.60	228.81	206.92	85.65	20 59 38	4546.7	28.69	220.13
110.00	10 50 55	1743.84	-23.53	4.54	197.34	115.54	11 19 59	1143.8	-19.89	357.29
110.00	20 52 56	4899.30	33.60	209.57	206.46	83.34	22 14 35	4299.3	32.32	200.57

DIFFERENTIAL CORRECTIONS

TDE	-.5230	TRA	-1.5611	TC3	-.1406	BAU	.1205
RDE	-.4986	RRA	.3352	RC3	-.0714	FAU	.01718
FDE	.4549	FRA	.9287	FC3	-.2601	BSP	3869
BDE	.7226	BRA	1.5967	BC3	.1577	FSP	-188

MID-COURSE EXECUTION ACCURACY

SGT	1281.7	SGR	470.0	SG3	76.5		
RRT	-.2267	RRF	.2313	RTF	-.8021		
SGB	1365.1	R23	-.0237	R13	.8034		
SG1	1286.7	SG2	455.9	THA	174.56		

ORBIT DETERMINATION ACCURACY

ST	535.5	SR	385.7	SS	495.2		
CRT	.5905	CRS	.7258	CST	.9828		
LSA	775.8	MSA	280.3	SSA	15.6		
EL1	598.2	EL2	278.7	ALF	30.25		

LAUNCH DATE OCT 14 1965 FLIGHT TIME 92.00 ARRIVAL DATE JAN 14 1966

DISTANCE 213.136

HELIOCENTRIC CONIC

RL	149.20	LAL	.00	LOL	20.44	VL	24.020	GAL	7.95	AZL	88.32	HCA	85.46	SMA	110.41	ECC	.37446	INC	1.6795	VI	29.864
RP	107.55	LAP	1.67	LOP	105.90	VP	35.581	GAP	-21.94	AZP	89.87	TAL	166.28	TAP	251.74	RCA	69.06	APO	151.75	V2	35.237
RC	43.015	GL	5.55	GP	-6.92	ZAL	58.07	ZAP	11.95	ETS	142.38	ZAE	158.45	ETE	217.25	ZAC	36.77	ETC	142.18	CLP	9.77

PLANETOCENTRIC CONIC

C3	52.015	VHL	7.212	DLA	-8.75	RAL	323.07	RAD	6568.9	VEL	13.167	PTH	2.40	VHP	13.488	DPA	-29.97	RAP	299.21	ECC	1.8560

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 30 7	2177.46	-18.65	39.14	198.45	111.70	9 6 24	1577.5	-15.54	31.85
90.00	18 15 42	5371.10	27.83	245.47	204.93	84.55	19 45 13	4771.1	26.78	236.96
100.00	9 47 12	1928.78	-20.00	20.28	197.87	112.69	10 19 21	1328.8	-16.75	12.99
100.00	19 41 18	5095.02	29.28	225.00	204.76	83.67	21 6 13	4495.0	28.09	216.40
110.00	10 45 44	1745.47	-23.58	4.64	196.15	115.50	11 14 50	1145.5	-19.95	357.38
110.00	20 59 15	4851.09	33.16	205.87	204.15	81.19	22 20 6	4251.1	31.59	197.00

DIFFERENTIAL CORRECTIONS

TDE	-.5253	TRA	-1.5600	TC3	-.1332	BAU	.1093
RDE	-.4634	RRA	.3293	RC3	-.0834	FAU	.01782
FDE	.4838	FRA	.9643	FC3	-.2966	BSP	4074
BDE	.7005	BRA	1.5944	BC3	.1571	FSP	-208

MID-COURSE EXECUTION ACCURACY

SGT	1335.4	SGR	469.1	SG3	83.4		
RRT	-.2476	RRF	.2543	RTF	-.8147		
SGB	1415.4	R23	-.0272	R13	.8161		
SG1	1341.1	SG2	452.5	THA	174.39		

ORBIT DETERMINATION ACCURACY

ST	561.8	SR	376.6	SS	523.7		
CRT	.5850	CRS	.7266	CST	.9814		
LSA	808.6	MSA	278.9	SSA	15.7		
EL1	616.4	EL2	278.4	ALF	27.46		

LAUNCH DATE OCT 14 1965 FLIGHT TIME 94.00 ARRIVAL DATE JAN 16 1966

HELIOCENTRIC CONIC DISTANCE 219.836

RL	149.20	LAL	.00	LOL	20.44	VL	24.309	GAL	7.51	AZL	88.16	HCA	88.70	SMA	111.71	ECC	.35756	INC	1.8391	V1	29.864
RP	107.53	LAP	1.84	LOP	109.14	VP	35.782	GAP	-20.85	AZP	89.96	TAL	166.06	TAP	254.76	RCA	71.76	APO	151.65	V2	35.242
RC	42.147	GL	6.45	GP	-7.32	ZAL	57.77	ZAP	11.04	ETS	136.24	ZAE	159.69	ETE	223.89	ZAC	38.43	ETC	143.32	CLP	8.29

PLANETOCENTRIC CONIC

C3	47.400	VHL	6.885	DLA	-7.78	RAL	323.12	RAD	6568.8	VEL	12.991	PTH	2.37	VHP	12.883	DPA	-30.09	RAP	301.27	ECC	1.7801

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 22 43	2185.50	-18.85	39.65	197.14	111.53	8 59 8	1585.5	-15.76	32.34
90.00	18 23 33	5316.71	27.42	241.55	202.74	82.63	19 52 9	4716.7	26.11	233.12
100.00	9 40 18	1935.18	-20.16	20.68	196.57	112.55	10 12 33	1335.2	-16.93	13.38
100.00	19 48 38	5042.27	28.82	221.14	202.52	81.69	21 12 40	4442.3	27.37	212.64
110.00	10 40 0	1748.28	-23.66	4.82	194.90	115.43	11 9 8	1148.3	-20.04	357.55
110.00	21 5 26	4801.93	32.59	202.15	201.77	79.06	22 25 28	4201.9	30.74	193.42

DIFFERENTIAL CORRECTIONS

TDE	-.5280	TRA	-1.5579	TC3	-.1228	BAU	.0992
RDE	-.4286	RRA	.3237	RC3	-.0970	FAU	.01853
FDE	.5154	FRA	1.0019	FC3	-.3385	BSP	4280
BDE	.6801	BRA	1.5912	BC3	.1565	FSP	-230

MID-COURSE EXECUTION ACCURACY

SGT	1390.7	SGR	468.0	SG3	91.0				
RRT	-.2712	RRF	.2801	RTF	-.8267				
SGB	1467.3	R23	-.0311	R13	.8281				
SG1	1397.1	SG2	448.4	THA	174.18				

ORBIT DETERMINATION ACCURACY

ST	589.3	SR	365.9	SS	554.2				
CRT	.5785	CRS	.7264	CST	.9800				
LSA	843.6	MSA	276.5	SSA	15.9				
EL1	636.2	EL2	276.5	ALF	24.73				

LAUNCH DATE OCT 14 1965 FLIGHT TIME 96.00 ARRIVAL DATE JAN 18 1966

HELIOCENTRIC CONIC DISTANCE 226.560

RL	149.20	LAL	.00	LOL	20.44	VL	24.578	GAL	7.10	AZL	88.00	HCA	91.94	SMA	112.95	ECC	.34156	INC	1.9983	V1	29.864
RP	107.51	LAP	2.00	LOP	112.38	VP	35.970	GAP	-19.79	AZP	90.07	TAL	165.89	TAP	257.84	RCA	74.37	APO	151.54	V2	35.247
RC	41.430	GL	7.43	GP	-7.76	ZAL	57.55	ZAP	10.30	ETS	128.88	ZAE	160.69	ETE	231.64	ZAC	40.12	ETC	144.34	CLP	6.79

PLANETOCENTRIC CONIC

C3	43.268	VHL	6.578	DLA	-6.76	RAL	323.09	RAD	6568.6	VEL	12.831	PTH	2.34	VHP	12.300	DPA	-30.23	RAP	303.34	ECC	1.7121

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 14 39	2195.12	-19.09	40.25	195.76	111.32	8 51 15	1595.1	-16.03	32.92
90.00	18 31 18	5261.27	26.87	237.58	200.48	80.71	19 58 59	4661.3	25.31	229.26
100.00	9 32 47	1943.11	-20.37	21.18	195.22	112.36	10 5 10	1343.1	-17.16	13.86
100.00	19 55 52	4988.51	28.23	217.26	200.22	79.73	21 19 0	4388.5	26.52	208.87
110.00	10 33 39	1752.53	-23.78	5.09	193.59	115.31	11 2 51	1152.5	-20.17	357.80
110.00	21 11 29	4751.85	31.88	198.42	199.35	76.96	22 30 41	4151.9	29.76	189.85

DIFFERENTIAL CORRECTIONS

TDE	-.5312	TRA	-1.5544	TC3	-.1087	BAU	.0905
RDE	-.3942	RRA	.3188	RC3	-.1125	FAU	.01932
FDE	.5502	FRA	1.0415	FC3	-.3866	BSP	4488
BDE	.6615	BRA	1.5867	BC3	.1764	FSP	-254

MID-COURSE EXECUTION ACCURACY

SGT	1446.8	SGR	466.9	SG3	99.4				
RRT	-.2978	RRF	.3094	RTF	-.8380				
SGB	1520.3	R23	-.0355	R13	.8396				
SG1	1454.2	SG2	443.5	THA	173.94				

ORBIT DETERMINATION ACCURACY

ST	617.5	SR	353.5	SS	586.9				
CRT	.5706	CRS	.7248	CST	.9786				
LSA	880.8	MSA	273.2	SSA	16.0				
EL1	657.2	EL2	272.8	ALF	22.09				

LAUNCH DATE OCT 14 1965 FLIGHT TIME 98.00 ARRIVAL DATE JAN 20 1966

HELIOCENTRIC CONIC DISTANCE 233.304

RL	149.20	LAL	.00	LOL	20.44	VL	24.827	GAL	6.69	AZL	87.84	HCA	95.19	SMA	114.15	ECC	.32646	INC	2.1582	V1	29.864
RP	107.50	LAP	2.15	LOP	115.63	VP	36.145	GAP	-18.77	AZP	90.20	TAL	165.77	TAP	260.96	RCA	76.89	APO	151.42	V2	35.251
RC	40.873	GL	8.49	GP	-8.26	ZAL	57.42	ZAP	9.79	ETS	120.31	ZAE	161.33	ETE	240.37	ZAC	41.84	ETC	145.24	CLP	5.28

PLANETOCENTRIC CONIC

C3	39.577	VHL	6.291	DLA	-5.69	RAL	322.96	RAD	6568.5	VEL	12.686	PTH	2.30	VHP	11.738	DPA	-30.40	RAP	305.40	ECC	1.6513

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 5 55	2206.63	-19.37	40.98	194.34	111.06	8 42 42	1606.6	-16.34	33.62
90.00	18 39 1	5204.77	26.19	233.59	198.19	78.82	20 5 45	4604.8	24.38	225.38
100.00	9 24 34	1952.90	-20.62	21.80	193.82	112.13	9 57 7	1352.9	-17.44	14.45
100.00	20 3 3	4933.73	27.50	213.35	197.88	77.79	21 25 16	4333.7	25.54	205.10
110.00	10 26 39	1758.52	-23.96	5.47	192.24	115.15	10 55 58	1158.5	-20.37	358.16
110.00	21 17 27	4700.87	31.04	194.69	196.90	74.90	22 35 48	4100.9	28.65	186.30

DIFFERENTIAL CORRECTIONS

TDE	-.5352	TRA	-1.5498	TC3	-.0912	BAU	.0840
RDE	-.3601	RRA	.3146	RC3	-.1300	FAU	.02019
FDE	.5887	FRA	1.0836	FC3	-.4416	BSP	4697
BDE	.6451	BRA	1.5814	BC3	.1588	FSP	-281

MID-COURSE EXECUTION ACCURACY

SGT	1504.3	SGR	466.0	SG3	108.6				
RRT	-.3278	RRF	.3425	RTF	-.8486				
SGB	1574.8	R23	-.0408	R13	.8503				
SG1	1512.7	SG2	437.8	THA	173.67				

ORBIT DETERMINATION ACCURACY

ST	647.1	SR	339.2	SS	622.1				
CRT	.5610	CRS	.7212	CST	.9773				
LSA	920.9	MSA	269.1	SSA	16.1				
EL1	680.0	EL2	267.2	ALF	19.52				

LAUNCH DATE OCT 14 1965 FLIGHT TIME 100.00 ARRIVAL DATE JAN 22 1966

HELIOCENTRIC CONIC DISTANCE 240.066

RL	149.20	LAL	.00	LOL	20.44	VL	25.059	GAL	6.31	AZL	87.68	HCA	98.43	SMA	115.30	ECC	.31222	INC	2.3198	V1	29.864
RP	107.49	LAP	2.29	LOP	118.88	VP	36.308	GAP	-17.79	AZP	90.34	TAL	165.70	TAP	264.13	RCA	79.30	APO	151.30	V2	35.254
RC	40.482	GL	9.63	GP	-8.81	ZAL	57.39	ZAP	9.57	ETS	110.80	ZAE	161.54	ETE	249.77	ZAC	43.57	ETC	146.03	CLP	3.75

PLANETOCENTRIC CONIC

C3	36.288	VHL	6.024	DLA	-4.55	RAL	322.74	RAD	6568.4	VEL	12.556	PTH	2.28	VHP	11.197	DPA	-30.60	RAP	307.46	ECC	1.5972

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 56 26	2220.36	-19.71	41.85	192.89	110.75	8 33 27	1620.4	-16.71	34.46
90.00	18 46 43	5147.19	25.36	229.57	195.86	76.97	20 12 30	4547.2	23.32	221.50
100.00	9 15 39	1964.85	-20.93	22.55	192.39	111.85	9 48 24	1364.9	-17.78	15.17
100.00	20 10 12	4877.93	26.63	209.43	195.52	75.90	21 31 30	4277.9	24.43	201.32
110.00	10 18 59	1766.54	-24.19	5.98	190.86	114.93	10 48 26	1166.5	-20.62	358.64
110.00	21 23 21	4649.00	30.06	190.96	194.44	72.89	22 40 50	4049.0	27.42	182.76

DIFFERENTIAL CORRECTIONS

TDE	-.5399	TRA	-1.5437	TC3	-.0690	BAU	.0800
RDE	-.3260	RRA	.3113	RC3	-.1498	FAU	.02115
FDE	.6316	FRA	1.1283	FC3	-.5047	BSP	4908
BDE	.6307	BRA	1.5748	BC3	.1649	FSP	-311

MID-COURSE EXECUTION ACCURACY

SGT	1562.1	SGR	465.8	SG3	118.8				
RRT	-.3618	RRF	.3798	RTF	-.8586				
SGB	1630.1	R23	-.0467	R13	.8605				
SG1	1571.9	SG2	431.5	THA	173.34				

ORBIT DETERMINATION ACCURACY

ST	677.5	SR	322.7	SS	660.1				
CRT	.5484	CRS	.7150	CST	.9760				
LSA	963.8	MSA	264.2	SSA	16.2				
EL1	704.1	EL2	259.7	ALF	17.02				

LAUNCH DATE OCT 14 1965 FLIGHT TIME 102.00 ARRIVAL DATE JAN 24 1966

HELIOCENTRIC CONIC DISTANCE 246.839

RL 149.20 LAL .00 LOL 20.44 VL 25.274 GAL 5.94 AZL 87.52 HCA 101.67 SMA 116.39 ECC .29883 INC 2.4841 V1 29.864
RP 107.48 LAP 2.43 LOP 122.12 VP 36.459 GAP -16.84 AZP 90.50 TAL 165.68 TAP 267.35 RCA 81.61 APO 151.18 V2 35.256
RC 40.263 GL 10.87 GP -9.42 ZAL 57.44 ZAP 9.67 ETS 100.90 ZAE 161.24 ETE 259.28 ZAC 45.32 ETC 146.72 CLP 2.20

PLANETOCENTRIC CONIC

C3 33.365 VHL 5.776 DLA -3.35 RAL 322.42 RAD 6568.3 VEL 12.439 PTH 2.25 VHP 10.678 DPA -30.84 RAP 309.52 ECC 1.5491

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 46 10	2236.66	-20.10	42.88	191.43	110.38	8 23 27	1636.7	-17.14	35.46
90.00	18 54 28	5088.49	24.40	225.54	193.53	75.17	20 19 17	4488.5	22.13	217.61
100.00	9 5 57	1979.31	-21.29	23.47	190.94	111.49	9 38 56	1379.3	-18.18	16.06
100.00	20 17 23	4821.07	25.63	205.50	193.16	74.07	21 37 44	4221.1	23.20	197.55
110.00	10 10 37	1776.90	-24.48	6.64	189.46	114.64	10 40 13	1176.9	-20.95	359.27
110.00	21 29 13	4596.24	28.94	187.26	191.98	70.96	22 45 49	3996.2	26.07	179.26

DIFFERENTIAL CORRECTIONS
TDE -.5458 TRA-1.5364 TC3 -.0429 BAU .0791
RDE -.2919 RRA .3091 RC3 -.1720 FAU .02221
FDE .6797 FRA 1.1759 FC3 -.5762 BSP 5121
BDE .6190 BRA 1.5671 BC3 .1773 FSP -344

MID-COURSE EXECUTION ACCURACY
SGT 1620.5 SGR 466.6 SG3 130.0
RRT -.3998 RRF .4217 RTF -.8679
SGB 1686.3 R23 -.0535 R13 .8701
SG1 1631.9 SG2 424.6 THA 172.95

ORBIT DETERMINATION ACCURACY
ST 709.1 SR 303.9 SS 701.2
CRT .5316 CRS .7047 CST .9749
LSA 1009.9 MSA 258.5 SSA 16.2
EL1 729.8 EL2 250.1 ALF 14.59

LAUNCH DATE OCT 14 1965 FLIGHT TIME 104.00 ARRIVAL DATE JAN 26 1966

HELIOCENTRIC CONIC DISTANCE 253.621

RL 149.20 LAL .00 LOL 20.44 VL 25.474 GAL 5.59 AZL 87.35 HCA 104.92 SMA 117.44 ECC .28627 INC 2.6523 V1 29.864
RP 107.48 LAP 2.56 LOP 125.37 VP 36.599 GAP -15.93 AZP 90.68 TAL 165.70 TAP 270.62 RCA 83.82 APO 151.05 V2 35.258
RC 40.219 GL 12.21 GP -10.11 ZAL 57.59 ZAP 10.13 ETS 91.30 ZAE 160.44 ETE 268.31 ZAC 47.09 ETC 147.31 CLP .62

PLANETOCENTRIC CONIC

C3 30.779 VHL 5.548 DLA -2.08 RAL 322.01 RAD 6568.2 VEL 12.335 PTH 2.22 VHP 10.178 DPA -31.14 RAP 311.57 ECC 1.5065

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 35 4	2255.90	-20.55	44.12	189.95	109.92	8 12 40	1655.9	-17.65	36.64
90.00	19 2 19	5028.63	23.30	221.50	191.21	73.43	20 26 8	4428.6	20.81	213.72
100.00	8 55 27	1996.63	-21.72	24.58	189.49	111.06	9 28 43	1396.6	-18.66	17.12
100.00	20 24 38	4763.14	24.49	201.58	190.81	72.30	21 44 1	4163.1	21.84	193.78
110.00	10 1 28	1789.94	-24.85	7.47	188.06	114.27	10 31 18	1189.9	-21.36	.06
110.00	21 35 5	4542.60	27.69	183.59	189.56	69.11	22 50 48	3942.6	24.60	175.78

DIFFERENTIAL CORRECTIONS
TDE -.5517 TRA-1.5268 TC3 -.0101 BAU .0811
RDE -.2574 RRA .3084 RC3 -.1969 FAU .02337
FDE .7340 FRA 1.2267 FC3 -.6572 BSP 5366
BDE .6088 BRA 1.5576 BC3 .1972 FSP -381

MID-COURSE EXECUTION ACCURACY
SGT 1677.6 SGR 469.0 SG3 142.3
RRT -.4435 RRF .4683 RTF -.8772
SGB 1741.9 R23 -.0599 R13 .8796
SG1 1691.3 SG2 417.0 THA 172.47

ORBIT DETERMINATION ACCURACY
ST 740.8 SR 282.6 SS 746.1
CRT .5074 CRS .6883 CST .9737
LSA 1058.9 MSA 252.4 SSA 16.2
EL1 756.1 EL2 238.6 ALF 12.19

LAUNCH DATE OCT 14 1965 FLIGHT TIME 106.00 ARRIVAL DATE JAN 28 1966

HELIOCENTRIC CONIC DISTANCE 260.408

RL 149.20 LAL .00 LOL 20.44 VL 25.658 GAL 5.25 AZL 87.17 HCA 108.16 SMA 118.42 ECC .27450 INC 2.8257 V1 29.864
RP 107.48 LAP 2.68 LOP 128.62 VP 36.729 GAP -15.04 AZP 90.88 TAL 165.78 TAP 273.93 RCA 85.92 APO 150.93 V2 35.259
RC 40.350 GL 13.65 GP -10.88 ZAL 57.85 ZAP 10.93 ETS 82.63 ZAE 159.19 ETE 276.40 ZAC 48.87 ETC 147.81 CLP -.98

PLANETOCENTRIC CONIC

C3 28.502 VHL 5.339 DLA -.73 RAL 321.51 RAD 6568.1 VEL 12.242 PTH 2.20 VHP 9.700 DPA -31.50 RAP 313.62 ECC 1.4691

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 23 4	2278.47	-21.07	45.57	188.49	109.37	8 1 2	1678.5	-18.23	38.04
90.00	19 10 19	4967.57	22.06	217.46	188.91	71.78	20 33 7	4367.6	19.36	209.82
100.00	8 44 4	2017.17	-22.21	25.91	188.04	110.53	9 17 41	1417.2	-19.22	18.39
100.00	20 32 0	4704.10	23.21	197.66	188.49	70.62	21 50 24	4104.1	20.35	190.02
110.00	9 51 32	1805.97	-25.29	8.50	186.67	113.80	10 21 38	1206.0	-21.86	1.03
110.00	21 41 1	4488.06	26.32	179.94	187.17	67.35	22 55 49	3888.1	23.01	172.34

DIFFERENTIAL CORRECTIONS
TDE -.5620 TRA-1.5175 TC3 .0244 BAU .0861
RDE -.2222 RRA .3093 RC3 -.2247 FAU .02464
FDE .7956 FRA 1.2812 FC3 -.7486 BSP 5556
BDE .6043 BRA 1.5487 BC3 .2261 FSP -421

MID-COURSE EXECUTION ACCURACY
SGT 1737.1 SGR 474.0 SG3 156.0
RRT -.4895 RRF .5196 RTF -.8851
SGB 1800.6 R23 -.0697 R13 .8879
SG1 1753.4 SG2 409.5 THA 171.95

ORBIT DETERMINATION ACCURACY
ST 776.2 SR 258.6 SS 794.9
CRT .4743 CRS .6621 CST .9732
LSA 1113.9 MSA 245.4 SSA 16.3
EL1 786.7 EL2 224.6 ALF 9.78

LAUNCH DATE OCT 14 1965 FLIGHT TIME 108.00 ARRIVAL DATE JAN 30 1966

HELIOCENTRIC CONIC DISTANCE 267.197

RL 149.20 LAL .00 LOL 20.44 VL 25.829 GAL 4.93 AZL 86.99 HCA 111.40 SMA 119.36 ECC .26351 INC 3.0057 V1 29.864
RP 107.48 LAP 2.80 LOP 131.87 VP 36.848 GAP -14.19 AZP 91.10 TAL 165.89 TAP 277.29 RCA 87.91 APO 150.81 V2 35.259
RC 40.657 GL 15.19 GP -11.75 ZAL 58.20 ZAP 12.04 ETS 75.20 ZAE 157.56 ETE 283.29 ZAC 50.67 ETC 148.22 CLP -2.63

PLANETOCENTRIC CONIC

C3 26.510 VHL 5.149 DLA .70 RAL 320.92 RAD 6568.1 VEL 12.161 PTH 2.18 VHP 9.241 DPA -31.95 RAP 315.67 ECC 1.4363

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 10 6	2304.75	-21.65	47.28	187.06	108.71	7 48 31	1704.8	-18.90	39.68
90.00	19 18 33	4905.21	20.67	213.41	186.67	70.21	20 40 18	4305.2	17.79	205.92
100.00	8 31 46	2041.32	-22.78	27.47	186.63	109.89	9 5 47	1441.3	-19.86	19.89
100.00	20 39 34	4643.88	21.80	193.74	186.22	69.02	21 56 57	4043.9	18.75	186.27
110.00	9 40 46	1825.36	-25.82	9.76	185.31	113.22	10 11 11	1225.4	-22.45	2.23
110.00	21 47 3	4432.60	24.81	176.34	184.85	65.70	23 0 56	3832.6	21.32	168.93

DIFFERENTIAL CORRECTIONS
TDE -.5728 TRA-1.5060 TC3 .0644 BAU .0934
RDE -.1859 RRA .3121 RC3 -.2557 FAU .02603
FDE .8658 FRA 1.3394 FC3 -.8502 BSP 5773
BDE .6022 BRA 1.5380 BC3 .2637 FSP -466

MID-COURSE EXECUTION ACCURACY
SGT 1794.4 SGR 482.5 SG3 171.0
RRT -.5403 RRF .5749 RTF -.8928
SGB 1858.1 R23 -.0797 R13 .8960
SG1 1814.2 SG2 401.5 THA 171.30

ORBIT DETERMINATION ACCURACY
ST 811.9 SR 231.8 SS 848.3
CRT .4223 CRS .6193 CST .9727
LSA 1172.8 MSA 238.3 SSA 16.2
EL1 818.2 EL2 208.5 ALF 7.35

LAUNCH DATE OCT 14 1965 FLIGHT TIME 110.00 ARRIVAL DATE FEB 1 1966

HELIOCENTRIC CONIC DISTANCE 273.985

RL	149.20	LAL	.00	LOL	20.44	VL	25.986	GAL	4.63	AZL	86.81	HCA	114.65	SMA	120.24	ECC	.25326	INC	3.1939	VI	29.864
RP	107.48	LAP	2.90	LOP	135.12	VP	36.958	GAP	-13.37	AZP	91.33	TAL	166.05	TAP	280.70	RCA	89.79	APO	150.69	V2	35.258
RC	41.135	GL	16.85	GP	-12.73	ZAL	58.65	ZAP	13.43	ETS	69.08	ZAE	155.66	ETE	288.94	ZAC	52.48	ETC	148.54	CLP	-4.31

PLANETOCENTRIC CONIC

C3	24.782	VHL	4.978	DLA	2.22	RAL	320.23	RAD	6568.0	VEL	12.090	PTH	2.16	VHP	8.804	DPA	-32.49	RAP	317.72	ECC	1.4078

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 56 6	2335.19	-22.30	49.27	185.67	107.92	7 35 1	1735.2	-19.64	41.60
90.00	19 27 4	4841.48	19.15	209.35	184.48	68.73	20 47 46	4241.5	16.09	202.01
100.00	8 18 28	2069.48	-23.42	29.32	185.26	109.12	8 52 58	1469.5	-20.60	21.66
100.00	20 47 23	4582.42	20.25	189.84	184.01	67.53	22 3 45	3982.4	17.02	182.52
110.00	9 29 5	1848.44	-26.43	11.28	184.00	112.51	9 59 54	1248.4	-23.15	3.66
110.00	21 53 15	4376.22	23.18	172.77	182.60	64.15	23 6 11	3776.2	19.52	165.55

DIFFERENTIAL CORRECTIONS

TDE	-.5863	TRA	-1.4933	TC3	.1085	BAU	.1026
RDE	-.1479	RRA	.3173	RC3	-.2899	FAU	.02755
FDE	.9462	FRA	1.4016	FC3	-.9625	BSP	5982
BDE	.6046	BRA	1.5266	BC3	.3095	FSP	-516

MID-COURSE EXECUTION ACCURACY

SGT	1850.8	SGR	495.8	SG3	187.5		
RRT	-.5938	RRF	.6331	RTF	-.9000		
SGB	1916.1	R23	-.0911	R13	.9037		
SG1	1875.2	SG2	393.8	THA	170.54		

ORBIT DETERMINATION ACCURACY

ST	849.5	SR	202.6	SS	906.8		
CRT	.3384	CRS	.5464	CST	.9725		
LSA	1237.5	MSA	231.0	SSA	16.1		
EL1	852.4	EL2	190.0	ALF	4.86		

LAUNCH DATE OCT 14 1965 FLIGHT TIME 112.00 ARRIVAL DATE FEB 3 1966

HELIOCENTRIC CONIC DISTANCE 280.769

RL	149.20	LAL	.00	LOL	20.44	VL	26.131	GAL	4.34	AZL	86.61	HCA	117.89	SMA	121.07	ECC	.24372	INC	3.3921	VI	29.864
RP	107.48	LAP	3.00	LOP	138.37	VP	37.059	GAP	-12.57	AZP	91.59	TAL	166.25	TAP	284.14	RCA	91.56	APO	150.58	V2	35.257
RC	41.780	GL	18.63	GP	-13.85	ZAL	59.21	ZAP	15.08	ETS	64.16	ZAE	153.57	ETE	293.46	ZAC	54.31	ETC	148.77	CLP	-6.04

PLANETOCENTRIC CONIC

C3	23.301	VHL	4.827	DLA	3.83	RAL	319.45	RAD	6567.9	VEL	12.028	PTH	2.15	VHP	8.388	DPA	-33.15	RAP	319.77	ECC	1.3835

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 40 59	2370.24	-23.02	51.59	184.35	106.97	7 20 29	1770.2	-20.48	43.84
90.00	19 36 0	4776.24	17.49	205.29	182.38	67.37	20 55 36	4176.2	14.27	198.09
100.00	8 4 7	2102.08	-24.13	31.48	183.96	108.20	8 39 9	1502.1	-21.42	23.74
100.00	20 55 33	4519.63	18.56	185.93	181.90	66.14	22 10 52	3919.6	15.18	178.77
110.00	9 16 28	1875.61	-27.13	13.09	182.76	111.65	9 47 44	1275.6	-23.94	5.37
110.00	21 59 41	4318.87	21.44	169.23	180.43	62.71	23 11 39	3718.9	17.61	162.19

DIFFERENTIAL CORRECTIONS

TDE	-.6004	TRA	-1.4773	TC3	.1595	BAU	.1136
RDE	-.1075	RRA	.3251	RC3	-.3278	FAU	.02923
FDE	1.0378	FRA	1.4671	FC3	-1.0859	BSP	6239
BDE	.6100	BRA	1.5126	BC3	.3645	FSP	-573

MID-COURSE EXECUTION ACCURACY

SGT	1902.6	SGR	515.7	SG3	205.6		
RRT	-.6497	RRF	.6923	RTF	-.9070		
SGB	1971.3	R23	-.1022	R13	.9114		
SG1	1933.2	SG2	385.9	THA	169.59		

ORBIT DETERMINATION ACCURACY

ST	886.5	SR	172.7	SS	970.2		
CRT	.1940	CRS	.4155	CST	.9724		
LSA	1306.4	MSA	224.1	SSA	15.8		
EL1	887.2	EL2	169.3	ALF	2.25		

LAUNCH DATE OCT 14 1965 FLIGHT TIME 114.00 ARRIVAL DATE FEB 5 1966

HELIOCENTRIC CONIC DISTANCE 287.546

RL	149.20	LAL	.00	LOL	20.44	VL	26.265	GAL	4.07	AZL	86.40	HCA	121.13	SMA	121.85	ECC	.23488	INC	3.6025	VI	29.864
RP	107.49	LAP	3.08	LOP	141.62	VP	37.151	GAP	-11.81	AZP	91.86	TAL	166.48	TAP	287.61	RCA	93.23	APO	150.47	V2	35.255
RC	42.583	GL	20.52	GP	-15.11	ZAL	59.87	ZAP	16.98	ETS	60.29	ZAE	151.35	ETE	296.95	ZAC	56.17	ETC	148.91	CLP	-7.83

PLANETOCENTRIC CONIC

C3	22.055	VHL	4.696	DLA	5.54	RAL	318.59	RAD	6567.9	VEL	11.976	PTH	2.13	VHP	7.993	DPA	-33.95	RAP	321.84	ECC	1.3630

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 24 39	2410.42	-23.79	54.28	183.11	105.83	7 4 49	1810.4	-21.39	46.43
90.00	19 45 26	4709.34	15.69	201.20	180.38	66.12	21 3 56	4109.3	12.33	194.13
100.00	7 48 36	2139.61	-24.91	34.00	182.75	107.09	8 24 16	1539.6	-22.33	26.15
100.00	21 4 10	4455.38	16.75	182.02	179.88	64.87	22 18 25	3855.4	13.23	175.00
110.00	9 2 51	1907.25	-27.90	15.22	181.61	110.60	9 34 38	1307.3	-24.84	7.38
110.00	22 6 25	4260.51	19.57	165.73	178.37	61.40	23 17 25	3660.5	15.60	158.86

DIFFERENTIAL CORRECTIONS

TDE	-.6202	TRA	-1.4623	TC3	.2089	BAU	.1250
RDE	-.0635	RRA	.3363	RC3	-.3690	FAU	.03099
FDE	1.1447	FRA	1.5380	FC3	-1.2163	BSP	6445
BDE	.6235	BRA	1.5005	BC3	.4241	FSP	-633

MID-COURSE EXECUTION ACCURACY

SGT	1955.4	SGR	544.2	SG3	225.5		
RRT	-.7033	RRF	.7500	RTF	-.9132		
SGB	2029.7	R23	-.1162	R13	.9184		
SG1	1994.0	SG2	379.4	THA	168.50		

ORBIT DETERMINATION ACCURACY

ST	928.3	SR	146.3	SS	1040.8		
CRT	-.0588	CRS	.1716	CST	.9728		
LSA	1385.3	MSA	217.1	SSA	15.4		
EL1	928.4	EL2	146.0	ALF	179.46		

LAUNCH DATE OCT 14 1965 FLIGHT TIME 116.00 ARRIVAL DATE FEB 7 1966

HELIOCENTRIC CONIC DISTANCE 294.315

RL	149.20	LAL	.00	LOL	20.44	VL	26.388	GAL	3.82	AZL	86.17	HCA	124.37	SMA	122.58	ECC	.22670	INC	3.8278	VI	29.864
RP	107.50	LAP	3.16	LOP	144.87	VP	37.236	GAP	-11.06	AZP	92.16	TAL	166.75	TAP	291.12	RCA	94.79	APO	150.37	V2	35.252
RC	43.538	GL	22.54	GP	-16.56	ZAL	60.63	ZAP	19.11	ETS	57.27	ZAE	149.06	ETE	299.56	ZAC	58.05	ETC	148.96	CLP	-9.67

PLANETOCENTRIC CONIC

C3	21.033	VHL	4.586	DLA	7.35	RAL	317.64	RAD	6567.9	VEL	11.934	PTH	2.12	VHP	7.621	DPA	-34.92	RAP	323.93	ECC	1.3461

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 6 58	2456.32	-24.61	57.40	181.99	104.47	6 47 55	1856.3	-22.38	49.43
90.00	19 55 32	4640.56	13.75	197.08	178.51	65.00	21 12 53	4040.6	10.27	190.13
100.00	7 31 50	2182.59	-25.73	36.93	181.65	105.76	8 8 13	1582.6	-23.32	28.96
100.00	21 13 21	4389.52	14.81	178.10	177.98	63.73	22 26 31	3789.5	11.16	171.21
110.00	8 48 8	1943.81	-28.75	17.73	180.58	109.34	9 20 32	1343.8	-25.85	9.75
110.00	22 13 33	4201.06	17.60	162.25	176.44	60.21	23 23 34	3601.1	13.50	155.53

DIFFERENTIAL CORRECTIONS

TDE	-.6430	TRA	-1.4459	TC3	.2593	BAU	.1373
RDE	-.0148	RRA	.3514	RC3	-.4139	FAU	.03286
FDE	1.2677	FRA	1.6126	FC3	-1.3525	BSP	6649
BDE	.6432	BRA	1.4880	BC3	.4884	FSP	-699

MID-COURSE EXECUTION ACCURACY

SGT	2004.9	SGR	583.5	SG3	247.0		
RRT	-.7537	RRF	.8038	RTF	-.9190		
SGB	2088.0	R23	-.1310	R13	.9252		
SG1	2054.2	SG2	374.2	THA	167.20		

ORBIT DETERMINATION ACCURACY

ST	971.6	SR	134.6	SS	1117.6		
CRT	-.4420	CRS	-.2279	CST	.9736		
LSA	1471.9	MSA	210.7	SSA	15.0		
EL1	973.4	EL2	120.5	ALF	176.44		

LAUNCH DATE OCT 14 1965 FLIGHT TIME 118.00 ARRIVAL DATE FEB 9 1966

DISTANCE 301.072

HELIOCENTRIC CONIC

RL	149.20	LAL	.00	LOL	20.44	VL	26.500	GAL	3.58	AZL	85.93	HCA	127.61	SMA	123.26	ECC	.21916	INC	4.0712	VI	29.864
RP	107.51	LAP	3.22	LOP	148.12	VP	37.312	GAP	-10.34	AZP	92.49	TAL	167.04	TAP	294.65	RCA	96.24	APO	150.27	V2	35.249
RC	44.633	GL	24.68	GP	-18.21	ZAL	61.50	ZAP	21.48	ETS	54.94	ZAE	146.70	ETE	301.40	ZAC	59.97	ETC	148.92	CLP	-11.58

PLANETOCENTRIC CONIC

C3 20.230 VHL 4.498 DLA 9.27 RAL 316.61 RAD 6567.8 VEL 11.900 PTH 2.11 VHP 7.273 DPA -36.08 RAP 326.06 ECC 1.3329

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 47 48	2508.63	-25.45	61.00	181.00	102.86	6 29 37	1908.6	-23.42	52.91
90.00	20 6 28	4569.61	11.67	192.91	176.78	64.02	21 22 38	3969.6	8.08	186.07
100.00	7 13 41	2231.65	-26.60	40.32	180.69	104.17	7 50 53	1631.6	-24.39	32.22
100.00	21 23 17	4321.82	12.73	174.15	176.24	62.72	22 35 19	3721.8	8.97	167.37
110.00	8 32 15	1985.77	-29.66	20.65	179.70	107.82	9 5 21	1385.8	-26.94	12.52
110.00	22 21 12	4140.46	15.52	158.79	174.64	59.15	23 30 12	3540.5	11.31	152.21

DIFFERENTIAL CORRECTIONS

TDE	-.6701	TRA	-1.4287	TC3	.3070	BAU	.1500
RDE	.0403	RRA	.3711	RC3	-.4620	FAU	.03478
FDE	1.4099	FRA	1.6907	FC3	-1.4884	BSP	6843
BDE	.6713	BRA	1.4761	BC3	.5547	FSP	-770

MID-COURSE EXECUTION ACCURACY

SGT	2050.7	SGR	636.3	SG3	270.2		
RRT	-.7985	RRF	.8514	RTF	-.9242		
SGB	2147.1	R23	-.1466	R13	.9317		
SG1	2114.8	SG2	371.4	THA	165.63		

ORBIT DETERMINATION ACCURACY

ST	1017.2	SR	153.1	SS	1201.6		
CRT	-.7926	CRS	-.6382	CST	.9746		
LSA	1568.4	MSA	205.1	SSA	14.4		
EL1	1024.5	EL2	92.7	ALF	173.14		

LAUNCH DATE OCT 14 1965 FLIGHT TIME 120.00 ARRIVAL DATE FEB 11 1966

DISTANCE 307.816

HELIOCENTRIC CONIC

RL	149.20	LAL	.00	LOL	20.44	VL	26.603	GAL	3.35	AZL	85.66	HCA	130.85	SMA	123.89	ECC	.21222	INC	4.3368	VI	29.864
RP	107.52	LAP	3.28	LOP	151.37	VP	37.381	GAP	-9.65	AZP	92.84	TAL	167.35	TAP	298.21	RCA	97.60	APO	150.18	V2	35.244
RC	45.858	GL	26.94	GP	-20.11	ZAL	62.46	ZAP	24.10	ETS	53.18	ZAE	144.30	ETE	302.56	ZAC	61.94	ETC	148.78	CLP	-13.56

PLANETOCENTRIC CONIC

C3 19.645 VHL 4.432 DLA 11.29 RAL 315.50 RAD 6567.8 VEL 11.875 PTH 2.11 VHP 6.952 DPA -37.47 RAP 328.25 ECC 1.3233

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 26 56	2568.22	-26.28	65.16	180.18	100.93	6 9 44	1968.2	-24.51	56.94
90.00	20 18 29	4496.07	9.44	188.65	175.23	63.18	21 33 25	3896.1	5.77	181.90
100.00	6 53 58	2287.54	-27.47	44.24	179.91	102.28	7 32 5	1687.5	-25.50	36.00
100.00	21 34 8	4251.96	10.52	170.14	174.66	61.86	22 45 0	3652.0	6.67	163.46
110.00	8 15 5	2033.70	-30.61	24.06	179.00	106.01	8 48 58	1433.7	-28.12	15.76
110.00	22 29 30	4078.58	13.33	155.33	173.00	58.23	23 37 29	3478.6	9.03	148.87

DIFFERENTIAL CORRECTIONS

TDE	-.7013	TRA	-1.4096	TC3	.3522	BAU	.1635
RDE	.1040	RRA	.3962	RC3	-.5133	FAU	.03676
FDE	1.5731	FRA	1.7704	FC3	-1.6200	BSP	7043
BDE	.7089	BRA	1.4643	BC3	.6225	FSP	-846

MID-COURSE EXECUTION ACCURACY

SGT	2091.0	SGR	705.6	SG3	294.8		
RRT	-.8367	RRF	.8912	RTF	-.9290		
SGB	2206.8	R23	-.1615	R13	.9382		
SG1	2175.3	SG2	371.5	THA	163.75		

ORBIT DETERMINATION ACCURACY

ST	1064.2	SR	206.9	SS	1292.1		
CRT	-.9508	CRS	-.8622	CST	.9759		
LSA	1674.7	MSA	200.3	SSA	13.6		
EL1	1082.3	EL2	63.1	ALF	169.49		

LAUNCH DATE OCT 14 1965 FLIGHT TIME 122.00 ARRIVAL DATE FEB 13 1966

DISTANCE 314.545

HELIOCENTRIC CONIC

RL	149.20	LAL	.00	LOL	20.44	VL	26.697	GAL	3.15	AZL	85.37	HCA	134.09	SMA	124.47	ECC	.20585	INC	4.6296	VI	29.864
RP	107.54	LAP	3.32	LOP	154.62	VP	37.444	GAP	-8.97	AZP	93.22	TAL	167.69	TAP	301.78	RCA	98.85	APO	150.09	V2	35.239
RC	47.202	GL	29.34	GP	-22.29	ZAL	63.52	ZAP	26.99	ETS	51.87	ZAE	141.82	ETE	303.13	ZAC	63.97	ETC	148.56	CLP	-15.63

PLANETOCENTRIC CONIC

C3 19.286 VHL 4.392 DLA 13.43 RAL 314.31 RAD 6567.8 VEL 11.860 PTH 2.10 VHP 6.660 DPA -39.14 RAP 330.53 ECC 1.3174

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 4 3	2636.23	-27.07	69.98	179.55	98.64	5 47 59	2036.2	-25.60	61.62
90.00	20 31 52	4419.32	7.06	184.28	173.89	62.51	21 45 31	3819.3	3.32	177.59
100.00	6 32 25	2351.25	-28.31	48.79	179.32	100.03	7 11 36	1751.2	-26.63	40.39
100.00	21 46 11	4179.54	8.16	166.05	173.29	61.14	22 55 51	3579.5	4.25	159.45
110.00	7 56 27	2088.31	-31.57	28.03	178.52	103.84	8 31 15	1488.3	-29.35	19.53
110.00	22 38 39	4015.24	11.03	151.86	171.56	57.44	23 45 34	3415.2	6.66	145.50

DIFFERENTIAL CORRECTIONS

TDE	-.7347	TRA	-1.3873	TC3	.3955	BAU	.1783
RDE	.1790	RRA	.4274	RC3	-.5674	FAU	.03878
FDE	1.7574	FRA	1.8479	FC3	-1.7406	BSP	7310
BDE	.7562	BRA	1.4517	BC3	.6917	FSP	-930

MID-COURSE EXECUTION ACCURACY

SGT	2121.9	SGR	794.7	SG3	320.2		
RRT	-.8681	RRF	.9229	RTF	-.9335		
SGB	2265.8	R23	-.1740	R13	.9447		
SG1	2234.6	SG2	374.6	THA	161.45		

ORBIT DETERMINATION ACCURACY

ST	1109.3	SR	290.4	SS	1387.2		
CRT	-.9934	CRS	-.9485	CST	.9772		
LSA	1789.0	MSA	196.8	SSA	12.7		
EL1	1146.3	EL2	32.3	ALF	165.41		

LAUNCH DATE OCT 14 1965 FLIGHT TIME 124.00 ARRIVAL DATE FEB 15 1966

DISTANCE 321.257

HELIOCENTRIC CONIC

RL	149.20	LAL	.00	LOL	20.44	VL	26.783	GAL	2.95	AZL	85.04	HCA	137.33	SMA	125.01	ECC	.20004	INC	4.9562	VI	29.864
RP	107.55	LAP	3.36	LOP	157.87	VP	37.499	GAP	-8.32	AZP	93.65	TAL	168.03	TAP	305.35	RCA	100.00	APO	150.01	V2	35.234
RC	48.656	GL	31.86	GP	-24.80	ZAL	64.67	ZAP	30.19	ETS	50.91	ZAE	139.25	ETE	303.16	ZAC	66.10	ETC	148.24	CLP	-17.78

PLANETOCENTRIC CONIC

C3 19.168 VHL 4.378 DLA 15.67 RAL 313.04 RAD 6567.8 VEL 11.855 PTH 2.10 VHP 6.401 DPA -41.12 RAP 332.95 ECC 1.3155

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 38 42	2714.27	-27.74	75.59	179.14	95.90	5 23 57	2114.3	-26.64	67.10
90.00	20 47 6	4338.38	4.49	179.71	172.80	62.01	21 59 25	3738.4	.71	173.07
100.00	6 8 41	2424.09	-29.06	54.07	178.96	97.34	6 49 5	1824.1	-27.74	45.52
100.00	21 59 48	4103.80	5.65	161.83	172.17	60.60	23 8 12	3503.8	1.69	155.28
110.00	7 36 8	2150.47	-32.49	32.64	178.31	101.26	8 11 59	1550.5	-30.60	23.94
110.00	22 48 51	3950.18	8.62	148.36	170.34	56.79	23 54 41	3350.2	4.19	142.07

DIFFERENTIAL CORRECTIONS

TDE	-.7768	TRA	-1.3674	TC3	.4225	BAU	.1926
RDE	.2700	RRA	.4666	RC3	-.6214	FAU	.04050
FDE	1.9685	FRA	1.9245	FC3	-1.8294	BSP	7496
BDE	.8224	BRA	1.4449	BC3	.7514	FSP	-1009

MID-COURSE EXECUTION ACCURACY

SGT	2150.6	SGR	907.3	SG3	346.1		
RRT	-.8914	RRF	.9468	RTF	-.9372		
SGB	2334.1	R23	-.1846	R13	.9511		
SG1	2302.3	SG2	384.1	THA	158.77		

ORBIT DETERMINATION ACCURACY

ST	1159.5	SR	401.7	SS	1489.5		
CRT	-.9995	CRS	-.9802	CST	.9788		
LSA	1920.1	MSA	194.0	SSA	11.7		
EL1	1227.1	EL2	12.2	ALF	160.90		

LAUNCH DATE OCT 14 1965 FLIGHT TIME 126.00 ARRIVAL DATE FEB 17 1966

HELIOCENTRIC CONIC DISTANCE 327.951

RL 149.20 LAL .00 LOL 20.44 VL 26.861 GAL 2.78 AZL 84.67 HCA 140.56 SMA 125.50 ECC .19475 INC 5.3254 V1 29.864
RP 107.57 LAP 3.38 LOP 161.12 VP 37.549 GAP -7.69 AZP 94.12 TAL 168.38 TAP 308.94 RCA 101.06 APO 149.94 V2 35.227
RC 50.208 GL 34.51 GP -27.70 ZAL 65.91 ZAP 33.71 ETS 50.22 ZAE 136.52 ETE 302.72 ZAC 68.33 ETC 147.83 CLP -20.02

PLANETOCENTRIC CONIC

C3 19.319 VHL 4.395 DLA 18.04 RAL 311.70 RAD 6567.8 VEL 11.862 PTH 2.10 VHP 6.181 DPA -43.45 RAP 335.57 ECC 1.3179

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 10 13	2804.71	-28.20	82.17	178.95	92.64	4 56 58	2204.7	-27.54	73.57
90.00	21 4 53	4251.64	1.71	174.86	172.04	61.73	22 15 44	3651.6	-2.09	168.23
100.00	5 42 14	2507.97	-29.63	60.24	178.85	94.15	6 24 2	1908.0	-28.74	51.55
100.00	22 15 32	4023.63	2.95	157.41	171.35	60.24	23 22 36	3423.6	-1.03	150.88
110.00	7 13 50	2221.39	-33.31	38.01	178.39	98.18	7 50 51	1621.4	-31.82	29.10
110.00	23 0 26	3882.97	6.10	144.79	169.40	56.30	24 5 9	3283.0	1.63	138.56

DIFFERENTIAL CORRECTIONS

TDE -.8241 TRA-1.3459 TC3 .4392 BAU .2078
RDE .3818 RRA .5144 RC3 -.6742 FAU .04194
FDE 2.2020 FRA 1.9913 FC3-1.8793 BSP .7714
BDE .9083 BRA 1.4408 BC3 .8047 FSP -1087

MID-COURSE EXECUTION ACCURACY

SGT 2169.7 SGR 1047.1 SG3 370.8
RRT -.9089 RRF .9642 RTF -.9405
SGB 2409.1 R23 -.1900 R13 .9577
SG1 2375.9 SG2 398.9 THA 155.58

ORBIT DETERMINATION ACCURACY

ST 1208.6 SR 541.1 SS 1594.2
CRT -.9970 CRS -.9922 CST .9805
LSA 2063.5 MSA 192.1 SSA 10.7
EL1 1323.6 EL2 38.2 ALF 155.92

LAUNCH DATE OCT 14 1965 FLIGHT TIME 128.00 ARRIVAL DATE FEB 19 1966

HELIOCENTRIC CONIC DISTANCE 334.625

RL 149.20 LAL .00 LOL 20.44 VL 26.932 GAL 2.61 AZL 84.25 HCA 143.79 SMA 125.95 ECC .18996 INC 5.7488 V1 29.864
RP 107.60 LAP 3.39 LOP 164.37 VP 37.593 GAP -7.07 AZP 94.64 TAL 168.72 TAP 312.51 RCA 102.03 APO 149.88 V2 35.220
RC 51.850 GL 37.29 GP -31.04 ZAL 67.23 ZAP 37.59 ETS 49.73 ZAE 133.57 ETE 301.85 ZAC 70.72 ETC 147.35 CLP -22.36

PLANETOCENTRIC CONIC

C3 19.786 VHL 4.448 DLA 20.52 RAL 310.27 RAD 6567.8 VEL 11.881 PTH 2.11 VHP 6.007 DPA -46.18 RAP 338.51 ECC 1.3256

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	3 37 23	2911.54	-28.29	89.98	178.97	88.73	4 25 55	2311.5	-28.17	81.32
90.00	21 26 21	4156.15	-1.38	169.54	171.70	61.71	22 35 38	3556.1	-5.15	162.88
100.00	5 12 11	2605.87	-29.89	67.51	178.99	90.33	5 55 37	2005.9	-29.52	58.72
100.00	22 34 15	3937.05	.02	152.65	170.93	60.11	23 39 52	3337.0	-3.96	146.12
110.00	6 49 4	2302.75	-33.92	44.28	178.79	94.51	7 27 27	1702.7	-32.92	35.19
110.00	23 13 51	3812.94	3.44	141.11	168.79	55.97	24 17 24	3212.9	-1.05	134.90

DIFFERENTIAL CORRECTIONS

TDE -.8773 TRA-1.3234 TC3 .4420 BAU .2240
RDE .5213 RRA .5722 RC3 -.7224 FAU .04283
FDE 2.4527 FRA 2.0411 FC3-1.8740 BSP .7978
BDE 1.0205 BRA 1.4418 BC3 .8469 FSP -1159

MID-COURSE EXECUTION ACCURACY

SGT 2178.2 SGR 1217.8 SG3 392.5
RRT -.9213 RRF .9763 RTF -.9433
SGB 2495.5 R23 -.1890 R13 .9645
SG1 2460.0 SG2 419.4 THA 151.86

ORBIT DETERMINATION ACCURACY

ST 1255.1 SR 712.0 SS 1697.3
CRT -.9936 CRS -.9969 CST .9821
LSA 2219.5 MSA 191.2 SSA 9.5
EL1 1441.3 EL2 70.2 ALF 150.52

LAUNCH DATE OCT 14 1965 FLIGHT TIME 130.00 ARRIVAL DATE FEB 21 1966

HELIOCENTRIC CONIC DISTANCE 341.278

RL 149.20 LAL .00 LOL 20.44 VL 26.995 GAL 2.47 AZL 83.76 HCA 147.02 SMA 126.36 ECC .18563 INC 6.2427 V1 29.864
RP 107.62 LAP 3.39 LOP 167.62 VP 37.631 GAP -6.48 AZP 95.24 TAL 169.06 TAP 316.08 RCA 102.91 APO 149.82 V2 35.212
RC 53.572 GL 40.20 GP -34.88 ZAL 68.63 ZAP 41.86 ETS 49.36 ZAE 130.32 ETE 300.64 ZAC 73.29 ETC 146.81 CLP -24.79

PLANETOCENTRIC CONIC

C3 20.644 VHL 4.544 DLA 23.11 RAL 308.76 RAD 6567.8 VEL 11.917 PTH 2.12 VHP 5.892 DPA -49.33 RAP 341.91 ECC 1.3397

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	2 57 51	3042.39	-27.72	99.50	179.13	83.99	3 48 33	2442.4	-28.27	90.88
90.00	21 53 51	4045.54	-4.93	163.35	171.94	62.08	23 1 16	3445.5	-8.63	156.62
100.00	4 36 55	2722.99	-29.62	76.20	179.33	85.77	5 22 18	2123.0	-29.89	67.41
100.00	22 57 28	3840.17	-3.26	147.33	171.02	60.27	24 1 29	3240.2	-7.19	140.76
110.00	6 21 6	2397.04	-34.18	51.63	179.52	90.17	7 1 3	1797.0	-33.78	42.41
110.00	23 29 47	3738.88	.61	137.24	168.61	55.82	24 32 6	3138.9	-3.87	131.03

DIFFERENTIAL CORRECTIONS

TDE -.9355 TRA-1.2983 TC3 .4324 BAU .2417
RDE .6972 RRA .6402 RC3 -.7617 FAU .04295
FDE 2.7086 FRA 2.0614 FC3-1.8014 BSP .8320
BDE 1.1668 BRA 1.4476 BC3 .8759 FSP -1218

MID-COURSE EXECUTION ACCURACY

SGT 2171.4 SGR 1422.2 SG3 408.3
RRT -.9299 RRF .9845 RTF -.9456
SGB 2595.7 R23 -.1804 R13 .9713
SG1 2557.5 SG2 444.0 THA 147.56

ORBIT DETERMINATION ACCURACY

ST 1295.0 SR 918.0 SS 1791.9
CRT -.9909 CRS -.9988 CST .9835
LSA 2386.3 MSA 190.9 SSA 8.4
EL1 1584.2 EL2 100.8 ALF 144.75

LAUNCH DATE OCT 14 1965 FLIGHT TIME 132.00 ARRIVAL DATE FEB 23 1966

HELIOCENTRIC CONIC DISTANCE 347.908

RL 149.20 LAL .00 LOL 20.44 VL 27.052 GAL 2.34 AZL 83.17 HCA 150.24 SMA 126.74 ECC .18175 INC 6.8303 V1 29.864
RP 107.64 LAP 3.38 LOP 170.86 VP 37.664 GAP -5.91 AZP 95.94 TAL 169.38 TAP 319.62 RCA 103.70 APO 149.77 V2 35.204
RC 55.368 GL 43.25 GP -39.25 ZAL 70.12 ZAP 46.51 ETS 49.03 ZAE 126.69 ETE 299.16 ZAC 76.09 ETC 146.26 CLP -27.29

PLANETOCENTRIC CONIC

C3 22.014 VHL 4.692 DLA 25.83 RAL 307.16 RAD 6567.9 VEL 11.975 PTH 2.13 VHP 5.852 DPA -52.90 RAP 346.04 ECC 1.3623

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	2 5 20	3217.41	-25.85	111.96	179.16	78.02	2 58 57	2617.4	-27.24	103.57
90.00	22 33 33	3901.46	-9.45	155.17	173.12	63.18	23 38 35	3301.5	-12.97	148.27
100.00	3 52 56	2870.47	-28.39	86.98	179.70	80.23	4 40 47	2270.5	-29.45	78.34
100.00	23 28 37	3723.63	-7.16	140.88	171.89	60.90	24 30 41	3123.6	-10.99	134.18
110.00	5 48 40	2508.38	-33.87	60.31	180.53	85.05	6 30 28	1908.4	-34.18	51.08
110.00	23 49 23	3658.48	-2.46	133.05	168.99	55.89	24 50 22	3058.5	-6.92	126.80

DIFFERENTIAL CORRECTIONS

TDE-1.0048 TRA-1.2763 TC3 .4007 BAU .2588
RDE .9232 RRA .7207 RC3 -.7828 FAU .04174
FDE 2.9568 FRA 2.0462 FC3-1.6414 BSP .8672
BDE 1.3645 BRA 1.4658 BC3 .8794 FSP -1248

MID-COURSE EXECUTION ACCURACY

SGT 2155.3 SGR 1663.4 SG3 415.4
RRT -.9352 RRF .9899 RTF -.9473
SGB 2722.6 R23 -.1653 R13 .9779
SG1 2681.0 SG2 473.6 THA 142.82

ORBIT DETERMINATION ACCURACY

ST 1332.5 SR 1165.2 SS 1873.6
CRT -.9893 CRS -.9996 CST .9849
LSA 2570.4 MSA 191.1 SSA 7.2
EL1 1765.4 EL2 128.2 ALF 138.87

LAUNCH DATE OCT 14 1965 FLIGHT TIME 134.00 ARRIVAL DATE FEB 25 1966

DISTANCE 354.514

HELIOCENTRIC CONIC

RL 149.20 LAL .00 LOL 20.44 VL 27.103 GAL 2.22 AZL 82.45 HCA 153.46 SMA 127.07 ECC .17829 INC 7.5460 V1 29.864
RP 107.67 LAP 3.36 LOP 174.10 VP 37.693 GAP -5.35 AZP 96.76 TAL 169.68 TAP 323.14 RCA 104.42 APO 149.73 V2 35.135
RC 57.230 GL 46.43 GP -44.21 ZAL 71.68 ZAP 51.55 ETS 48.68 ZAE 122.59 ETE 297.52 ZAC 79.17 ETC 145.76 CLP -29.83

PLANETOCENTRIC CONIC

C3 24.100 VHL 4.909 DLA 28.66 RAL 305.43 RAD 6568.0 VEL 12.061 PTH 2.16 VHP 5.909 DPA -56.85 RAP 351.33 ECC 1.3966

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
85.38	23 32 5	3706.18	-18.74	145.29	177.10	67.91	24 33 51	3106.2	-21.57	137.74
94.62	0 53 2	3456.77	-18.72	127.02	177.09	67.89	1 50 39	2856.8	-21.56	119.47
100.00	2 47 49	3087.54	-24.94	102.17	179.47	72.96	3 39 16	2487.5	-27.04	94.00
100.00	0 23 55	3550.64	-12.74	131.07	174.24	62.73	1 23 6	2950.6	-16.29	124.08
110.00	5 9 21	2644.45	-32.58	70.71	181.64	79.03	5 53 25	2044.4	-33.75	61.67
110.00	0 18 53	3566.51	-5.95	128.22	170.19	56.28	1 18 19	2966.5	-10.35	121.88

DIFFERENTIAL CORRECTIONS

TDE-1.0840 TRA-1.2553 TC3 .3539 BAU .2756
RDE 1.2146 RRA .8123 RC3 -.7789 FAU .03900
FDE 3.1666 FRA 1.9786 FC3-1.4008 BSP 9110
BDE 1.6280 BRA 1.4952 BC3 .8555 FSP -1240

MID-COURSE EXECUTION ACCURACY

SGT 2123.5 SGR 1939.5 SG3 409.6
RRT -.9380 RRF .9934 RTF -.9484
SGB 2875.9 R23 -.1442 R13 .9840
SG1 2831.4 SG2 504.2 THA 137.76

ORBIT DETERMINATION ACCURACY

ST 1360.8 SR 1454.4 SS 1929.7
CRT -.9884 CRS -.9999 CST .9862
LSA 2766.5 MSA 191.7 SSA 6.1
EL1 1986.0 EL2 151.3 ALF 133.07

LAUNCH DATE OCT 14 1965 FLIGHT TIME 136.00 ARRIVAL DATE FEB 27 1966

DISTANCE 361.093

HELIOCENTRIC CONIC

RL 149.20 LAL .00 LOL 20.44 VL 27.149 GAL 2.12 AZL 81.56 HCA 156.68 SMA 127.37 ECC .17522 INC 8.4426 V1 29.864
RP 107.70 LAP 3.33 LOP 177.34 VP 37.717 GAP -4.81 AZP 97.76 TAL 169.94 TAP 326.62 RCA 105.05 APO 149.69 V2 35.186
RC 59.152 GL 49.73 GP -49.74 ZAL 73.34 ZAP 56.90 ETS 48.28 ZAE 117.95 ETE 295.89 ZAC 82.56 ETC 145.42 CLP -32.33

PLANETOCENTRIC CONIC

C3 27.249 VHL 5.220 DLA 31.60 RAL 303.56 RAD 6568.1 VEL 12.191 PTH 2.19 VHP 6.102 DPA -61.01 RAP 358.47 ECC 1.4485

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
75.36	22 8 10	3980.69	-19.67	166.13	178.05	64.76	23 14 30	3380.7	-22.90	158.70
104.64	2 2 2	3242.95	-19.66	111.57	178.04	64.75	2 56 5	2642.9	-22.89	104.13
75.36	22 8 10	3980.69	-19.67	166.13	178.05	64.76	23 14 30	3380.7	-22.90	158.70
104.64	2 2 2	3242.95	-19.66	111.57	178.04	64.75	2 56 5	2642.9	-22.89	104.13
110.00	4 16 43	2824.84	-29.47	83.84	182.33	71.85	5 3 48	2224.8	-31.67	75.32
110.00	0 56 35	3446.79	-10.43	121.84	172.76	57.26	1 54 1	2846.8	-14.67	115.30

DIFFERENTIAL CORRECTIONS

TDE-1.1776 TRA-1.2387 TC3 .2959 BAU .2907
RDE 1.5930 RRA .9135 RC3 -.7410 FAU .03452
FDE 3.3040 FRA 1.8503 FC3-1.0969 BSP 9670
BDE 1.9810 BRA 1.5391 BC3 .7979 FSP -1189

MID-COURSE EXECUTION ACCURACY

SGT 2077.0 SGR 2245.2 SG3 387.8
RRT -.9388 RRF .9956 RTF -.9489
SGB 3058.6 R23 -.1191 R13 .9893
SG1 3011.7 SG2 533.5 THA 132.63

ORBIT DETERMINATION ACCURACY

ST 1378.4 SR 1783.9 SS 1948.8
CRT -.9879 CRS-1.0000 CST .9872
LSA 2973.7 MSA 192.8 SSA 5.1
EL1 2248.0 EL2 169.6 ALF 127.61

LAUNCH DATE OCT 14 1965 FLIGHT TIME 138.00 ARRIVAL DATE MAR 1 1966

DISTANCE 367.643

HELIOCENTRIC CONIC

RL 149.20 LAL .00 LOL 20.44 VL 27.189 GAL 2.03 AZL 80.39 HCA 159.88 SMA 127.64 ECC .17253 INC 9.6066 V1 29.864
RP 107.73 LAP 3.29 LOP 180.58 VP 37.736 GAP -4.28 AZP 99.03 TAL 170.18 TAP 330.06 RCA 105.62 APO 149.66 V2 35.176
RC 61.127 GL 53.16 GP -55.81 ZAL 75.10 ZAP 62.46 ETS 47.85 ZAE 112.75 ETE 294.47 ZAC 86.30 ETC 145.46 CLP -34.62

PLANETOCENTRIC CONIC

C3 32.105 VHL 5.666 DLA 34.61 RAL 301.50 RAD 6568.3 VEL 12.389 PTH 2.24 VHP 6.487 DPA -65.06 RAP 8.59 ECC 1.5284

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
69.22	21 20 45	4142.77	-20.07	178.84	179.55	61.20	22 29 48	3542.8	-23.76	171.60
110.78	2 33 1	3162.98	-20.06	105.63	179.54	61.19	3 25 44	2563.0	-23.75	98.39
69.22	21 20 45	4142.77	-20.07	178.84	179.55	61.20	22 29 48	3542.8	-23.76	171.60
110.78	2 33 1	3162.98	-20.06	105.63	179.54	61.19	3 25 44	2563.0	-23.75	98.39
69.22	21 20 45	4142.77	-20.07	178.84	179.55	61.20	22 29 48	3542.8	-23.76	171.60
110.78	2 33 1	3162.98	-20.06	105.63	179.54	61.19	3 25 44	2563.0	-23.75	98.39

DIFFERENTIAL CORRECTIONS

TDE-1.2959 TRA-1.2324 TC3 .2297 BAU .2997
RDE 2.0893 RRA 1.0205 RC3 -.6594 FAU .02824
FDE 3.3361 FRA 1.6600 FC3 -.7614 BSP 10329
BDE 2.4585 BRA 1.6000 BC3 .6983 FSP -1086

MID-COURSE EXECUTION ACCURACY

SGT 2019.2 SGR 2567.8 SG3 348.7
RRT -.9376 RRF .9968 RTF -.9490
SGB 3266.6 R23 -.0919 R13 .9934
SG1 3218.2 SG2 560.4 THA 127.74

ORBIT DETERMINATION ACCURACY

ST 1386.9 SR 2146.0 SS 1921.6
CRT -.9876 CRS-1.0000 CST .9881
LSA 3191.2 MSA 194.7 SSA 4.1
EL1 2548.6 EL2 183.2 ALF 122.74

LAUNCH DATE OCT 14 1965 FLIGHT TIME 140.00 ARRIVAL DATE MAR 3 1966

DISTANCE 374.158

HELIOCENTRIC CONIC

RL 149.20 LAL .00 LOL 20.44 VL 27.224 GAL 1.96 AZL 78.81 HCA 163.07 SMA 127.87 ECC .17019 INC11.1888 V1 29.864
RP 107.76 LAP 3.24 LOP 183.82 VP 37.752 GAP -3.78 AZP 100.72 TAL 170.37 TAP 333.44 RCA 106.11 APO 149.63 V2 35.166
RC 63.151 GL 56.65 GP -62.37 ZAL 76.98 ZAP 68.06 ETS 47.68 ZAE 106.98 ETE 293.70 ZAC 90.42 ETC 146.29 CLP -36.30

PLANETOCENTRIC CONIC

C3 39.947 VHL 6.320 DLA 37.64 RAL 299.20 RAD 6568.5 VEL 12.701 PTH 2.31 VHP 7.163 DPA -68.35 RAP 23.15 ECC 1.6574

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
64.09	20 43 35	4281.26	-19.66	189.66	181.63	57.23	21 54 56	3681.3	-23.83	182.73
115.91	2 51 48	3134.83	-19.64	103.11	181.61	57.22	3 44 3	2534.8	-23.82	96.18
64.09	20 43 35	4281.26	-19.66	189.66	181.63	57.23	21 54 56	3681.3	-23.83	182.73
115.91	2 51 48	3134.83	-19.64	103.11	181.61	57.22	3 44 3	2534.8	-23.82	96.18
64.09	20 43 35	4281.26	-19.66	189.66	181.63	57.23	21 54 56	3681.3	-23.83	182.73
115.91	2 51 48	3134.83	-19.64	103.11	181.61	57.22	3 44 3	2534.8	-23.82	96.18

DIFFERENTIAL CORRECTIONS

TDE-1.4685 TRA-1.2511 TC3 .1604 BAU .2955
RDE 2.7486 RRA 1.1251 RC3 -.5295 FAU .02043
FDE 3.2417 FRA 1.4191 FC3 -.4428 BSP 11058
BDE 3.1163 BRA 1.6825 BC3 .5532 FSP -935

MID-COURSE EXECUTION ACCURACY

SGT 1965.9 SGR 2883.6 SG3 294.1
RRT -.9345 RRF .9972 RTF -.9492
SGB 3490.0 R23 -.0639 R13 .9964
SG1 3440.4 SG2 586.6 THA 123.61

ORBIT DETERMINATION ACCURACY

ST 1398.9 SR 2521.5 SS 1843.6
CRT -.9875 CRS -.9999 CST .9891
LSA 3416.8 MSA 197.7 SSA 3.2
EL1 2877.1 EL2 193.4 ALF 118.86

LAUNCH DATE OCT 14 1965 FLIGHT TIME 142.00 ARRIVAL DATE MAR 5 1966

HELIOCENTRIC CONIC DISTANCE 380.632

RL	149.20	LAL	.00	LOL	20.44	VL	27.254	GAL	1.91	AZL	76.52	HCA	166.25	SMA	128.08	ECC	.16818	INC	13.4768
RP	107.80	LAP	3.18	LOP	187.05	VP	37.764	GAP	-3.29	AZP	103.10	TAL	170.50	TAP	336.74	RCA	106.54	APO	149.62
RC	65.219	GL	60.10	GP	-69.33	ZAL	78.98	ZAP	73.47	ETS	48.83	ZAE	100.61	ETE	294.75	ZAC	95.00	ETC	149.11

V1	29.864																		
V2	35.155																		
CLP	-36.28																		

PLANETOCENTRIC CONIC

C3	53.623	VHL	7.323	DLA	40.56	RAL	296.58	RAD	6568.9	VEL	13.228	PTH	2.42	VHP	8.313	DPA	-69.84	RAP	42.64
ECC	1.8825																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
59.65	20 11 56	4415.63	-18.02	199.67	184.26	53.02	21 25 32	3815.6	-22.70	193.16
120.35	3 2 33	3148.02	-18.00	103.01	184.25	53.02	3 55 1	2548.0	-22.69	96.50
59.65	20 11 56	4415.63	-18.02	199.67	184.26	53.02	21 25 32	3815.6	-22.70	193.16
120.35	3 2 33	3148.02	-18.00	103.01	184.25	53.02	3 55 1	2548.0	-22.69	96.50
59.65	20 11 56	4415.63	-18.02	199.67	184.26	53.02	21 25 32	3815.6	-22.70	193.16
120.35	3 2 33	3148.02	-18.00	103.01	184.25	53.02	3 55 1	2548.0	-22.69	96.50

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-1.8019	TRA	-1.3368	TC3	.0959	BAU	.2626	SGT	1975.6	SGR	3149.6	SG3	230.7	ST	1469.2	SR	2871.3	SS	1723.6
RDE	3.6385	RRA	1.2077	RC3	-.3535	FAU	.01169	RRT	-.9320	RRF	.9967	RTF	-.9528	CRT	-.9881	CRS	-.9998	CST	.9909
FDE	3.0325	FRA	1.1578	FC3	-.1887	BSP	11783	SGB	3717.9	R23	-.0354	R13	.9983	LSA	3651.3	MSA	202.8	SSA	2.5
BDE	4.0602	BRA	1.8016	BC3	.3662	FSP	-747	SG1	3666.7	SG2	615.3	THA	121.29	EL1	3219.0	EL2	201.9	ALF	116.93

LAUNCH DATE OCT 14 1965 FLIGHT TIME 144.00 ARRIVAL DATE MAR 7 1966

HELIOCENTRIC CONIC DISTANCE 387.043

RL	149.20	LAL	.00	LOL	20.44	VL	27.280	GAL	1.87	AZL	72.91	HCA	169.38	SMA	128.25	ECC	.16650	INC	17.0921
RP	107.83	LAP	3.10	LOP	190.28	VP	37.772	GAP	-2.83	AZP	106.82	TAL	170.55	TAP	339.94	RCA	106.90	APO	149.61
RC	67.327	GL	63.23	GP	-76.55	ZAL	81.12	ZAP	78.45	ETS	56.46	ZAE	93.50	ETE	302.80	ZAC	100.25	ETC	159.22

V1	29.864																		
V2	35.143																		
CLP	-30.57																		

PLANETOCENTRIC CONIC

C3	80.566	VHL	8.976	DLA	43.06	RAL	293.59	RAD	6569.6	VEL	14.210	PTH	2.59	VHP	10.328	DPA	-68.43	RAP	63.91
ECC	2.3259																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
56.09	19 44 52	4554.51	-14.67	208.94	187.33	49.05	21 0 46	3954.5	-19.82	202.95
123.91	3 5 45	3203.72	-14.66	105.03	187.32	49.04	3 59 9	2603.7	-19.80	99.04
56.09	19 44 52	4554.51	-14.67	208.94	187.33	49.05	21 0 46	3954.5	-19.82	202.95
123.91	3 5 45	3203.72	-14.66	105.03	187.32	49.04	3 59 9	2603.7	-19.80	99.04
56.09	19 44 52	4554.51	-14.67	208.94	187.33	49.05	21 0 46	3954.5	-19.82	202.95
123.91	3 5 45	3203.72	-14.66	105.03	187.32	49.04	3 59 9	2603.7	-19.80	99.04

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-2.8826	TRA	-1.6253	TC3	.0443	BAU	.1726	SGT	2325.6	SGR	3149.1	SG3	166.6	ST	1888.7	SR	2995.1	SS	1582.5
RDE	4.6695	RRA	1.1194	RC3	-.1540	FAU	.00299	RRT	-.9415	RRF	.9927	RTF	-.9728	CRT	-.9916	CRS	-.9993	CST	.9957
FDE	2.7533	FRA	.9064	FC3	-.0322	BSP	12810	SGB	3914.8	R23	-.0058	R13	.9991	LSA	3872.9	MSA	206.5	SSA	2.0
BDE	5.4875	BRA	1.9735	BC3	.1602	FSP	-567	SG1	3862.3	SG2	639.1	THA	125.95	EL1	3534.8	EL2	206.5	ALF	122.14

LAUNCH DATE OCT 14 1965 FLIGHT TIME 146.00 ARRIVAL DATE MAR 9 1966

HELIOCENTRIC CONIC DISTANCE 393.352

RL	149.20	LAL	.00	LOL	20.44	VL	27.302	GAL	1.87	AZL	66.36	HCA	172.45	SMA	128.40	ECC	.16517	INC	23.6354
RP	107.87	LAP	3.02	LOP	193.51	VP	37.777	GAP	-2.40	AZP	113.45	TAL	170.47	TAP	342.92	RCA	107.19	APO	149.61
RC	69.470	GL	65.20	GP	-82.73	ZAL	83.40	ZAP	82.75	ETS	115.35	ZAE	85.09	ETE	2.46	ZAC	106.80	ETC	221.51

V1	29.864																		
V2	35.132																		
CLP	3.58																		

PLANETOCENTRIC CONIC

C3	145.234	VHL	12.051	DLA	44.30	RAL	290.32	RAD	6570.6	VEL	16.327	PTH	2.86	VHP	14.195	DPA	-63.40	RAP	81.83
ECC	3.3902																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
54.39	19 25 2	4694.64	-9.36	216.60	190.61	46.50	20 43 16	4094.6	-14.81	211.03
125.61	2 59 30	3307.67	-9.35	109.44	190.59	46.50	3 54 38	2707.7	-14.79	103.87
54.39	19 25 2	4694.64	-9.36	216.60	190.61	46.50	20 43 16	4094.6	-14.81	211.03
125.61	2 59 30	3307.67	-9.35	109.44	190.59	46.50	3 54 38	2707.7	-14.79	103.87
54.39	19 25 2	4694.64	-9.36	216.60	190.61	46.50	20 43 16	4094.6	-14.81	211.03
125.61	2 59 30	3307.67	-9.35	109.44	190.59	46.50	3 54 38	2707.7	-14.79	103.87

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-7.1030	TRA	-2.0505	TC3	-.0704	BAU	.1567	SGT	3645.3	SGR	1904.4	SG3	114.1	ST	3401.7	SR	1737.6	SS	1505.0
RDE	-3.6187	RRA	-1.2207	RC3	-.0396	FAU	-.00745	RRT	.9984	RRF	-.9982	RTF	-.9994	CRT	.9998	CRS	.9998	CST	1.0000
FDE	2.5617	FRA	.7512	FC3	.0444	BSP	12311	SGB	4112.8	R23	.0046	R13	-.9994	LSA	4105.4	MSA	31.2	SSA	1.6
BDE	7.9717	BRA	2.3864	BC3	.0807	FSP	-361	SG1	4111.7	SG2	96.4	THA	27.56	EL1	3819.6	EL2	31.0	ALF	27.06

LAUNCH DATE OCT 14 1965 FLIGHT TIME 148.00 ARRIVAL DATE MAR 11 1966

HELIOCENTRIC CONIC DISTANCE 399.381

RL	149.20	LAL	.00	LOL	20.44	VL	27.320	GAL	1.93	AZL	51.59	HCA	175.28	SMA	128.52	ECC	.16426	INC	38.4095
RP	107.90	LAP	2.93	LOP	196.74	VP	37.779	GAP	-2.05	AZP	128.31	TAL	170.12	TAP	345.40	RCA	107.41	APO	149.64
RC	71.643	GL	63.17	GP	-77.34	ZAL	85.74	ZAP	86.11	ETS	176.44	ZAE	73.12	ETE	64.09	ZAC	116.87	ETC	287.61

V1	29.864																		
V2	35.120																		
CLP	71.97																		

PLANETOCENTRIC CONIC

C3	361.409	VHL	19.011	DLA	41.53	RAL	287.49	RAD	6572.0	VEL	21.971	PTH	3.23	VHP	23.072	DPA	-52.98	RAP	94.86
ECC	6.9479																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
58.25	19 29 34	4782.46	-3.04	218.57	194.07	48.56	20 49 16	4182.5	-8.31	212.93
121.75	2 32 27	3480.74	-3.02	118.97	194.06	48.56	3 30 27	2880.7	-8.29	113.33
58.25	19 29 34	4782.46	-3.04	218.57	194.07	48.56	20 49 16	4182.5	-8.31	212.93
121.75	2 32 27	3480.74	-3.02	118.97	194.06	48.56	3 30 27	2880.7	-8.29	113.33
58.25	19 29 34	4782.46	-3.04	218.57	194.07	48.56	20 49 16	4182.5	-8.31	212.93
121.75	2 32 27	3480.74	-3.02	118.97	194.06	48.56	3 30 27	2880.7	-8.29	113.33

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-3.7012	TRA	.2488	TC3	-.0842	BAU	1.1219	SGT	1164.8	SGR	3975.8	SG3	78.0	ST	1115.9	SR	3664.2	SS	1644.5
RDE	-12.0812	RRA	-3.3989	RC3	-.2164	FAU	-.02386	RRT	.9043	RRF	-.9994	RTF	-.9066	CRT	.9903	CRS	1.0000	CST	.9903
FDE	2.7199	FRA	.7665	FC3	.0571	BSP	12605	SGB	4142.9	R23	-.0246	R13	-.9991	LSA	4165.8	MSA	149.3	SSA	1.8
BDE	12.6354	BRA	3.4080	BC3	.2322	FSP	-251	SG1	4115.0	SG2	480.4	THA	74.95	EL1	3827.5	EL2	148.2	ALF	73.19

LAUNCH DATE OCT 14 1965 FLIGHT TIME 150.00 ARRIVAL DATE MAR 13 1966

DISTANCE 404.270

HELIOCENTRIC CONIC
RL 149.20 LAL .00 LOL 20.44 VL 27.335 GAL 2.20 AZL 9.56 HCA 177.13 SMA 128.63 ECC .16441 INC80.4362 V1 29.864
RP 107.94 LAP 2.83 LOP 199.96 VP 37.778 GAP -1.99 AZP 170.42 TAL 168.69 TAP 345.82 RCA 107.48 APO 149.77 V2 35.108
RC 73.845 GL 46.72 GP -53.23 ZAL 87.61 ZAP 88.10 ETS 182.15 ZAE 49.64 ETE 66.02 ZAC 137.50 ETC 306.18 CLP 86.82

PLANETOCENTRIC CONIC
C31369.077 VHL 37.001 DLA 24.74 RAL 287.83 RAD 6573.1 VEL 38.605 PTH 3.55 VHP 46.195 DPA -28.99 RAP 104.43 ECC23.5315

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	1 8 48	3804.99	-12.35	149.58	205.06	64.32	2 12 13	3205.0	-15.71	142.51
90.00	20 55 52	4629.77	13.44	196.44	192.94	64.84	22 13 2	4029.8	9.94	189.51
100.00	2 52 5	3472.01	-15.15	126.47	206.45	63.92	3 49 57	2872.0	-18.53	119.31
100.00	21 55 16	4437.98	16.24	180.98	191.57	64.56	23 9 14	3838.0	12.69	173.99
110.00	4 42 27	3126.69	-21.44	103.57	209.78	62.71	5 34 34	2526.7	-24.92	96.15
110.00	22 21 23	4356.06	22.58	171.51	188.31	63.63	23 33 59	3756.1	18.85	164.36

DIFFERENTIAL CORRECTIONS
TDE-6.1246 TRA 1.1606 TC3 -.1026 BAU 4.9337
RDE-16.5738 RRA-6.5503 RC3 -.2493 FAU-.08802
FDE 3.5674 FRA 1.4782 FC3 .0557 BSP 10996
BDE17.6692 BRA 6.6523 BC3 .2696 FSP -204

MID-COURSE EXECUTION ACCURACY
SGT 1230.8 SGR 3352.1 SG3 63.4
RRT .8758 RRF -.9998 RTF -.8712
SGB 3570.9 R23 -.0621 R13 -.9979
SG1 3526.0 SG2 564.8 THA 71.69

ORBIT DETERMINATION ACCURACY
ST 950.5 SR 2588.8 SS 2225.9
CRT .9816 CRS 1.0000 CST .9804
LSA 3539.5 MSA 177.9 SSA 1.5
EL1 2752.5 EL2 170.9 ALF 70.10

LAUNCH DATE OCT 14 1965 FLIGHT TIME 152.00 ARRIVAL DATE MAR 15 1966

DISTANCE 414.665

HELIOCENTRIC CONIC
RL 149.20 LAL .00 LOL 20.44 VL 27.346 GAL 1.46 AZL 134.77 HCA 183.86 SMA 128.70 ECC .16126 INC44.7683 V1 29.864
RP 107.98 LAP 2.72 LOP 203.18 VP 37.775 GAP -.53 AZP 45.30 TAL 172.35 TAP 356.21 RCA 107.95 APO 149.46 V2 35.095
RC 76.070 GL -61.35 GP 71.46 ZAL 86.89 ZAP 88.87 ETS 193.18 ZAE 79.19 ETE 300.30 ZAC 92.76 ETC 76.38 CLP 86.44

PLANETOCENTRIC CONIC
C3 481.299 VHL 21.939 DLA -77.20 RAL 348.80 RAD 6572.3 VEL 24.548 PTH 3.33 VHP 29.012 DPA 82.60 RAP 246.35 ECC 8.9210

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
14.57	9 34 33	2409.09	2.67	81.76	258.19	167.19	10 14 42	1809.1	10.46	80.38
165.43	20 36 35	620.09	2.67	283.29	258.21	167.19	20 46 55	20.1	10.47	281.91
14.57	9 34 33	2409.09	2.67	81.76	258.19	167.19	10 14 42	1809.1	10.46	80.38
165.43	20 36 35	620.09	2.67	283.29	258.21	167.19	20 46 55	20.1	10.47	281.91
14.57	9 34 33	2409.09	2.67	81.76	258.19	167.19	10 14 42	1809.1	10.46	80.38
165.43	20 36 35	620.09	2.67	283.29	258.21	167.19	20 46 55	20.1	10.47	281.91

DIFFERENTIAL CORRECTIONS
TDE 2.7590 TRA-1.5902 TC3 -.1371 BAU 1.7315
RDE -.2660 RRA 2.9923 RC3 .2315 FAU-.02901
FDE -.2304 FRA .7028 FC3 .0522 BSP 13319
BDE 2.7718 BRA 3.3887 BC3 .2691 FSP -241

MID-COURSE EXECUTION ACCURACY
SGT 2096.9 SGR 3672.3 SG3 74.5
RRT -.9450 RRF .9986 RTF -.9600
SGB 4228.8 R23 -.0297 R13 .9994
SG1 4185.7 SG2 601.6 THA 119.01

ORBIT DETERMINATION ACCURACY
ST 914.3 SR 1061.2 SS 641.3
CRT -.6658 CRS -.9853 CST .7836
LSA 1430.3 MSA 572.4 SSA .9
EL1 1281.9 EL2 564.7 ALF 128.67

LAUNCH DATE OCT 14 1965 FLIGHT TIME 154.00 ARRIVAL DATE MAR 17 1966

DISTANCE 420.415

HELIOCENTRIC CONIC
RL 149.20 LAL .00 LOL 20.44 VL 27.355 GAL 1.60 AZL 113.62 HCA 186.50 SMA 128.76 ECC .16113 INC23.6178 V1 29.864
RP 108.02 LAP 2.60 LOP 206.40 VP 37.769 GAP -.26 AZP 66.52 TAL 171.63 TAP 358.13 RCA 108.01 APO 149.51 V2 35.082
RC 78.316 GL -65.61 GP 86.11 ZAL 84.01 ZAP 88.60 ETS 250.06 ZAE 93.22 ETE 354.93 ZAC 79.61 ETC 129.29 CLP 68.93

PLANETOCENTRIC CONIC
C3 144.688 VHL 12.029 DLA -75.93 RAL 12.42 RAD 6570.6 VEL 16.310 PTH 2.86 VHP 16.395 DPA 69.44 RAP 278.38 ECC 3.3812

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
16.03	11 11 41	2248.45	13.09	78.96	279.07	165.55	11 49 10	1648.5	20.83	77.25
163.97	22 7 53	5752.48	13.09	259.84	279.09	165.55	23 43 45	5152.5	20.83	258.13
16.03	11 11 41	2248.45	13.09	78.96	279.07	165.55	11 49 10	1648.5	20.83	77.25
163.97	22 7 53	5752.48	13.09	259.84	279.09	165.55	23 43 45	5152.5	20.83	258.13
16.03	11 11 41	2248.45	13.09	78.96	279.07	165.55	11 49 10	1648.5	20.83	77.25
163.97	22 7 53	5752.48	13.09	259.84	279.09	165.55	23 43 45	5152.5	20.83	258.13

DIFFERENTIAL CORRECTIONS
TDE-2.5684 TRA-2.1831 TC3 -.0805 BAU .1683
RDE 1.4442 RRA .2216 RC3 .0330 FAU-.00179
FDE .8401 FRA .6015 FC3 .0107 BSP 14271
BDE 2.9466 BRA 2.1943 BC3 .0870 FSP -349

MID-COURSE EXECUTION ACCURACY
SGT 4453.6 SGR 817.4 SG3 107.6
RRT -.7458 RRF .7755 RTF -.9986
SGB 4528.0 R23 -.0296 R13 .9992
SG1 4495.7 SG2 539.4 THA 172.09

ORBIT DETERMINATION ACCURACY
ST 1773.1 SR 700.1 SS 756.4
CRT -.8126 CRS -.8595 CST .9963
LSA 2013.9 MSA 387.7 SSA 1.4
EL1 1866.5 EL2 387.6 ALF 161.38

LAUNCH DATE OCT 14 1965 FLIGHT TIME 156.00 ARRIVAL DATE MAR 19 1966

DISTANCE 426.548

HELIOCENTRIC CONIC
RL 149.20 LAL .00 LOL 20.44 VL 27.360 GAL 1.67 AZL 105.16 HCA 189.50 SMA 128.80 ECC .16101 INC15.1582 V1 29.864
RP 108.06 LAP 2.47 LOP 209.62 VP 37.761 GAP .10 AZP 75.04 TAL 171.25 TAP .75 RCA 108.06 APO 149.54 V2 35.069
RC 80.581 GL -62.67 GP 84.90 ZAL 80.78 ZAP 89.16 ETS 335.75 ZAE 101.24 ETE 79.17 ZAC 72.11 ETC 210.52 CLP -80.56

PLANETOCENTRIC CONIC
C3 64.796 VHL 8.050 DLA -72.40 RAL 6.64 RAD 6569.2 VEL 13.644 PTH 2.49 VHP 11.264 DPA 61.09 RAP 283.53 ECC 2.0664

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
20.09	10 56 55	2067.67	23.98	72.86	268.51	160.67	11 31 22	1467.7	31.50	70.18
159.91	21 36 31	5588.35	23.99	257.84	268.54	160.67	23 9 39	4988.4	31.51	255.16
20.09	10 56 55	2067.67	23.98	72.86	268.51	160.67	11 31 22	1467.7	31.50	70.18
159.91	21 36 31	5588.35	23.99	257.84	268.54	160.67	23 9 39	4988.4	31.51	255.16
20.09	10 56 55	2067.67	23.98	72.86	268.51	160.67	11 31 22	1467.7	31.50	70.18
159.91	21 36 31	5588.35	23.99	257.84	268.54	160.67	23 9 39	4988.4	31.51	255.16

DIFFERENTIAL CORRECTIONS
TDE -.9315 TRA -.1394 TC3 -.0330 BAU .2572
RDE-1.2285 RRA-1.8945 RC3 .2951 FAU .01145
FDE .6455 FRA .7615 FC3 -.1530 BSP 14524
BDE 1.5418 BRA 1.8996 BC3 .2969 FSP -522

MID-COURSE EXECUTION ACCURACY
SGT 741.7 SGR 4568.5 SG3 161.3
RRT .5953 RRF -.9980 RTF -.6353
SGB 4628.3 R23 .0386 R13 -.9986
SG1 4590.1 SG2 593.1 THA 84.39

ORBIT DETERMINATION ACCURACY
ST 670.3 SR 1598.2 SS 688.3
CRT .6641 CRS .9918 CST .7541
LSA 1801.4 MSA 481.7 SSA 1.9
EL1 1664.9 EL2 481.1 ALF 72.97

LAUNCH DATE OCT 14 1965 FLIGHT TIME 158.00 ARRIVAL DATE MAR 21 1966

HELIOCENTRIC CONIC DISTANCE 432.778

RL	149.20	LAL	.00	LOL	20.44	VL	27.363	GAL	1.73	AZL	100.78	HCA	192.60	SMA	128.82	ECC	.16103	INC	10.7831
RP	108.10	LAP	2.34	LOP	212.83	VP	37.751	GAP	.49	AZP	79.47	TAL	170.92	TAP	3.53	RCA	108.07	APO	149.56
RC	82.862	GL	-57.42	GP	78.47	ZAL	77.45	ZAP	90.58	ETS	352.66	ZAE	107.08	ETE	95.17	ZAC	66.39	ETC	223.03

V1	29.864																		
V2	35.056																		
CLP	-92.89																		

PLANETOCENTRIC CONIC

C3	36.879	VHL	6.073	DLA	-67.91	RAL	357.14	RAD	6568.4	VEL	12.580	PTH	2.28	VHP	8.659	DPA	54.64	RAP	285.61
ECC	1.6069																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
25.29	10 30 10	1913.58	31.91	64.19	252.49	153.70	11 2 4	1313.6	39.00	60.05
154.71	20 47 29	5462.14	31.91	254.63	252.51	153.70	22 18 31	4862.1	39.01	250.49
25.29	10 30 10	1913.58	31.91	64.19	252.49	153.70	11 2 4	1313.6	39.00	60.05
154.71	20 47 29	5462.14	31.91	254.63	252.51	153.70	22 18 31	4862.1	39.01	250.49
25.29	10 30 10	1913.58	31.91	64.19	252.49	153.70	11 2 4	1313.6	39.00	60.05
154.71	20 47 29	5462.14	31.91	254.63	252.51	153.70	22 18 31	4862.1	39.01	250.49

DIFFERENTIAL CORRECTIONS

TDE	-.5266	TRA	.3343	TC3	-.2556	BAU	.4049
RDE	-.4364	RRA	-1.7673	RC3	.7805	FAU	.02305
FDE	.3541	FRA	1.0251	FC3	-.5410	BSP	14662
BDE	.6840	BRA	1.7986	BC3	.8213	FSP	-752

MID-COURSE EXECUTION ACCURACY

SGT	1022.9	SGR	4551.8	SG3	231.1		
RRT	-.8176	RRF	-.9986	RTF	.8018		
SGB	4665.3	R23	.0487	R13	-.9978		
SG1	4629.2	SG2	579.2	THA	100.58		

ORBIT DETERMINATION ACCURACY

ST	557.0	SR	1392.5	SS	629.1		
CRT	-.1678	CRS	.9941	CST	-.0602		
LSA	1529.3	MSA	553.3	SSA	2.6		
EL1	1396.2	EL2	547.6	ALF	94.54		

LAUNCH DATE OCT 14 1965 FLIGHT TIME 160.00 ARRIVAL DATE MAR 23 1966

HELIOCENTRIC CONIC DISTANCE 439.034

RL	149.20	LAL	.00	LOL	20.44	VL	27.363	GAL	1.80	AZL	98.13	HCA	195.75	SMA	128.82	ECC	.16123	INC	8.1256
RP	108.14	LAP	2.20	LOP	216.04	VP	37.739	GAP	.88	AZP	82.18	TAL	170.59	TAP	6.34	RCA	108.05	APO	149.59
RC	85.157	GL	-51.32	GP	72.89	ZAL	74.17	ZAP	92.75	ETS	1.18	ZAE	111.78	ETE	103.40	ZAC	61.39	ETC	227.31

V1	29.864																		
V2	35.043																		
CLP	-99.38																		

PLANETOCENTRIC CONIC

C3	24.522	VHL	4.952	DLA	-62.62	RAL	349.29	RAD	6568.0	VEL	12.079	PTH	2.16	VHP	7.135	DPA	49.03	RAP	286.52
ECC	1.4036																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
31.50	10 13 6	1789.51	36.23	53.47	236.97	145.24	10 42 55	1189.5	42.65	47.69
148.50	20 1 56	5381.97	36.24	250.86	236.99	145.23	21 31 38	4782.0	42.66	245.09
31.50	10 13 6	1789.51	36.23	53.47	236.97	145.24	10 42 55	1189.5	42.65	47.69
148.50	20 1 56	5381.97	36.24	250.86	236.99	145.23	21 31 38	4782.0	42.66	245.09
31.50	10 13 6	1789.51	36.23	53.47	236.97	145.24	10 42 55	1189.5	42.65	47.69
148.50	20 1 56	5381.97	36.24	250.86	236.99	145.23	21 31 38	4782.0	42.66	245.09

DIFFERENTIAL CORRECTIONS

TDE	-.4472	TRA	.5542	TC3	-.6313	BAU	.4742
RDE	-.0557	RRA	-1.6682	RC3	1.3015	FAU	.03453
FDE	.1499	FRA	1.3501	FC3	-1.2192	BSP	14676
BDE	.4506	BRA	1.7579	BC3	1.4465	FSP	-1017

MID-COURSE EXECUTION ACCURACY

SGT	1613.3	SGR	4390.6	SG3	311.8		
RRT	-.9351	RRF	-.9985	RTF	.9276		
SGB	4677.6	R23	.0576	R13	-.9970		
SG1	4646.3	SG2	540.0	THA	109.23		

ORBIT DETERMINATION ACCURACY

ST	665.6	SR	1261.2	SS	637.5		
CRT	-.5885	CRS	.9931	CST	-.4898		
LSA	1469.5	MSA	529.9	SSA	3.4		
EL1	1331.9	EL2	509.6	ALF	110.36		

LAUNCH DATE OCT 14 1965 FLIGHT TIME 162.00 ARRIVAL DATE MAR 25 1966

HELIOCENTRIC CONIC DISTANCE 445.292

RL	149.20	LAL	.00	LOL	20.44	VL	27.361	GAL	1.87	AZL	96.34	HCA	198.91	SMA	128.81	ECC	.16159	INC	6.3381
RP	108.18	LAP	2.05	LOP	219.24	VP	37.725	GAP	1.27	AZP	84.00	TAL	170.23	TAP	9.14	RCA	107.99	APO	149.62
RC	87.465	GL	-45.02	GP	67.79	ZAL	71.06	ZAP	95.56	ETS	7.31	ZAE	115.70	ETE	109.91	ZAC	56.76	ETC	229.40

V1	29.864																		
V2	35.030																		
CLP	-104.85																		

PLANETOCENTRIC CONIC

C3	18.217	VHL	4.268	DLA	-56.92	RAL	343.56	RAD	6567.7	VEL	11.815	PTH	2.09	VHP	6.165	DPA	43.88	RAP	286.83
ECC	1.2998																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
38.31	10 7 33	1686.02	37.50	41.89	223.57	136.54	10 35 39	1086.0	43.07	34.77
141.69	19 21 46	5342.72	37.51	247.69	223.58	136.53	20 50 49	4742.7	43.08	240.57
38.31	10 7 33	1686.02	37.50	41.89	223.57	136.54	10 35 39	1086.0	43.07	34.77
141.69	19 21 46	5342.72	37.51	247.69	223.58	136.53	20 50 49	4742.7	43.08	240.57
38.31	10 7 33	1686.02	37.50	41.89	223.57	136.54	10 35 39	1086.0	43.07	34.77
141.69	19 21 46	5342.72	37.51	247.69	223.58	136.53	20 50 49	4742.7	43.08	240.57

DIFFERENTIAL CORRECTIONS

TDE	-.4008	TRA	.7264	TC3	-1.1349	BAU	.5124
RDE	.0593	RRA	-1.5853	RC3	1.7718	FAU	.04569
FDE	.0677	FRA	1.7101	FC3	-2.1712	BSP	14627
BDE	.4051	BRA	1.7438	BC3	2.1041	FSP	-1294

MID-COURSE EXECUTION ACCURACY

SGT	2102.4	SGR	4183.2	SG3	397.2		
RRT	-.9636	RRF	-.9982	RTF	.9582		
SGB	4681.8	R23	.0670	R13	-.9961		
SG1	4654.5	SG2	505.0	THA	116.17		

ORBIT DETERMINATION ACCURACY

ST	760.0	SR	1173.4	SS	674.5		
CRT	-.7526	CRS	.9902	CST	-.6536		
LSA	1475.2	MSA	482.9	SSA	4.2		
EL1	1326.0	EL2	442.8	ALF	119.61		

LAUNCH DATE OCT 14 1965 FLIGHT TIME 164.00 ARRIVAL DATE MAR 27 1966

HELIOCENTRIC CONIC DISTANCE 451.541

RL	149.20	LAL	.00	LOL	20.44	VL	27.357	GAL	1.95	AZL	95.05	HCA	202.08	SMA	128.78	ECC	.16213	INC	5.0486
RP	108.22	LAP	1.90	LOP	222.45	VP	37.710	GAP	1.65	AZP	85.32	TAL	169.82	TAP	11.91	RCA	107.90	APO	149.66
RC	89.783	GL	-38.86	GP	63.00	ZAL	68.19	ZAP	98.87	ETS	12.20	ZAE	118.97	ETE	115.84	ZAC	52.37	ETC	230.41

V1	29.864																		
V2	35.016																		
CLP	-109.85																		

PLANETOCENTRIC CONIC

C3	14.708	VHL	3.835	DLA	-51.18	RAL	339.49	RAD	6567.6	VEL	11.666	PTH	2.05	VHP	5.519	DPA	39.03	RAP	286.83
ECC	1.2421																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
45.41	10 11 49	1592.72	36.59	30.43	212.79	128.67	10 38 22	992.7	41.30	22.53
134.59	18 44 59	5338.31	36.60	246.15	212.81	128.66	20 13 58	4738.3	41.32	238.25
45.41	10 11 49	1592.72	36.59	30.43	212.79	128.67	10 38 22	992.7	41.30	22.53
134.59	18 44 59	5338.31	36.60	246.15	212.81	128.66	20 13 58	4738.3	41.32	238.25
45.41	10 11 49	1592.72	36.59	30.43	212.79	128.67	10 38 22	992.7	41.30	22.53
134.59	18 44 59	5338.31	36.60	246.15	212.81	128.66	20 13 58	4738.3	41.32	238.25

DIFFERENTIAL CORRECTIONS

TDE	-.3410	TRA	.8834	TC3	-1.7192	BAU	.5385
RDE	.0591	RRA	-1.5017	RC3	2.1319	FAU	.05613
FDE	.0919	FRA	2.0745	FC3	-3.3040	BSP	14624
BDE	.3460	BRA	1.7422	BC3	2.7387	FSP	-1572

MID-COURSE EXECUTION ACCURACY

SGT	2535.7	SGR	3935.5	SG3	480.1		
RRT	-.9755	RRF	-.9979	RTF	.9707		
SGB	4681.7	R23	.0764	R13	-.9950		
SG1	4657.9	SG2	471.5	THA	122.52		

ORBIT DETERMINATION ACCURACY

ST	812.3	SR	1078.3	SS	711.1		
CRT	-.8276	CRS	.9849	CST	-.7179		
LSA	1459.7	MSA	444.6	SSA	5.2		
EL1	1295.6	EL2	379.5	ALF	125.44		

LAUNCH DATE OCT 14 1965 FLIGHT TIME 166.00 ARRIVAL DATE MAR 29 1966

HELIOCENTRIC CONIC DISTANCE 457,776

RL	149.20	LAL	.00	LOL	20.44	VL	27.351	GAL	2.05	AZL	94.07	HCA	205.26	SMA	128.74	ECC	.16284	INC	4.0702	V1	29.864
RP	108.26	LAP	1.74	LOP	225.65	VP	37.693	GAP	2.04	AZP	86.32	TAL	169.38	TAP	14.64	RCA	107.77	APO	149.70	V2	35.003
RC	92.112	GL	-33.04	GP	58.46	ZAL	65.60	ZAP	102.54	ETS	16.19	ZAE	121.64	ETE	121.49	ZAC	48.21	ETC	230.65	CLP	-114.52

PLANETOCENTRIC CONIC

C3	12.659	VHL	3.558	DLA	-45.63	RAL	336.60	RAD	6567.5	VEL	11.578	PTH	2.02	VHP	5.079	DPA	34.44	RAP	286.68	ECC	1.2083

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
52.60	10 24 44	1500.19	34.36	19.40	204.61	122.10	10 49 44	900.2	38.31	11.17
127.40	18 9 3	5365.33	34.37	246.86	204.62	122.09	19 38 29	4765.3	38.32	238.63
52.60	10 24 44	1500.19	34.36	19.40	204.61	122.10	10 49 44	900.2	38.31	11.17
127.40	18 9 3	5365.33	34.37	246.86	204.62	122.09	19 38 29	4765.3	38.32	238.63
52.60	10 24 44	1500.19	34.36	19.40	204.61	122.10	10 49 44	900.2	38.31	11.17
127.40	18 9 3	5365.33	34.37	246.86	204.62	122.09	19 38 29	4765.3	38.32	238.63

DIFFERENTIAL CORRECTIONS

TDE	-.2624	TRA	1.0333	TC3	-2.3286	BAU	.5592	SGT	2930.1	SGR	3665.2	SG3	555.3	ST	831.0	SR	980.6	SS	749.2
RDE	.0161	RRA	-1.4172	RC3	2.3444	FAU	.06522	RRT	-.9814	RRF	-.9974	RTF	.9770	CRT	-.8740	CRS	.9768	CST	-.7498
FDE	.1997	FRA	2.4230	FC3	-4.4600	BSP	14643	SGB	4692.5	R23	.0845	R13	-.9938	LSA	1428.8	MSA	414.7	SSA	6.3
BDE	.2629	BRA	1.7539	BC3	3.3043	FSP	-1825	SG1	4671.7	SG2	440.9	THA	128.52	ELI	1245.5	EL2	317.9	ALF	129.61

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

LAUNCH DATE OCT 14 1965 FLIGHT TIME 168.00 ARRIVAL DATE MAR 31 1966

HELIOCENTRIC CONIC DISTANCE 463,994

RL	149.20	LAL	.00	LOL	20.44	VL	27.343	GAL	2.15	AZL	93.30	HCA	208.44	SMA	128.68	ECC	.16372	INC	3.2984	V1	29.864
RP	108.31	LAP	1.57	LOP	228.84	VP	37.675	GAP	2.42	AZP	87.10	TAL	168.89	TAP	17.33	RCA	107.61	APO	149.75	V2	34.990
RC	94.449	GL	-27.69	GP	54.15	ZAL	63.30	ZAP	106.43	ETS	19.47	ZAE	123.75	ETE	126.93	ZAC	44.31	ETC	230.20	CLP	-118.87

PLANETOCENTRIC CONIC

C3	11.446	VHL	3.383	DLA	-40.42	RAL	334.56	RAD	6567.4	VEL	11.525	PTH	2.01	VHP	4.782	DPA	30.09	RAP	286.50	ECC	1.1884

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
59.87	10 46 16	1398.92	31.45	8.45	198.64	116.82	11 9 35	798.9	34.77	.17
120.13	17 31 14	5424.10	31.46	250.12	198.64	116.80	19 1 38	4824.1	34.77	241.84
59.87	10 46 16	1398.92	31.45	8.45	198.64	116.82	11 9 35	798.9	34.77	.17
120.13	17 31 14	5424.10	31.46	250.12	198.64	116.80	19 1 38	4824.1	34.77	241.84
59.87	10 46 16	1398.92	31.45	8.45	198.64	116.82	11 9 35	798.9	34.77	.17
120.13	17 31 14	5424.10	31.46	250.12	198.64	116.80	19 1 38	4824.1	34.77	241.84

DIFFERENTIAL CORRECTIONS

TDE	-.1682	TRA	1.1781	TC3	-2.9114	BAU	.5789	SGT	3290.7	SGR	3381.6	SG3	618.0	ST	838.2	SR	891.1	SS	796.0
RDE	-.0338	RRA	-1.3305	RC3	2.4162	FAU	.07265	RRT	-.9849	RRF	-.9967	RTF	.9807	CRT	-.9165	CRS	.9668	CST	-.7842
FDE	.3606	FRA	2.7331	FC3	-5.4954	BSP	14745	SGB	4718.5	R23	.0897	R13	-.9926	LSA	1407.9	MSA	384.7	SSA	7.7
BDE	.1715	BRA	1.7771	BC3	3.7234	FSP	-2046	SG1	4700.6	SG2	409.8	THA	134.21	ELI	1197.7	EL2	249.5	ALF	133.09

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

LAUNCH DATE OCT 14 1965 FLIGHT TIME 170.00 ARRIVAL DATE APR 2 1966

HELIOCENTRIC CONIC DISTANCE 470,194

RL	149.20	LAL	.00	LOL	20.44	VL	27.334	GAL	2.27	AZL	92.67	HCA	211.62	SMA	128.62	ECC	.16477	INC	2.6708	V1	29.864
RP	108.35	LAP	1.40	LOP	232.04	VP	37.656	GAP	2.79	AZP	87.73	TAL	168.35	TAP	19.98	RCA	107.42	APO	149.81	V2	34.977
RC	96.794	GL	-22.84	GP	50.08	ZAL	61.26	ZAP	110.42	ETS	22.13	ZAE	125.33	ETE	132.13	ZAC	40.70	ETC	229.07	CLP	-122.93

PLANETOCENTRIC CONIC

C3	10.748	VHL	3.278	DLA	-35.62	RAL	333.13	RAD	6567.4	VEL	11.495	PTH	2.00	VHP	4.587	DPA	25.98	RAP	286.36	ECC	1.1769

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
67.42	11 18 31	1275.72	28.29	356.66	194.42	112.61	11 39 47	675.7	31.10	348.45
112.58	16 47 36	5521.42	28.30	256.43	194.42	112.60	18 19 37	4921.4	31.10	248.22
67.42	11 18 31	1275.72	28.29	356.66	194.42	112.61	11 39 47	675.7	31.10	348.45
112.58	16 47 36	5521.42	28.30	256.43	194.42	112.60	18 19 37	4921.4	31.10	248.22
67.42	11 18 31	1275.72	28.29	356.66	194.42	112.61	11 39 47	675.7	31.10	348.45
112.58	16 47 36	5521.42	28.30	256.43	194.42	112.60	18 19 37	4921.4	31.10	248.22

DIFFERENTIAL CORRECTIONS

TDE	-.0610	TRA	1.3207	TC3	-3.4242	BAU	.5976	SGT	3621.4	SGR	3096.7	SG3	665.8	ST	861.1	SR	816.6	SS	858.1
RDE	-.0787	RRA	-1.2460	RC3	2.3603	FAU	.07787	RRT	-.9868	RRF	-.9957	RTF	.9829	CRT	-.9571	CRS	.9571	CST	-.8324
FDE	.5536	FRA	2.9974	FC3	-6.2721	BSP	14878	SGB	4764.9	R23	.0914	R13	-.9915	LSA	1421.5	MSA	351.9	SSA	9.2
BDE	.0995	BRA	1.8157	BC3	4.1589	FSP	-2214	SG1	4749.5	SG2	382.8	THA	139.52	ELI	1174.0	EL2	173.6	ALF	136.59

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

LAUNCH DATE OCT 14 1965 FLIGHT TIME 172.00 ARRIVAL DATE APR 4 1966

HELIOCENTRIC CONIC DISTANCE 476,373

RL	149.20	LAL	.00	LOL	20.44	VL	27.322	GAL	2.40	AZL	92.15	HCA	214.81	SMA	128.54	ECC	.16599	INC	2.1475	V1	29.864
RP	108.39	LAP	1.23	LOP	235.23	VP	37.636	GAP	3.16	AZP	88.24	TAL	167.77	TAP	22.58	RCA	107.20	APO	149.88	V2	34.964
RC	99.145	GL	-18.50	GP	46.27	ZAL	59.45	ZAP	114.41	ETS	24.29	ZAE	126.43	ETE	137.01	ZAC	37.44	ETC	227.27	CLP	-126.71

PLANETOCENTRIC CONIC

C3	10.392	VHL	3.224	DLA	-31.26	RAL	332.16	RAD	6567.4	VEL	11.480	PTH	2.00	VHP	4.468	DPA	22.15	RAP	286.31	ECC	1.1710

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
76.16	12 9 39	1099.52	25.13	341.70	191.54	109.23	12 27 59	499.5	27.52	333.60
103.84	15 48 44	5683.92	25.15	267.63	191.55	109.22	17 23 28	5083.9	27.53	259.53
76.16	12 9 39	1099.52	25.13	341.70	191.54	109.23	12 27 59	499.5	27.52	333.60
103.84	15 48 44	5683.92	25.15	267.63	191.55	109.22	17 23 28	5083.9	27.53	259.53
110.00	14 42 33	602.62	17.53	301.73	187.82	119.83	14 52 36	2.6	21.36	294.69
110.00	18 15 0	5228.83	33.26	235.15	193.83	98.38	19 42 9	4628.8	34.06	226.00

DIFFERENTIAL CORRECTIONS

TDE	.0545	TRA	1.4601	TC3	-3.8510	BAU	.6178	SGT	3923.2	SGR	2817.9	SG3	697.4	ST	919.0	SR	753.1	SS	929.6
RDE	-.1114	RRA	-1.1627	RC3	2.2241	FAU	.08118	RRT	-.9877	RRF	-.9944	RTF	.9845	CRT	-.9869	CRS	.9483	CST	-.8853
FDE	.7526	FRA	3.2026	FC3	-6.7632	BSP	15111	SGB	4830.3	R23	.0886	R13	-.9906	LSA	1474.7	MSA	317.6	SSA	10.8
BDE	.1240	BRA	1.8665	BC3	4.4471	FSP	-2338	SG1	4817.0	SG2	358.3	THA	144.42	ELI	1184.4	EL2	94.2	ALF	140.74

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

LAUNCH DATE OCT 14 1965 FLIGHT TIME 174.00 ARRIVAL DATE APR 6 1966

HELIOCENTRIC CONIC DISTANCE 482.533

RL 149.20 LAL .00 LOL 20.44 VL 27.310 GAL 2.55 AZL 91.70 HCA 217.99 SMA 128.45 ECC .16738 INC 1.7021 V1 29.864
RP 108.43 LAP 1.05 LOP 238.42 VP 37.615 GAP 3.53 AZP 88.66 TAL 167.15 TAP 25.14 RCA 106.95 APO 149.95 V2 34.951
RC 101.502 GL -14.64 GP 42.73 ZAL 57.83 ZAP 118.31 ETS 26.03 ZAE 127.11 ETE 141.51 ZAC 34.58 ETC 224.80 CLP-130.22

PLANETOCENTRIC CONIC

C3 10.274 VHL 3.205 DLA -27.33 RAL 331.55 RAD 6567.4 VEL 11.474 PTH 1.99 VHP 4.409 DPA 18.60 RAP 286.39 ECC 1.1691

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 51 9	959.30	17.96	328.47	188.13	112.27	13 7 8	359.3	20.82	320.97
90.00	15 2 18	5819.57	26.41	277.98	190.82	100.61	16 39 18	5219.6	27.61	269.51
100.00	13 34 28	819.32	15.40	317.00	186.94	115.94	13 48 8	219.3	18.77	309.83
100.00	17 1 40	5434.78	29.17	250.14	191.30	96.82	18 32 15	4834.8	29.81	241.39
110.00	13 44 56	786.44	11.03	312.00	184.42	122.56	13 58 3	186.4	15.24	305.43
110.00	19 7 41	5040.42	34.18	220.54	191.64	89.80	20 31 42	4440.4	33.78	211.32

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE .1781 TRA 1.6006 TC3-4.1735 BAU .6373 SGT 4199.1 SGR 2554.3 SG3 714.0 ST 1020.4 SR 699.4 SS 1009.0
RDE -.1343 RRA-1.0863 RC3 2.0273 FAU .08222 RRT -.9877 RRF -.9927 RTF .9853 CRT -.9992 CRS .9408 CST -.9289
FDE .9503 FRA 3.3594 FC3-6.9279 BSP 15330 SGB 4914.9 R23 .0828 R13 -.9897 LSA 1570.4 MSA 287.0 SSA 12.3
BDE .2230 BRA 1.9345 BC3 4.6398 FSP -2395 SG1 4903.0 SG2 342.6 THA 148.83 EL1 1236.9 EL2 23.0 ALF 145.58

LAUNCH DATE OCT 14 1965 FLIGHT TIME 176.00 ARRIVAL DATE APR 8 1966

HELIOCENTRIC CONIC DISTANCE 488.670

RL 149.20 LAL .00 LOL 20.44 VL 27.296 GAL 2.70 AZL 91.32 HCA 221.17 SMA 128.36 ECC .16893 INC 1.3161 V1 29.864
RP 108.46 LAP .87 LOP 241.60 VP 37.593 GAP 3.90 AZP 89.01 TAL 166.49 TAP 27.65 RCA 106.67 APO 150.04 V2 34.939
RC 103.862 GL -11.23 GP 39.46 ZAL 56.35 ZAP 122.08 ETS 27.42 ZAE 127.44 ETE 145.61 ZAC 32.16 ETC 221.69 CLP-133.47

PLANETOCENTRIC CONIC

C3 10.335 VHL 3.215 DLA -23.80 RAL 331.20 RAD 6567.4 VEL 11.477 PTH 2.00 VHP 4.397 DPA 15.34 RAP 286.62 ECC 1.1701

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 35 25	1212.62	10.81	343.63	185.36	116.33	11 55 38	612.6	14.26	336.66
90.00	16 15 17	5568.61	28.27	259.89	189.98	91.75	17 48 6	4968.6	28.21	251.22
100.00	12 37 30	1012.22	9.37	328.15	184.61	118.51	12 54 22	412.2	13.11	321.35
100.00	17 55 54	5244.24	29.89	236.04	190.00	89.44	19 23 18	4644.2	29.49	227.26
110.00	13 7 25	918.39	6.11	319.05	182.62	123.70	13 22 44	318.4	10.50	312.71
110.00	19 42 27	4910.84	33.69	210.46	189.73	83.86	21 4 18	4310.8	32.48	201.43

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE .3038 TRA 1.7389 TC3-4.4082 BAU .6587 SGT 4449.6 SGR 2308.0 SG3 716.8 ST 1154.5 SR 646.6 SS 1081.4
RDE -.1442 RRA-1.0136 RC3 1.8156 FAU .08185 RRT -.9869 RRF -.9903 RTF .9860 CRT -.9966 CRS .9322 CST -.9578
FDE 1.1222 FRA 3.4588 FC3-6.8563 BSP 15667 SGB 5012.6 R23 .0731 R13 -.9891 LSA 1688.6 MSA 262.1 SSA 13.6
BDE .3362 BRA 2.0128 BC3 4.7675 FSP -2421 SG1 5001.6 SG2 331.2 THA 152.76 EL1 1322.4 EL2 46.5 ALF 150.79

LAUNCH DATE OCT 14 1965 FLIGHT TIME 178.00 ARRIVAL DATE APR 10 1966

HELIOCENTRIC CONIC DISTANCE 494.786

RL 149.20 LAL .00 LOL 20.44 VL 27.280 GAL 2.88 AZL 90.98 HCA 224.35 SMA 128.25 ECC .17067 INC .9764 V1 29.864
RP 108.50 LAP .68 LOP 244.78 VP 37.570 GAP 4.27 AZP 89.30 TAL 165.78 TAP 30.13 RCA 106.37 APO 150.14 V2 34.926
RC 106.225 GL -8.22 GP 36.47 ZAL 55.00 ZAP 125.68 ETS 28.56 ZAE 127.49 ETE 149.26 ZAC 30.20 ETC 217.99 CLP-136.49

PLANETOCENTRIC CONIC

C3 10.536 VHL 3.246 DLA -20.62 RAL 331.08 RAD 6567.4 VEL 11.486 PTH 2.00 VHP 4.422 DPA 12.38 RAP 287.00 ECC 1.1734

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 52 33	1368.22	5.99	352.52	184.15	117.73	11 15 21	768.2	9.65	345.76
90.00	16 57 9	5420.80	28.10	249.08	189.05	86.34	18 27 30	4820.8	27.30	240.51
100.00	12 0 18	1149.57	4.83	335.81	183.52	119.54	12 19 28	549.6	8.73	329.19
100.00	18 32 5	5114.69	29.41	226.44	188.93	84.42	19 57 20	4514.7	28.33	217.81
110.00	12 39 39	1026.26	2.01	324.71	181.76	124.13	12 56 45	426.3	6.47	318.47
110.00	20 9 14	4810.76	32.70	202.82	188.39	79.44	21 29 24	4210.8	30.90	194.06

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE .4329 TRA 1.8786 TC3-4.5539 BAU .6798 SGT 4677.2 SGR 2083.0 SG3 708.3 ST 1312.1 SR 595.7 SS 1147.1
RDE -.1459 RRA -.9478 RC3 1.5988 FAU .07999 RRT -.9852 RRF -.9873 RTF .9864 CRT -.9846 CRS .9220 CST -.9751
FDE 1.2719 FRA 3.5158 FC3-6.5727 BSP 16025 SGB 5120.1 R23 .0626 R13 -.9885 LSA 1825.4 MSA 244.6 SSA 14.5
BDE .4568 BRA 2.1041 BC3 4.8264 FSP -2406 SG1 5109.7 SG2 326.9 THA 156.21 EL1 1437.8 EL2 95.2 ALF 155.80

LAUNCH DATE OCT 14 1965 FLIGHT TIME 180.00 ARRIVAL DATE APR 12 1966

HELIOCENTRIC CONIC DISTANCE 500.880

RL 149.20 LAL .00 LOL 20.44 VL 27.264 GAL 3.06 AZL 90.67 HCA 227.53 SMA 128.14 ECC .17258 INC .6736 V1 29.864
RP 108.54 LAP .50 LOP 247.97 VP 37.547 GAP 4.64 AZP 89.55 TAL 165.03 TAP 32.56 RCA 106.03 APO 150.26 V2 34.914
RC 108.588 GL -5.57 GP 33.76 ZAL 53.73 ZAP 129.07 ETS 29.49 ZAE 127.33 ETE 152.49 ZAC 28.72 ETC 213.83 CLP-139.30

PLANETOCENTRIC CONIC

C3 10.855 VHL 3.295 DLA -17.78 RAL 331.13 RAD 6567.4 VEL 11.500 PTH 2.00 VHP 4.478 DPA 9.70 RAP 287.54 ECC 1.1786

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 21 41	1490.14	2.09	359.36	183.76	118.25	10 46 31	890.1	5.85	352.69
90.00	17 28 25	5311.03	27.37	241.14	188.49	82.43	18 56 56	4711.0	26.04	232.72
100.00	11 32 35	1261.32	1.05	341.96	183.19	119.88	11 53 37	661.3	5.02	335.42
100.00	19 0 12	5015.08	28.53	219.17	188.29	80.69	20 23 47	4415.1	26.95	210.73
110.00	12 17 59	1119.12	-1.54	329.55	181.56	124.15	12 36 38	519.1	2.95	323.35
110.00	20 31 18	4730.05	31.53	196.81	187.58	76.06	21 50 8	4130.1	29.30	188.32

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE .5636 TRA 2.0193 TC3-4.6267 BAU .7013 SGT 4884.1 SGR 1880.6 SG3 691.3 ST 1480.9 SR 545.4 SS 1201.7
RDE -.1406 RRA -.8884 RC3 1.3948 FAU .07720 RRT -.9825 RRF -.9833 RTF .9866 CRT -.9666 CRS .9086 CST -.9851
FDE 1.3944 FRA 3.5352 FC3-6.1573 BSP 16418 SGB 5233.7 R23 .0516 R13 -.9881 LSA 1969.8 MSA 233.1 SSA 15.1
BDE .5809 BRA 2.2061 BC3 4.8324 FSP -2362 SG1 5223.4 SG2 327.2 THA 159.19 EL1 1572.6 EL2 131.6 ALF 160.26

LAUNCH DATE OCT 14 1965 FLIGHT TIME 182.00 ARRIVAL DATE APR 14 1966

HELIOCENTRIC CONIC DISTANCE 506.950

RL 149.20 LAL .00 LOL 20.44 VL 27.246 GAL 3.26 AZL 90.40 HCA 230.70 SMA 128.02 ECC .17467 INC .4000 V1 29.864
RP 108.58 LAP .31 LOP 251.14 VP 37.524 GAP 5.00 AZP 89.75 TAL 164.25 TAP 34.96 RCA 105.66 APO 150.39 V2 34.903
RC 110.951 GL -3.24 GP 31.30 ZAL 52.52 ZAP 132.26 ETS 30.27 ZAE 127.03 ETE 155.31 ZAC 27.70 ETC 209.36 CLP-141.91

PLANETOCENTRIC CONIC

C3 11.278 VHL 3.358 DLA -15.22 RAL 331.32 RAD 6567.4 VEL 11.518 PTH 2.01 VHP 4.560 DPA 7.29 RAP 288.23 ECC 1.1856

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 57 45	1592.97	-1.23	5.09	183.93	118.29	10 24 18	993.0	2.56	358.46
90.00	17 53 55	5223.93	26.43	234.94	188.31	79.45	19 20 58	4623.9	24.71	226.69
100.00	11 10 49	1357.26	-2.20	347.22	183.39	119.82	11 33 26	757.3	1.79	340.70
100.00	19 23 32	4934.88	27.52	213.43	188.07	77.83	20 45 47	4334.9	25.56	205.17
110.00	12 0 35	1201.36	-4.68	333.86	181.85	123.90	12 20 36	601.4	-.19	327.64
110.00	20 50 16	4663.54	30.34	192.00	187.24	73.44	22 7 59	4063.5	27.78	183.74

DIFFERENTIAL CORRECTIONS
TDE .6982 TRA 2.1657 TC3-4.6266 BAU .7208
RDE -.1314 RRA -.8368 RC3 1.2033 FAU .07340
FDE 1.4962 FRA 3.5324 FC3-5.6340 BSP 16766
BDE .7105 BRA 2.3217 BC3 4.7805 FSP -2287

MID-COURSE EXECUTION ACCURACY
SGT 5073.2 SGR 1700.8 SG3 668.4
RRT -.9786 RRF -.9783 RTF .9865
SGB 5350.7 R23 .0425 R13 -.9876
SG1 5340.4 SG2 332.2 THA 161.76

ORBIT DETERMINATION ACCURACY
ST 1657.5 SR 497.9 SS 1248.4
CRT -.9442 CRS .8917 CST -.9908
LSA 2121.8 MSA 226.0 SSA 15.4
EL1 1723.4 EL2 157.7 ALF 164.03

LAUNCH DATE OCT 14 1965 FLIGHT TIME 184.00 ARRIVAL DATE APR 16 1966

HELIOCENTRIC CONIC DISTANCE 512.997

RL 149.20 LAL .00 LOL 20.44 VL 27.228 GAL 3.48 AZL 90.15 HCA 233.88 SMA 127.90 ECC .17696 INC .1500 V1 29.864
RP 108.61 LAP .12 LOP 254.32 VP 37.500 GAP 5.37 AZP 89.91 TAL 163.44 TAP 37.31 RCA 105.27 APO 150.53 V2 34.892
RC 113.313 GL -1.19 GP 29.08 ZAL 51.37 ZAP 135.25 ETS 30.95 ZAE 126.62 ETE 157.75 ZAC 27.14 ETC 204.76 CLP-144.35

PLANETOCENTRIC CONIC

C3 11.798 VHL 3.435 DLA -12.91 RAL 331.64 RAD 6567.4 VEL 11.541 PTH 2.01 VHP 4.664 DPA 5.13 RAP 289.08 ECC 1.1942

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 38 32	1682.98	-4.13	10.12	184.52	118.04	10 6 35	1083.0	-.34	3.48
90.00	18 15 39	5152.70	25.45	229.95	188.48	77.14	19 41 32	4552.7	23.42	221.87
100.00	10 53 11	1442.12	-5.06	351.90	184.00	119.50	11 17 13	842.1	-1.09	345.36
100.00	19 43 41	4868.79	26.48	208.79	188.20	75.60	21 4 50	4268.8	24.24	200.71
110.00	11 46 22	1275.56	-7.48	337.77	182.51	123.45	12 7 37	675.6	-3.03	331.51
110.00	21 7 0	4608.11	29.20	188.09	187.29	71.39	22 23 48	4008.1	26.38	180.04

DIFFERENTIAL CORRECTIONS
TDE .8317 TRA 2.3135 TC3-4.5811 BAU .7408
RDE -.1174 RRA -.7907 RC3 1.0363 FAU .06932
FDE 1.5700 FRA 3.5050 FC3-5.0865 BSP 17165
BDE .8399 BRA 2.4449 BC3 4.6968 FSP -2204

MID-COURSE EXECUTION ACCURACY
SGT 5244.5 SGR 1541.5 SG3 641.0
RRT -.9734 RRF -.9720 RTF .9863
SGB 5466.3 R23 .0344 R13 -.9871
SG1 5455.8 SG2 339.2 THA 163.97

ORBIT DETERMINATION ACCURACY
ST 1828.8 SR 451.3 SS 1281.1
CRT -.9161 CRS .8683 CST -.9942
LSA 2267.1 MSA 222.2 SSA 15.5
EL1 1875.3 EL2 176.5 ALF 167.15

LAUNCH DATE OCT 14 1965 FLIGHT TIME 186.00 ARRIVAL DATE APR 18 1966

HELIOCENTRIC CONIC DISTANCE 519.018

RL 149.20 LAL .00 LOL 20.44 VL 27.209 GAL 3.71 AZL 89.92 HCA 237.05 SMA 127.77 ECC .17944 INC .0785 V1 29.864
RP 108.64 LAP -.07 LOP 257.49 VP 37.476 GAP 5.74 AZP 90.04 TAL 162.59 TAP 39.64 RCA 104.84 APO 150.70 V2 34.881
RC 115.673 GL .61 GP 27.09 ZAL 50.25 ZAP 138.04 ETS 31.57 ZAE 126.16 ETE 159.86 ZAC 26.99 ETC 200.23 CLP-146.63

PLANETOCENTRIC CONIC

C3 12.411 VHL 3.523 DLA -10.84 RAL 332.05 RAD 6567.5 VEL 11.567 PTH 2.02 VHP 4.786 DPA 3.22 RAP 290.06 ECC 1.2043

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 22 44	1763.58	-6.69	14.66	185.43	117.58	9 52 7	1163.6	-2.94	7.98
90.00	18 34 46	5093.49	24.49	225.88	188.95	75.32	19 59 40	4493.5	22.23	217.94
100.00	10 38 39	1518.64	-7.61	356.15	184.93	119.00	11 3 58	918.6	-3.68	349.56
100.00	20 1 32	4813.67	25.49	205.00	188.65	73.84	21 21 45	4213.7	23.03	197.06
110.00	11 34 37	1343.39	-10.01	341.40	183.48	122.86	11 57 0	743.4	-5.61	335.07
110.00	21 22 3	4561.67	28.15	184.88	187.67	69.76	22 38 5	3961.7	25.13	177.01

DIFFERENTIAL CORRECTIONS
TDE .9655 TRA 2.4650 TC3-4.4937 BAU .7601
RDE -.1006 RRA -.7501 RC3 .8907 FAU .06501
FDE 1.6218 FRA 3.4615 FC3-4.5347 BSP 17581
BDE .9707 BRA 2.5766 BC3 4.5812 FSP -2115

MID-COURSE EXECUTION ACCURACY
SGT 5399.2 SGR 1401.3 SG3 611.1
RRT -.9668 RRF -.9643 RTF .9861
SGB 5578.1 R23 .0275 R13 -.9866
SG1 5567.3 SG2 347.5 THA 165.86

ORBIT DETERMINATION ACCURACY
ST 1933.5 SR 407.4 SS 1302.7
CRT -.8804 CRS .8370 CST -.9963
LSA 2405.8 MSA 220.5 SSA 15.4
EL1 2025.8 EL2 190.1 ALF 169.71

LAUNCH DATE OCT 14 1965 FLIGHT TIME 188.00 ARRIVAL DATE APR 20 1966

HELIOCENTRIC CONIC DISTANCE 525.015

RL 149.20 LAL .00 LOL 20.44 VL 27.188 GAL 3.95 AZL 89.71 HCA 240.23 SMA 127.64 ECC .18213 INC .2929 V1 29.864
RP 108.68 LAP -.25 LOP 260.67 VP 37.451 GAP 6.12 AZP 90.15 TAL 161.70 TAP 41.93 RCA 104.39 APO 150.88 V2 34.870
RC 118.029 GL 2.20 GP 25.29 ZAL 49.17 ZAP 140.64 ETS 32.16 ZAE 125.66 ETE 161.68 ZAC 27.22 ETC 195.93 CLP-148.77

PLANETOCENTRIC CONIC

C3 13.118 VHL 3.622 DLA -8.96 RAL 332.55 RAD 6567.5 VEL 11.598 PTH 2.03 VHP 4.925 DPA 1.53 RAP 291.17 ECC 1.2159

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 9 34	1836.95	-8.98	18.83	186.61	116.97	9 40 11	1236.9	-5.29	12.10
90.00	18 51 54	5043.87	23.59	222.52	189.68	73.87	20 15 58	4443.9	21.15	214.70
100.00	10 26 32	1588.62	-9.89	.09	186.13	118.35	10 53 1	988.6	-6.03	353.43
100.00	20 17 37	4767.43	24.58	201.86	189.35	72.43	21 37 4	4167.4	21.94	194.06
110.00	11 24 50	1406.09	-12.30	344.81	184.70	122.15	11 48 16	806.1	-7.97	338.39
110.00	21 35 49	4522.73	27.20	182.25	188.32	68.46	22 51 11	3922.7	24.03	174.52

DIFFERENTIAL CORRECTIONS
TDE 1.1010 TRA 2.6220 TC3-4.3715 BAU .7783
RDE -.0825 RRA -.7150 RC3 .7645 FAU .06056
FDE 1.6585 FRA 3.4090 FC3-3.9964 BSP 17974
BDE 1.1041 BRA 2.7178 BC3 4.4378 FSP -2018

MID-COURSE EXECUTION ACCURACY
SGT 5540.1 SGR 1278.6 SG3 580.0
RRT -.9584 RRF -.9549 RTF .9857
SGB 5685.8 R23 .0221 R13 -.9861
SG1 5674.6 SG2 356.2 THA 167.48

ORBIT DETERMINATION ACCURACY
ST 2151.6 SR 367.9 SS 1316.7
CRT -.8360 CRS .7965 CST -.9976
LSA 2539.7 MSA 219.9 SSA 15.3
EL1 2173.7 EL2 199.8 ALF 171.80

LAUNCH DATE OCT 14 1965 FLIGHT TIME 190.00 ARRIVAL DATE APR 22 1966

HELIOCENTRIC CONIC DISTANCE 530.985

RL	149.20	LAL	.00	LOL	20.44	VL	27.167	GAL	4.22	AZL	89.51	HCA	243.40	SMA	127.50	ECC	.18504	INC	.4936	VI	29.864
RP	108.71	LAP	-.44	LOP	263.84	VP	37.427	GAP	6.50	AZP	90.22	TAL	160.79	TAP	44.19	RCA	103.90	APO	151.09	V2	34.860
RC	120.382	GL	3.59	GP	23.68	ZAL	48.10	ZAP	143.06	ETS	32.76	ZAE	125.15	ETE	163.24	ZAC	27.76	ETC	191.97	CLP	-150.78

PLANETOCENTRIC CONIC

C3	13.921	VHL	3.731	DLA	-7.26	RAL	333.12	RAD	6567.5	VEL	11.632	PTH	2.04	VHP	5.079	DPA	.04	RAP	292.39	ECC	1.2291

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 58 30	1904.54	-11.04	22.73	188.01	116.24	9 30 15	1304.5	-7.43	15.92
90.00	19 7 30	5002.18	22.77	219.74	190.63	72.70	20 30 52	4402.2	20.19	212.02
100.00	10 16 22	1653.34	-11.96	3.78	187.54	117.60	10 43 55	1053.3	-8.17	357.04
100.00	20 32 19	4728.61	23.76	199.27	190.29	71.30	21 51 8	4128.6	20.98	191.57
110.00	11 16 40	1464.53	-14.39	348.04	186.13	121.34	11 41 5	864.5	-10.14	341.52
110.00	21 48 30	4490.18	26.37	180.08	189.20	67.42	23 3 20	3890.2	23.08	172.47

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY				ORBIT DETERMINATION ACCURACY			
TDE	1.2378	TRA	2.7859	TC3	-4.2222	BAU	.7953	SGT	5669.2	SGR	1171.7	SG3	549.0	ST	2301.3	SR	332.9	SS	1323.4
RDE	-.0633	RRA	-.6848	RC3	.6561	FAU	.05611	RRT	-.9483	RRF	-.9438	RTF	.9853	CRT	-.7801	CRS	.7443	CST	-.9984
FDE	1.6810	FRA	3.3522	FC3	-3.4892	BSP	18344	SGB	5789.0	R23	.0178	R13	-.9856	LSA	2666.4	MSA	220.2	SSA	15.2
BDE	1.2395	BRA	2.8689	BC3	4.2729	FSP	-1918	SG1	5777.5	SG2	365.0	THA	168.87	EL1	2316.0	EL2	206.9	ALF	173.51

LAUNCH DATE OCT 14 1965 FLIGHT TIME 192.00 ARRIVAL DATE APR 24 1966

HELIOCENTRIC CONIC DISTANCE 536.927

RL	149.20	LAL	.00	LOL	20.44	VL	27.146	GAL	4.50	AZL	89.32	HCA	246.57	SMA	127.35	ECC	.18819	INC	.6832	VI	29.864
RP	108.74	LAP	-.63	LOP	267.00	VP	37.402	GAP	6.88	AZP	90.27	TAL	159.85	TAP	46.42	RCA	103.39	APO	151.32	V2	34.851
RC	122.731	GL	4.81	GP	22.23	ZAL	47.05	ZAP	145.33	ETS	33.37	ZAE	124.65	ETE	164.59	ZAC	28.58	ETC	188.41	CLP	-152.68

PLANETOCENTRIC CONIC

C3	14.826	VHL	3.851	DLA	-5.71	RAL	333.74	RAD	6567.6	VEL	11.671	PTH	2.05	VHP	5.247	DPA	-1.26	RAP	293.73	ECC	1.2440

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 49 9	1967.41	-12.91	26.40	189.61	115.42	9 21 56	1367.4	-9.38	19.50
90.00	19 21 51	4967.18	22.05	217.43	191.78	71.77	20 44 38	4367.2	19.35	209.80
100.00	10 7 47	1713.72	-13.84	7.28	189.14	116.76	10 36 21	1113.7	-10.14	.45
100.00	20 45 53	4696.10	23.03	197.13	191.41	70.40	22 4 10	4096.1	20.15	189.52
110.00	11 9 51	1519.43	-16.31	351.14	187.74	120.46	11 35 10	919.4	-12.15	344.51
110.00	22 0 19	4463.15	25.65	178.31	190.28	66.59	23 14 43	3863.2	22.26	170.80

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY				ORBIT DETERMINATION ACCURACY			
TDE	1.3788	TRA	2.9588	TC3	-4.0452	BAU	.8095	SGT	5787.2	SGR	1078.5	SG3	518.6	ST	2445.4	SR	303.2	SS	1326.6
RDE	-.0440	RRA	-.6593	RC3	.5614	FAU	.05154	RRT	-.9362	RRF	-.9308	RTF	.9847	CRT	-.7124	CRS	.6802	CST	-.9989
FDE	1.6963	FRA	3.2956	FC3	-3.0097	BSP	18639	SGB	5886.8	R23	.0146	R13	-.9849	LSA	2789.8	MSA	220.6	SSA	15.1
BDE	1.3795	BRA	3.0314	BC3	4.0640	FSP	-1811	SG1	5875.0	SG2	373.3	THA	170.06	EL1	2455.0	EL2	212.0	ALF	174.91

LAUNCH DATE OCT 14 1965 FLIGHT TIME 194.00 ARRIVAL DATE APR 26 1966

HELIOCENTRIC CONIC DISTANCE 542.839

RL	149.20	LAL	.00	LOL	20.44	VL	27.123	GAL	4.80	AZL	89.14	HCA	249.73	SMA	127.20	ECC	.19158	INC	.8641	VI	29.864
RP	108.76	LAP	-.81	LOP	270.17	VP	37.378	GAP	7.27	AZP	90.30	TAL	158.89	TAP	48.63	RCA	102.84	APO	151.57	V2	34.842
RC	125.075	GL	5.88	GP	20.92	ZAL	46.02	ZAP	147.45	ETS	34.02	ZAE	124.16	ETE	165.76	ZAC	29.62	ETC	185.29	CLP	-154.48

PLANETOCENTRIC CONIC

C3	15.840	VHL	3.980	DLA	-4.31	RAL	334.42	RAD	6567.6	VEL	11.714	PTH	2.06	VHP	5.429	DPA	-2.39	RAP	295.17	ECC	1.2607

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 41 13	2026.37	-14.60	29.90	191.36	114.53	9 14 59	1426.4	-11.17	22.91
90.00	19 35 9	4937.97	21.41	215.53	193.08	71.02	20 57 27	4338.0	18.63	207.96
100.00	10 0 32	1770.49	-15.55	10.63	190.90	115.85	10 30 3	1170.5	-11.95	3.69
100.00	20 58 31	4669.09	22.40	195.37	192.70	69.67	22 16 20	4069.1	19.43	187.83
110.00	11 4 9	1571.34	-18.08	354.12	189.52	119.52	11 30 20	971.3	-14.01	347.37
110.00	22 11 24	4441.00	25.05	176.88	191.53	65.94	23 25 25	3841.0	21.58	169.44

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY				ORBIT DETERMINATION ACCURACY			
TDE	1.5180	TRA	3.1363	TC3	-3.8617	BAU	.8242	SGT	5892.8	SGR	996.6	SG3	488.9	ST	2574.7	SR	278.0	SS	1321.7
RDE	-.0234	RRA	-.6366	RC3	.4826	FAU	.04735	RRT	-.9221	RRF	-.9158	RTF	.9841	CRT	-.6278	CRS	.5992	CST	-.9993
FDE	1.6980	FRA	3.2340	FC3	-2.5879	BSP	18992	SGB	5976.5	R23	.0117	R13	-.9843	LSA	2898.9	MSA	221.4	SSA	14.9
BDE	1.5181	BRA	3.2002	BC3	3.8917	FSP	-1716	SG1	5964.3	SG2	380.9	THA	171.10	EL1	2580.6	EL2	215.9	ALF	176.09

LAUNCH DATE OCT 14 1965 FLIGHT TIME 196.00 ARRIVAL DATE APR 28 1966

HELIOCENTRIC CONIC DISTANCE 548.721

RL	149.20	LAL	.00	LOL	20.44	VL	27.101	GAL	5.12	AZL	88.96	HCA	252.90	SMA	127.05	ECC	.19524	INC	1.0374	VI	29.864
RP	108.79	LAP	-.99	LOP	273.34	VP	37.354	GAP	7.67	AZP	90.30	TAL	157.91	TAP	50.81	RCA	102.25	APO	151.86	V2	34.834
RC	127.413	GL	6.81	GP	19.75	ZAL	45.00	ZAP	149.43	ETS	34.74	ZAE	123.69	ETE	166.77	ZAC	30.85	ETC	182.58	CLP	-156.18

PLANETOCENTRIC CONIC

C3	16.972	VHL	4.120	DLA	-3.03	RAL	335.13	RAD	6567.7	VEL	11.762	PTH	2.08	VHP	5.622	DPA	-3.37	RAP	296.69	ECC	1.2793

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 34 29	2082.04	-16.15	33.26	193.27	113.58	9 9 11	1482.0	-12.82	26.16
90.00	19 47 34	4913.85	20.87	213.96	194.54	70.42	21 9 28	4313.9	18.01	206.46
100.00	9 54 25	1824.20	-17.12	13.84	192.81	114.88	10 24 49	1224.2	-13.62	6.80
100.00	21 10 20	4646.92	21.87	193.94	194.14	69.10	22 27 47	4046.9	18.83	186.46
110.00	10 59 25	1620.71	-19.71	357.03	191.44	118.51	11 26 25	1020.7	-15.75	350.14
110.00	22 21 49	4423.18	24.55	175.73	192.92	65.43	23 35 32	3823.2	21.02	168.36

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY				ORBIT DETERMINATION ACCURACY			
TDE	1.6599	TRA	3.3223	TC3	-3.6657	BAU	.8371	SGT	5988.4	SGR	924.8	SG3	460.4	ST	2695.2	SR	258.0	SS	1313.5
RDE	-.0028	RRA	-.6170	RC3	.4149	FAU	.04329	RRT	-.9060	RRF	-.8988	RTF	.9835	CRT	-.5287	CRS	.5039	CST	-.9995
FDE	1.6939	FRA	3.1740	FC3	-2.2081	BSP	19317	SGB	6059.4	R23	.0094	R13	-.9836	LSA	3001.1	MSA	222.2	SSA	14.7
BDE	1.6599	BRA	3.3791	BC3	3.6891	FSP	-1622	SG1	6047.0	SG2	387.7	THA	172.00	EL1	2698.7	EL2	218.7	ALF	177.08

LAUNCH DATE OCT 14 1965 FLIGHT TIME 198.00 ARRIVAL DATE APR 30 1966

HELIOCENTRIC CONIC DISTANCE 554,569

RL 149.20 LAL .00 LOL 20.44 VL 27,077 GAL 5.46 AZL 88.80 HCA 256.07 SMA 126.90 ECC .19918 INC 1.2049 V1 29.864
RP 108.81 LAP -1.17 LOP 276.50 VP 37,330 GAP 8.08 AZP 90.29 TAL 156.90 TAP 52.97 RCA 101.62 APO 152.18 V2 34.826
RC 129.747 GL 7.63 GP 18.69 ZAL 44.00 ZAP 151.29 ETS 35.53 ZAE 123.24 ETE 167.64 ZAC 32.23 ETC 180.26 CLP-157.80

PLANETOCENTRIC CONIC

C3 18.234 VHL 4.270 DLA -1.86 RAL 335.87 RAD 6567.7 VEL 11.816 PTH 2.09 VHP 5.829 DPA -4.21 RAP 298.29 ECC 1.3001

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 28 46	2134.93	-17.56	36.50	195.29	112.58	9 4 21	1534.9	-14.35	29.30
90.00	19 59 13	4894.25	20.42	212.71	196.12	69.94	21 20 48	4294.3	17.50	205.24
100.00	9 49 15	1875.33	-18.56	16.96	194.84	113.86	10 20 30	1275.3	-15.17	9.80
100.00	21 21 26	4629.09	21.43	192.79	195.70	68.65	22 38 35	4029.1	18.34	185.36
110.00	10 55 30	1667.92	-21.22	359.86	193.48	117.45	11 23 18	1067.9	-17.37	352.84
110.00	22 31 40	4409.26	24.15	174.85	194.44	65.04	23 45 9	3809.3	20.58	167.52

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE 1.8044 TRA 3.5177 TC3-3.4629 BAU .8486 SGT 6075.3 SGR 861.7 SG3 433.5 ST 2806.6 SR 243.1 SS 1302.7
RDE .0180 RRA -.6001 RC3 .3570 FAU .03943 RRT -.8878 RRF -.8797 RTF .9829 CRT -.4175 CRS .3963 CST -.9997
FDE 1.6853 FRA 3.1160 FC3-1.8722 BSP 19618 SGB 6136.1 R23 .0074 R13 -.9830 LSA 3095.7 MSA 222.8 SSA 14.6
BDE 1.8045 BRA 3.5685 BC3 3.4812 FSP -1532 SG1 6123.5 SG2 393.5 THA 172.79 EL1 2808.4 EL2 220.7 ALF 177.92

LAUNCH DATE OCT 14 1965 FLIGHT TIME 200.00 ARRIVAL DATE MAY 2 1966

HELIOCENTRIC CONIC DISTANCE 560.382

RL 149.20 LAL .00 LOL 20.44 VL 27,054 GAL 5.83 AZL 88.63 HCA 259.23 SMA 126.75 ECC .20343 INC 1.3678 V1 29.864
RP 108.84 LAP -1.34 LOP 279.67 VP 37,306 GAP 8.50 AZP 90.26 TAL 155.88 TAP 55.11 RCA 100.96 APO 152.53 V2 34.819
RC 132.074 GL 8.34 GP 17.73 ZAL 43.01 ZAP 153.04 ETS 36.42 ZAE 122.81 ETE 168.41 ZAC 33.74 ETC 178.29 CLP-159.36

PLANETOCENTRIC CONIC

C3 19.640 VHL 4.432 DLA -.80 RAL 336.64 RAD 6567.8 VEL 11.875 PTH 2.11 VHP 6.048 DPA -4.91 RAP 299.97 ECC 1.3232

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 23 56	2185.44	-18.85	39.64	197.44	111.53	9 0 22	1585.4	-15.76	32.33
90.00	20 10 11	4878.73	20.05	211.71	197.81	69.58	21 31 30	4278.7	17.09	204.29
100.00	9 44 55	1924.24	-19.88	19.99	197.00	112.80	10 16 59	1324.2	-16.62	12.72
100.00	21 31 54	4615.16	21.08	191.91	197.38	68.31	22 48 49	4015.2	17.95	184.51
110.00	10 52 18	1713.27	-22.62	2.64	195.65	116.34	11 20 52	1113.3	-18.89	355.48
110.00	22 41 0	4398.89	23.85	174.19	196.08	64.75	23 54 19	3798.9	20.25	166.90

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE 1.9548 TRA 3.7263 TC3-3.2483 BAU .8567 SGT 6155.5 SGR 806.0 SG3 408.3 ST 2912.8 SR 232.7 SS 1291.9
RDE .0384 RRA -.5858 RC3 .3059 FAU .03558 RRT -.8676 RRF -.8587 RTF .9822 CRT -.3004 CRS .2830 CST -.9998
FDE 1.6763 FRA 3.0642 FC3-1.5685 BSP 19820 SGB 6208.0 R23 .0059 R13 -.9823 LSA 3187.1 MSA 223.2 SSA 14.4
BDE 1.9552 BRA 3.7721 BC3 3.2627 FSP -1438 SG1 6195.3 SG2 398.3 THA 173.49 EL1 2913.6 EL2 221.9 ALF 178.62

LAUNCH DATE OCT 14 1965 FLIGHT TIME 202.00 ARRIVAL DATE MAY 4 1966

HELIOCENTRIC CONIC DISTANCE 566.156

RL 149.20 LAL .00 LOL 20.44 VL 27,030 GAL 6.22 AZL 88.47 HCA 262.39 SMA 126.59 ECC .20801 INC 1.5272 V1 29.864
RP 108.86 LAP -1.51 LOP 282.83 VP 37,282 GAP 8.93 AZP 90.20 TAL 154.84 TAP 57.24 RCA 100.26 APO 152.92 V2 34.812
RC 134.395 GL 8.95 GP 16.87 ZAL 42.03 ZAP 154.69 ETS 37.42 ZAE 122.41 ETE 169.07 ZAC 35.34 ETC 176.62 CLP-160.84

PLANETOCENTRIC CONIC

C3 21.206 VHL 4.605 DLA .18 RAL 337.43 RAD 6567.9 VEL 11.941 PTH 2.12 VHP 6.281 DPA -5.49 RAP 301.70 ECC 1.3490

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 19 53	2233.89	-20.03	42.71	199.69	110.44	8 57 7	1633.9	-17.07	35.28
90.00	20 20 32	4866.92	19.77	210.96	199.60	69.30	21 41 39	4266.9	16.78	203.56
100.00	9 41 18	1971.24	-21.09	22.96	199.25	111.69	10 14 9	1371.2	-17.96	15.56
100.00	21 41 48	4604.80	20.82	191.25	199.16	68.06	22 58 33	4004.8	17.66	183.88
110.00	10 49 44	1757.03	-23.91	5.37	197.93	115.19	11 19 1	1157.0	-20.32	358.07
110.00	22 49 51	4391.78	23.64	173.74	197.83	64.56	24 3 3	3791.8	20.02	166.47

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE 2.1048 TRA 3.9418 TC3-3.0401 BAU .8651 SGT 6225.1 SGR 756.2 SG3 384.2 ST 3005.0 SR 226.3 SS 1276.8
RDE .0596 RRA -.5726 RC3 .2631 FAU .03213 RRT -.8452 RRF -.8355 RTF .9817 CRT -.1779 CRS .1641 CST -.9998
FDE 1.6609 FRA 3.0119 FC3-1.3119 BSP 20093 SGB 6270.8 R23 .0044 R13 -.9817 LSA 3265.2 MSA 223.4 SSA 14.3
BDE 2.1056 BRA 3.9831 BC3 3.0515 FSP -1358 SG1 6257.9 SG2 402.0 THA 174.11 EL1 3005.3 EL2 222.7 ALF 179.23

LAUNCH DATE OCT 14 1965 FLIGHT TIME 204.00 ARRIVAL DATE MAY 6 1966

HELIOCENTRIC CONIC DISTANCE 571.887

RL 149.20 LAL .00 LOL 20.44 VL 27.005 GAL 6.63 AZL 88.32 HCA 265.55 SMA 126.43 ECC .21295 INC 1.6842 V1 29.864
RP 108.87 LAP -1.68 LOP 285.99 VP 37,259 GAP 9.38 AZP 90.13 TAL 153.79 TAP 59.35 RCA 99.50 APO 153.35 V2 34.806
RC 136.709 GL 9.47 GP 16.09 ZAL 41.07 ZAP 156.24 ETS 38.56 ZAE 122.04 ETE 169.66 ZAC 37.02 ETC 175.21 CLP-162.28

PLANETOCENTRIC CONIC

C3 22.951 VHL 4.791 DLA 1.07 RAL 338.23 RAD 6567.9 VEL 12.014 PTH 2.14 VHP 6.528 DPA -5.96 RAP 303.48 ECC 1.3777

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 16 30	2280.56	-21.11	45.70	202.03	109.32	8 54 30	1680.6	-18.29	38.17
90.00	20 30 19	4858.52	19.57	210.43	201.49	69.11	21 51 18	4258.5	16.55	203.05
100.00	9 38 20	2016.59	-22.20	25.87	201.61	110.55	10 11 56	1416.6	-19.20	18.35
100.00	21 51 10	4597.73	20.64	190.80	201.03	67.89	23 7 48	3997.7	17.46	183.45
110.00	10 47 43	1799.42	-25.11	8.08	200.30	113.99	11 17 42	1199.4	-21.66	.63
110.00	22 58 17	4387.67	23.52	173.48	199.66	64.45	24 11 24	3787.7	19.89	166.23

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE 2.2586 TRA 4.1689 TC3-2.8316 BAU .8716 SGT 6286.9 SGR 711.5 SG3 361.7 ST 3088.9 SR 223.4 SS 1261.1
RDE .0808 RRA -.5608 RC3 .2260 FAU .02887 RRT -.8208 RRF -.8105 RTF .9811 CRT -.0587 CRS .0484 CST -.9999
FDE 1.6444 FRA 2.9635 FC3-1.0892 BSP 20344 SGB 6327.1 R23 .0031 R13 -.9812 LSA 3336.4 MSA 223.3 SSA 14.1
BDE 2.2600 BRA 4.2064 BC3 2.8406 FSP -1282 SG1 6314.1 SG2 404.7 THA 174.67 EL1 3088.9 EL2 223.0 ALF 179.76

LAUNCH DATE OCT 14 1965 FLIGHT TIME 206.00 ARRIVAL DATE MAY 8 1966

HELIOCENTRIC CONIC DISTANCE 577.572

RL 149.20 LAL .00 LOL 20.44 VL 26.980 GAL 7.07 AZL 88.16 HCA 268.72 SMA 126.27 ECC .21829 INC 1.8399 V1 29.864
RP 108.89 LAP -1.84 LOP 289.16 VP 37.236 GAP 9.85 AZP 90.04 TAL 152.74 TAP 61.45 RCA 98.70 APO 153.83 V2 34.801
RC 139.015 GL 9.92 GP 15.38 ZAL 40.13 ZAP 157.71 ETS 39.85 ZAE 121.68 ETE 170.18 ZAC 38.78 ETC 174.02 CLP-163.66

PLANETOCENTRIC CONIC

C3 24.898 VHL 4.990 DLA 1.88 RAL 339.04 RAD 6568.0 VEL 12.094 PTH 2.16 VHP 6.789 DPA -6.33 RAP 305.31 ECC 1.4098

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 13 42	2325.69	-22.10	48.65	204.46	108.17	8 52 28	1725.7	-19.41	41.00
90.00	20 39 35	4853.28	19.44	210.10	203.45	69.00	22 0 28	4253.3	16.41	202.73
100.00	9 35 55	2060.50	-23.22	28.73	204.05	109.37	10 10 15	1460.5	-20.37	21.10
100.00	22 0 3	4593.71	20.54	190.55	202.99	67.79	23 16 37	3993.7	17.35	183.21
110.00	10 46 10	1840.62	-26.23	10.76	202.77	112.75	11 16 51	1240.6	-22.91	3.17
110.00	23 6 17	4386.35	23.48	173.40	201.58	64.42	24 19 24	3786.4	19.85	166.15

DIFFERENTIAL CORRECTIONS
TDE 2.4165 TRA 4.4089 TC3-2.6245 BAU .8760
RDE .1023 RRA -.5500 RC3 .1936 FAU .02578
FDE 1.6270 FRA 2.9192 FC3 -.8964 BSP 20570
BDE 2.4186 BRA 4.4430 BC3 2.6316 FSP -1209

MID-COURSE EXECUTION ACCURACY
SGT 6341.6 SGR 671.1 SG3 340.6
RRT -.7944 RRF -.7835 RTF .9807
SGB 6377.0 R23 .0021 R13 -.9807
SG1 6364.0 SG2 406.2 THA 175.17

ORBIT DETERMINATION ACCURACY
ST 3164.6 SR 223.1 SS 1244.8
CRT .0529 CRS -.0602 CST -.9999
LSA 3400.6 MSA 222.9 SSA 13.9
EL1 3164.6 EL2 222.8 ALF .21

LAUNCH DATE OCT 14 1965 FLIGHT TIME 208.00 ARRIVAL DATE MAY 10 1966

HELIOCENTRIC CONIC DISTANCE 583.206

RL 149.20 LAL .00 LOL 20.44 VL 26.955 GAL 7.54 AZL 88.00 HCA 271.88 SMA 126.11 ECC .22406 INC 1.9951 V1 29.864
RP 108.90 LAP -1.99 LOP 292.32 VP 37.214 GAP 10.34 AZP 89.93 TAL 151.67 TAP 63.55 RCA 97.85 APO 154.36 V2 34.797
RC 141.312 GL 10.30 GP 14.73 ZAL 39.20 ZAP 159.09 ETS 41.31 ZAE 121.34 ETE 170.65 ZAC 40.58 ETC 173.02 CLP-165.00

PLANETOCENTRIC CONIC

C3 27.075 VHL 5.203 DLA 2.62 RAL 339.86 RAD 6568.1 VEL 12.184 PTH 2.19 VHP 7.067 DPA -6.61 RAP 307.18 ECC 1.4456

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 11 26	2369.46	-23.00	51.54	206.97	106.99	8 50 56	1769.5	-20.46	43.79
90.00	20 48 21	4850.98	19.38	209.95	205.50	68.94	22 9 12	4251.0	16.35	202.59
100.00	9 34 0	2103.15	-24.16	31.55	206.57	108.17	10 9 3	1503.2	-21.45	23.80
100.00	22 8 28	4592.52	20.51	190.47	205.02	67.76	23 25 1	3992.5	17.31	183.13
110.00	10 45 3	1880.78	-27.26	13.43	205.33	111.48	11 16 24	1280.8	-24.09	5.70
110.00	23 13 55	4387.66	23.52	173.48	203.58	64.45	24 27 2	3787.7	19.89	166.23

DIFFERENTIAL CORRECTIONS
TDE 2.5796 TRA 4.6628 TC3-2.4202 BAU .8781
RDE .1239 RRA -.5399 RC3 .1653 FAU .02286
FDE 1.6099 FRA 2.8793 FC3 -.7311 BSP 20771
BDE 2.5825 BRA 4.6939 BC3 2.4259 FSP -1140

MID-COURSE EXECUTION ACCURACY
SGT 6389.7 SGR 634.3 SG3 320.9
RRT -.7659 RRF -.7546 RTF .9803
SGB 6421.1 R23 .0011 R13 -.9803
SG1 6408.2 SG2 406.6 THA 175.63

ORBIT DETERMINATION ACCURACY
ST 3232.8 SR 224.8 SS 1228.7
CRT .1540 CRS -.1587 CST -.9999
LSA 3458.6 MSA 222.1 SSA 13.7
EL1 3233.0 EL2 222.1 ALF .62

LAUNCH DATE OCT 14 1965 FLIGHT TIME 210.00 ARRIVAL DATE MAY 12 1966

HELIOCENTRIC CONIC DISTANCE 588.782

RL 149.20 LAL .00 LOL 20.44 VL 26.930 GAL 8.05 AZL 87.85 HCA 275.03 SMA 125.94 ECC .23031 INC 2.1509 V1 29.864
RP 108.92 LAP -2.14 LOP 295.48 VP 37.192 GAP 10.85 AZP 89.81 TAL 150.61 TAP 65.64 RCA 96.94 APO 154.95 V2 34.793
RC 143.598 GL 10.62 GP 14.14 ZAL 38.29 ZAP 160.41 ETS 42.98 ZAE 121.02 ETE 171.06 ZAC 42.43 ETC 172.17 CLP-166.30

PLANETOCENTRIC CONIC

C3 29.513 VHL 5.433 DLA 3.30 RAL 340.67 RAD 6568.2 VEL 12.284 PTH 2.21 VHP 7.361 DPA -6.79 RAP 309.08 ECC 1.4857

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 9 38	2412.03	-23.82	54.39	209.55	105.78	8 49 50	1812.0	-21.42	46.54
90.00	20 56 39	4851.44	19.39	209.98	207.61	68.95	22 17 30	4251.4	16.36	202.62
100.00	9 32 31	2144.70	-25.01	34.35	209.16	106.93	10 8 16	1544.7	-22.45	26.48
100.00	22 16 27	4594.01	20.55	190.57	207.12	67.80	23 33 1	3994.0	17.36	183.22
110.00	10 44 18	1920.04	-28.21	16.09	207.96	110.16	11 16 18	1320.0	-25.20	8.21
110.00	23 21 9	4391.43	23.63	173.72	205.65	64.55	24 34 21	3791.4	20.01	166.45

DIFFERENTIAL CORRECTIONS
TDE 2.7510 TRA 4.9344 TC3-2.2162 BAU .8762
RDE .1456 RRA -.5302 RC3 .1402 FAU .02001
FDE 1.5952 FRA 2.8454 FC3 -.5869 BSP 20892
BDE 2.7548 BRA 4.9628 BC3 2.2206 FSP -1071

MID-COURSE EXECUTION ACCURACY
SGT 6433.4 SGR 600.4 SG3 302.7
RRT -.7355 RRF -.7238 RTF .9799
SGB 6461.4 R23 .0003 R13 -.9800
SG1 6448.6 SG2 405.9 THA 176.06

ORBIT DETERMINATION ACCURACY
ST 3296.7 SR 227.7 SS 1214.1
CRT .2431 CRS -.2456 CST -.9999
LSA 3513.6 MSA 220.8 SSA 13.5
EL1 3297.2 EL2 220.8 ALF .97

LAUNCH DATE OCT 14 1965 FLIGHT TIME 212.00 ARRIVAL DATE MAY 14 1966

HELIOCENTRIC CONIC DISTANCE 594.294

RL 149.20 LAL .00 LOL 20.44 VL 26.905 GAL 8.59 AZL 87.69 HCA 278.19 SMA 125.78 ECC .23708 INC 2.3081 V1 29.864
RP 108.93 LAP -2.28 LOP 298.64 VP 37.171 GAP 11.38 AZP 89.67 TAL 149.54 TAP 67.73 RCA 95.96 APO 155.60 V2 34.790
RC 145.874 GL 10.87 GP 13.61 ZAL 37.40 ZAP 161.65 ETS 44.89 ZAE 120.72 ETE 171.44 ZAC 44.31 ETC 171.46 CLP-167.57

PLANETOCENTRIC CONIC

C3 32.251 VHL 5.679 DLA 3.91 RAL 341.49 RAD 6568.3 VEL 12.394 PTH 2.24 VHP 7.675 DPA -6.90 RAP 311.00 ECC 1.5308

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 8 16	2453.52	-24.56	57.21	212.19	104.56	8 49 9	1853.5	-22.32	49.25
90.00	21 4 29	4854.50	19.47	210.17	209.78	69.02	22 25 24	4254.5	16.44	202.81
100.00	9 31 26	2185.24	-25.78	37.11	211.82	105.67	10 7 51	1585.2	-23.38	29.13
100.00	22 24 0	4598.01	20.65	190.82	209.28	67.89	23 40 38	3998.0	17.47	183.47
110.00	10 43 53	1958.50	-29.08	18.74	210.67	108.82	11 16 31	1358.5	-26.24	10.72
110.00	23 28 2	4397.53	23.81	174.10	207.79	64.72	24 41 20	3797.5	20.21	166.82

DIFFERENTIAL CORRECTIONS
TDE 2.9252 TRA 5.2186 TC3-2.0220 BAU .8733
RDE .1681 RRA -.5202 RC3 .1186 FAU .01742
FDE 1.5789 FRA 2.8137 FC3 -.4676 BSP 21070
BDE 2.9301 BRA 5.2445 BC3 2.0255 FSP -1011

MID-COURSE EXECUTION ACCURACY
SGT 6468.1 SGR 568.9 SG3 285.5
RRT -.7026 RRF -.6908 RTF .9798
SGB 6493.0 R23 -.0004 R13 -.9798
SG1 6480.4 SG2 404.1 THA 176.45

ORBIT DETERMINATION ACCURACY
ST 3349.9 SR 231.7 SS 1198.5
CRT .3225 CRS -.3232 CST -.9999
LSA 3558.6 MSA 219.2 SSA 13.2
EL1 3350.7 EL2 219.2 ALF 1.28

LAUNCH DATE OCT 14 1965 FLIGHT TIME 214.00 ARRIVAL DATE MAY 16 1966

DISTANCE 599.732

HELIOCENTRIC CONIC

RL 149.20 LAL .00 LOL 20.44 VL 26.880 GAL 9.17 AZL 87.53 HCA 281.35 SMA 125.62 ECC .24442 INC 2.4678 V1 29.864
RP 108.93 LAP -2.42 LOP 301.80 VP 37.150 GAP 11.95 AZP 89.51 TAL 148.48 TAP 69.83 RCA 94.91 APO 156.32 V2 34.787
RC 148.138 GL 11.08 GP 13.12 ZAL 36.53 ZAP 162.82 ETS 47.07 ZAE 120.42 ETE 171.77 ZAC 46.22 ETC 170.86 CLP-168.82

PLANETOCENTRIC CONIC

C3 35.333 VHL 5.944 DLA 4.47 RAL 342.29 RAD 6568.4 VEL 12.518 PTH 2.27 VHP 8.010 DPA -6.93 RAP 312.94 ECC 1.5815

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 7 15	2494.04	-25.22	59.99	214.89	103.32	8 48 50	1894.0	-23.14	51.94
90.00	21 11 54	4860.03	19.60	210.52	212.01	69.15	22 32 54	4260.0	16.59	203.14
100.00	9 30 42	2224.89	-26.48	39.85	214.54	104.39	10 7 47	1624.9	-24.24	31.76
100.00	22 31 8	4604.40	20.81	191.22	211.50	68.05	23 47 53	4004.4	17.65	183.86
110.00	10 43 46	1996.23	-29.88	21.39	213.45	107.43	11 17 2	1396.2	-27.20	13.22
110.00	23 34 34	4405.83	24.05	174.63	209.98	64.94	24 48 0	3805.8	20.47	167.31

DIFFERENTIAL CORRECTIONS

TDE 3.1062 TRA 5.5206 TC3-1.8337 BAU .8675
RDE .1910 RRA -.5098 RC3 .0997 FAU .01497
FDE 1.5636 FRA 2.7865 FC3 -.3669 BSP 21233
BDE 3.1121 BRA 5.5441 BC3 1.8364 FSP -955

MID-COURSE EXECUTION ACCURACY

SGT 6496.7 SGR 539.4 SG3 269.4
RRT -.6673 RRF -.6555 RTF .9797
SGB 6519.0 R23 -.0010 R13 -.9797
SG1 6506.7 SG2 401.1 THA 176.82

ORBIT DETERMINATION ACCURACY

ST 3396.0 SR 236.2 SS 1183.6
CRT .3918 CRS -.3909 CST -.9999
LSA 3597.5 MSA 217.2 SSA 13.0
EL1 3397.3 EL2 217.2 ALF 1.57

LAUNCH DATE OCT 14 1965 FLIGHT TIME 216.00 ARRIVAL DATE MAY 18 1966

DISTANCE 605.086

HELIOCENTRIC CONIC

RL 149.20 LAL .00 LOL 20.44 VL 26.854 GAL 9.79 AZL 87.37 HCA 284.51 SMA 125.46 ECC .25241 INC 2.6311 V1 29.864
RP 108.94 LAP -2.55 LOP 304.96 VP 37.130 GAP 12.55 AZP 89.34 TAL 147.43 TAP 71.94 RCA 93.79 APO 157.12 V2 34.786
RC 150.390 GL 11.24 GP 12.68 ZAL 35.68 ZAP 163.93 ETS 49.56 ZAE 120.13 ETE 172.08 ZAC 48.15 ETC 170.35 CLP-170.05

PLANETOCENTRIC CONIC

C3 38.813 VHL 6.230 DLA 4.98 RAL 343.08 RAD 6568.5 VEL 12.656 PTH 2.30 VHP 8.368 DPA -6.89 RAP 314.89 ECC 1.6388

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 6 36	2533.64	-25.81	62.74	217.64	102.06	8 48 49	1933.6	-23.89	54.59
90.00	21 18 52	4867.90	19.79	211.02	214.29	69.33	22 40 0	4267.9	16.80	203.62
100.00	9 30 17	2263.71	-27.11	42.56	217.32	103.10	10 8 1	1663.7	-25.04	34.38
100.00	22 37 52	4613.06	21.03	191.77	213.78	68.25	23 54 45	4013.1	17.89	184.38
110.00	10 43 54	2033.31	-30.61	24.03	216.28	106.03	11 17 47	1433.3	-28.11	15.73
110.00	23 40 44	4416.23	24.35	175.29	212.23	65.23	24 54 21	3816.2	20.80	167.94

DIFFERENTIAL CORRECTIONS

TDE 3.2957 TRA 5.8424 TC3-1.6510 BAU .8578
RDE .2145 RRA -.4988 RC3 .0830 FAU .01263
FDE 1.5503 FRA 2.7643 FC3 -.2818 BSP 21366
BDE 3.3027 BRA 5.8636 BC3 1.6531 FSP -901

MID-COURSE EXECUTION ACCURACY

SGT 6519.8 SGR 511.5 SG3 254.4
RRT -.6292 RRF -.6177 RTF .9798
SGB 6539.9 R23 -.0015 R13 -.9798
SG1 6527.8 SG2 397.1 THA 177.16

ORBIT DETERMINATION ACCURACY

ST 3436.4 SR 240.8 SS 1170.1
CRT .4521 CRS -.4501 CST -.9999
LSA 3631.7 MSA 214.8 SSA 12.7
EL1 3438.1 EL2 214.7 ALF 1.82

LAUNCH DATE OCT 14 1965 FLIGHT TIME 218.00 ARRIVAL DATE MAY 20 1966

DISTANCE 610.345

HELIOCENTRIC CONIC

RL 149.20 LAL .00 LOL 20.44 VL 26.829 GAL 10.46 AZL 87.20 HCA 287.67 SMA 125.30 ECC .26112 INC 2.7991 V1 29.864
RP 108.94 LAP -2.67 LOP 308.13 VP 37.111 GAP 13.19 AZP 89.15 TAL 146.40 TAP 74.07 RCA 92.58 APO 158.01 V2 34.785
RC 152.629 GL 11.36 GP 12.27 ZAL 34.86 ZAP 164.97 ETS 52.42 ZAE 119.84 ETE 172.37 ZAC 50.09 ETC 169.92 CLP-171.26

PLANETOCENTRIC CONIC

C3 42.756 VHL 6.539 DLA 5.44 RAL 343.86 RAD 6568.6 VEL 12.811 PTH 2.33 VHP 8.753 DPA -6.79 RAP 316.85 ECC 1.7037

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 6 14	2572.39	-26.34	65.45	220.43	100.79	8 49 7	1972.4	-24.58	57.23
90.00	21 25 25	4878.00	20.03	211.67	216.62	69.56	22 46 43	4278.0	17.07	204.24
100.00	9 30 9	2301.75	-27.67	45.25	220.13	101.79	10 8 31	1701.8	-25.76	36.97
100.00	22 44 12	4623.88	21.30	192.46	216.10	68.52	24 1 16	4023.9	18.20	185.04
110.00	10 44 16	2069.76	-31.26	26.67	219.16	104.59	11 18 46	1469.8	-28.94	18.24
110.00	23 46 34	4428.63	24.70	176.08	214.54	65.58	25 0 22	3828.6	21.19	168.69

DIFFERENTIAL CORRECTIONS

TDE 3.4976 TRA 6.1893 TC3-1.4718 BAU .8422
RDE .2385 RRA -.4869 RC3 .0682 FAU .01031
FDE 1.5405 FRA 2.7488 FC3 -.2088 BSP 21394
BDE 3.5057 BRA 6.2084 BC3 1.4734 FSP -846

MID-COURSE EXECUTION ACCURACY

SGT 6540.3 SGR 485.1 SG3 240.5
RRT -.5882 RRF -.5771 RTF .9800
SGB 6558.3 R23 -.0018 R13 -.9800
SG1 6546.6 SG2 391.9 THA 177.49

ORBIT DETERMINATION ACCURACY

ST 3473.7 SR 245.3 SS 1159.0
CRT .5046 CRS -.5018 CST -.9999
LSA 3664.1 MSA 211.8 SSA 12.5
EL1 3475.9 EL2 211.7 ALF 2.05

LAUNCH DATE OCT 14 1965 FLIGHT TIME 220.00 ARRIVAL DATE MAY 22 1966

DISTANCE 615.491

HELIOCENTRIC CONIC

RL 149.20 LAL .00 LOL 20.44 VL 26.803 GAL 11.19 AZL 87.03 HCA 290.82 SMA 125.13 ECC .27062 INC 2.9731 V1 29.864
RP 108.94 LAP -2.78 LOP 311.29 VP 37.092 GAP 13.87 AZP 88.94 TAL 145.39 TAP 76.21 RCA 91.27 APO 159.00 V2 34.784
RC 154.855 GL 11.44 GP 11.90 ZAL 34.07 ZAP 165.94 ETS 55.72 ZAE 119.55 ETE 172.63 ZAC 52.04 ETC 169.55 CLP-172.46

PLANETOCENTRIC CONIC

C3 47.242 VHL 6.873 DLA 5.84 RAL 344.61 RAD 6568.8 VEL 12.985 PTH 2.37 VHP 9.167 DPA -6.62 RAP 318.81 ECC 1.7775

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 6 9	2610.31	-26.79	68.14	223.25	99.52	8 49 40	2010.3	-25.20	59.83
90.00	21 31 32	4890.24	20.32	212.45	218.98	69.85	22 53 3	4290.2	17.40	205.00
100.00	9 30 16	2339.02	-28.16	47.91	222.98	100.47	10 9 15	1739.0	-26.43	39.54
100.00	22 50 7	4636.76	21.62	193.29	218.46	68.84	24 7 24	4036.8	18.55	185.83
110.00	10 44 51	2105.61	-31.85	29.30	222.09	103.14	11 19 56	1505.6	-29.71	20.74
110.00	23 52 1	4442.93	25.10	177.00	216.88	65.99	25 6 4	3842.9	21.64	169.56

DIFFERENTIAL CORRECTIONS

TDE 3.7049 TRA 6.5548 TC3-1.3043 BAU .8245
RDE .2635 RRA -.4733 RC3 .0556 FAU .00821
FDE 1.5304 FRA 2.7361 FC3 -.1505 BSP 21518
BDE 3.7142 BRA 6.5718 BC3 1.3055 FSP -800

MID-COURSE EXECUTION ACCURACY

SGT 6551.5 SGR 459.8 SG3 227.4
RRT -.5434 RRF -.5329 RTF .9803
SGB 6567.6 R23 -.0021 R13 -.9803
SG1 6556.2 SG2 385.7 THA 177.81

ORBIT DETERMINATION ACCURACY

ST 3500.9 SR 249.9 SS 1147.9
CRT .5514 CRS -.5479 CST -.9999
LSA 3686.8 MSA 208.4 SSA 12.2
EL1 3503.6 EL2 208.3 ALF 2.26

LAUNCH DATE OCT 15 1965 FLIGHT TIME 70.00 ARRIVAL DATE DEC 24 1965

HELIOCENTRIC CONIC DISTANCE 143.148

RL	149.16	LAL	.00	LOL	21.43	VL	19.196	GAL	13.14	AZL	90.34	HCA	50.54	SMA	94.06	ECC	.61415	INC	.3377	V1	29.872
RP	107.83	LAP	-.26	LOP	71.97	VP	32.412	GAP	-37.08	AZP	90.21	TAL	171.41	TAP	221.95	RCA	36.29	APO	151.82	V2	35.144
RC	58.824	GL	-.52	GP	-4.32	ZAL	66.51	ZAP	26.11	ETS	167.95	ZAE	146.32	ETE	187.51	ZAC	22.22	ETC	120.03	CLP	25.77

PLANETOCENTRIC CONIC

C3 148.488 VHL 12.186 DLA -16.86 RAL 317.54 RAD 6570.6 VEL 16.426 PTH 2.87 VHP 21.535 DPA -28.78 RAP 278.48 ECC 3.4437

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 14 26	2129.54	-17.42	36.17	207.37	112.68	9 49 55	1529.5	-14.19	28.97
90.00	16 39 26	5080.84	25.57	282.27	220.70	102.60	18 17 27	5280.8	27.05	273.91
100.00	10 26 10	1898.07	-19.18	18.36	206.59	113.38	10 57 48	1298.1	-15.85	11.15
100.00	18 10 23	5587.54	27.44	261.15	221.16	102.36	19 43 31	4987.5	28.86	252.64
110.00	11 13 13	1750.69	-23.73	4.97	204.37	115.36	11 42 23	1150.7	-20.12	357.69
110.00	19 39 50	5307.69	32.32	241.11	222.37	101.79	21 8 17	4707.7	33.61	232.11

DIFFERENTIAL CORRECTIONS

TDE	-.4830	TRA	-1.4995	TC3	-.1178	BAU	.2352	SGT	822.7	SGR	449.2	SG3	33.3	ST	317.0	SR	410.1	SS	281.0
RDE	-.8637	RRA	.3857	RC3	-.0126	FAU	.01350	RRT	-.1044	RRF	.0993	RTF	-.6378	CRT	.6129	CRS	.6886	CST	.9928
FDE	.2513	FRA	.6370	FC3	-.0787	BSP	2185	SGB	937.3	R23	-.0051	R13	.6386	LSA	534.8	MSA	248.0	SSA	13.8
BDE	.9896	BRA	1.5484	BC3	.1185	FSP	-70	SG1	824.6	SG2	445.7	THA	175.39	EL1	470.0	EL2	218.6	ALF	56.50

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

LAUNCH DATE OCT 15 1965 FLIGHT TIME 72.00 ARRIVAL DATE DEC 26 1965

HELIOCENTRIC CONIC DISTANCE 149.267

RL	149.16	LAL	.00	LOL	21.43	VL	19.815	GAL	12.59	AZL	90.09	HCA	53.76	SMA	95.69	ECC	.58724	INC	.0859	V1	29.872
RP	107.80	LAP	-.07	LOP	75.19	VP	32.794	GAP	-35.32	AZP	90.05	TAL	170.80	TAP	224.56	RCA	39.50	APO	151.89	V2	35.155
RC	56.947	GL	-.15	GP	-4.47	ZAL	65.44	ZAP	24.61	ETS	167.04	ZAE	147.06	ETE	188.75	ZAC	23.30	ETC	123.29	CLP	24.23

PLANETOCENTRIC CONIC

C3 134.030 VHL 11.577 DLA -16.19 RAL 318.49 RAD 6570.4 VEL 15.980 PTH 2.82 VHP 20.637 DPA -28.90 RAP 280.40 ECC 3.2058

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 11 44	2135.48	-17.57	36.53	207.09	112.57	9 47 19	1535.5	-14.36	29.33
90.00	16 49 43	5836.86	26.19	279.19	220.02	101.18	18 27 0	5236.9	27.47	270.76
100.00	10 24 2	1902.20	-19.29	18.62	206.32	113.29	10 55 44	1302.2	-15.97	11.40
100.00	18 20 6	5545.37	28.01	258.15	220.42	100.88	19 52 32	4945.4	29.23	249.56
110.00	11 12 13	1751.22	-23.74	5.01	204.16	115.35	11 41 25	1151.2	-20.13	357.73
110.00	19 48 24	5269.12	32.82	238.21	221.45	100.14	21 16 13	4669.1	33.87	229.13

DIFFERENTIAL CORRECTIONS

TDE	-.4877	TRA	-1.5047	TC3	-.1235	BAU	.2231	SGT	861.0	SGR	454.0	SG3	36.2	ST	335.3	SR	411.7	SS	298.7
RDE	-.8233	RRA	.3820	RC3	-.0156	FAU	.01374	RRT	-.1126	RRF	.1077	RTF	-.6578	CRT	.6129	CRS	.6953	CST	.9920
FDE	.2678	FRA	.6616	FC3	-.0887	BSP	2345	SGB	973.4	R23	-.0059	R13	.6586	LSA	553.5	MSA	254.2	SSA	14.0
BDE	.9569	BRA	1.5525	BC3	.1245	FSP	-78	SG1	863.1	SG2	450.0	THA	175.33	EL1	479.9	EL2	227.3	ALF	54.32

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

LAUNCH DATE OCT 15 1965 FLIGHT TIME 74.00 ARRIVAL DATE DEC 28 1965

HELIOCENTRIC CONIC DISTANCE 155.467

RL	149.16	LAL	.00	LOL	21.43	VL	20.392	GAL	12.04	AZL	89.86	HCA	56.98	SMA	97.32	ECC	.56116	INC	.1437	V1	29.872
RP	107.76	LAP	.12	LOP	78.42	VP	33.158	GAP	-33.64	AZP	89.92	TAL	170.21	TAP	227.20	RCA	42.71	APO	151.94	V2	35.166
RC	55.125	GL	.26	GP	-4.63	ZAL	64.44	ZAP	23.15	ETS	165.98	ZAE	147.91	ETE	190.17	ZAC	24.47	ETC	126.27	CLP	22.71

PLANETOCENTRIC CONIC

C3 121.052 VHL 11.002 DLA -15.50 RAL 319.36 RAD 6570.3 VEL 15.569 PTH 2.77 VHP 19.773 DPA -29.02 RAP 282.35 ECC 2.9922

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 8 42	2140.79	-17.71	36.86	206.68	112.46	9 44 23	1540.8	-14.51	29.65
90.00	16 59 40	5791.94	26.74	276.02	219.16	99.68	18 36 12	5191.9	27.81	267.52
100.00	10 21 33	1905.77	-19.38	18.84	205.94	113.21	10 53 19	1305.8	-16.08	11.61
100.00	18 29 31	5502.20	28.53	255.05	219.49	99.32	20 1 13	4902.2	29.52	246.38
110.00	11 10 52	1751.26	-23.74	5.01	203.82	115.34	11 40 4	1151.3	-20.13	357.73
110.00	19 56 41	5229.47	33.26	235.20	220.35	98.41	21 23 50	4629.5	34.06	226.05

DIFFERENTIAL CORRECTIONS

TDE	-.4916	TRA	-1.5095	TC3	-.1287	BAU	.2106	SGT	900.7	SGR	458.1	SG3	39.4	ST	354.3	SR	412.5	SS	317.1
RDE	-.7834	RRA	.3776	RC3	-.0190	FAU	.01400	RRT	-.1216	RRF	.1169	RTF	-.6771	CRT	.6122	CRS	.7013	CST	.9912
FDE	.2849	FRA	.6868	FC3	-.1001	BSP	2510	SGB	1010.5	R23	-.0067	R13	.6779	LSA	573.1	MSA	259.9	SSA	14.2
BDE	.9249	BRA	1.5561	BC3	.1301	FSP	-86	SG1	903.0	SG2	453.5	THA	175.26	EL1	490.0	EL2	235.9	ALF	52.01

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

LAUNCH DATE OCT 15 1965 FLIGHT TIME 76.00 ARRIVAL DATE DEC 30 1965

HELIOCENTRIC CONIC DISTANCE 161.741

RL	149.16	LAL	.00	LOL	21.43	VL	20.930	GAL	11.50	AZL	89.64	HCA	60.21	SMA	98.93	ECC	.53596	INC	.3593	V1	29.872
RP	107.73	LAP	.31	LOP	81.64	VP	33.502	GAP	-32.05	AZP	89.82	TAL	169.66	TAP	229.87	RCA	45.91	APO	151.96	V2	35.176
RC	53.365	GL	.70	GP	-4.80	ZAL	63.50	ZAP	21.71	ETS	164.76	ZAE	148.87	ETE	191.80	ZAC	25.72	ETC	128.99	CLP	21.20

PLANETOCENTRIC CONIC

C3 109.393 VHL 10.459 DLA -14.79 RAL 320.15 RAD 6570.1 VEL 15.190 PTH 2.73 VHP 18.940 DPA -29.13 RAP 284.32 ECC 2.8003

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 5 21	2145.60	-17.84	37.16	206.16	112.36	9 41 6	1545.6	-14.65	29.93
90.00	17 9 19	5746.06	27.22	272.75	218.11	98.11	18 45 5	5146.1	28.06	264.19
100.00	10 18 43	1908.87	-19.47	19.04	205.43	113.14	10 50 32	1308.9	-16.17	11.80
100.00	18 38 38	5458.02	28.97	251.84	218.39	97.69	20 9 36	4858.0	29.74	243.12
110.00	11 9 9	1750.89	-23.73	4.99	203.37	115.35	11 38 20	1150.9	-20.12	357.71
110.00	20 4 41	5188.76	33.62	232.07	219.07	96.59	21 31 10	4588.8	34.16	222.87

DIFFERENTIAL CORRECTIONS

TDE	-.4973	TRA	-1.5163	TC3	-.1341	BAU	.1991	SGT	943.9	SGR	461.5	SG3	42.9	ST	375.1	SR	412.5	SS	336.4
RDE	-.7440	RRA	.3726	RC3	-.0231	FAU	.01429	RRT	-.1304	RRF	.1268	RTF	-.6951	CRT	.6122	CRS	.7069	CST	.9903
FDE	.3029	FRA	.7129	FC3	-.1131	BSP	2629	SGB	1050.7	R23	-.0086	R13	.6960	LSA	594.7	MSA	264.9	SSA	14.4
BDE	.8949	BRA	1.5614	BC3	.1361	FSP	-95	SG1	946.4	SG2	456.4	THA	175.24	EL1	501.3	EL2	244.1	ALF	49.41

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

LAUNCH DATE OCT 15 1965 FLIGHT TIME 78.00 ARRIVAL DATE JAN 1 1966

HELIOCENTRIC CONIC DISTANCE 168.085

RL	149.16	LAL	.00	LOL	21.43	VL	21.431	GAL	10.97	AZL	89.44	HCA	63.44	SMA	100.53	ECC	.51167	INC	.5612
RP	107.70	LAP	.50	LOP	84.87	VP	33.828	GAP	-30.53	AZP	89.75	TAL	169.13	TAP	232.57	RCA	49.09	APO	151.96
RC	51.675	GL	1.19	GP	-4.99	ZAL	62.63	ZAP	20.30	ETS	163.32	ZAE	149.95	ETE	193.68	ZAC	27.05	ETC	131.46

VI	29.872																		
V2	35.186																		
CLP	19.70																		

PLANETOCENTRIC CONIC

C3	98.912	VHL	9.945	DLA	-14.06	RAL	320.85	RAD	6569.9	VEL	14.841	PTH	2.68	VHP	18.138	DPA	-29.23	RAP	286.30

ECC	2.6278																		
INJ 2 LONG																			

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 1 38	2150.01	-17.95	37.43	205.51	112.27	9 37 28	1550.0	-14.77	30.20
90.00	17 18 40	5699.20	27.63	269.38	216.89	96.47	18 53 39	5099.2	28.24	260.77
100.00	10 15 31	1911.62	-19.54	19.21	204.81	113.08	10 47 22	1311.6	-16.25	11.96
100.00	18 47 28	5412.82	29.34	248.53	217.10	95.99	20 17 41	4812.8	29.86	239.76
110.00	11 7 3	1750.22	-23.71	4.94	202.79	115.37	11 36 13	1150.2	-20.10	357.67
110.00	20 12 25	5146.99	33.90	228.84	217.60	94.70	21 38 12	4547.0	34.18	219.61

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-.5005	TRA	-1.5207	TC3	-.1381	BAU	.1863	SGT	987.1	SGR	464.4	SG3	46.7	ST	395.8	SR	411.5	SS	356.5
RDE	-.7052	RRA	.3671	RC3	-.0278	FAU	.01461	RRT	-.1408	RRF	.1378	RTF	-.7129	CRT	.6106	CRS	.7119	CST	.9893
FDE	.3216	FRA	.7396	FC3	-.1279	BSP	2801	SGB	1090.8	R23	-.0099	R13	.7139	LSA	616.7	MSA	269.3	SSA	14.6
BDE	.8648	BRA	1.5644	BC3	.1409	FSP	-105	SG1	989.8	SG2	458.4	THA	175.17	EL1	512.5	EL2	251.7	ALF	46.82

LAUNCH DATE OCT 15 1965 FLIGHT TIME 80.00 ARRIVAL DATE JAN 3 1966

HELIOCENTRIC CONIC DISTANCE 174.492

RL	149.16	LAL	.00	LOL	21.43	VL	21.899	GAL	10.45	AZL	89.25	HCA	66.67	SMA	102.09	ECC	.48832	INC	.7519
RP	107.67	LAP	.69	LOP	88.10	VP	34.136	GAP	-29.08	AZP	89.70	TAL	168.64	TAP	235.31	RCA	52.24	APO	151.95
RC	50.062	GL	1.71	GP	-5.20	ZAL	61.83	ZAP	18.91	ETS	161.62	ZAE	151.14	ETE	195.87	ZAC	28.44	ETC	133.69

VI	29.872																		
V2	35.196																		
CLP	18.21																		

PLANETOCENTRIC CONIC

C3	89.487	VHL	9.460	DLA	-13.31	RAL	321.48	RAD	6569.8	VEL	14.520	PTH	2.63	VHP	17.365	DPA	-29.32	RAP	288.31

ECC	2.4727																		
INJ 2 LONG																			

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 57 31	2154.18	-18.06	37.69	204.76	112.19	9 33 25	1554.2	-14.89	30.45
90.00	17 27 44	5651.34	27.95	265.92	215.50	94.76	19 1 55	5051.3	28.31	257.27
100.00	10 11 55	1914.16	-19.61	19.36	204.08	113.02	10 43 49	1314.2	-16.32	12.11
100.00	18 56 2	5366.59	29.62	245.12	215.65	94.21	20 25 28	4766.6	29.89	236.33
110.00	11 4 32	1749.36	-23.69	4.89	202.11	115.40	11 33 41	1149.4	-20.07	357.61
110.00	20 19 54	5104.16	34.09	225.51	215.97	92.74	21 44 58	4504.2	34.09	216.27

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-.5034	TRA	-1.5245	TC3	-.1410	BAU	.1734	SGT	1031.8	SGR	466.5	SG3	50.8	ST	417.2	SR	409.5	SS	377.4
RDE	-.6669	RRA	.3611	RC3	-.0333	FAU	.01497	RRT	-.1522	RRF	.1499	RTF	-.7300	CRT	.6086	CRS	.7163	CST	.9882
FDE	.3411	FRA	.7671	FC3	-.1449	BSP	2978	SGB	1132.3	R23	-.0114	R13	.7310	LSA	639.9	MSA	272.9	SSA	14.8
BDE	.8356	BRA	1.5667	BC3	.1449	FSP	-117	SG1	1034.8	SG2	459.7	THA	175.09	EL1	524.3	EL2	258.6	ALF	44.13

LAUNCH DATE OCT 15 1965 FLIGHT TIME 82.00 ARRIVAL DATE JAN 5 1966

HELIOCENTRIC CONIC DISTANCE 180.957

RL	149.16	LAL	.00	LOL	21.43	VL	22.335	GAL	9.95	AZL	89.07	HCA	69.90	SMA	103.63	ECC	.46592	INC	.9338
RP	107.64	LAP	.88	LOP	91.33	VP	34.426	GAP	-27.69	AZP	89.68	TAL	168.19	TAP	238.09	RCA	55.35	APO	151.92
RC	48.537	GL	2.28	GP	-5.43	ZAL	61.10	ZAP	17.56	ETS	159.60	ZAE	152.43	ETE	198.43	ZAC	29.88	ETC	135.71

VI	29.872																		
V2	35.204																		
CLP	16.72																		

PLANETOCENTRIC CONIC

C3	81.012	VHL	9.001	DLA	-12.54	RAL	322.02	RAD	6569.6	VEL	14.225	PTH	2.59	VHP	16.619	DPA	-29.41	RAP	290.33

ECC	2.3333																		
INJ 2 LONG																			

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 53 0	2158.28	-18.16	37.95	203.90	112.10	9 28 59	1558.3	-15.01	30.69
90.00	17 36 33	5602.48	28.17	262.36	213.95	92.99	19 9 55	5002.5	28.29	253.70
100.00	10 7 54	1916.65	-19.67	19.52	203.24	112.97	10 39 50	1316.7	-16.40	12.26
100.00	19 4 20	5319.34	29.81	241.62	214.03	92.38	20 33 0	4719.3	29.82	232.82
110.00	11 1 36	1748.47	-23.66	4.83	201.31	115.42	11 30 44	1148.5	-20.04	357.56
110.00	20 27 8	5060.28	34.18	222.09	214.17	90.72	21 51 28	4460.3	33.90	212.85

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-.5057	TRA	-1.5274	TC3	-.1426	BAU	.1604	SGT	1077.8	SGR	468.1	SG3	55.3	ST	439.3	SR	406.5	SS	399.3
RDE	-.6293	RRA	.3548	RC3	-.0397	FAU	.01538	RRT	-.1648	RRF	.1633	RTF	-.7463	CRT	.6060	CRS	.7202	CST	.9870
FDE	.3618	FRA	.7955	FC3	-.1644	BSP	3166	SGB	1175.0	R23	-.0130	R13	.7473	LSA	664.4	MSA	275.7	SSA	14.9
BDE	.8073	BRA	1.5680	BC3	.1481	FSP	-129	SG1	1081.2	SG2	460.2	THA	175.00	EL1	536.9	EL2	264.6	ALF	41.36

LAUNCH DATE OCT 15 1965 FLIGHT TIME 84.00 ARRIVAL DATE JAN 7 1966

HELIOCENTRIC CONIC DISTANCE 187.475

RL	149.16	LAL	.00	LOL	21.43	VL	22.741	GAL	9.45	AZL	88.89	HCA	73.14	SMA	105.14	ECC	.44450	INC	1.1084
RP	107.62	LAP	1.06	LOP	94.57	VP	34.700	GAP	-26.36	AZP	89.68	TAL	167.77	TAP	240.91	RCA	58.40	APO	151.87
RC	47.108	GL	2.90	GP	-5.68	ZAL	60.45	ZAP	16.25	ETS	157.17	ZAE	153.80	ETE	201.46	ZAC	31.38	ETC	137.63

VI	29.872																		
V2	35.213																		
CLP	15.25																		

PLANETOCENTRIC CONIC

C3	73.393	VHL	8.567	DLA	-11.74	RAL	322.47	RAD	6569.4	VEL	13.955	PTH	2.55	VHP	15.900	DPA	-29.49	RAP	292.36

ECC	2.2079																		
INJ 2 LONG																			

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 48 3	2162.51	-18.27	38.21	202.94	112.02	9 24 5	1562.5	-15.13	30.95
90.00	17 45 7	5552.61	28.29	258.72	212.24	91.17	19 17 40	4952.6	28.16	250.05
100.00	10 3 26	1919.28	-19.74	19.68	202.30	112.91	10 35 25	1319.3	-16.47	12.42
100.00	19 12 25	5271.06	29.89	238.03	212.27	90.49	20 40 16	4671.1	29.64	229.24
110.00	10 58 13	1747.72	-23.64	4.79	200.41	115.44	11 27 21	1147.7	-20.02	357.52
110.00	20 34 8	5015.39	34.16	218.58	212.23	88.64	21 57 43	4415.4	33.59	209.38

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-.5102	TRA	-1.5318	TC3	-.1441	BAU	.1487	SGT	1127.9	SGR	469.0	SG3	60.2	ST	463.7	SR	402.4	SS	422.7
RDE	-.5922	RRA	.3484	RC3	-.0470	FAU	.01582	RRT	-.1776	RRF	.1780	RTF	-.7614	CRT	.6042	CRS	.7238	CST	.9859
FDE	.3840	FRA	.8253	FC3	-.1866	BSP	3299	SGB	1221.6	R23	-.0160	R13	.7624	LSA	691.7	MSA	277.5	SSA	15.1
BDE	.7817	BRA	1.5710	BC3	.1515	FSP	-142	SG1	1131.6	SG2	460.0	THA	174.94	EL1	551.7	EL2	269.6	ALF	38.37

LAUNCH DATE OCT 15 1965 FLIGHT TIME 86.00 ARRIVAL DATE JAN 9 1966

HELIOCENTRIC CONIC DISTANCE 194.041

RL	149.16	LAL	.00	LOL	21.43	VL	23.120	GAL	8.97	AZL	88.72	HCA	76.37	SMA	106.60	ECC	.42403	INC	1.2772	VI	29.872
RP	107.60	LAP	1.24	LOP	97.80	VP	34.957	GAP	-25.08	AZP	89.70	TAL	167.40	TAP	243.78	RCA	61.40	APO	151.80	V2	35.220
RC	45.785	GL	3.58	GP	-5.96	ZAL	59.86	ZAP	14.98	ETS	154.24	ZAE	155.23	ETE	205.07	ZAC	32.92	ETC	139.18	CLP	13.77

PLANETOCENTRIC CONIC

C3	66.544	VHL	8.157	DLA	-10.91	RAL	322.84	RAD	6569.3	VEL	13.708	PTH	2.50	VHP	15.206	DPA	-29.57	RAP	294.40	ECC	2.0951

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 42 37	2167.05	-18.39	38.49	201.88	111.92	9 18 44	1567.1	-15.25	31.22
90.00	17 53 29	5501.72	28.31	254.99	210.40	89.30	19 25 10	4901.7	27.91	246.35
100.00	9 58 30	1922.24	-19.82	19.87	201.26	112.84	10 30 32	1322.2	-16.56	12.60
100.00	19 20 17	5221.77	29.86	234.37	210.37	88.57	20 47 19	4621.8	29.34	225.60
110.00	10 54 22	1747.29	-23.63	4.76	199.42	115.45	11 23 29	1147.3	-20.01	357.49
110.00	20 40 54	4969.49	34.03	215.00	210.16	86.53	22 3 44	4369.5	33.17	205.87

DIFFERENTIAL CORRECTIONS								MID-COURSE EXECUTION ACCURACY								ORBIT DETERMINATION ACCURACY					
TDE	-.5123	TRA	-1.5333	TC3	-.1425	BAU	.1361	SGT	1177.4	SGR	469.4	SG3	65.6	ST	487.6	SR	397.2	SS	447.0
RDE	-.5557	RRA	.3418	RC3	-.0555	FAU	.01631	RRT	-.1930	RRF	.1945	RTF	-.7761	CRT	.6007	CRS	.7267	CST	.9846
FDE	.4074	FRA	.8560	FC3	-.2122	BSP	3491	SGB	1267.5	R23	-.0183	R13	.7773	LSA	719.3	MSA	278.6	SSA	15.3
BDE	.7558	BRA	1.5709	BC3	.1529	FSP	-157	SG1	1181.5	SG2	459.0	THA	174.82	EL1	566.4	EL2	273.4	ALF	35.51

LAUNCH DATE OCT 15 1965 FLIGHT TIME 88.00 ARRIVAL DATE JAN 11 1966

HELIOCENTRIC CONIC DISTANCE 200.650

RL	149.16	LAL	.00	LOL	21.43	VL	23.473	GAL	8.50	AZL	88.56	HCA	79.61	SMA	108.03	ECC	.40453	INC	1.4415	VI	29.872
RP	107.57	LAP	1.42	LOP	101.04	VP	35.198	GAP	-23.86	AZP	89.74	TAL	167.07	TAP	246.68	RCA	64.33	APO	151.73	V2	35.227
RC	44.580	GL	4.31	GP	-6.26	ZAL	59.36	ZAP	13.77	ETS	150.66	ZAE	156.68	ETE	209.39	ZAC	34.50	ETC	140.66	CLP	12.29

PLANETOCENTRIC CONIC

C3	60.391	VHL	7.771	DLA	-10.04	RAL	323.11	RAD	6569.1	VEL	13.481	PTH	2.46	VHP	14.537	DPA	-29.65	RAP	296.44	ECC	1.9939

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 36 41	2172.16	-18.52	38.81	200.73	111.81	9 12 53	1572.2	-15.39	31.53
90.00	18 1 38	5449.83	28.21	251.20	208.44	87.40	19 32 28	4849.8	27.55	242.60
100.00	9 53 4	1925.76	-19.92	20.09	200.13	112.76	10 25 9	1325.8	-16.66	12.81
100.00	19 27 57	5171.46	29.72	230.64	208.35	86.61	20 54 8	4571.5	28.93	221.92
110.00	10 50 1	1747.38	-23.63	4.76	198.34	115.45	11 19 9	1147.4	-20.01	357.50
110.00	20 47 28	4922.60	33.77	211.37	207.98	84.39	22 9 31	4322.6	32.69	202.32

DIFFERENTIAL CORRECTIONS								MID-COURSE EXECUTION ACCURACY								ORBIT DETERMINATION ACCURACY					
TDE	-.5145	TRA	-1.5337	TC3	-.1390	BAU	.1240	SGT	1228.5	SGR	469.2	SG3	71.5	ST	512.5	SR	390.6	SS	472.8
RDE	-.5198	RRA	.3353	RC3	-.0652	FAU	.01686	RRT	-.2099	RRF	.2130	RTF	-.7901	CRT	.5968	CRS	.7291	CST	.9832
FDE	.4327	FRA	.8882	FC3	-.2418	BSP	3681	SGB	1315.1	R23	-.0210	R13	.7913	LSA	748.9	MSA	278.7	SSA	15.4
BDE	.7314	BRA	1.5699	BC3	.1535	FSP	-174	SG1	1233.1	SG2	457.1	THA	174.68	EL1	582.4	EL2	275.8	ALF	32.63

LAUNCH DATE OCT 15 1965 FLIGHT TIME 90.00 ARRIVAL DATE JAN 13 1966

HELIOCENTRIC CONIC DISTANCE 207.295

RL	149.16	LAL	.00	LOL	21.43	VL	23.801	GAL	8.04	AZL	88.40	HCA	82.85	SMA	109.41	ECC	.38599	INC	1.6024	VI	29.872
RP	107.55	LAP	1.59	LOP	104.28	VP	35.424	GAP	-22.69	AZP	89.80	TAL	166.79	TAP	249.64	RCA	67.18	APO	151.64	V2	35.234
RC	43.503	GL	5.10	GP	-6.60	ZAL	58.93	ZAP	12.65	ETS	146.28	ZAE	158.09	ETE	214.56	ZAC	36.11	ETC	141.99	CLP	10.81

PLANETOCENTRIC CONIC

C3	54.869	VHL	7.407	DLA	-9.14	RAL	323.30	RAD	6569.0	VEL	13.275	PTH	2.43	VHP	13.892	DPA	-29.74	RAP	298.50	ECC	1.9030

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 30 13	2178.08	-18.67	39.18	199.51	111.69	9 6 31	1578.1	-15.56	31.89
90.00	18 9 38	5396.92	27.98	247.35	206.37	85.48	19 39 35	4796.9	27.06	238.80
100.00	9 47 4	1930.07	-20.03	20.36	198.92	112.67	10 19 15	1330.1	-16.78	13.07
100.00	19 35 26	5120.16	29.45	226.85	206.22	84.63	21 0 47	4520.2	28.39	218.20
110.00	10 45 9	1748.23	-23.66	4.82	197.17	115.43	11 14 18	1148.2	-20.04	357.55
110.00	20 53 51	4874.76	33.40	207.68	205.69	82.24	22 15 6	4274.8	31.96	198.75

DIFFERENTIAL CORRECTIONS								MID-COURSE EXECUTION ACCURACY								ORBIT DETERMINATION ACCURACY					
TDE	-.5166	TRA	-1.5330	TC3	-.1329	BAU	.1124	SGT	1281.0	SGR	468.7	SG3	78.0	ST	538.1	SR	382.7	SS	500.1
RDE	-.4845	RRA	.3289	RC3	-.0763	FAU	.01748	RRT	-.2289	RRF	.2339	RTF	-.8034	CRT	.5921	CRS	.7307	CST	.9818
FDE	.4598	FRA	.9217	FC3	-.2757	BSP	3883	SGB	1364.0	R23	-.0241	R13	.8047	LSA	780.1	MSA	278.1	SSA	15.6
BDE	.7083	BRA	1.5679	BC3	.1533	FSP	-193	SG1	1286.1	SG2	454.4	THA	174.53	EL1	599.5	EL2	276.8	ALF	29.80

LAUNCH DATE OCT 15 1965 FLIGHT TIME 92.00 ARRIVAL DATE JAN 15 1966

HELIOCENTRIC CONIC DISTANCE 213.974

RL	149.16	LAL	.00	LOL	21.43	VL	24.107	GAL	7.61	AZL	88.24	HCA	86.09	SMA	110.75	ECC	.36839	INC	1.7612	VI	29.872
RP	107.54	LAP	1.76	LOP	107.52	VP	35.636	GAP	-21.56	AZP	89.88	TAL	166.55	TAP	252.64	RCA	69.95	APO	151.55	V2	35.239
RC	42.563	GL	5.97	GP	-6.97	ZAL	58.59	ZAP	11.63	ETS	140.93	ZAE	159.41	ETE	220.74	ZAC	37.76	ETC	143.18	CLP	9.33

PLANETOCENTRIC CONIC

C3	49.917	VHL	7.065	DLA	-8.20	RAL	323.40	RAD	6568.8	VEL	13.087	PTH	2.39	VHP	13.270	DPA	-29.84	RAP	300.55	ECC	1.8215

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 23 9	2185.08	-18.84	39.62	198.21	111.54	8 59 35	1585.1	-15.75	32.31
90.00	18 17 29	5343.00	27.63	243.44	204.21	83.55	19 46 32	4743.0	26.45	234.97
100.00	9 40 32	1935.45	-20.17	20.70	197.64	112.54	10 12 48	1335.5	-16.94	13.39
100.00	19 42 47	5067.86	29.06	223.01	204.01	82.65	21 7 15	4467.9	27.73	214.46
110.00	10 39 44	1750.09	-23.71	4.94	195.94	115.38	11 8 54	1150.1	-20.10	357.66
110.00	21 0 5	4825.99	32.89	203.97	203.33	80.10	22 20 31	4226.0	31.17	195.17

DIFFERENTIAL CORRECTIONS								MID-COURSE EXECUTION ACCURACY								ORBIT DETERMINATION ACCURACY					
TDE	-.5191	TRA	-1.5311	TC3	-.1240	BAU	.1018	SGT	1334.7	SGR	467.7	SG3	85.1	ST	564.7	SR	373.3	SS	529.3
RDE	-.4498	RRA	.3228	RC3	-.0889	FAU	.01815	RRT	-.2503	RRF	.2573	RTF	-.8160	CRT	.5868	CRS	.7316	CST	.9804
FDE	.4895	FRA	.9571	FC3	-.3148	BSP	4086	SGB	1414.3	R23	-.0276	R13	.8174	LSA	813.4	MSA	276.4	SSA	15.7
BDE	.6868	BRA	1.5647	BC3	.1526	FSP	-213	SG1	1340.5	SG2	450.9	THA	174.35	EL1	618.0	EL2	276.2	ALF	27.02

LAUNCH DATE OCT 15 1965 FLIGHT TIME 94.00 ARRIVAL DATE JAN 17 1966

HELIOCENTRIC CONIC DISTANCE 220.680

RL 149.16 LAL .00 LOL 21.43 VL 24.391 GAL 7.18 AZL 88.08 HCA 89.33 SMA 112.04 ECC .35172 INC 1.9188 V1 29.872
RP 107.52 LAP 1.92 LOP 110.76 VP 35.834 GAP -20.47 AZP 89.98 TAL 166.36 TAP 255.69 RCA 72.63 APO 151.44 V2 35.244
RC 41.769 GL 6.90 GP -7.38 ZAL 58.33 ZAP 10.75 ETS 134.42 ZAE 160.53 ETE 228.03 ZAC 39.43 ETC 144.25 CLP 7.83

PLANETOCENTRIC CONIC

C3 45.483 VHL 6.744 DLA -7.21 RAL 323.41 RAD 6568.7 VEL 12.917 PTH 2.35 VHP 12.671 DPA -29.95 RAP 302.60 ECC 1.7485

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 15 29	2193.45	-19.05	40.15	196.84	111.35	8 52 3	1593.5	-15.98	32.82
90.00	18 25 13	5288.06	27.15	239.49	201.97	81.63	19 53 21	4688.1	25.71	231.12
100.00	9 33 23	1942.18	-20.34	21.12	196.29	112.39	10 5 45	1342.2	-17.13	13.80
100.00	19 50 1	5014.57	28.53	219.14	201.73	80.67	21 13 36	4414.6	26.94	210.69
110.00	10 33 44	1753.20	-23.80	5.13	194.64	115.29	11 2 57	1153.2	-20.20	357.84
110.00	21 6 9	4776.31	32.24	200.24	200.92	77.97	22 25 45	4176.3	30.25	191.59

DIFFERENTIAL CORRECTIONS
TDE -.5219 TRA-1.5281 TC3 -.1117 BAU .0926
RDE -.4154 RRA .3172 RC3 -.1034 FAU .01890
FDE .5219 FRA .9943 FC3 -.3597 BSP 4287
BDE .6671 BRA 1.5607 BC3 .1522 FSP -235

MID-COURSE EXECUTION ACCURACY
SGT 1389.9 SGR 466.7 SG3 92.9
RRT -.2744 RRF .2838 RTF -.8279
SGB 1466.1 R23 -.0317 R13 .8294
SG1 1396.4 SG2 446.6 THA 174.13

ORBIT DETERMINATION ACCURACY
ST 592.2 SR 362.2 SS 560.4
CRT .5804 CRS .7313 CST .9790
LSA 849.0 MSA 273.9 SSA 15.9
EL1 638.0 EL2 273.8 ALF 24.30

LAUNCH DATE OCT 15 1965 FLIGHT TIME 96.00 ARRIVAL DATE JAN 19 1966

HELIOCENTRIC CONIC DISTANCE 227.410

RL 149.16 LAL .00 LOL 21.43 VL 24.655 GAL 6.77 AZL 87.92 HCA 92.57 SMA 113.28 ECC .33597 INC 2.0762 V1 29.872
RP 107.51 LAP 2.07 LOP 114.01 VP 36.018 GAP -19.42 AZP 90.09 TAL 166.22 TAP 258.79 RCA 75.22 APO 151.33 V2 35.249
RC 41.131 GL 7.91 GP -7.83 ZAL 58.15 ZAP 10.06 ETS 126.64 ZAE 161.35 ETE 236.40 ZAC 41.13 ETC 145.19 CLP 6.33

PLANETOCENTRIC CONIC

C3 41.520 VHL 6.444 DLA -6.17 RAL 323.33 RAD 6568.6 VEL 12.763 PTH 2.32 VHP 12.093 DPA -30.09 RAP 304.66 ECC 1.6833

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 7 9	2203.50	-19.30	40.78	195.43	111.13	8 43 53	1603.5	-16.25	33.43
90.00	18 32 53	5232.10	26.53	235.51	199.68	79.73	20 0 5	4632.1	24.84	227.25
100.00	9 25 34	1950.54	-20.56	21.65	194.90	112.19	9 58 5	1350.5	-17.37	14.30
100.00	19 57 9	4960.29	27.87	215.24	199.39	78.72	21 19 50	4360.3	26.03	206.92
110.00	10 27 7	1757.86	-23.94	5.43	193.30	115.17	10 56 24	1157.9	-20.35	358.12
110.00	21 12 6	4725.74	31.46	196.50	198.46	75.89	22 30 52	4125.7	29.20	188.02

DIFFERENTIAL CORRECTIONS
TDE -.5253 TRA-1.5236 TC3 -.0959 BAU .0851
RDE -.3814 RRA .3122 RC3 -.1197 FAU .01972
FDE .5576 FRA 1.0337 FC3 -.4112 BSP 4497
BDE .6492 BRA 1.5553 BC3 .1534 FSP -261

MID-COURSE EXECUTION ACCURACY
SGT 1445.8 SGR 465.6 SG3 101.5
RRT -.3015 RRF .3137 RTF -.8391
SGB 1518.9 R23 -.0364 R13 .8407
SG1 1453.3 SG2 441.6 THA 173.89

ORBIT DETERMINATION ACCURACY
ST 620.7 SR 349.4 SS 593.8
CRT .5726 CRS .7295 CST .9777
LSA 886.9 MSA 270.4 SSA 16.0
EL1 659.3 EL2 269.7 ALF 21.67

LAUNCH DATE OCT 15 1965 FLIGHT TIME 98.00 ARRIVAL DATE JAN 21 1966

HELIOCENTRIC CONIC DISTANCE 234.159

RL 149.16 LAL .00 LOL 21.43 VL 24.901 GAL 6.38 AZL 87.77 HCA 95.82 SMA 114.46 ECC .32111 INC 2.2344 V1 29.872
RP 107.50 LAP 2.22 LOP 117.25 VP 36.190 GAP -18.41 AZP 90.23 TAL 166.13 TAP 261.95 RCA 77.71 APO 151.22 V2 35.252
RC 40.657 GL 9.01 GP -8.34 ZAL 58.07 ZAP 9.61 ETS 117.68 ZAE 161.78 ETE 245.64 ZAC 42.84 ETC 146.03 CLP 4.80

PLANETOCENTRIC CONIC

C3 37.985 VHL 6.163 DLA -5.07 RAL 323.15 RAD 6568.5 VEL 12.624 PTH 2.29 VHP 11.537 DPA -30.25 RAP 306.71 ECC 1.6251

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 58 7	2215.55	-19.59	41.54	193.98	110.86	8 35 2	1615.5	-16.58	34.16
90.00	18 40 31	5175.10	25.78	231.51	197.35	77.86	20 6 46	4575.1	23.85	223.37
100.00	9 17 4	1960.85	-20.82	22.30	193.46	111.94	9 49 45	1360.9	-17.66	14.93
100.00	20 4 15	4905.03	27.07	211.33	197.02	76.81	21 26 0	4305.0	24.98	203.15
110.00	10 19 50	1764.34	-24.12	5.84	191.91	114.99	10 49 14	1164.3	-20.55	358.51
110.00	21 17 58	4674.31	30.55	192.77	195.99	73.86	22 35 52	4074.3	28.03	184.48

DIFFERENTIAL CORRECTIONS
TDE -.5292 TRA-1.5180 TC3 -.0757 BAU .0800
RDE -.3477 RRA .3079 RC3 -.1382 FAU .02064
FDE .5973 FRA 1.0755 FC3 -.4703 BSP 4707
BDE .6332 BRA 1.5489 BC3 .1576 FSP -288

MID-COURSE EXECUTION ACCURACY
SGT 1502.6 SGR 464.9 SG3 111.0
RRT -.3325 RRF .3477 RTF -.8497
SGB 1572.9 R23 -.0415 R13 .8515
SG1 1511.3 SG2 435.9 THA 173.59

ORBIT DETERMINATION ACCURACY
ST 650.1 SR 334.6 SS 629.9
CRT .5627 CRS .7257 CST .9763
LSA 927.5 MSA 266.2 SSA 16.1
EL1 682.0 EL2 263.7 ALF 19.12

LAUNCH DATE OCT 15 1965 FLIGHT TIME 100.00 ARRIVAL DATE JAN 23 1966

HELIOCENTRIC CONIC DISTANCE 240.923

RL 149.16 LAL .00 LOL 21.43 VL 25.128 GAL 6.01 AZL 87.61 HCA 99.06 SMA 115.60 ECC .30711 INC 2.3945 V1 29.872
RP 107.49 LAP 2.36 LOP 120.50 VP 36.350 GAP -17.44 AZP 90.38 TAL 166.09 TAP 265.15 RCA 80.10 APO 151.10 V2 35.255
RC 40.351 GL 10.19 GP -8.90 ZAL 58.08 ZAP 9.47 ETS 107.87 ZAE 161.72 ETE 255.28 ZAC 44.57 ETC 146.77 CLP 3.26

PLANETOCENTRIC CONIC

C3 34.841 VHL 5.903 DLA -3.91 RAL 322.88 RAD 6568.4 VEL 12.498 PTH 2.26 VHP 11.002 DPA -30.45 RAP 308.75 ECC 1.5734

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 48 19	2229.93	-19.94	42.46	192.49	110.53	8 25 29	1629.9	-16.97	35.04
90.00	18 48 9	5117.06	24.89	227.49	195.00	76.03	20 13 26	4517.1	22.72	219.49
100.00	9 7 50	1973.44	-21.14	23.10	192.00	111.64	9 40 43	1373.4	-18.02	15.70
100.00	20 11 19	4848.77	26.14	207.41	194.64	74.95	21 32 8	4248.8	23.81	199.38
110.00	10 11 52	1772.96	-24.37	6.38	190.50	114.75	10 41 25	1173.0	-20.83	359.03
110.00	21 23 46	4622.02	29.50	189.06	193.51	71.89	22 40 48	4022.0	26.74	180.96

DIFFERENTIAL CORRECTIONS
TDE -.5344 TRA-1.5110 TC3 -.0517 BAU .0779
RDE -.3140 RRA .3047 RC3 -.1590 FAU .02164
FDE .6418 FRA 1.1198 FC3 -.5377 BSP 4912
BDE .6199 BRA 1.5414 BC3 .1672 FSP -319

MID-COURSE EXECUTION ACCURACY
SGT 1560.1 SGR 464.7 SG3 121.5
RRT -.3671 RRF .3858 RTF -.8596
SGB 1627.9 R23 -.0477 R13 .8616
SG1 1570.2 SG2 429.5 THA 173.25

ORBIT DETERMINATION ACCURACY
ST 680.9 SR 317.6 SS 668.9
CRT .5500 CRS .7191 CST .9752
LSA 971.4 MSA 261.1 SSA 16.2
EL1 706.5 EL2 255.6 ALF 16.62

LAUNCH DATE OCT 15 1965 FLIGHT TIME 102.00 ARRIVAL DATE JAN 25 1966

HELIOCENTRIC CONIC DISTANCE 247.699

RL	149.16	LAL	.00	LOL	21.43	VL	25.339	GAL	5.65	AZL	87.44	HCA	102.30	SMA	116.68	ECC	.29397	INC	2.5576	V1	29.872
RP	107.48	LAP	2.50	LOP	123.75	VP	36,498	GAP	-16.50	AZP	90.55	TAL	166.09	TAP	268.40	RCA	82.38	APO	150.98	V2	35.257
RC	40.219	GL	11.46	GP	-9.53	ZAL	58.18	ZAP	9.68	ETS	97.86	ZAE	161.14	ETE	264.71	ZAC	46.32	ETC	147.41	CLP	1.69

PLANETOCENTRIC CONIC

C3	32.052	VHL	5.661	DLA	-2.69	RAL	322.52	RAD	6568.3	VEL	12.386	PTH	2.24	VHP	10.488	DPA	-30.70	RAP	310.79	ECC	1.5275

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 37 43	2247.00	-20.34	43.54	191.00	110.13	8 15 10	1647.0	-17.42	36.09
90.00	18 55 50	5057.92	23.85	223.47	192.66	74.27	20 20 7	4457.9	21.47	215.61
100.00	8 57 49	1988.65	-21.52	24.07	190.52	111.26	9 30 57	1388.6	-18.44	16.63
100.00	20 18 25	4791.50	25.06	203.49	192.27	73.15	21 38 17	4191.5	22.52	195.62
110.00	10 3 11	1784.02	-24.68	7.09	189.07	114.43	10 32 55	1184.0	-21.18	359.70
110.00	21 29 33	4568.89	28.32	185.38	191.05	70.00	22 45 42	3968.9	25.33	177.47

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-.5407	TRA	-1.5026	TC3	-.0233	BAU	.0788	SGT	1618.0	SGR	465.8	SG3	133.1	ST	712.8	SR	298.2	SS	711.2
RDE	-.2802	RRA	.3025	RC3	-.1823	FAU	.02275	RRT	-.4060	RRF	.4288	RTF	-.8687	CRT	.5326	CRS	.7081	CST	.9741
FDE	.6915	FRA	1.1671	FC3	-.6145	BSP	5118	SGB	1683.7	R23	-.0550	R13	.8710	LSA	1018.5	MSA	255.3	SSA	16.2
BDE	.6090	BRA	1.5328	BC3	.1838	FSP	-353	SG1	1629.8	SG2	422.6	THA	172.85	EL1	732.6	EL2	245.5	ALF	14.19

LAUNCH DATE OCT 15 1965 FLIGHT TIME 104.00 ARRIVAL DATE JAN 27 1966

HELIOCENTRIC CONIC DISTANCE 254.482

RL	149.16	LAL	.00	LOL	21.43	VL	25,535	GAL	5.30	AZL	87.28	HCA	105.55	SMA	117.71	ECC	.28164	INC	2.7247	V1	29.872
RP	107.48	LAP	2.62	LOP	127.00	VP	36,635	GAP	-15.60	AZP	90.73	TAL	166.15	TAP	271.69	RCA	84.56	APO	150.86	V2	35.259
RC	40.263	GL	12.84	GP	-10.23	ZAL	58.38	ZAP	10.23	ETS	88.37	ZAE	160.09	ETE	273.36	ZAC	48.08	ETC	147.95	CLP	.10

PLANETOCENTRIC CONIC

C3	29.590	VHL	5.440	DLA	-1.40	RAL	322.06	RAD	6568.2	VEL	12.287	PTH	2.21	VHP	9.994	DPA	-31.00	RAP	312.83	ECC	1.4870

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 26 16	2267.11	-20.81	44.84	189.50	109.65	8 4 3	1667.1	-17.94	37.34
90.00	19 3 37	4997.66	22.68	219.44	190.33	72.58	20 26 54	4397.7	20.09	211.73
100.00	8 46 58	2006.82	-21.97	25.24	189.04	110.80	9 20 25	1406.8	-18.94	17.75
100.00	20 25 36	4733.19	23.86	199.58	189.91	71.43	21 44 29	4133.2	21.10	191.87
110.00	9 53 43	1797.85	-25.07	7.98	187.65	114.04	10 23 41	1197.9	-21.61	.54
110.00	21 35 20	4514.92	27.01	181.73	188.63	68.20	22 50 35	3914.9	23.81	174.02

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-.5485	TRA	-1.4925	TC3	.0122	BAU	.0826	SGT	1675.4	SGR	468.7	SG3	145.8	ST	745.9	SR	276.1	SS	757.3
RDE	-.2459	RRA	.3018	RC3	-.2085	FAU	.02397	RRT	-.4501	RRF	.4765	RTF	-.8780	CRT	.5081	CRS	.6903	CST	.9733
FDE	.7479	FRA	1.2177	FC3	-.7013	BSP	5344	SGB	1739.7	R23	-.0621	R13	.8805	LSA	1069.6	MSA	248.9	SSA	16.2
BDE	.6011	BRA	1.5227	BC3	.2088	FSP	-391	SG1	1689.4	SG2	415.1	THA	172.36	EL1	760.4	EL2	233.3	ALF	11.78

LAUNCH DATE OCT 15 1965 FLIGHT TIME 106.00 ARRIVAL DATE JAN 29 1966

HELIOCENTRIC CONIC DISTANCE 261.269

RL	149.16	LAL	.00	LOL	21.43	VL	25.715	GAL	4.98	AZL	87.10	HCA	108.79	SMA	118.68	ECC	.27011	INC	2.8972	V1	29.872
RP	107.48	LAP	2.74	LOP	130.24	VP	36.762	GAP	-14.73	AZP	90.93	TAL	166.25	TAP	275.04	RCA	86.63	APO	150.74	V2	35.259
RC	40.482	GL	14.31	GP	-11.02	ZAL	58.68	ZAP	11.13	ETS	79.94	ZAE	158.63	ETE	280.89	ZAC	49.86	ETC	148.41	CLP	-1.53

PLANETOCENTRIC CONIC

C3	27.428	VHL	5.237	DLA	-.02	RAL	321.50	RAD	6568.1	VEL	12.198	PTH	2.19	VHP	9.521	DPA	-31.38	RAP	314.86	ECC	1.4514

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 13 54	2290.66	-21.34	46.36	188.02	109.07	7 52 5	1690.7	-18.54	38.80
90.00	19 11 34	4936.22	21.37	215.41	188.04	70.97	20 33 50	4336.2	18.58	207.85
100.00	8 35 14	2028.32	-22.48	26.63	187.58	110.24	9 9 2	1428.3	-19.52	19.08
100.00	20 32 55	4673.80	22.51	195.68	187.60	69.80	21 50 49	4073.8	19.56	188.13
110.00	9 43 27	1814.78	-25.53	9.07	186.24	113.54	10 13 42	1214.8	-22.13	1.58
110.00	21 41 11	4460.10	25.57	178.11	186.26	66.50	22 55 32	3860.1	22.17	170.61

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-.5584	TRA	-1.4818	TC3	.0500	BAU	.0890	SGT	1733.2	SGR	474.2	SG3	159.9	ST	780.9	SR	251.3	SS	807.9
RDE	-.2108	RRA	.3028	RC3	-.2376	FAU	.02530	RRT	-.4978	RRF	.5288	RTF	-.8861	CRT	.4718	CRS	.6618	CST	.9727
FDE	.8123	FRA	1.2717	FC3	-.7986	BSP	5554	SGB	1796.9	R23	-.0714	R13	.8890	LSA	1125.5	MSA	242.0	SSA	16.2
BDE	.5969	BRA	1.5124	BC3	.2428	FSP	-433	SG1	1750.1	SG2	407.3	THA	171.80	EL1	790.6	EL2	218.8	ALF	9.36

LAUNCH DATE OCT 15 1965 FLIGHT TIME 108.00 ARRIVAL DATE JAN 31 1966

HELIOCENTRIC CONIC DISTANCE 268.056

RL	149.16	LAL	.00	LOL	21.43	VL	25.882	GAL	4.66	AZL	86.92	HCA	112.04	SMA	119.61	ECC	.25935	INC	3.0765	V1	29.872
RP	107.48	LAP	2.85	LOP	133.50	VP	36.879	GAP	-13.88	AZP	91.16	TAL	166.39	TAP	278.43	RCA	88.59	APO	150.63	V2	35.259
RC	40.875	GL	15.90	GP	-11.92	ZAL	59.08	ZAP	12.33	ETS	72.83	ZAE	156.85	ETE	287.16	ZAC	51.65	ETC	148.78	CLP	-3.19

PLANETOCENTRIC CONIC

C3	25.542	VHL	5.054	DLA	1.43	RAL	320.86	RAD	6568.0	VEL	12.121	PTH	2.17	VHP	9.068	DPA	-31.83	RAP	316.90	ECC	1.4204

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 0 33	2318.05	-21.94	48.14	186.58	108.37	7 39 11	1718.0	-19.23	40.52
90.00	19 19 46	4873.52	19.93	211.38	185.80	69.46	20 40 59	4273.5	16.95	203.97
100.00	8 22 34	2053.53	-23.06	28.27	186.16	109.56	8 56 47	1453.5	-20.18	20.66
100.00	20 40 26	4613.28	21.04	191.79	185.34	68.26	21 57 20	4013.3	17.90	184.40
110.00	9 32 20	1835.15	-26.08	10.41	184.87	112.92	10 2 55	1235.1	-22.75	2.83
110.00	21 47 10	4404.42	24.01	174.54	183.95	64.90	23 0 34	3804.4	20.43	167.23

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-.5703	TRA	-1.4694	TC3	.0929	BAU	.0975	SGT	1789.8	SGR	483.6	SG3	175.4	ST	817.3	SR	223.7	SS	863.2
RDE	-.1745	RRA	.3058	RC3	-.2700	FAU	.02676	RRT	-.5494	RRF	.5850	RTF	-.8937	CRT	.4151	CRS	.6143	CST	.9723
FDE	.8858	FRA	1.3295	FC3	-.9071	BSP	5765	SGB	1854.0	R23	-.0817	R13	.8970	LSA	1186.4	MSA	234.9	SSA	16.1
BDE	.5964	BRA	1.5009	BC3	.2855	FSP	-479	SG1	1810.5	SG2	399.4	THA	171.12	EL1	822.9	EL2	202.1	ALF	6.90

LAUNCH DATE OCT 15 1965 FLIGHT TIME 110.00 ARRIVAL DATE FEB 2 1966

HELIOCENTRIC CONIC DISTANCE 274.842

RL	149.16	LAL	.00	LOL	21.43	VL	26.037	GAL	4.37	AZL	86.74	HCA	115.28	SMA	120.47	ECC	.24934	INC	3.2642	VI	29.872
RP	107.48	LAP	2.95	LOP	136.75	VP	36.986	GAP	-13.07	AZP	91.40	TAL	166.58	TAP	281.85	RCA	90.44	APO	150.51	V2	35.258
RC	41.437	GL	17.60	GP	-12.92	ZAL	59.59	ZAP	13.81	ETS	67.04	ZAE	154.85	ETE	292.23	ZAC	53.46	ETC	149.06	CLP	-4.90

PLANETOCENTRIC CONIC

C3	23.914	VHL	4.890	DLA	2.97	RAL	320.12	RAD	6568.0	VEL	12.054	PTH	2.15	VHP	8.636	DPA	-32.39	RAP	318.93	ECC	1.3936

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 46 9	2349.69	-22.60	50.23	185.18	107.53	7 25 19	1749.7	-19.99	42.53
90.00	19 28 17	4809.47	18.35	207.35	183.63	68.05	20 48 26	4209.5	15.21	200.08
100.00	8 8 53	2082.85	-23.72	30.21	184.78	108.75	8 43 36	1482.9	-20.94	22.51
100.00	20 48 14	4551.55	19.43	187.90	183.15	66.83	22 4 6	3951.5	16.13	180.67
110.00	9 20 19	1859.30	-26.71	12.00	183.55	112.17	9 51 18	1259.3	-23.47	4.34
110.00	21 53 18	4347.86	22.33	171.01	181.72	63.42	23 5 46	3747.9	18.58	163.88

DIFFERENTIAL CORRECTIONS

TDE	-.5848	TRA	-1.4557	TC3	.1395	BAU	.1074												
RDE	-.1363	RRA	.3111	RC3	-.3057	FAU	.02835												
FDE	.9700	FRA	1.3913	FC3	-1.0264	BSP	5975												
BDE	.6004	BRA	1.4886	BC3	.3361	FSP	-531												

MID-COURSE EXECUTION ACCURACY

SGT	1845.3	SGR	498.1	SG3	192.5														
RRT	-.6036	RRF	.6438	RTF	-.9008														
SGB	1911.3	R23	-.0933	R13	.9047														
SG1	1870.7	SG2	391.7	THA	170.32														

ORBIT DETERMINATION ACCURACY

ST	855.5	SR	193.8	SS	923.7														
CRT	.3212	CRS	.5317	CST	.9723														
LSA	1253.3	MSA	227.6	SSA	16.0														
EL1	857.9	EL2	183.0	ALF	4.36														

LAUNCH DATE OCT 15 1965 FLIGHT TIME 112.00 ARRIVAL DATE FEB 4 1966

HELIOCENTRIC CONIC DISTANCE 281.623

RL	149.16	LAL	.00	LOL	21.43	VL	26.178	GAL	4.09	AZL	86.54	HCA	118.52	SMA	121.29	ECC	.24003	INC	3.4622	VI	29.872
RP	107.49	LAP	3.04	LOP	140.00	VP	37.085	GAP	-12.28	AZP	91.65	TAL	166.80	TAP	285.32	RCA	92.18	APO	150.40	V2	35.256
RC	42.162	GL	19.41	GP	-14.07	ZAL	60.19	ZAP	15.53	ETS	62.42	ZAE	152.70	ETE	296.21	ZAC	55.28	ETC	149.26	CLP	-6.65

PLANETOCENTRIC CONIC

C3	22.526	VHL	4.746	DLA	4.60	RAL	319.29	RAD	6567.9	VEL	11.996	PTH	2.14	VHP	8.226	DPA	-33.08	RAP	320.97	ECC	1.3707

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 30 38	2386.06	-23.33	52.65	183.86	106.52	7 10 24	1786.1	-20.84	44.86
90.00	19 37 13	4743.94	16.63	203.30	181.55	66.75	20 56 17	4143.9	13.34	196.17
100.00	7 54 8	2116.72	-24.44	32.46	183.48	107.77	8 29 25	1516.7	-21.78	24.67
100.00	20 56 24	4488.52	17.70	184.03	181.06	65.51	22 11 12	3888.5	14.24	176.94
110.00	9 7 20	1887.61	-27.43	13.89	182.31	111.25	9 38 48	1287.6	-24.29	6.13
110.00	21 59 41	4290.39	20.54	167.51	179.58	62.05	23 11 11	3690.4	16.64	160.56

DIFFERENTIAL CORRECTIONS

TDE	-.5994	TRA	-1.4384	TC3	.1934	BAU	.1192												
RDE	-.0955	RRA	.3191	RC3	-.3453	FAU	.03012												
FDE	1.0658	FRA	1.4560	FC3	-1.1577	BSP	6243												
BDE	.6070	BRA	1.4733	BC3	.3957	FSP	-590												

MID-COURSE EXECUTION ACCURACY

SGT	1895.3	SGR	519.6	SG3	211.2														
RRT	-.6598	RRF	.7033	RTF	-.9078														
SGB	1965.2	R23	-.1047	R13	.9123														
SG1	1927.4	SG2	384.0	THA	169.32														

ORBIT DETERMINATION ACCURACY

ST	892.6	SR	163.8	SS	989.0														
CRT	.1560	CRS	.3805	CST	.9723														
LSA	1323.9	MSA	220.8	SSA	15.7														
EL1	893.0	EL2	161.7	ALF	1.70														

LAUNCH DATE OCT 15 1965 FLIGHT TIME 114.00 ARRIVAL DATE FEB 6 1966

HELIOCENTRIC CONIC DISTANCE 288.396

RL	149.16	LAL	.00	LOL	21.43	VL	26.309	GAL	3.83	AZL	86.33	HCA	121.76	SMA	122.06	ECC	.23141	INC	3.6728	VI	29.872
RP	107.49	LAP	3.12	LOP	143.25	VP	37.175	GAP	-11.52	AZP	91.94	TAL	167.06	TAP	288.82	RCA	93.81	APO	150.30	V2	35.254
RC	43.042	GL	21.33	GP	-15.37	ZAL	60.90	ZAP	17.50	ETS	58.80	ZAE	150.46	ETE	299.24	ZAC	57.12	ETC	149.37	CLP	-8.47

PLANETOCENTRIC CONIC

C3	21.366	VHL	4.622	DLA	6.33	RAL	318.38	RAD	6567.9	VEL	11.948	PTH	2.13	VHP	7.837	DPA	-33.91	RAP	323.02	ECC	1.3516

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 13 52	2427.67	-24.10	55.45	182.63	105.33	6 54 20	1827.7	-21.77	47.55
90.00	19 46 42	4676.77	14.78	199.24	179.59	65.57	21 4 39	4076.8	11.36	192.23
100.00	7 38 13	2155.60	-25.22	35.09	182.28	106.60	8 14 9	1555.6	-22.71	27.19
100.00	21 5 2	4424.07	15.84	180.15	179.08	64.31	22 18 46	3824.1	12.25	173.19
110.00	8 53 21	1920.47	-28.22	16.12	181.17	110.15	9 25 21	1320.5	-25.21	8.24
110.00	22 6 24	4231.96	18.64	164.05	177.55	60.81	23 16 56	3632.0	14.60	157.25

DIFFERENTIAL CORRECTIONS

TDE	-.6205	TRA	-1.4230	TC3	.2441	BAU	.1310												
RDE	-.0509	RRA	.3306	RC3	-.3882	FAU	.03196												
FDE	1.1782	FRA	1.5265	FC3	-1.2949	BSP	6429												
BDE	.6226	BRA	1.4609	BC3	.4585	FSP	-651												

MID-COURSE EXECUTION ACCURACY

SGT	1947.3	SGR	550.2	SG3	231.7														
RRT	-.7132	RRF	.7608	RTF	-.9139														
SGB	2023.5	R23	-.1190	R13	.9193														
SG1	1988.0	SG2	377.8	THA	168.17														

ORBIT DETERMINATION ACCURACY

ST	935.5	SR	139.2	SS	1062.1														
CRT	-.1339	CRS	.0963	CST	.9729														
LSA	1405.9	MSA	214.0	SSA	15.3														
EL1	935.7	EL2	137.9	ALF	178.83														

LAUNCH DATE OCT 15 1965 FLIGHT TIME 116.00 ARRIVAL DATE FEB 8 1966

HELIOCENTRIC CONIC DISTANCE 295.160

RL	149.16	LAL	.00	LOL	21.43	VL	26.429	GAL	3.58	AZL	86.10	HCA	125.00	SMA	122.77	ECC	.22345	INC	3.8987	VI	29.872
RP	107.50	LAP	3.19	LOP	146.50	VP	37.256	GAP	-10.78	AZP	92.24	TAL	167.35	TAP	292.35	RCA	95.34	APO	150.20	V2	35.250
RC	44.068	GL	23.38	GP	-16.85	ZAL	61.70	ZAP	19.69	ETS	55.99	ZAE	148.17	ETE	301.46	ZAC	58.99	ETC	149.39	CLP	-10.34

PLANETOCENTRIC CONIC

C3	20.425	VHL	4.519	DLA	8.16	RAL	317.39	RAD	6567.8	VEL	11.908	PTH	2.12	VHP	7.471	DPA	-34.91	RAP	325.09	ECC	1.3361

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 55 45	2475.11	-24.92	58.68	181.52	103.90	6 37 0	1875.1	-22.76	50.68
90.00	19 56 53	4607.71	12.80	195.14	177.75	64.52	21 13 41	4007.7	9.26	188.24
100.00	7 21 2	2200.04	-26.05	38.13	181.20	105.20	7 57 42	1600.0	-23.71	30.11
100.00	21 14 17	4358.02	13.85	176.25	177.22	63.24	22 26 55	3758.0	10.15	169.42
110.00	8 38 16	1958.31	-29.08	18.73	180.16	108.82	9 10 55	1358.3	-26.23	10.70
110.00	22 13 32	4172.51	16.63	160.61	175.66	59.69	23 23 4	3572.5	12.48	153.96

DIFFERENTIAL CORRECTIONS

TDE	-.6446	TRA	-1.4055	TC3	.2952	BAU	.1435												
RDE	-.0011	RRA	.3459	RC3	-.4347	FAU	.03391												
FDE	1.3075	FRA	1.6000	FC3	-1.4373	BSP	6631												
BDE	.6446	BRA	1.4474	BC3	.5254	FSP	-720												

MID-COURSE EXECUTION ACCURACY

SGT	1994.8	SGR	592.1	SG3	253.9														
RRT	-.7628	RRF	.8137	RTF	-.9195														
SGB	2080.8	R23	-.1342	R13	.9261														
SG1	2047.1	SG2	373.1	THA	166.80														

ORBIT DETERMINATION ACCURACY

ST	979.5	SR	133.4	SS	1141.6														
CRT	-.5407	CRS	-.3380	CST	.9738														
LSA	1495.6	MSA	207.9	SSA	14.8														
EL1	982.2	EL2	111.9	ALF	175.73														

LAUNCH DATE OCT 15 1965 FLIGHT TIME 118.00 ARRIVAL DATE FEB 10 1966

HELIOCENTRIC CONIC DISTANCE 301.912

RL	149.16	LAL	.00	LOL	21.43	VL	26.539	GAL	3.35	AZL	85.86	HCA	128.25	SMA	123.43	ECC	.21612	INC	4.1431	VI	29.872
RP	107.51	LAP	3.25	LOP	149.75	VP	37.331	GAP	-10.07	AZP	92.57	TAL	167.66	TAP	295.91	RCA	96.76	APO	150.11	V2	35.247
RC	45.230	GL	25.55	GP	-18.55	ZAL	62.60	ZAP	22.13	ETS	53.84	ZAE	145.84	ETE	302.96	ZAC	60.89	ETC	149.32	CLP	-12.29

PLANETOCENTRIC CONIC

C3	19.699	VHL	4.438	DLA	10.09	RAL	316.31	RAD	6567.8	VEL	11.878	PTH	2.11	VHP	7.130	DPA	-36.12	RAP	327.21	ECC	1.3242

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 36 6	2529.11	-25.75	62.42	180.56	102.21	6 18 15	1929.1	-23.81	54.29
90.00	20 7 57	4536.47	10.68	190.98	176.07	63.62	21 23 34	3936.5	7.05	184.18
100.00	7 2 26	2250.67	-26.91	41.65	180.27	103.54	7 39 56	1650.7	-24.78	33.49
100.00	21 24 18	4290.15	11.73	172.32	175.52	62.31	22 35 49	3690.1	7.93	165.59
110.00	8 22 1	2001.62	-29.99	21.77	179.30	107.23	8 55 22	1401.6	-27.34	13.58
110.00	22 21 13	4111.95	14.51	157.18	173.91	58.71	23 29 45	3512.0	10.27	150.66

DIFFERENTIAL CORRECTIONS								MID-COURSE EXECUTION ACCURACY								ORBIT DETERMINATION ACCURACY			
TDE	-.6727	TRA	-1.3869	TC3	.3440	BAU	.1565	SGT	2038.2	SGR	648.3	SG3	277.8	ST	1025.5	SR	161.3	SS	1228.1
RDE	.0555	RRA	.3658	RC3	-.4846	FAU	.03594	RRT	-.8066	RRF	.8600	RTF	-.9247	CRT	-.8515	CRS	-.7160	CST	.9750
FDE	1.4569	FRA	1.6766	FC3	-1.5795	BSP	6832	SGB	2138.8	R23	-.1497	R13	.9327	LSA	1595.2	MSA	202.5	SSA	14.1
BDE	.6749	BRA	1.4343	BC3	.5943	FSP	-793	SG1	2106.4	SG2	370.7	THA	165.14	EL1	1034.8	EL2	83.8	ALF	172.32

LAUNCH DATE OCT 15 1965 FLIGHT TIME 120.00 ARRIVAL DATE FEB 12 1966

HELIOCENTRIC CONIC DISTANCE 308.650

RL	149.16	LAL	.00	LOL	21.43	VL	26.639	GAL	3.13	AZL	85.59	HCA	131.48	SMA	124.05	ECC	.20939	INC	4.4103	VI	29.872
RP	107.53	LAP	3.30	LOP	153.00	VP	37.398	GAP	-9.38	AZP	92.92	TAL	168.00	TAP	299.48	RCA	98.07	APO	150.02	V2	35.242
RC	46.516	GL	27.84	GP	-20.50	ZAL	63.59	ZAP	24.83	ETS	52.21	ZAE	143.46	ETE	303.82	ZAC	62.85	ETC	149.16	CLP	-14.31

PLANETOCENTRIC CONIC

C3	19.188	VHL	4.380	DLA	12.12	RAL	315.16	RAD	6567.8	VEL	11.856	PTH	2.10	VHP	6.816	DPA	-37.57	RAP	329.39	ECC	1.3158

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 14 42	2590.57	-26.56	66.74	179.77	100.19	5 57 52	1990.6	-24.89	58.47
90.00	20 20 10	4462.57	8.41	186.74	174.58	62.86	21 34 33	3862.6	4.70	180.01
100.00	6 42 14	2308.27	-27.76	45.71	179.51	101.56	7 20 42	1708.3	-25.88	37.42
100.00	21 35 19	4220.10	9.49	168.33	174.00	61.52	22 45 39	3620.1	5.61	161.69
110.00	8 4 27	2050.98	-30.93	25.31	178.64	105.34	8 38 38	1451.0	-28.52	16.94
110.00	22 29 35	4050.15	12.30	153.76	172.33	57.85	23 37 5	3450.2	7.97	147.35

DIFFERENTIAL CORRECTIONS								MID-COURSE EXECUTION ACCURACY								ORBIT DETERMINATION ACCURACY			
TDE	-.7052	TRA	-1.3674	TC3	.3874	BAU	.1699	SGT	2076.7	SGR	721.8	SG3	303.1	ST	1073.4	SR	223.8	SS	1321.5
RDE	.1214	RRA	.3913	RC3	-.5374	FAU	.03798	RRT	-.8433	RRF	.8983	RTF	-.9293	CRT	-.9692	CRS	-.8951	CST	.9764
FDE	1.6285	FRA	1.7552	FC3	-1.7136	BSP	7021	SGB	2198.6	R23	-.1647	R13	.9392	LSA	1705.6	MSA	198.0	SSA	13.4
BDE	.7156	BRA	1.4223	BC3	.6625	FSP	-871	SG1	2166.9	SG2	371.8	THA	163.15	EL1	1095.1	EL2	54.0	ALF	168.55

LAUNCH DATE OCT 15 1965 FLIGHT TIME 122.00 ARRIVAL DATE FEB 14 1966

HELIOCENTRIC CONIC DISTANCE 315.372

RL	149.16	LAL	.00	LOL	21.43	VL	26.731	GAL	2.93	AZL	85.29	HCA	134.72	SMA	124.62	ECC	.20323	INC	4.7055	VI	29.872
RP	107.55	LAP	3.34	LOP	156.25	VP	37.458	GAP	-8.72	AZP	93.31	TAL	168.35	TAP	303.07	RCA	99.29	APO	149.94	V2	35.236
RC	47.916	GL	30.25	GP	-22.75	ZAL	64.67	ZAP	27.80	ETS	51.00	ZAE	141.02	ETE	304.12	ZAC	64.87	ETC	148.90	CLP	-16.42

PLANETOCENTRIC CONIC

C3	18.900	VHL	4.347	DLA	14.26	RAL	313.93	RAD	6567.8	VEL	11.844	PTH	2.10	VHP	6.531	DPA	-39.30	RAP	331.66	ECC	1.3111

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 51 13	2660.71	-27.31	71.73	179.17	97.79	5 35 34	2060.7	-25.95	63.33
90.00	20 33 52	4385.31	5.98	182.35	173.31	62.27	21 46 57	3785.3	2.23	175.69
100.00	6 20 9	2373.88	-28.57	50.42	178.96	99.21	6 59 43	1773.9	-27.00	41.97
100.00	21 47 37	4147.38	7.10	164.25	172.70	60.89	22 56 44	3547.4	3.17	157.68
110.00	7 45 25	2107.10	-31.87	29.41	178.21	103.07	8 20 32	1507.1	-29.74	20.85
110.00	22 38 51	3986.92	9.99	150.33	170.95	57.14	23 45 17	3386.9	5.59	144.00

DIFFERENTIAL CORRECTIONS								MID-COURSE EXECUTION ACCURACY								ORBIT DETERMINATION ACCURACY			
TDE	-.7398	TRA	-1.3443	TC3	.4284	BAU	.1848	SGT	2105.0	SGR	815.7	SG3	329.1	ST	1118.7	SR	314.7	SS	1419.2
RDE	.1994	RRA	.4229	RC3	-.5929	FAU	.04005	RRT	-.8732	RRF	.9284	RTF	-.9337	CRT	-.9969	CRS	-.9608	CST	.9778
FDE	1.8220	FRA	1.8305	FC3	-1.8345	BSP	7279	SGB	2257.6	R23	-.1767	R13	.9457	LSA	1823.9	MSA	194.8	SSA	12.4
BDE	.7662	BRA	1.4092	BC3	.7315	FSP	-957	SG1	2226.0	SG2	376.0	THA	160.73	EL1	1161.9	EL2	23.9	ALF	164.33

LAUNCH DATE OCT 15 1965 FLIGHT TIME 124.00 ARRIVAL DATE FEB 16 1966

HELIOCENTRIC CONIC DISTANCE 322.077

RL	149.16	LAL	.00	LOL	21.43	VL	26.814	GAL	2.75	AZL	84.96	HCA	137.96	SMA	125.14	ECC	.19761	INC	5.0357	VI	29.872
RP	107.56	LAP	3.37	LOP	159.50	VP	37.512	GAP	-8.07	AZP	93.74	TAL	168.71	TAP	306.66	RCA	100.41	APO	149.87	V2	35.230
RC	49.420	GL	32.78	GP	-25.34	ZAL	65.83	ZAP	31.08	ETS	50.13	ZAE	138.47	ETE	303.91	ZAC	66.97	ETC	148.56	CLP	-18.62

PLANETOCENTRIC CONIC

C3	18.854	VHL	4.342	DLA	16.52	RAL	312.64	RAD	6567.8	VEL	11.842	PTH	2.10	VHP	6.281	DPA	-41.35	RAP	334.08	ECC	1.3103

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 25 10	2741.28	-27.92	77.55	178.80	94.94	5 10 51	2141.3	-26.94	69.02
90.00	20 49 34	4303.60	3.38	177.76	172.31	61.87	22 1 18	3703.6	-.41	171.13
100.00	5 55 49	2448.91	-29.26	55.89	178.64	96.41	6 36 38	1848.9	-28.06	47.29
100.00	22 1 36	4071.19	4.56	160.03	171.66	60.43	23 9 27	3471.2	.59	153.49
110.00	7 24 40	2170.92	-32.75	34.18	178.04	100.38	8 0 51	1570.9	-30.97	25.41
110.00	22 49 14	3921.95	7.57	146.85	169.80	56.57	23 54 36	3322.0	3.12	140.59

DIFFERENTIAL CORRECTIONS								MID-COURSE EXECUTION ACCURACY								ORBIT DETERMINATION ACCURACY			
TDE	-.7821	TRA	-1.3227	TC3	.4538	BAU	.1995	SGT	2129.4	SGR	934.2	SG3	355.2	ST	1167.7	SR	433.0	SS	1523.1
RDE	.2943	RRA	.4623	RC3	-.6484	FAU	.04186	RRT	-.8953	RRF	.9510	RTF	-.9373	CRT	-.9991	CRS	-.9849	CST	.9795
FDE	2.0417	FRA	1.9031	FC3	-1.9219	BSP	7485	SGB	2325.3	R23	-.1864	R13	.9523	LSA	1958.0	MSA	192.2	SSA	11.4
BDE	.8356	BRA	1.4012	BC3	.7914	FSP	-1039	SG1	2293.0	SG2	386.5	THA	157.90	EL1	1245.3	EL2	16.9	ALF	159.66

LAUNCH DATE OCT 15 1965 FLIGHT TIME 126.00 ARRIVAL DATE FEB 18 1966

HELIOCENTRIC CONIC DISTANCE 328.763

RL 149.16 LAL .00 LOL 21.43 VL 26.889 GAL 2.58 AZL 84.59 HCA 141.19 SMA 125.62 ECC .19251 INC 5.4099 V1 29.872
RP 107.58 LAP 3.39 LOP 162.75 VP 37.560 GAP -7.44 AZP 94.22 TAL 169.06 TAP 310.25 RCA 101.44 APO 149.81 V2 35.224
RC 51.018 GL 35.44 GP -28.33 ZAL 67.07 ZAP 34.69 ETS 49.49 ZAE 135.76 ETE 303.25 ZAC 69.20 ETC 148.12 CLP -20.92

PLANETOCENTRIC CONIC

C3 19.080 VHL 4.368 DLA 18.88 RAL 311.27 RAD 6567.8 VEL 11.852 PTH 2.10 VHP 6.070 OPA -43.77 RAP 336.72 ECC 1.3140

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	3 55 45	2834.95	-28.28	84.38	178.64	91.53	4 43 0	2235.0	-27.77	75.75
90.00	21 8 3	4215.53	.54	172.85	171.66	61.69	22 18 18	3615.5	-3.25	166.22
100.00	5 28 37	2535.48	-29.75	62.28	178.57	93.08	6 10 53	1935.5	-29.00	53.55
100.00	22 17 52	3990.23	1.82	155.57	170.94	60.16	23 24 22	3390.2	-2.16	149.05
110.00	7 1 53	2243.70	-33.51	39.72	178.18	97.18	7 39 17	1643.7	-32.15	30.75
110.00	23 1 6	3854.78	5.03	143.30	168.95	56.14	24 5 20	3254.8	.55	137.08

DIFFERENTIAL CORRECTIONS
TDE -.8297 TRA-1.3001 TC3 .4658 BAU .2148
RDE .4115 RRA .5104 RC3 -.7017 FAU .04328
FDE 2.2841 FRA 1.9652 FC3-1.9636 BSP 7700
BDE .9261 BRA 1.3967 BC3 .8422 FSP -1117

MID-COURSE EXECUTION ACCURACY
SGT 2144.3 SGR 1080.7 SG3 380.0
RRT -.9115 RRF .9672 RTF -.9404
SGB 2401.2 R23 -.1906 R13 .9589
SG1 2367.2 SG2 402.7 THA 154.54

ORBIT DETERMINATION ACCURACY
ST 1215.2 SR 580.3 SS 1629.0
CRT -.9960 CRS -.9940 CST .9811
LSA 2104.9 MSA 190.7 SSA 10.4
EL1 1345.9 EL2 46.6 ALF 154.53

LAUNCH DATE OCT 15 1965 FLIGHT TIME 128.00 ARRIVAL DATE FEB 20 1966

HELIOCENTRIC CONIC DISTANCE 335.429

RL 149.16 LAL .00 LOL 21.43 VL 26.958 GAL 2.42 AZL 84.16 HCA 144.42 SMA 126.06 ECC .18789 INC 5.8403 V1 29.872
RP 107.61 LAP 3.39 LOP 165.99 VP 37.602 GAP -6.84 AZP 94.76 TAL 169.42 TAP 313.84 RCA 102.38 APO 149.75 V2 35.216
RC 52.701 GL 38.22 GP -31.76 ZAL 68.39 ZAP 38.67 ETS 49.03 ZAE 132.82 ETE 302.18 ZAC 71.57 ETC 147.61 CLP -23.31

PLANETOCENTRIC CONIC

C3 19.627 VHL 4.430 DLA 21.35 RAL 309.82 RAD 6567.8 VEL 11.875 PTH 2.11 VHP 5.908 OPA -46.59 RAP 339.69 ECC 1.3230

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	3 21 35	2946.36	-28.21	92.52	178.69	87.45	4 10 41	2346.4	-28.27	83.86
90.00	21 30 41	4117.50	-2.62	167.38	171.46	61.79	22 39 19	3517.5	-6.37	160.71
100.00	4 57 32	2636.94	-29.88	69.82	178.74	89.12	5 41 29	2036.9	-29.68	61.02
100.00	22 37 25	3902.15	-1.16	150.74	170.65	60.13	23 42 27	3302.2	-5.13	144.20
110.00	6 36 31	2327.26	-34.03	46.19	178.64	93.39	7 15 19	1727.3	-33.19	37.05
110.00	23 14 55	3784.60	2.36	139.63	168.44	55.89	24 18 0	3184.6	-2.13	133.42

DIFFERENTIAL CORRECTIONS
TDE -.8811 TRA-1.2743 TC3 .4674 BAU .2320
RDE .5580 RRA .5678 RC3 -.7505 FAU .04418
FDE 2.5409 FRA 2.0065 FC3-1.9486 BSP 8013
BDE 1.0429 BRA 1.3951 BC3 .8641 FSP -1192

MID-COURSE EXECUTION ACCURACY
SGT 2145.0 SGR 1258.8 SG3 401.0
RRT -.9232 RRF .9784 RTF -.9431
SGB 2487.1 R23 -.1874 R13 .9658
SG1 2450.8 SG2 423.3 THA 150.59

ORBIT DETERMINATION ACCURACY
ST 1257.2 SR 759.6 SS 1731.0
CRT -.9928 CRS -.9977 CST .9826
LSA 2262.3 MSA 189.8 SSA 9.2
EL1 1466.8 EL2 78.1 ALF 148.94

LAUNCH DATE OCT 15 1965 FLIGHT TIME 130.00 ARRIVAL DATE FEB 22 1966

HELIOCENTRIC CONIC DISTANCE 342.073

RL 149.16 LAL .00 LOL 21.43 VL 27.019 GAL 2.28 AZL 83.66 HCA 147.65 SMA 126.46 ECC .18374 INC 6.3443 V1 29.872
RP 107.63 LAP 3.39 LOP 169.24 VP 37.638 GAP -6.25 AZP 95.37 TAL 169.76 TAP 317.41 RCA 103.22 APO 149.70 V2 35.208
RC 54.462 GL 41.12 GP -35.71 ZAL 69.77 ZAP 43.02 ETS 48.66 ZAE 129.56 ETE 300.79 ZAC 74.14 ETC 147.05 CLP -25.80

PLANETOCENTRIC CONIC

C3 20.578 VHL 4.536 DLA 23.94 RAL 308.30 RAD 6567.8 VEL 11.915 PTH 2.12 VHP 5.807 OPA -49.84 RAP 343.17 ECC 1.3387

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	2 39 42	3085.02	-27.38	102.58	178.82	82.48	3 31 7	2485.0	-28.14	93.99
90.00	22 0 23	4001.38	-6.33	160.86	171.90	62.34	23 7 5	3401.4	-9.99	154.09
100.00	4 20 40	2759.48	-29.41	78.89	179.09	84.37	5 6 40	2159.5	-29.87	70.12
100.00	23 2 6	3802.15	-4.54	145.24	170.92	60.42	24 5 28	3202.1	-8.45	138.63
110.00	6 7 47	2424.39	-34.17	53.77	179.42	88.91	6 48 11	1824.4	-33.94	44.53
110.00	23 31 29	3710.01	-.49	135.74	168.40	55.82	24 33 19	3110.0	-4.97	129.52

DIFFERENTIAL CORRECTIONS
TDE -.9409 TRA-1.2505 TC3 .4471 BAU .2490
RDE .7441 RRA .6364 RC3 -.7872 FAU .04404
FDE 2.8031 FRA 2.0212 FC3-1.8529 BSP 8319
BDE 1.1996 BRA 1.4031 BC3 .9053 FSP -1244

MID-COURSE EXECUTION ACCURACY
SGT 2136.2 SGR 1472.1 SG3 415.8
RRT -.9307 RRF .9859 RTF -.9451
SGB 2594.3 R23 -.1776 R13 .9727
SG1 2554.9 SG2 450.3 THA 146.13

ORBIT DETERMINATION ACCURACY
ST 1296.6 SR 976.4 SS 1825.5
CRT -.9905 CRS -.9991 CST .9840
LSA 2435.4 MSA 189.6 SSA 8.1
EL1 1619.6 EL2 107.7 ALF 143.09

LAUNCH DATE OCT 15 1965 FLIGHT TIME 132.00 ARRIVAL DATE FEB 24 1966

HELIOCENTRIC CONIC DISTANCE 348.694

RL 149.16 LAL .00 LOL 21.43 VL 27.074 GAL 2.16 AZL 83.05 HCA 150.87 SMA 126.82 ECC .18002 INC 6.9464 V1 29.872
RP 107.66 LAP 3.38 LOP 172.48 VP 37.670 GAP -5.68 AZP 96.07 TAL 170.08 TAP 320.95 RCA 103.99 APO 149.65 V2 35.200
RC 56.291 GL 44.16 GP -40.20 ZAL 71.23 ZAP 47.77 ETS 48.31 ZAE 125.89 ETE 299.14 ZAC 76.94 ETC 146.47 CLP -28.37

PLANETOCENTRIC CONIC

C3 22.063 VHL 4.697 DLA 26.64 RAL 306.67 RAD 6567.9 VEL 11.977 PTH 2.13 VHP 5.783 OPA -53.51 RAP 347.43 ECC 1.3631

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	1 40 55	3280.35	-24.89	116.32	178.64	76.04	2 35 35	2680.4	-26.57	108.05
90.00	22 46 14	3839.59	-11.32	151.60	173.45	63.87	23 50 14	3239.6	-14.75	144.59
100.00	3 33 28	2917.50	-27.80	90.35	179.38	78.55	4 22 6	2317.5	-29.10	81.79
100.00	23 36 22	3677.67	-8.67	138.31	172.06	61.28	24 37 40	3077.7	-12.44	131.55
110.00	5 34 12	2539.74	-33.66	62.73	180.44	83.63	6 16 32	1939.7	-34.17	53.53
110.00	23 52 8	3628.20	-3.61	131.46	168.96	55.99	24 52 36	3028.2	-8.05	125.19

DIFFERENTIAL CORRECTIONS
TDE-1.0089 TRA-1.2273 TC3 .4090 BAU .2663
RDE .9830 RRA .7164 RC3 -.8050 FAU .04257
FDE 3.0498 FRA 1.9955 FC3-1.6703 BSP 8690
BDE 1.4086 BRA 1.4211 BC3 .9029 FSP -1268

MID-COURSE EXECUTION ACCURACY
SGT 2113.6 SGR 1722.0 SG3 420.8
RRT -.9351 RRF .9908 RTF -.9464
SGB 2726.3 R23 -.1608 R13 .9793
SG1 2683.6 SG2 480.6 THA 141.22

ORBIT DETERMINATION ACCURACY
ST 1329.3 SR 1234.6 SS 1903.2
CRT -.9891 CRS -.9997 CST .9853
LSA 2622.5 MSA 189.9 SSA 7.0
EL1 1809.3 EL2 133.8 ALF 137.14

LAUNCH DATE OCT 15 1965 FLIGHT TIME 134.00 ARRIVAL DATE FEB 26 1966

HELIOCENTRIC CONIC DISTANCE 355.290

RL	149.16	LAL	.00	LOL	21.43	VL	27.123	GAL	2.05	AZL	82.32	HCA	154.09	SMA	127.14	ECC	.17671	INC	7.6834	VI	29.872
RP	107.69	LAP	3.35	LOP	175.72	VP	37.696	GAP	-5.13	AZP	96.92	TAL	-170.38	TAP	324.47	RCA	104.68	APO	149.61	V2	35.191
RC	58.184	GL	47.32	GP	-45.27	ZAL	72.76	ZAP	52.88	ETS	47.92	ZAE	121.73	ETE	297.37	ZAC	80.02	ETC	145.96	CLP	-30.97

PLANETOCENTRIC CONIC

C3	24.303	VHL	4.930	DLA	29.45	RAL	304.94	RAD	6568.0	VEL	12.070	PTH	2.16	VHP	5.862	DPA	-57.54	RAP	352.94	ECC	1.4000

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
81.54	22 55 17	3807.76	-19.17	152.97	176.96	67.20	23 58 44	3207.8	-22.09	145.42
98.46	1 18 2	3359.33	-19.16	120.03	176.95	67.19	2 14 1	2759.3	-22.08	112.49
100.00	2 12 56	3183.57	-22.87	108.55	178.50	70.21	3 6 0	2583.6	-25.36	100.64
100.00	0 46 59	3458.75	-15.54	125.68	175.24	64.14	1 44 38	2858.8	-18.89	118.50
110.00	4 52 50	2682.59	-32.05	73.56	181.50	77.42	5 37 33	2082.6	-33.45	64.61
110.00	0 23 35	3532.50	-7.24	126.42	170.42	56.50	1 22 28	2932.5	-11.59	120.04

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-1.0838	TRA	-1.2040	TC3	.3596	BAU	.2841	SGT	2072.4	SGR	2005.9	SG3	411.7	ST	1348.8	SR	1534.0	SS	1950.9
RDE	1.2902	RRA	.8061	RC3	-.7971	FAU	.03958	RRT	-.9373	RRF	.9940	RTF	-.9472	CRT	-.9882	CRS	-.9999	CST	.9864
FDE	3.2475	FRA	1.9147	FC3	-1.4100	BSP	9193	SGB	2884.2	R23	-.1383	R13	.9853	LSA	2818.1	MSA	190.6	SSA	5.9
BDE	1.6850	BRA	1.4489	BC3	.8745	FSP	-1257	SG1	2838.7	SG2	510.4	THA	136.00	EL1	2036.7	EL2	155.5	ALF	131.28

LAUNCH DATE OCT 15 1965 FLIGHT TIME 136.00 ARRIVAL DATE FEB 28 1966

HELIOCENTRIC CONIC DISTANCE 361.860

RL	149.16	LAL	.00	LOL	21.43	VL	27.167	GAL	1.95	AZL	81.39	HCA	157.30	SMA	127.43	ECC	.17379	INC	8.6126	VI	29.872
RP	107.72	LAP	3.31	LOP	178.96	VP	37.719	GAP	-4.60	AZP	97.95	TAL	170.65	TAP	327.95	RCA	105.28	APO	149.58	V2	35.181
RC	60.133	GL	50.60	GP	-50.91	ZAL	74.37	ZAP	58.28	ETS	47.45	ZAE	117.03	ETE	295.63	ZAC	83.41	ETC	145.63	CLP	-33.52

PLANETOCENTRIC CONIC

C3	27.683	VHL	5.261	DLA	32.37	RAL	303.06	RAD	6568.1	VEL	12.209	PTH	2.19	VHP	6.085	DPA	-61.74	RAP	.47	ECC	1.4556

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
73.63	21 50 32	4021.15	-20.00	169.38	178.03	64.01	22 57 33	3421.1	-23.33	161.97
106.37	2 7 47	3210.34	-19.99	109.25	178.02	64.00	3 1 18	2610.3	-23.32	101.84
73.63	21 50 32	4021.15	-20.00	169.38	178.03	64.01	22 57 33	3421.1	-23.33	161.97
106.37	2 7 47	3210.34	-19.99	109.25	178.02	64.00	3 1 18	2610.3	-23.32	101.84
110.00	3 54 44	2880.19	-28.24	87.67	181.87	69.88	4 42 44	2280.2	-30.71	79.35
110.00	1 6 42	3399.30	-12.16	119.25	173.50	57.81	2 3 21	2799.3	-16.33	112.62

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-1.1761	TRA	-1.1892	TC3	.2920	BAU	.2976	SGT	2021.2	SGR	2320.0	SG3	386.4	ST	1360.9	SR	1875.7	SS	1962.3
RDE	1.6920	RRA	.9065	RC3	-.7492	FAU	.03452	RRT	-.9370	RRF	.9959	RTF	-.9471	CRT	-.9877	CRS	-1.0000	CST	.9873
FDE	3.3690	FRA	1.7780	FC3	-1.0796	BSP	9701	SGB	3077.0	R23	-.1123	R13	.9904	LSA	3030.5	MSA	192.1	SSA	4.8
BDE	2.0606	BRA	1.4953	BC3	.8041	FSP	-1187	SG1	3029.1	SG2	540.7	THA	130.80	EL1	2311.0	EL2	172.5	ALF	125.86

LAUNCH DATE OCT 15 1965 FLIGHT TIME 138.00 ARRIVAL DATE MAR 2 1966

HELIOCENTRIC CONIC DISTANCE 368.399

RL	149.16	LAL	.00	LOL	21.43	VL	27.205	GAL	1.87	AZL	80.17	HCA	160.50	SMA	127.69	ECC	.17123	INC	9.8285	VI	29.872
RP	107.75	LAP	3.27	LOP	182.20	VP	37.737	GAP	-4.08	AZP	99.28	TAL	170.87	TAP	331.38	RCA	105.82	APO	149.55	V2	35.171
RC	62.133	GL	54.00	GP	-57.08	ZAL	76.07	ZAP	63.86	ETS	46.95	ZAE	111.75	ETE	294.15	ZAC	87.16	ETC	145.69	CLP	-35.83

PLANETOCENTRIC CONIC

C3	32.917	VHL	5.737	DLA	35.35	RAL	300.99	RAD	6568.3	VEL	12.421	PTH	2.24	VHP	6.512	DPA	-65.73	RAP	11.22	ECC	1.5417

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
67.89	21 7 10	4172.04	-20.26	181.25	179.66	60.39	22 16 42	3572.0	-24.04	174.06
112.11	2 34 39	3146.28	-20.24	104.42	179.66	60.38	3 27 6	2546.3	-24.03	97.23
67.89	21 7 10	4172.04	-20.26	181.25	179.66	60.39	22 16 42	3572.0	-24.04	174.06
112.11	2 34 39	3146.28	-20.24	104.42	179.66	60.38	3 27 6	2546.3	-24.03	97.23
67.89	21 7 10	4172.04	-20.26	181.25	179.66	60.39	22 16 42	3572.0	-24.04	174.06
112.11	2 34 39	3146.28	-20.24	104.42	179.66	60.38	3 27 6	2546.3	-24.03	97.23

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-1.2895	TRA	-1.1829	TC3	.2219	BAU	.3053	SGT	1954.7	SGR	2646.6	SG3	343.2	ST	1359.1	SR	2245.9	SS	1923.1
RDE	2.2179	RRA	1.0102	RC3	-.6572	FAU	.02776	RRT	-.9348	RRF	.9970	RTF	-.9465	CRT	-.9873	CRS	-1.0000	CST	.9880
FDE	3.3728	FRA	1.5784	FC3	-.7302	BSP	10389	SGB	3290.2	R23	-.0847	R13	.9943	LSA	3248.3	MSA	194.2	SSA	3.9
BDE	2.5655	BRA	1.5555	BC3	.6937	FSP	-1073	SG1	3240.9	SG2	567.1	THA	125.89	EL1	2618.6	EL2	185.1	ALF	121.03

LAUNCH DATE OCT 15 1965 FLIGHT TIME 140.00 ARRIVAL DATE MAR 4 1966

HELIOCENTRIC CONIC DISTANCE 374.903

RL	149.16	LAL	.00	LOL	21.43	VL	27.238	GAL	1.81	AZL	78.50	HCA	163.69	SMA	127.91	ECC	.16902	INC	11.4989	VI	29.872
RP	107.78	LAP	3.21	LOP	185.44	VP	37.751	GAP	-3.58	AZP	101.05	TAL	171.05	TAP	334.74	RCA	106.29	APO	149.53	V2	35.160
RC	64.180	GL	57.45	GP	-63.72	ZAL	77.88	ZAP	69.42	ETS	46.78	ZAE	105.90	ETE	293.43	ZAC	91.30	ETC	146.65	CLP	-37.43

PLANETOCENTRIC CONIC

C3	41.457	VHL	6.439	DLA	38.34	RAL	298.68	RAD	6568.6	VEL	12.760	PTH	2.32	VHP	7.254	DPA	-68.81	RAP	26.66	ECC	1.6823

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
62.99	20 32 3	4306.66	-19.63	191.72	181.89	56.38	21 43 50	3706.7	-23.91	184.86
117.01	2 51 19	3128.17	-19.62	102.55	181.88	56.37	3 43 27	2528.2	-23.89	95.68
62.99	20 32 3	4306.66	-19.63	191.72	181.89	56.38	21 43 50	3706.7	-23.91	184.86
117.01	2 51 19	3128.17	-19.62	102.55	181.88	56.37	3 43 27	2528.2	-23.89	95.68
62.99	20 32 3	4306.66	-19.63	191.72	181.89	56.38	21 43 50	3706.7	-23.91	184.86
117.01	2 51 19	3128.17	-19.62	102.55	181.88	56.37	3 43 27	2528.2	-23.89	95.68

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-1.4628	TRA	-1.2070	TC3	.1492	BAU	.2970	SGT	1899.1	SGR	2964.9	SG3	285.7	ST	1365.0	SR	2627.6	SS	1834.5
RDE	2.9220	RRA	1.1117	RC3	-.5146	FAU	.01949	RRT	-.9304	RRF	.9973	RTF	-.9460	CRT	-.9870	CRS	-.9999	CST	.9888
FDE	3.2494	FRA	1.3363	FC3	-.4071	BSP	11060	SGB	3521.0	R23	-.0565	R13	.9969	LSA	3477.6	MSA	198.0	SSA	3.0
BDE	3.2677	BRA	1.6409	BC3	.5358	FSP	-905	SG1	3470.5	SG2	594.5	THA	121.84	EL1	2954.6	EL2	194.9	ALF	117.27

LAUNCH DATE OCT 15 1965 FLIGHT TIME 142.00 ARRIVAL DATE MAR 6 1966

DISTANCE 381.363

HELIOCENTRIC CONIC
RL 149.16 LAL .00 LOL 21.43 VL 27.267 GAL 1.76 AZL 76.05 HCA 166.86 SMA 128.10 ECC .16714 INC13.9505 VI 29.872
RP 107.81 LAP 3.14 LOP 188.67 VP 37.761 GAP -3.10 AZP 103.60 TAL 171.16 TAP 338.03 RCA 106.69 APO 149.52 V2 35.149
RC 66.268 GL 60.83 GP -70.75 ZAL 79.82 ZAP 74.74 ETS 48.25 ZAE 99.42 ETE 294.88 ZAC 95.92 ETC 149.96 CLP -37.01

PLANETOCENTRIC CONIC
C3 56.623 VHL 7.525 DLA 41.19 RAL 296.05 RAD 6569.0 VEL 13.341 PTH 2.44 VHP 8.517 DPA -69.89 RAP 46.85 ECC 1.9319

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
58.74	20 1 53	4440.26	-17.70	201.52	184.69	52.17	21 15 53	3840.3	-22.48	195.11
121.26	3 0 32	3150.23	-17.68	102.94	184.68	52.17	3 53 2	2550.2	-22.46	96.52
58.74	20 1 53	4440.26	-17.70	201.52	184.69	52.17	21 15 53	3840.3	-22.48	195.11
121.26	3 0 32	3150.23	-17.68	102.94	184.68	52.17	3 53 2	2550.2	-22.46	96.52
58.74	20 1 53	4440.26	-17.70	201.52	184.69	52.17	21 15 53	3840.3	-22.48	195.11
121.26	3 0 32	3150.23	-17.68	102.94	184.68	52.17	3 53 2	2550.2	-22.46	96.52

DIFFERENTIAL CORRECTIONS
TDE-1.8164 TRA-1.3031 TC3 .0872 BAU .2581
RDE 3.8701 RRA 1.1810 RC3 -.3296 FAU .01059
FDE 3.0093 FRA 1.0762 FC3 -.1619 BSP 11854
BDE 4.2751 BRA 1.7587 BC3 .3410 FSP -716

MID-COURSE EXECUTION ACCURACY
SGT 1915.4 SGR 3218.3 SG3 220.2
RRT -.9273 RRF .9966 RTF -.9499
SGB 3745.2 R23 -.0279 R13 .9986
SG1 3692.7 SG2 624.8 THA 119.84

ORBIT DETERMINATION ACCURACY
ST 1438.5 SR 2968.5 SS 1703.2
CRT -.9876 CRS -.9998 CST .9906
LSA 3706.8 MSA 203.9 SSA 2.4
EL1 3292.4 EL2 203.5 ALF 115.68

LAUNCH DATE OCT 15 1965 FLIGHT TIME 144.00 ARRIVAL DATE MAR 8 1966

DISTANCE 387.756

HELIOCENTRIC CONIC
RL 149.16 LAL .00 LOL 21.43 VL 27.292 GAL 1.74 AZL 72.09 HCA 169.99 SMA 128.27 ECC .16558 INC17.9106 VI 29.872
RP 107.85 LAP 3.06 LOP 191.90 VP 37.769 GAP -2.64 AZP 107.66 TAL 171.20 TAP 341.19 RCA 107.03 APO 149.51 V2 35.138
RC 68.394 GL 63.80 GP -78.01 ZAL 81.89 ZAP 79.56 ETS 58.62 ZAE 92.15 ETE 305.73 ZAC 101.28 ETC 162.98 CLP -29.32

PLANETOCENTRIC CONIC
C3 87.415 VHL 9.350 DLA 43.54 RAL 293.07 RAD 6569.7 VEL 14.449 PTH 2.62 VHP 10.757 DPA -67.89 RAP 67.91 ECC 2.4386

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
55.44	19 36 13	4580.05	-13.97	210.59	187.91	48.34	20 52 33	3980.1	-19.20	204.69
124.56	3 2 25	3215.05	-13.96	105.41	187.89	48.33	3 56 0	2615.0	-19.19	99.51
55.44	19 36 13	4580.05	-13.97	210.59	187.91	48.34	20 52 33	3980.1	-19.20	204.69
124.56	3 2 25	3215.05	-13.96	105.41	187.89	48.33	3 56 0	2615.0	-19.19	99.51
55.44	19 36 13	4580.05	-13.97	210.59	187.91	48.34	20 52 33	3980.1	-19.20	204.69
124.56	3 2 25	3215.05	-13.96	105.41	187.89	48.33	3 56 0	2615.0	-19.19	99.51

DIFFERENTIAL CORRECTIONS
TDE-3.2107 TRA-1.6539 TC3 .0359 BAU .1497
RDE 4.8654 RRA 1.0168 RC3 -.1229 FAU .00167
FDE 2.7185 FRA .8383 FC3 -.0166 BSP 12831
BDE 5.8293 BRA 1.9415 BC3 .1281 FSP -532

MID-COURSE EXECUTION ACCURACY
SGT 2414.6 SGR 3111.5 SG3 156.4
RRT -.9428 RRF .9910 RTF -.9768
SGB 3938.5 R23 .0016 R13 .9992
SG1 3885.4 SG2 644.5 THA 127.40

ORBIT DETERMINATION ACCURACY
ST 2011.8 SR 2992.7 SS 1560.8
CRT -.9923 CRS -.9992 CST .9965
LSA 3923.9 MSA 206.5 SSA 1.9
EL1 3600.1 EL2 206.5 ALF 123.83

LAUNCH DATE OCT 15 1965 FLIGHT TIME 146.00 ARRIVAL DATE MAR 10 1966

DISTANCE 394.031

HELIOCENTRIC CONIC
RL 149.16 LAL .00 LOL 21.43 VL 27.312 GAL 1.74 AZL 64.66 HCA 173.03 SMA 128.41 ECC .16436 INC25.3388 VI 29.872
RP 107.89 LAP 2.98 LOP 195.13 VP 37.772 GAP -2.22 AZP 115.17 TAL 171.08 TAP 344.11 RCA 107.30 APO 149.51 V2 35.126
RC 70.553 GL 65.35 GP -83.34 ZAL 84.10 ZAP 83.65 ETS 137.04 ZAE 83.34 ETE 24.95 ZAC 108.16 ETC 245.05 CLP 17.29

PLANETOCENTRIC CONIC
C3 165.242 VHL 12.855 DLA 44.36 RAL 289.90 RAD 6570.8 VEL 16.928 PTH 2.92 VHP 15.179 DPA -62.11 RAP 85.02 ECC 3.7195

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
54.31	19 19 9	4718.33	-8.30	217.73	191.35	46.26	20 37 47	4118.3	-13.77	212.21
125.69	2 54 13	3329.80	-8.28	110.42	191.33	46.26	3 49 43	2729.8	-13.76	104.90
54.31	19 19 9	4718.33	-8.30	217.73	191.35	46.26	20 37 47	4118.3	-13.77	212.21
125.69	2 54 13	3329.80	-8.28	110.42	191.33	46.26	3 49 43	2729.8	-13.76	104.90
54.31	19 19 9	4718.33	-8.30	217.73	191.35	46.26	20 37 47	4118.3	-13.77	212.21
125.69	2 54 13	3329.80	-8.28	110.42	191.33	46.26	3 49 43	2729.8	-13.76	104.90

DIFFERENTIAL CORRECTIONS
TDE-5.5023 TRA-1.3735 TC3 -.0791 BAU .2349
RDE-6.6024 RRA-1.9681 RC3 -.0710 FAU-.00920
FDE 2.5522 FRA .7065 FC3 .0482 BSP 12297
BDE 8.5946 BRA 2.4000 BC3 .1063 FSP -335

MID-COURSE EXECUTION ACCURACY
SGT 2605.6 SGR 3193.6 SG3 105.9
RRT .9980 RRF -.9987 RTF -.9992
SGB 4121.7 R23 .0138 R13 -.9994
SG1 4119.7 SG2 126.3 THA 50.80

ORBIT DETERMINATION ACCURACY
ST 2465.9 SR 2965.8 SS 1501.9
CRT .9998 CRS 1.0000 CST .9999
LSA 4138.9 MSA 38.1 SSA 1.6
EL1 3856.8 EL2 38.1 ALF 50.26

LAUNCH DATE OCT 15 1965 FLIGHT TIME 148.00 ARRIVAL DATE MAR 12 1966

DISTANCE 399.960

HELIOCENTRIC CONIC
RL 149.16 LAL .00 LOL 21.43 VL 27.329 GAL 1.82 AZL 46.88 HCA 175.78 SMA 128.52 ECC .16359 INC43.1245 VI 29.872
RP 107.92 LAP 2.88 LOP 198.35 VP 37.773 GAP -1.90 AZP 133.05 TAL 170.62 TAP 346.41 RCA 107.50 APO 149.55 V2 35.114
RC 72.741 GL 61.77 GP -74.53 ZAL 86.32 ZAP 86.73 ETS 179.16 ZAE 70.03 ETE 67.39 ZAC 119.40 ETC 292.84 CLP 77.66

PLANETOCENTRIC CONIC
C3 449.155 VHL 21.193 DLA 40.10 RAL 287.57 RAD 6572.2 VEL 23.884 PTH 3.31 VHP 25.828 DPA -50.08 RAP 97.44 ECC 8.3919

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
60.33	19 35 10	4777.76	-2.03	217.30	195.18	49.94	20 54 48	4177.8	-7.16	211.55
119.67	2 19 36	3527.49	-2.02	122.11	195.16	49.94	3 18 24	2927.5	-7.14	116.36
60.33	19 35 10	4777.76	-2.03	217.30	195.18	49.94	20 54 48	4177.8	-7.16	211.55
119.67	2 19 36	3527.49	-2.02	122.11	195.16	49.94	3 18 24	2927.5	-7.14	116.36
60.33	19 35 10	4777.76	-2.03	217.30	195.18	49.94	20 54 48	4177.8	-7.16	211.55
119.67	2 19 36	3527.49	-2.02	122.11	195.16	49.94	3 18 24	2927.5	-7.14	116.36

DIFFERENTIAL CORRECTIONS
TDE-3.8107 TRA .4985 TC3 -.0849 BAU 1.5090
RD-13.3404 RRA-3.6451 RC3 -.2365 FAU-.02954
FDE 2.8372 FRA .7932 FC3 .0569 BSP 12045
BDE13.8740 BRA 3.6791 BC3 .2513 FSP -228

MID-COURSE EXECUTION ACCURACY
SGT 1105.4 SGR 3958.8 SG3 73.6
RRT .8796 RRF -.9995 RTF -.8792
SGB 4110.2 R23 -.0311 R13 -.9990
SG1 4078.4 SG2 510.4 THA 75.98

ORBIT DETERMINATION ACCURACY
ST 1031.6 SR 3627.3 SS 1722.0
CRT .9875 CRS 1.0000 CST .9872
LSA 4142.7 MSA 157.8 SSA 1.8
EL1 3768.0 EL2 156.3 ALF 74.28

LAUNCH DATE OCT 15 1965 FLIGHT TIME 150.00 ARRIVAL DATE MAR 14 1966

HELIOCENTRIC CONIC DISTANCE 410.642

RL 149.16 LAL .00 LOL 21.43 VL 27.343 GAL 1.02 AZL 177.06 HCA 182.78 SMA 128.62 ECC .16070 INC87.0500 VI 29.872
RP 107.96 LAP 2.77 LOP 201.57 VP 37.772 GAP -.36 AZP 2.95 TAL 174.65 TAP 357.43 RCA 107.95 APO 149.28 V2 35.101
RC 74.954 GL -43.79 GP 47.63 ZAL 88.58 ZAP 89.49 ETS 184.87 ZAE 56.69 ETE 296.24 ZAC 114.12 ETC 67.25 CLP 89.24

PLANETOCENTRIC CONIC

C3 1556.430 VHL 39.452 DLA -63.96 RAL 310.77 RAD 6573.2 VEL 40.960 PTH 3.57 VHP 51.115 DPA 70.71 RAP 126.34 ECC 26.6149

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
29.91	7 31 46	2431.50	-1.39	74.71	221.44	153.95	8 12 17	1831.5	5.79	71.61
150.09	17 28 6	723.51	-1.39	292.38	221.46	153.95	17 40 10	123.5	5.80	289.27
29.91	7 31 46	2431.50	-1.39	74.71	221.44	153.95	8 12 17	1831.5	5.79	71.61
150.09	17 28 6	723.51	-1.39	292.38	221.46	153.95	17 40 10	123.5	5.80	289.27
29.91	7 31 46	2431.50	-1.39	74.71	221.44	153.95	8 12 17	1831.5	5.79	71.61
150.09	17 28 6	723.51	-1.39	292.38	221.46	153.95	17 40 10	123.5	5.80	289.27

DIFFERENTIAL CORRECTIONS
TOE 7.5383 TRA-1.5569 TC3 -.1294 BAU 5.4171
RDE-8.8555 RRA 5.9489 RC3 .2259 FAU-.09934
FDE-2.3796 FRA 1.4537 FC3 .0553 BSP 9502
BDE11.6295 BRA 6.1493 BC3 .2603 FSP -187

MID-COURSE EXECUTION ACCURACY
SGT 1583.0 SGR 2950.3 SG3 63.5
RRT -.9081 RRF .9993 RTF -.9201
SGB 3348.2 R23 -.0609 R13 .9979
SG1 3295.2 SG2 593.5 THA 116.92

ORBIT DETERMINATION ACCURACY
ST 1106.1 SR 1416.1 SS 1654.9
CRT -.9582 CRS -.9994 CST .9676
LSA 2428.2 MSA 267.2 SSA 2.1
EL1 1779.2 EL2 251.9 ALF 127.70

LAUNCH DATE OCT 15 1965 FLIGHT TIME 152.00 ARRIVAL DATE MAR 16 1966

HELIOCENTRIC CONIC DISTANCE 415.135

RL 149.16 LAL .00 LOL 21.43 VL 27.353 GAL 1.39 AZL 128.39 HCA 184.29 SMA 128.68 ECC .16089 INC38.3882 VI 29.872
RP 108.00 LAP 2.66 LOP 204.79 VP 37.767 GAP -.41 AZP 51.69 TAL 172.74 TAP 357.03 RCA 107.98 APO 149.39 V2 35.089
RC 77.191 GL -63.37 GP 75.45 ZAL 86.52 ZAP 88.87 ETS 197.02 ZAE 82.83 ETE 303.05 ZAC 89.03 ETC 78.63 CLP 85.50

PLANETOCENTRIC CONIC

C3 360.828 VHL 18.995 DLA -77.36 RAL 359.16 RAD 6572.0 VEL 21.958 PTH 3.23 VHP 25.298 DPA 79.25 RAP 260.44 ECC 6.9383

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
14.39	10 11 34	2382.20	4.47	81.56	268.15	167.32	10 51 17	1782.2	12.28	80.19
165.61	21 14 19	5880.66	4.48	260.82	268.16	167.32	22 52 19	5280.7	12.28	259.45
14.39	10 11 34	2382.20	4.47	81.56	268.15	167.32	10 51 17	1782.2	12.28	80.19
165.61	21 14 19	5880.66	4.48	260.82	268.16	167.32	22 52 19	5280.7	12.28	259.45
14.39	10 11 34	2382.20	4.47	81.56	268.15	167.32	10 51 17	1782.2	12.28	80.19
165.61	21 14 19	5880.66	4.48	260.82	268.16	167.32	22 52 19	5280.7	12.28	259.45

DIFFERENTIAL CORRECTIONS
TOE 1.2247 TRA-1.6228 TC3 -.1347 BAU 1.1882
RDE 1.6554 RRA 2.5639 RC3 .2062 FAU-.02029
FDE .2590 FRA .6498 FC3 .0487 BSP 13258
BDE 2.0592 BRA 3.0343 BC3 .2463 FSP -250

MID-COURSE EXECUTION ACCURACY
SGT 2324.5 SGR 3654.7 SG3 79.3
RRT -.9563 RRF .9985 RTF -.9700
SGB 4331.3 R23 -.0324 R13 .9994
SG1 4292.5 SG2 578.7 THA 121.96

ORBIT DETERMINATION ACCURACY
ST 766.3 SR 1172.3 SS 611.9
CRT -.5873 CRS -.9877 CST .7068
LSA 1418.5 MSA 568.9 SSA .9
EL1 1280.2 EL2 567.9 ALF 116.64

LAUNCH DATE OCT 15 1965 FLIGHT TIME 154.00 ARRIVAL DATE MAR 18 1966

HELIOCENTRIC CONIC DISTANCE 421.014

RL 149.16 LAL .00 LOL 21.43 VL 27.360 GAL 1.50 AZL 111.15 HCA 187.05 SMA 128.73 ECC .16076 INC21.1511 VI 29.872
RP 108.04 LAP 2.54 LOP 208.01 VP 37.760 GAP -.11 AZP 68.99 TAL 172.13 TAP 359.18 RCA 108.04 APO 149.43 V2 35.076
RC 79.446 GL -65.37 GP 88.12 ZAL 83.61 ZAP 88.82 ETS 281.87 ZAE 95.12 ETE 25.94 ZAC 77.65 ETC 159.28 CLP 51.44

PLANETOCENTRIC CONIC

C3 117.865 VHL 10.857 DLA -75.14 RAL 12.60 RAD 6570.2 VEL 15.466 PTH 2.76 VHP 14.919 DPA 67.33 RAP 279.49 ECC 2.9398

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
16.94	11 10 18	2207.35	15.63	77.76	278.33	164.55	11 47 5	1607.4	23.33	75.86
163.06	22 2 51	5714.72	15.63	259.54	278.36	164.55	23 38 6	5114.7	23.33	257.65
16.94	11 10 18	2207.35	15.63	77.76	278.33	164.55	11 47 5	1607.4	23.33	75.86
163.06	22 2 51	5714.72	15.63	259.54	278.36	164.55	23 38 6	5114.7	23.33	257.65
16.94	11 10 18	2207.35	15.63	77.76	278.33	164.55	11 47 5	1607.4	23.33	75.86
163.06	22 2 51	5714.72	15.63	259.54	278.36	164.55	23 38 6	5114.7	23.33	257.65

DIFFERENTIAL CORRECTIONS
TOE-2.5713 TRA-1.8347 TC3 -.0271 BAU .0586
RDE -.2903 RRA-1.0336 RC3 .0255 FAU .00167
FDE .8017 FRA .6241 FC3 -.0123 BSP 14249
BDE 2.5876 BRA 2.1058 BC3 .0372 FSP -377

MID-COURSE EXECUTION ACCURACY
SGT 4012.3 SGR 2133.2 SG3 116.9
RRT .9621 RRF -.9698 RTF -.9991
SGB 4544.1 R23 .0279 R13 -.9992
SG1 4514.7 SG2 516.9 THA 27.48

ORBIT DETERMINATION ACCURACY
ST 1767.6 SR 656.2 SS 737.6
CRT .8023 CRS .8273 CST .9991
LSA 1989.6 MSA 374.9 SSA 1.5
EL1 1847.8 EL2 374.7 ALF 17.32

LAUNCH DATE OCT 15 1965 FLIGHT TIME 156.00 ARRIVAL DATE MAR 20 1966

HELIOCENTRIC CONIC DISTANCE 427.176

RL 149.16 LAL .00 LOL 21.43 VL 27.364 GAL 1.57 AZL 103.89 HCA 190.08 SMA 128.76 ECC .16069 INC13.8866 VI 29.872
RP 108.08 LAP 2.41 LOP 211.22 VP 37.751 GAP .26 AZP 76.32 TAL 171.76 TAP 1.84 RCA 108.07 APO 149.45 V2 35.063
RC 81.719 GL -61.68 GP 83.37 ZAL 80.42 ZAP 89.64 ETS 342.89 ZAE 102.59 ETE 85.67 ZAC 70.66 ETC 215.82 CLP -86.90

PLANETOCENTRIC CONIC

C3 55.620 VHL 7.458 DLA -71.44 RAL 4.78 RAD 6569.0 VEL 13.303 PTH 2.43 VHP 10.522 DPA 59.50 RAP 283.91 ECC 1.9154

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
21.20	10 47 54	2027.86	26.21	71.05	265.26	159.22	11 21 42	1427.9	33.65	68.06
158.80	21 22 52	5553.84	26.22	257.16	265.28	159.22	22 55 25	4953.8	33.66	254.18
21.20	10 47 54	2027.86	26.21	71.05	265.26	159.22	11 21 42	1427.9	33.65	68.06
158.80	21 22 52	5553.84	26.22	257.16	265.28	159.22	22 55 25	4953.8	33.66	254.18
21.20	10 47 54	2027.86	26.21	71.05	265.26	159.22	11 21 42	1427.9	33.65	68.06
158.80	21 22 52	5553.84	26.22	257.16	265.28	159.22	22 55 25	4953.8	33.66	254.18

DIFFERENTIAL CORRECTIONS
TOE -.7336 TRA .0802 TC3 -.0777 BAU .3078
RDE -.9767 RRA-1.8602 RC3 .4066 FAU .01424
FDE .5476 FRA .8093 FC3 -.2217 BSP 14400
BDE 1.2215 BRA 1.8619 BC3 .4140 FSP -562

MID-COURSE EXECUTION ACCURACY
SGT 607.1 SGR 4592.0 SG3 175.0
RRT -.1854 RRF -.9984 RTF .1460
SGB 4631.9 R23 .0430 R13 -.9983
SG1 4593.4 SG2 596.4 THA 91.43

ORBIT DETERMINATION ACCURACY
ST 566.6 SR 1541.9 SS 655.9
CRT .3944 CRS .9935 CST .4967
LSA 1691.8 MSA 515.9 SSA 2.0
EL1 1560.0 EL2 514.6 ALF 80.74

LAUNCH DATE OCT 15 1965 FLIGHT TIME 158.00 ARRIVAL DATE MAR 22 1966

DISTANCE 433.411

HELIOCENTRIC CONIC

RL 149.16 LAL .00 LOL 21.43 VL 27.366 GAL 1.63 AZL 99.99 HCA 193.20 SMA 128.78 ECC .16077 INC 9.9917 V1 29.872
RP 108.12 LAP 2.27 LOP 214.43 VP 37.740 GAP .64 AZP 80.27 TAL 171.43 TAP 4.62 RCA 108.07 APO 149.38 V2 35.050
RC 84.008 GL -56.08 GP 77.08 ZAL 77.16 ZAP 91.29 ETS 356.15 ZAE 108.18 ETE 98.20 ZAC 65.10 ETC 224.69 CLP -95.80

PLANETOCENTRIC CONIC

C3 32.717 VHL 5.720 DLA -66.72 RAL 355.28 RAD 6568.3 VEL 12.413 PTH 2.24 VHP 8.220 DPA 53.22 RAP 285.78 ECC 1.5384

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
26.68	10 21 53	1878.99	33.42	61.70	248.77	151.73	10 53 12	1279.0	40.37	57.16
153.32	20 33 2	5436.28	33.42	253.65	248.79	151.73	22 3 39	4836.3	40.37	249.11
26.68	10 21 53	1878.99	33.42	61.70	248.77	151.73	10 53 12	1279.0	40.37	57.16
153.32	20 33 2	5436.28	33.42	253.65	248.79	151.73	22 3 39	4836.3	40.37	249.11
26.68	10 21 53	1878.99	33.42	61.70	248.77	151.73	10 53 12	1279.0	40.37	57.16
153.32	20 33 2	5436.28	33.42	253.65	248.79	151.73	22 3 39	4836.3	40.37	249.11

DIFFERENTIAL CORRECTIONS

TDE -.5011 TRA .4250 TC3 -.3530 BAU .4324
RDE -.2633 RRA-1.7152 RC3 .9233 FAU .02600
FDE .2600 FRA 1.0834 FC3 -.6880 BSP 14578
BDE .5660 BRA 1.7671 BC3 .9885 FSP -805

MID-COURSE EXECUTION ACCURACY

SGT 1255.0 SGR 4480.8 SG3 247.8
RRT -.8848 RRF -.9987 RTF .8735
SGB 4653.2 R23 .0525 R13 -.9975
SG1 4618.5 SG2 567.4 THA 104.14

ORBIT DETERMINATION ACCURACY

ST 597.1 SR 1330.7 SS 613.7
CRT -.3642 CRS .9943 CST -.2630
LSA 1481.2 MSA 556.8 SSA 2.8
EL1 1351.9 EL2 547.4 ALF 101.13

LAUNCH DATE OCT 15 1965 FLIGHT TIME 160.00 ARRIVAL DATE MAR 24 1966

DISTANCE 439.665

HELIOCENTRIC CONIC

RL 149.16 LAL .00 LOL 21.43 VL 27.366 GAL 1.70 AZL 97.57 HCA 196.34 SMA 128.77 ECC .16102 INC 7.5720 V1 29.872
RP 108.16 LAP 2.13 LOP 217.64 VP 37.728 GAP 1.03 AZP 82.73 TAL 171.08 TAP 7.42 RCA 108.04 APO 149.51 V2 35.036
RC 86.309 GL -49.79 GP 71.55 ZAL 73.96 ZAP 93.68 ETS 3.71 ZAE 112.74 ETE 105.68 ZAC 60.17 ETC 228.06 CLP-101.70

PLANETOCENTRIC CONIC

C3 22.274 VHL 4.719 DLA -61.23 RAL 347.79 RAD 6567.9 VEL 11.986 PTH 2.14 VHP 6.848 DPA 47.67 RAP 286.61 ECC 1.3666

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
33.14	10 7 11	1759.11	36.98	50.48	233.37	142.96	10 36 30	1159.1	43.19	44.30
146.86	19 48 2	5365.43	36.99	249.82	233.38	142.95	21 17 27	4765.4	43.20	243.64
33.14	10 7 11	1759.11	36.98	50.48	233.37	142.96	10 36 30	1159.1	43.19	44.30
146.86	19 48 2	5365.43	36.99	249.82	233.38	142.95	21 17 27	4765.4	43.20	243.64
33.14	10 7 11	1759.11	36.98	50.48	233.37	142.96	10 36 30	1159.1	43.19	44.30
146.86	19 48 2	5365.43	36.99	249.82	233.38	142.95	21 17 27	4765.4	43.20	243.64

DIFFERENTIAL CORRECTIONS

TDE -.4483 TRA .6153 TC3 -.7819 BAU .4920
RDE .0298 RRA-1.6147 RC3 1.4555 FAU .03762
FDE .0791 FRA 1.4134 FC3-1.4624 BSP 14599
BDE .4493 BRA 1.7280 BC3 1.6522 FSP -1077

MID-COURSE EXECUTION ACCURACY

SGT 1802.8 SGR 4298.9 SG3 330.4
RRT -.9492 RRF -.9985 RTF .9428
SGB 4661.6 R23 .0613 R13 -.9967
SG1 4631.7 SG2 526.8 THA 112.00

ORBIT DETERMINATION ACCURACY

ST 716.6 SR 1223.2 SS 635.9
CRT -.6726 CRS .9929 CST -.5801
LSA 1466.4 MSA 513.5 SSA 3.5
EL1 1331.3 EL2 487.2 ALF 115.10

LAUNCH DATE OCT 15 1965 FLIGHT TIME 162.00 ARRIVAL DATE MAR 26 1966

DISTANCE 445.917

HELIOCENTRIC CONIC

RL 149.16 LAL .00 LOL 21.43 VL 27.363 GAL 1.78 AZL 95.92 HCA 199.51 SMA 128.75 ECC .16145 INC 5.9195 V1 29.872
RP 108.20 LAP 1.97 LOP 220.85 VP 37.713 GAP 1.41 AZP 84.42 TAL 170.70 TAP 10.21 RCA 107.97 APO 149.54 V2 35.023
RC 88.623 GL -43.40 GP 66.46 ZAL 70.93 ZAP 96.67 ETS 9.36 ZAE 116.54 ETE 111.92 ZAC 55.56 ETC 229.68 CLP-106.91

PLANETOCENTRIC CONIC

C3 16.855 VHL 4.105 DLA -55.41 RAL 342.42 RAD 6567.7 VEL 11.757 PTH 2.08 VHP 5.968 DPA 42.54 RAP 286.89 ECC 1.2774

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
40.16	10 4 7	1657.65	37.59	38.65	220.34	134.24	10 31 44	1057.6	42.92	31.25
139.84	19 8 14	5335.05	37.60	246.90	220.36	134.23	20 37 9	4735.1	42.93	239.49
40.16	10 4 7	1657.65	37.59	38.65	220.34	134.24	10 31 44	1057.6	42.92	31.25
139.84	19 8 14	5335.05	37.60	246.90	220.36	134.23	20 37 9	4735.1	42.93	239.49
40.16	10 4 7	1657.65	37.59	38.65	220.34	134.24	10 31 44	1057.6	42.92	31.25
139.84	19 8 14	5335.05	37.60	246.90	220.36	134.23	20 37 9	4735.1	42.93	239.49

DIFFERENTIAL CORRECTIONS

TDE -.4019 TRA .7735 TC3-1.3327 BAU .5268
RDE .0977 RRA-1.5276 RC3 1.9206 FAU .04889
FDE .0233 FRA 1.7694 FC3-2.5112 BSP 14588
BDE .4136 BRA 1.7122 BC3 2.3377 FSP -1360

MID-COURSE EXECUTION ACCURACY

SGT 2264.4 SGR 4075.0 SG3 415.9
RRT -.9691 RRF -.9982 RTF .9641
SGB 4661.9 R23 .0708 R13 -.9957
SG1 4635.9 SG2 491.1 THA 118.65

ORBIT DETERMINATION ACCURACY

ST 800.7 SR 1135.7 SS 673.7
CRT -.7925 CRS .9894 CST -.6959
LSA 1472.4 MSA 465.5 SSA 4.4
EL1 1325.0 EL2 418.5 ALF 122.88

LAUNCH DATE OCT 15 1965 FLIGHT TIME 164.00 ARRIVAL DATE MAR 28 1966

DISTANCE 452.160

HELIOCENTRIC CONIC

RL 149.16 LAL .00 LOL 21.43 VL 27.358 GAL 1.87 AZL 94.71 HCA 202.68 SMA 128.72 ECC .16204 INC 4.7147 V1 29.872
RP 108.24 LAP 1.82 LOP 224.05 VP 37.697 GAP 1.80 AZP 85.65 TAL 170.27 TAP 12.96 RCA 107.86 APO 149.57 V2 35.010
RC 90.946 GL -37.20 GP 61.67 ZAL 68.16 ZAP 100.12 ETS 13.90 ZAE 119.70 ETE 117.72 ZAC 51.20 ETC 230.35 CLP-111.73

PLANETOCENTRIC CONIC

C3 13.816 VHL 3.717 DLA -49.59 RAL 338.63 RAD 6567.5 VEL 11.628 PTH 2.04 VHP 5.379 DPA 37.70 RAP 286.90 ECC 1.2274

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
47.42	10 10 54	1563.83	36.20	27.09	210.09	126.56	10 36 57	963.8	40.67	19.04
132.58	18 31 14	5339.54	36.21	245.90	210.10	126.55	20 0 13	4739.5	40.68	237.84
47.42	10 10 54	1563.83	36.20	27.09	210.09	126.56	10 36 57	963.8	40.67	19.04
132.58	18 31 14	5339.54	36.21	245.90	210.10	126.55	20 0 13	4739.5	40.68	237.84
47.42	10 10 54	1563.83	36.20	27.09	210.09	126.56	10 36 57	963.8	40.67	19.04
132.58	18 31 14	5339.54	36.21	245.90	210.10	126.55	20 0 13	4739.5	40.68	237.84

DIFFERENTIAL CORRECTIONS

TDE -.3358 TRA .9216 TC3-1.9508 BAU .5499
RDE .0723 RRA-1.4444 RC3 2.2492 FAU .05906
FDE .0755 FRA 2.1283 FC3-3.7008 BSP 14555
BDE .3435 BRA 1.7134 BC3 2.9774 FSP -1629

MID-COURSE EXECUTION ACCURACY

SGT 2678.5 SGR 3821.9 SG3 497.8
RRT -.9779 RRF -.9978 RTF .9734
SGB 4667.1 R23 .0799 R13 -.9946
SG1 4644.2 SG2 461.0 THA 124.82

ORBIT DETERMINATION ACCURACY

ST 838.0 SR 1037.7 SS 708.8
CRT -.8480 CRS .9831 CST -.7369
LSA 1447.2 MSA 432.4 SSA 5.4
EL1 1284.6 EL2 358.8 ALF 127.87

LAUNCH DATE OCT 15 1965 FLIGHT TIME 166.00 ARRIVAL DATE MAR 30 1966

HELIOCENTRIC CONIC DISTANCE 458.387

RL 149.16 LAL .00 LOL 21.43 VL 27.351 GAL 1.97 AZL 93.79 HCA 205.86 SMA 128.67 ECC .16281 INC 3.7930 V1 29.872
RP 108.29 LAP 1.65 LOP 227.24 VP 37.680 GAP 2.18 AZP 86.59 TAL 169.80 TAP 15.67 RCA 107.72 APO 149.62 V2 34.996
RC 93.279 GL -31.41 GP 57.14 ZAL 65.67 ZAP 103.88 ETS 17.60 ZAE 122.26 ETE 123.28 ZAC 47.08 ETC 230.28 CLP-116.24

PLANETOCENTRIC CONIC

C3 12.041 VHL 3.470 DLA -44.03 RAL 335.96 RAD 6567.5 VEL 11.551 PTH 2.02 VHP 4.980 DPA 33.11 RAP 286.79 ECC 1.1982

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
54.76	10 26 30	1468.03	33.65	15.93	202.43	120.26	10 50 58	868.0	37.38	7.64
125.24	17 54 21	5376.22	33.66	247.34	202.44	120.25	19 23 57	4776.2	37.39	239.05
54.76	10 26 30	1468.03	33.65	15.93	202.43	120.26	10 50 58	868.0	37.38	7.64
125.24	17 54 21	5376.22	33.66	247.34	202.44	120.25	19 23 57	4776.2	37.39	239.05
54.76	10 26 30	1468.03	33.65	15.93	202.43	120.26	10 50 58	868.0	37.38	7.64
125.24	17 54 21	5376.22	33.66	247.34	202.44	120.25	19 23 57	4776.2	37.39	239.05

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.2509 TRA 1.0634 TC3-2.5785 BAU .5703 SGT 3055.6 SGR 3545.6 SG3 570.0 ST 843.3 SR 937.6 SS 744.7
RDE .0203 RRA-1.3581 RC3 2.4295 FAU .06789 RRT -.9828 RRF -.9972 RTF .9784 CRT -.8879 CRS .9738 CST -.7601
FDE .2018 FRA 2.4609 FC3-4.8813 BSP 14621 SGB 4680.6 R23 .0873 R13 -.9934 LSA 1407.6 MSA 404.4 SSA 6.7
BDE .2517 BRA 1.7249 BC3 3.5428 FSP -1878 SG1 4660.8 SG2 429.9 THA 130.68 EL1 1225.6 EL2 296.8 ALF 131.59

LAUNCH DATE OCT 15 1965 FLIGHT TIME 168.00 ARRIVAL DATE APR 1 1966

HELIOCENTRIC CONIC DISTANCE 464.597

RL 149.16 LAL .00 LOL 21.43 VL 27.342 GAL 2.08 AZL 93.06 HCA 209.04 SMA 128.61 ECC .16374 INC 3.0614 V1 29.872
RP 108.33 LAP 1.49 LOP 230.44 VP 37.661 GAP 2.55 AZP 87.32 TAL 169.29 TAP 18.34 RCA 107.55 APO 149.67 V2 34.983
RC 95.621 GL -26.10 GP 52.84 ZAL 63.45 ZAP 107.83 ETS 20.63 ZAE 124.26 ETE 128.64 ZAC 43.25 ETC 229.52 CLP-120.46

PLANETOCENTRIC CONIC

C3 11.001 VHL 3.317 DLA -38.84 RAL 334.10 RAD 6567.4 VEL 11.506 PTH 2.00 VHP 4.713 DPA 28.78 RAP 286.66 ECC 1.1811

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
62.23	10 51 28	1359.59	30.55	4.63	196.94	115.25	11 14 7	759.6	33.67	356.34
117.77	17 14 28	5447.06	30.56	251.54	196.94	115.24	18 45 15	4847.1	33.68	243.26
62.23	10 51 28	1359.59	30.55	4.63	196.94	115.25	11 14 7	759.6	33.67	356.34
117.77	17 14 28	5447.06	30.56	251.54	196.94	115.24	18 45 15	4847.1	33.68	243.26
62.23	10 51 28	1359.59	30.55	4.63	196.94	115.25	11 14 7	759.6	33.67	356.34
117.77	17 14 28	5447.06	30.56	251.54	196.94	115.24	18 45 15	4847.1	33.68	243.26

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.1503 TRA 1.2019 TC3-3.1618 BAU .5894 SGT 3401.7 SGR 3261.6 SG3 628.9 ST 843.1 SR 850.1 SS 793.6
RDE -.0337 RRA-1.2726 RC3 2.4628 FAU .07481 RRT -.9855 RRF -.9964 RTF .9815 CRT -.9279 CRS .9629 CST -.7931
FDE .3780 FRA 2.7544 FC3-5.8868 BSP 14728 SGB 4712.7 R23 .0916 R13 -.9922 LSA 1386.5 MSA 375.1 SSA 8.1
BDE .1540 BRA 1.7505 BC3 4.0078 FSP -2085 SG1 4695.7 SG2 400.4 THA 136.22 EL1 1175.5 EL2 227.3 ALF 134.74

LAUNCH DATE OCT 15 1965 FLIGHT TIME 170.00 ARRIVAL DATE APR 3 1966

HELIOCENTRIC CONIC DISTANCE 470.788

RL 149.16 LAL .00 LOL 21.43 VL 27.332 GAL 2.20 AZL 92.46 HCA 212.23 SMA 128.54 ECC .16484 INC 2.4634 V1 29.872
RP 108.37 LAP 1.31 LOP 233.63 VP 37.642 GAP 2.93 AZP 87.92 TAL 168.73 TAP 20.96 RCA 107.35 APO 149.73 V2 34.970
RC 97.969 GL -21.32 GP 48.81 ZAL 61.49 ZAP 111.84 ETS 23.08 ZAE 125.73 ETE 133.73 ZAC 39.74 ETC 228.08 CLP-124.39

PLANETOCENTRIC CONIC

C3 10.420 VHL 3.228 DLA -34.09 RAL 332.81 RAD 6567.4 VEL 11.481 PTH 2.00 VHP 4.540 DPA 24.72 RAP 286.59 ECC 1.1715

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
70.18	11 29 13	1221.29	27.29	351.92	193.12	111.27	11 49 35	621.3	29.93	343.73
109.82	16 26 27	5563.27	27.30	259.27	193.12	111.25	17 59 10	4963.3	29.94	251.08
70.18	11 29 13	1221.29	27.29	351.92	193.12	111.27	11 49 35	621.3	29.93	343.73
109.82	16 26 27	5563.27	27.30	259.27	193.12	111.25	17 59 10	4963.3	29.94	251.08
110.00	16 8 11	5618.94	25.86	262.96	192.46	113.18	17 41 50	5018.9	28.76	254.98
110.00	16 46 39	5501.66	28.76	255.07	193.73	109.33	18 18 21	4901.7	31.12	246.67

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.0384 TRA 1.3378 TC3-3.6649 BAU .6087 SGT 3718.1 SGR 2977.8 SG3 672.1 ST 865.8 SR 778.1 SS 857.7
RDE -.0783 RRA-1.1886 RC3 2.3789 FAU .07958 RRT -.9871 RRF -.9954 RTF .9834 CRT -.9665 CRS .9526 CST -.8431
FDE .5783 FRA 2.9960 FC3-6.6116 BSP 14903 SGB 4763.6 R23 .0920 R13 -.9911 LSA 1405.0 MSA 341.6 SSA 9.7
BDE .0872 BRA 1.7896 BC3 4.3693 FSP -2242 SG1 4748.9 SG2 373.9 THA 141.39 EL1 1154.4 EL2 149.7 ALF 138.16

LAUNCH DATE OCT 15 1965 FLIGHT TIME 172.00 ARRIVAL DATE APR 5 1966

HELIOCENTRIC CONIC DISTANCE 476.959

RL 149.16 LAL .00 LOL 21.43 VL 27.320 GAL 2.34 AZL 91.96 HCA 215.41 SMA 128.46 ECC .16610 INC 1.9626 V1 29.872
RP 108.41 LAP 1.14 LOP 236.82 VP 37.621 GAP 3.29 AZP 88.40 TAL 168.13 TAP 23.54 RCA 107.12 APO 149.80 V2 34.957
RC 100.323 GL -17.07 GP 45.04 ZAL 59.74 ZAP 115.82 ETS 25.05 ZAE 126.72 ETE 138.49 ZAC 36.61 ETC 225.97 CLP-128.05

PLANETOCENTRIC CONIC

C3 10.146 VHL 3.185 DLA -29.79 RAL 331.96 RAD 6567.4 VEL 11.469 PTH 1.99 VHP 4.440 DPA 20.94 RAP 286.62 ECC 1.1670

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
80.34	12 35 36	997.28	24.10	333.67	190.57	108.07	12 52 13	397.3	26.34	325.59
99.66	15 13 16	5776.56	24.10	274.18	190.57	108.06	16 49 33	5176.6	26.35	266.10
100.00	14 55 4	5834.71	22.71	277.97	190.05	109.98	16 32 19	5234.7	25.22	270.08
100.00	15 36 29	5702.41	25.51	269.14	191.05	106.14	17 11 31	5102.4	27.47	260.89
110.00	14 14 11	675.76	15.00	305.89	186.16	121.08	14 25 26	75.8	19.01	299.07
110.00	18 33 51	5146.08	33.90	228.77	192.82	94.66	19 59 38	4546.1	34.18	219.54

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE .0815 TRA 1.4731 TC3-4.0696 BAU .6286 SGT 4008.2 SGR 2705.0 SG3 699.4 ST 930.9 SR 718.8 SS 933.1
RDE -.1104 RRA-1.1090 RC3 2.2166 FAU .08226 RRT -.9877 RRF -.9939 RTF .9847 CRT -.9923 CRS .9439 CST -.8966
FDE .7819 FRA 3.1844 FC3-7.0186 BSP 15120 SGB 4835.5 R23 .0881 R13 -.9902 LSA 1469.6 MSA 307.0 SSA 11.4
BDE .1372 BRA 1.8439 BC3 4.6341 FSP -2344 SG1 4822.7 SG2 352.0 THA 146.11 EL1 1174.0 EL2 70.4 ALF 142.38

LAUNCH DATE OCT 15 1965 FLIGHT TIME 174.00 ARRIVAL DATE APR 7 1966

DISTANCE 483.110

HELIOCENTRIC CONIC

RL 149.16 LAL .00 LOL 21.43 VL 27.306 GAL 2.48 AZL 91.53 HCA 218.59 SMA 128.37 ECC .16754 INC 1.5348 V1 29.872
RP 108.44 LAP .96 LOP 240.01 VP 37.600 GAP 3.66 AZP 88.80 TAL 167.49 TAP 26.07 RCA 106.86 APO 149.87 V2 34.945
RC 102.682 GL -13.30 GP 41.56 ZAL 58.16 ZAP 119.69 ETS 26.63 ZAE 127.31 ETE 142.87 ZAC 33.90 ETC 223.19 CLP-131.45

PLANETOCENTRIC CONIC

C3 10.090 VHL 3.176 DLA -25.93 RAL 331.44 RAD 6567.4 VEL 11.466 PTH 1.99 VHP 4.395 DPA 17.46 RAP 286.78 ECC 1.1661

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 10 26	1077.04	14.78	335.65	186.58	114.43	12 28 23	477.0	17.95	328.41
90.00	15 34 17	5694.58	27.66	269.05	190.37	96.30	17 9 11	5094.6	28.25	260.43
100.00	13 5 2	900.75	12.92	321.78	185.66	117.19	13 20 2	300.8	16.47	314.78
100.00	17 22 22	5346.09	29.71	243.60	190.57	93.42	18 51 28	4746.1	29.87	234.80
110.00	13 25 15	837.28	9.15	314.74	183.42	123.08	13 39 13	237.3	13.44	308.27
110.00	19 18 38	4982.33	34.08	216.00	190.59	87.12	20 41 40	4382.3	33.30	206.85

DIFFERENTIAL CORRECTIONS

TDE .2078 TRA 1.6094 TC3-4.3672 BAU .6482
RDE -.1311 RRA-1.0357 RC3 2.0048 FAU .08278
FDE .9769 FRA 3.3237 FC3-7.1027 BSP 15373
BDE .2457 BRA 1.9139 BC3 4.8053 FSP -2391

MID-COURSE EXECUTION ACCURACY

SGT 4272.8 SGR 2448.1 SG3 712.0
RRT -.9873 RRF -.9920 RTF .9854
SGB 4924.5 R23 .0812 R13 -.9894
SG1 4912.8 SG2 338.3 THA 150.35

ORBIT DETERMINATION ACCURACY

ST 1041.7 SR 667.6 SS 1013.5
CRT -.9997 CRS .9362 CST -.9382
LSA 1575.2 MSA 276.7 SSA 12.9
EL1 1237.2 EL2 13.3 ALF 147.35

LAUNCH DATE OCT 15 1965 FLIGHT TIME 176.00 ARRIVAL DATE APR 9 1966

DISTANCE 489.239

HELIOCENTRIC CONIC

RL 149.16 LAL .00 LOL 21.43 VL 27.292 GAL 2.65 AZL 91.16 HCA 221.77 SMA 128.27 ECC .16914 INC 1.1630 V1 29.872
RP 108.48 LAP .77 LOP 243.19 VP 37.577 GAP 4.03 AZP 89.13 TAL 166.80 TAP 28.57 RCA 106.57 APO 149.96 V2 34.932
RC 105.043 GL -9.98 GP 38.36 ZAL 56.72 ZAP 123.41 ETS 27.89 ZAE 127.56 ETE 146.83 ZAC 31.65 ETC 219.79 CLP-134.60

PLANETOCENTRIC CONIC

C3 10.198 VHL 3.193 DLA -22.46 RAL 331.18 RAD 6567.4 VEL 11.471 PTH 1.99 VHP 4.395 DPA 14.28 RAP 287.09 ECC 1.1678

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 12 12	1277.80	8.82	347.38	184.55	117.02	11 33 30	677.8	12.37	340.51
90.00	16 30 27	5498.08	28.31	254.73	189.31	89.17	18 2 5	4898.1	27.89	246.09
100.00	12 17 6	1068.33	7.53	331.30	183.86	119.01	12 34 55	468.3	11.35	324.59
100.00	18 8 14	5182.78	29.76	231.48	189.25	87.05	19 34 37	4582.8	29.03	222.75
110.00	12 51 29	960.56	4.51	321.27	182.00	123.92	13 7 29	360.6	8.94	314.98
110.00	19 50 21	4863.31	33.29	206.81	188.85	81.73	21 11 24	4263.3	31.79	197.90

DIFFERENTIAL CORRECTIONS

TDE .3365 TRA 1.7446 TC3-4.5745 BAU .6694
RDE -.1401 RRA -.9669 RC3 1.7837 FAU .08192
FDE 1.1475 FRA 3.4097 FC3-6.9547 BSP 15706
BDE .3645 BRA 1.9946 BC3 4.9099 FSP -2402

MID-COURSE EXECUTION ACCURACY

SGT 4513.6 SGR 2210.2 SG3 711.4
RRT -.9862 RRF -.9894 RTF .9860
SGB 5025.7 R23 .0712 R13 -.9888
SG1 5014.9 SG2 329.3 THA 154.10

ORBIT DETERMINATION ACCURACY

ST 1185.2 SR 617.7 SS 1087.3
CRT -.9931 CRS .9275 CST -.9643
LSA 1704.1 MSA 253.4 SSA 14.1
EL1 1334.9 EL2 64.4 ALF 152.57

LAUNCH DATE OCT 15 1965 FLIGHT TIME 178.00 ARRIVAL DATE APR 11 1966

DISTANCE 495.346

HELIOCENTRIC CONIC

RL 149.16 LAL .00 LOL 21.43 VL 27.276 GAL 2.82 AZL 90.83 HCA 224.95 SMA 128.16 ECC .17091 INC .8349 V1 29.872
RP 108.52 LAP .59 LOP 246.38 VP 37.555 GAP 4.39 AZP 89.41 TAL 166.07 TAP 31.02 RCA 106.26 APO 150.06 V2 34.920
RC 107.406 GL -7.06 GP 35.45 ZAL 55.38 ZAP 126.94 ETS 28.92 ZAE 127.56 ETE 150.35 ZAC 29.88 ETC 215.87 CLP-137.53

PLANETOCENTRIC CONIC

C3 10.437 VHL 3.231 DLA -19.36 RAL 331.13 RAD 6567.4 VEL 11.482 PTH 2.00 VHP 4.429 DPA 11.39 RAP 287.55 ECC 1.1718

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 34 27	1419.39	4.36	355.40	183.70	118.01	10 58 7	819.4	8.07	348.69
90.00	17 7 48	5365.83	27.80	245.09	188.48	84.37	18 37 13	4765.8	26.72	236.59
100.00	11 43 45	1195.78	3.27	338.36	183.10	119.73	12 3 41	595.8	7.21	331.78
100.00	18 41 11	5064.67	29.03	222.78	188.32	82.53	20 5 36	4464.7	27.69	214.23
110.00	12 25 58	1063.48	.59	326.65	181.42	124.18	12 43 42	463.5	5.07	320.43
110.00	20 15 27	4769.74	32.15	199.75	187.69	77.70	21 34 57	4169.7	30.12	191.12

DIFFERENTIAL CORRECTIONS

TDE .4671 TRA 1.8807 TC3-4.6964 BAU .6908
RDE -.1402 RRA -.9044 RC3 1.5651 FAU .07978
FDE 1.2906 FRA 3.4534 FC3-6.6176 BSP 16088
BDE .4877 BRA 2.0869 BC3 4.9504 FSP -2381

MID-COURSE EXECUTION ACCURACY

SGT 4732.1 SGR 1993.6 SG3 700.1
RRT -.9842 RRF -.9860 RTF .9863
SGB 5135.0 R23 .0602 R13 -.9883
SG1 5124.6 SG2 326.2 THA 157.38

ORBIT DETERMINATION ACCURACY

ST 1348.8 SR 568.2 SS 1151.2
CRT -.9781 CRS .9163 CST -.9793
LSA 1846.8 MSA 237.4 SSA 14.9
EL1 1459.5 EL2 109.2 ALF 157.47

LAUNCH DATE OCT 15 1965 FLIGHT TIME 180.00 ARRIVAL DATE APR 13 1966

DISTANCE 501.430

HELIOCENTRIC CONIC

RL 149.16 LAL .00 LOL 21.43 VL 27.259 GAL 3.01 AZL 90.54 HCA 228.12 SMA 128.04 ECC .17287 INC .5414 V1 29.872
RP 108.56 LAP .40 LOP 249.55 VP 37.531 GAP 4.76 AZP 89.64 TAL 165.31 TAP 33.43 RCA 105.91 APO 150.18 V2 34.909
RC 109.770 GL -4.49 GP 32.80 ZAL 54.12 ZAP 130.26 ETS 29.77 ZAE 127.37 ETE 153.44 ZAC 28.59 ETC 211.56 CLP-140.26

PLANETOCENTRIC CONIC

C3 10.788 VHL 3.285 DLA -16.58 RAL 331.25 RAD 6567.4 VEL 11.497 PTH 2.00 VHP 4.493 DPA 8.79 RAP 288.16 ECC 1.1775

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 6 23	1534.13	.67	1.81	183.55	118.31	10 31 57	934.1	4.45	355.17
90.00	17 36 49	5264.53	26.91	237.81	188.06	80.82	19 4 34	4664.5	25.36	229.49
100.00	11 18 21	1301.89	-.32	344.19	183.00	119.89	11 40 3	701.9	3.66	337.66
100.00	19 7 32	4971.99	28.02	216.07	187.84	79.14	20 30 24	4372.0	26.24	207.73
110.00	12 5 53	1152.99	-2.84	331.32	181.43	124.08	12 25 6	553.0	1.66	325.12
110.00	20 36 30	4693.66	30.91	194.16	187.06	74.61	21 54 43	4093.7	28.49	185.80

DIFFERENTIAL CORRECTIONS

TDE .5934 TRA 2.0197 TC3-4.7445 BAU .7119
RDE -.1340 RRA -.8490 RC3 1.3602 FAU .07668
FDE 1.4079 FRA 3.4665 FC3-6.1534 BSP 16479
BDE .6142 BRA 2.1909 BC3 4.9357 FSP -2329

MID-COURSE EXECUTION ACCURACY

SGT 4931.6 SGR 1800.3 SG3 681.3
RRT -.9810 RRF -.9817 RTF .9864
SGB 5249.9 R23 .0497 R13 -.9878
SG1 5239.6 SG2 328.3 THA 160.21

ORBIT DETERMINATION ACCURACY

ST 1522.5 SR 519.9 SS 1204.7
CRT -.9579 CRS .9019 CST -.9877
LSA 1997.0 MSA 227.3 SSA 15.4
EL1 1602.6 EL2 141.9 ALF 161.74

LAUNCH DATE OCT 15 1965 FLIGHT TIME 182.00 ARRIVAL DATE APR 15 1966

HELIOCENTRIC CONIC DISTANCE 507.492

RL	149.16	LAL	.00	LOL	21.43	VL	27.240	GAL	3.22	AZL	90.28	HCA	231.30	SMA	127.92	ECC	.17500	INC	.2762	VI	29.872
RP	108.59	LAP	.22	LOP	252.73	VP	37.508	GAP	5.12	AZP	89.83	TAL	164.50	TAP	35.80	RCA	105.54	APO	150.31	V2	34.897
RC	112.133	GL	-2.24	GP	30.42	ZAL	52.92	ZAP	133.38	ETS	30.48	ZAE	127.04	ETE	156.14	ZAC	27.77	ETC	207.02	CLP	-142.80

PLANETOCENTRIC CONIC

C3	11.239	VHL	3.353	DLA	-14.08	RAL	331.50	RAD	6567.4	VEL	11.516	PTH	2.01	VHP	4.582	DPA	6.46	RAP	288.92	ECC	1.1850

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 44 18	1632.39	-2.50	7.29	183.91	118.22	10 11 30	1032.4	1.29	.66
90.00	18 0 57	5183.08	25.89	232.07	188.02	78.11	19 27 20	4583.1	23.99	223.91
100.00	10 58 10	1394.05	-3.44	349.25	183.39	119.71	11 21 24	794.0	.54	342.72
100.00	19 29 46	4896.65	26.94	210.74	187.76	76.53	20 51 23	4296.7	24.82	202.58
110.00	11 49 40	1232.74	-5.87	335.51	181.88	123.74	12 10 13	632.7	-1.39	329.28
110.00	20 54 46	4630.72	29.68	189.67	186.89	72.21	22 11 56	4030.7	26.96	181.54

DIFFERENTIAL CORRECTIONS								MID-COURSE EXECUTION ACCURACY								ORBIT DETERMINATION ACCURACY					
TDE	.7348	TRA	2.1639	TC3	-4.7238	BAU	.7313	SGT	5113.3	SGR	1628.7	SG3	657.0	ST	1701.3	SR	474.0	SS	1249.3		
RDE	-.1240	RRA	-.8008	RC3	1.1712	FAU	.07270	RRT	-.9766	RRF	-.9762	RTF	.9863	CRT	-.9333	CRS	.8832	CST	-.9926		
FDE	1.5038	FRA	3.4577	FC3	-5.5997	BSP	16829	SGB	5366.4	R23	.0411	R13	-.9873	LSA	2151.9	MSA	221.4	SSA	15.6		
BDE	.7452	BRA	2.3073	BC3	4.8669	FSP	-2249	SG1	5356.0	SG2	334.2	THA	162.65	EL1	1758.4	EL2	164.7	ALF	165.29		

LAUNCH DATE OCT 15 1965 FLIGHT TIME 184.00 ARRIVAL DATE APR 17 1966

HELIOCENTRIC CONIC DISTANCE 513.530

RL	149.16	LAL	.00	LOL	21.43	VL	27.221	GAL	3.44	AZL	90.03	HCA	234.48	SMA	127.80	ECC	.17733	INC	.0343	VI	29.872
RP	108.63	LAP	.03	LOP	255.91	VP	37.483	GAP	5.49	AZP	89.98	TAL	163.67	TAP	38.14	RCA	105.13	APO	150.46	V2	34.886
RC	114.493	GL	-.27	GP	28.27	ZAL	51.76	ZAP	136.30	ETS	31.12	ZAE	126.62	ETE	158.47	ZAC	27.38	ETC	202.45	CLP	-145.17

PLANETOCENTRIC CONIC

C3	11.784	VHL	3.433	DLA	-11.84	RAL	331.88	RAD	6567.4	VEL	11.540	PTH	2.01	VHP	4.691	DPA	4.39	RAP	289.83	ECC	1.1939

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 26 25	1719.14	-5.28	12.15	184.65	117.86	9 55 4	1119.1	-1.51	5.50
90.00	18 21 48	5116.02	24.87	227.42	188.32	76.00	19 47 4	4516.0	22.70	219.42
100.00	10 41 45	1476.11	-6.20	353.78	184.15	119.30	11 6 21	876.1	-2.24	347.23
100.00	19 49 10	4834.28	25.88	206.41	188.03	74.49	21 9 44	4234.3	23.50	198.42
110.00	11 36 24	1304.97	-8.58	339.34	182.69	123.22	11 58 9	705.0	-4.15	333.05
110.00	21 11 0	4578.19	28.53	186.01	187.08	70.32	22 27 18	3978.2	25.59	178.08

DIFFERENTIAL CORRECTIONS								MID-COURSE EXECUTION ACCURACY								ORBIT DETERMINATION ACCURACY					
TDE	.8691	TRA	2.3101	TC3	-4.6611	BAU	.7513	SGT	5278.7	SGR	1477.5	SG3	629.0	ST	1873.5	SR	429.3	SS	1280.2		
RDE	-.1097	RRA	-.7579	RC3	1.0081	FAU	.06855	RRT	-.9709	RRF	-.9694	RTF	.9861	CRT	-.9024	CRS	.8574	CST	-.9953		
FDE	1.5729	FRA	3.4272	FC3	-5.0363	BSP	17235	SGB	5481.5	R23	.0333	R13	-.9868	LSA	2299.0	MSA	218.4	SSA	15.7		
BDE	.8760	BRA	2.4312	BC3	4.7689	FSP	-2165	SG1	5470.9	SG2	341.5	THA	164.74	EL1	1913.5	EL2	181.1	ALF	168.21		

LAUNCH DATE OCT 15 1965 FLIGHT TIME 186.00 ARRIVAL DATE APR 19 1966

HELIOCENTRIC CONIC DISTANCE 519.543

RL	149.16	LAL	.00	LOL	21.43	VL	27.202	GAL	3.68	AZL	89.81	HCA	237.65	SMA	127.66	ECC	.17986	INC	.1894	VI	29.872
RP	108.66	LAP	-.16	LOP	259.08	VP	37.459	GAP	5.86	AZP	90.10	TAL	162.80	TAP	40.45	RCA	104.70	APO	150.62	V2	34.875
RC	116.852	GL	1.46	GP	26.34	ZAL	50.63	ZAP	139.01	ETS	31.70	ZAE	126.15	ETE	160.48	ZAC	27.40	ETC	198.02	CLP	-147.39

PLANETOCENTRIC CONIC

C3	12.420	VHL	3.524	DLA	-9.82	RAL	332.34	RAD	6567.5	VEL	11.567	PTH	2.02	VHP	4.818	DPA	2.56	RAP	290.87	ECC	1.2044

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 11 40	1797.28	-7.75	16.57	185.70	117.32	9 41 38	1197.3	-4.02	9.87
90.00	18 40 17	5060.09	23.89	223.62	188.92	74.33	20 4 37	4460.1	21.51	215.75
100.00	10 28 11	1550.46	-8.65	357.94	185.21	118.72	10 54 1	950.5	-4.75	351.32
100.00	20 6 28	4782.14	24.88	202.85	188.60	72.87	21 26 10	4182.1	22.30	195.01
110.00	11 25 25	1371.21	-11.03	342.91	183.78	122.56	11 48 16	771.2	-6.66	336.54
110.00	21 25 43	4534.16	27.49	183.02	187.59	68.83	22 41 17	3934.2	24.36	175.24

DIFFERENTIAL CORRECTIONS								MID-COURSE EXECUTION ACCURACY								ORBIT DETERMINATION ACCURACY					
TDE	1.0038	TRA	2.4608	TC3	-4.5572	BAU	.7702	SGT	5428.3	SGR	1344.6	SG3	598.9	ST	2038.7	SR	387.6	SS	1300.6		
RDE	-.0929	RRA	-.7203	RC3	.8660	FAU	.06417	RRT	-.9635	RRF	-.9610	RTF	.9858	CRT	-.8636	CRS	.8231	CST	-.9970		
FDE	1.6213	FRA	3.3832	FC3	-4.4729	BSP	17640	SGB	5592.3	R23	.0268	R13	-.9863	LSA	2439.4	MSA	217.3	SSA	15.6		
BDE	1.0081	BRA	2.5641	BC3	4.6388	FSP	-2074	SG1	5581.4	SG2	349.9	THA	166.52	EL1	2066.3	EL2	192.8	ALF	170.59		

LAUNCH DATE OCT 15 1965 FLIGHT TIME 188.00 ARRIVAL DATE APR 21 1966

HELIOCENTRIC CONIC DISTANCE 525.530

RL	149.16	LAL	.00	LOL	21.43	VL	27.181	GAL	3.93	AZL	89.60	HCA	240.82	SMA	127.52	ECC	.18259	INC	.3985	VI	29.872
RP	108.69	LAP	-.35	LOP	262.25	VP	37.435	GAP	6.23	AZP	90.19	TAL	161.90	TAP	42.72	RCA	104.24	APO	150.81	V2	34.865
RC	119.206	GL	2.98	GP	24.61	ZAL	49.53	ZAP	141.55	ETS	32.27	ZAE	125.65	ETE	162.22	ZAC	27.77	ETC	193.88	CLP	-149.47

PLANETOCENTRIC CONIC

C3	13.149	VHL	3.626	DLA	-7.99	RAL	332.89	RAD	6567.5	VEL	11.599	PTH	2.03	VHP	4.961	DPA	.94	RAP	292.04	ECC	1.2164

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 59 22	1868.67	-9.95	20.66	186.99	116.65	9 30 30	1268.7	-6.30	13.88
90.00	18 56 58	5013.16	22.99	220.47	189.75	73.00	20 20 31	4413.2	20.45	212.72
100.00	10 16 51	1618.70	-10.86	1.80	186.52	118.02	10 43 50	1018.7	-7.03	355.11
100.00	20 22 9	4738.37	23.97	199.92	189.41	71.58	21 41 8	4138.4	21.23	192.20
110.00	11 16 18	1432.56	-13.25	346.27	185.11	121.80	11 40 10	832.6	-8.95	339.81
110.00	21 39 12	4497.27	26.56	180.55	188.35	67.64	22 54 9	3897.3	23.29	172.91

DIFFERENTIAL CORRECTIONS								MID-COURSE EXECUTION ACCURACY								ORBIT DETERMINATION ACCURACY					
TDE	1.1398	TRA	2.6176	TC3	-4.4209	BAU	.7880	SGT	5564.9	SGR	1228.6	SG3	568.0	ST	2196.1	SR	350.2	SS	1312.9		
RDE	-.0746	RRA	-.6880	RC3	.7432	FAU	.05969	RRT	-.9544	RRF	-.9509	RTF	.9854	CRT	-.8147	CRS	.7783	CST	-.9981		
FDE	1.6541	FRA	3.3322	FC3	-3.9299	BSP	18023	SGB	5698.9	R23	.0218	R13	-.9858	LSA	2573.3	MSA	217.2	SSA	15.4		
BDE	1.1423	BRA	2.7066	BC3	4.4830	FSP	-1976	SG1	5687.6	SG2	358.8	THA	168.05	EL1	2214.8	EL2	201.3	ALF	172.54		

LAUNCH DATE OCT 15 1965 FLIGHT TIME 190.00 ARRIVAL DATE APR 23 1966

DISTANCE 531,491

HELIOCENTRIC CONIC
RL 149.16 LAL .00 LOL 21.43 VL 27.159 GAL 4.20 AZL 89.41 HCA 243.99 SMA 127.38 ECC .18555 INC .5946 V1 29.872
RP 108.72 LAP -.53 LOP 265.42 VP 37.410 GAP 6.61 AZP 90.26 TAL 160.97 TAP 44.96 RCA 103.75 APO 151.02 V2 34.856
RC 121.557 GL 4.31 GP 23.05 ZAL 48.45 ZAP 143.92 ETS 32.85 ZAE 125.15 ETE 163.71 ZAC 28.44 ETC 190.11 CLP-151.44

PLANETOCENTRIC CONIC
C3 13.974 VHL 3.738 DLA -6.33 RAL 333.50 RAD 6567.5 VEL 11.634 PTH 2.04 VHP 5.119 DPA -.48 RAP 293.32 ECC 1.2300

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 49 0	1934.65	-11.94	24.48	188.50	115.87	9 21 15	1334.6	-8.37	17.63
90.00	19 12 12	4973.71	22.19	217.86	190.80	71.94	20 35 6	4373.7	19.51	210.21
100.00	10 7 20	1681.95	-12.86	5.43	188.03	117.22	10 35 22	1082.0	-9.11	358.65
100.00	20 36 33	4701.64	23.16	197.49	190.44	70.55	21 54 55	4101.6	20.29	189.87
110.00	11 8 41	1489.85	-15.29	349.46	186.64	120.95	11 33 31	889.9	-11.07	342.89
110.00	21 51 41	4466.50	25.74	178.53	189.33	66.69	23 6 8	3866.5	22.37	171.00

DIFFERENTIAL CORRECTIONS
TDE 1.2770 TRA 2.7806 TC3-4.2605 BAU .8048
RDE -.0554 RRA -.6601 RC3 .6382 FAU .05526
FDE 1.6741 FRA 3.2763 FC3-3.4235 BSP 18392
BDE 1.2783 BRA 2.8579 BC3 4.3081 FSP -1877

MID-COURSE EXECUTION ACCURACY
SGT 5689.1 SGR 1127.4 SG3 537.2
RRT -.9434 RRF -.9390 RTF .9849
SGB 5799.7 R23 .0177 R13 -.9852
SG1 5788.0 SG2 367.4 THA 169.37

ORBIT DETERMINATION ACCURACY
ST 2344.2 SR 317.3 SS 1318.5
CRT -.7536 CRS .7210 CST -.9987
LSA 2699.4 MSA 217.7 SSA 15.3
EL1 2356.5 EL2 207.5 ALF 174.13

LAUNCH DATE OCT 15 1965 FLIGHT TIME 192.00 ARRIVAL DATE APR 25 1966

DISTANCE 537,424

HELIOCENTRIC CONIC
RL 149.16 LAL .00 LOL 21.43 VL 27.137 GAL 4.48 AZL 89.22 HCA 247.16 SMA 127.24 ECC .18874 INC .7802 V1 29.872
RP 108.75 LAP -.72 LOP 268.59 VP 37.386 GAP 6.99 AZP 90.30 TAL 160.01 TAP 47.17 RCA 103.22 APO 151.25 V2 34.846
RC 123.903 GL 5.48 GP 21.65 ZAL 47.38 ZAP 146.13 ETS 33.45 ZAE 124.65 ETE 164.99 ZAC 29.37 ETC 186.77 CLP-153.29

PLANETOCENTRIC CONIC
C3 14.900 VHL 3.860 DLA -4.83 RAL 334.17 RAD 6567.6 VEL 11.674 PTH 2.05 VHP 5.290 DPA -1.72 RAP 294.70 ECC 1.2452

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 40 15	1996.17	-13.74	28.10	190.18	115.00	9 13 31	1396.2	-10.26	21.16
90.00	19 26 17	4940.64	21.47	215.70	192.03	71.08	20 48 38	4340.6	18.69	208.13
100.00	9 59 19	1741.10	-14.67	8.89	189.72	116.34	10 28 20	1141.1	-11.02	2.00
100.00	20 49 54	4670.95	22.45	195.49	191.66	69.72	22 7 45	4070.9	19.48	187.95
110.00	11 2 21	1543.76	-17.15	352.53	188.34	120.03	11 28 5	943.8	-13.03	345.84
110.00	22 3 21	4441.05	25.05	176.88	190.50	65.94	23 17 22	3841.1	21.58	169.44

DIFFERENTIAL CORRECTIONS
TDE 1.4183 TRA 2.9536 TC3-4.0738 BAU .8188
RDE -.0362 RRA -.6366 RC3 .5465 FAU .05073
FDE 1.6870 FRA 3.2219 FC3-2.9476 BSP 18681
BDE 1.4187 BRA 3.0214 BC3 4.1103 FSP -1772

MID-COURSE EXECUTION ACCURACY
SGT 5803.5 SGR 1039.3 SG3 507.4
RRT -.9305 RRF -.9251 RTF .9843
SGB 5895.8 R23 .0147 R13 -.9845
SG1 5883.8 SG2 375.6 THA 170.50

ORBIT DETERMINATION ACCURACY
ST 2486.5 SR 289.8 SS 1320.5
CRT -.6797 CRS .6508 CST -.9992
LSA 2821.8 MSA 218.4 SSA 15.1
EL1 2494.3 EL2 211.9 ALF 175.44

LAUNCH DATE OCT 15 1965 FLIGHT TIME 194.00 ARRIVAL DATE APR 27 1966

DISTANCE 543,327

HELIOCENTRIC CONIC
RL 149.16 LAL .00 LOL 21.43 VL 27.115 GAL 4.79 AZL 89.04 HCA 250.33 SMA 127.09 ECC .19218 INC .9572 V1 29.872
RP 108.78 LAP -.90 LOP 271.76 VP 37.361 GAP 7.38 AZP 90.32 TAL 159.03 TAP 49.36 RCA 102.66 APO 151.51 V2 34.838
RC 126.245 GL 6.49 GP 20.39 ZAL 46.33 ZAP 148.19 ETS 34.10 ZAE 124.17 ETE 166.11 ZAC 30.50 ETC 183.86 CLP-155.05

PLANETOCENTRIC CONIC
C3 15.937 VHL 3.992 DLA -3.47 RAL 334.88 RAD 6567.6 VEL 11.718 PTH 2.06 VHP 5.473 DPA -2.79 RAP 296.18 ECC 1.2623

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 32 51	2053.98	-15.38	31.56	192.03	114.07	9 7 4	1454.0	-11.99	24.52
90.00	19 39 23	4913.12	20.85	213.92	193.42	70.40	21 1 16	4313.1	17.99	206.41
100.00	9 52 34	1796.80	-16.33	12.20	191.57	115.39	10 22 31	1196.8	-12.77	5.21
100.00	21 2 21	4645.53	21.84	193.85	193.03	69.06	22 19 46	4045.5	18.79	186.37
110.00	10 57 6	1594.80	-18.86	355.50	190.20	119.05	11 23 40	994.8	-14.84	348.68
110.00	22 14 18	4420.30	24.46	175.55	191.83	65.35	23 27 59	3820.3	20.93	168.18

DIFFERENTIAL CORRECTIONS
TDE 1.5584 TRA 3.1313 TC3-3.8813 BAU .8330
RDE -.0158 RRA -.6158 RC3 .4700 FAU .04657
FDE 1.6879 FRA 3.1633 FC3-2.5297 BSP 19025
BDE 1.5584 BRA 3.1913 BC3 3.9096 FSP -1678

MID-COURSE EXECUTION ACCURACY
SGT 5905.7 SGR 961.9 SG3 478.2
RRT -.9154 RRF -.9091 RTF .9837
SGB 5983.5 R23 .0119 R13 -.9839
SG1 5971.2 SG2 382.9 THA 171.48

ORBIT DETERMINATION ACCURACY
ST 2614.5 SR 266.8 SS 1315.2
CRT -.5887 CRS .5636 CST -.9994
LSA 2930.5 MSA 219.3 SSA 15.0
EL1 2619.2 EL2 215.3 ALF 176.54

LAUNCH DATE OCT 15 1965 FLIGHT TIME 196.00 ARRIVAL DATE APR 29 1966

DISTANCE 549,199

HELIOCENTRIC CONIC
RL 149.16 LAL .00 LOL 21.43 VL 27.092 GAL 5.12 AZL 88.87 HCA 253.49 SMA 126.93 ECC .19589 INC 1.1273 V1 29.872
RP 108.80 LAP -1.08 LOP 274.92 VP 37.337 GAP 7.78 AZP 90.32 TAL 158.03 TAP 51.52 RCA 102.07 APO 151.80 V2 34.830
RC 128.581 GL 7.38 GP 19.26 ZAL 45.29 ZAP 150.13 ETS 34.83 ZAE 123.72 ETE 167.07 ZAC 31.80 ETC 181.34 CLP-156.72

PLANETOCENTRIC CONIC
C3 17.093 VHL 4.134 DLA -2.22 RAL 335.63 RAD 6567.7 VEL 11.768 PTH 2.08 VHP 5.670 DPA -3.71 RAP 297.74 ECC 1.2813

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 26 34	2108.65	-16.87	34.88	194.00	113.09	9 1 43	1508.7	-13.60	27.73
90.00	19 51 38	4890.49	20.33	212.46	194.94	69.85	21 13 9	4290.5	17.40	205.01
100.00	9 46 52	1849.60	-17.84	15.39	193.55	114.39	10 17 42	1249.6	-14.40	8.29
100.00	21 14 1	4624.78	21.33	192.52	194.54	68.54	22 31 6	4024.8	18.22	185.10
110.00	10 52 45	1643.40	-20.44	358.38	192.20	118.01	11 20 8	1043.4	-16.54	351.43
110.00	22 24 38	4403.74	23.99	174.50	193.29	64.89	23 38 2	3803.7	20.41	167.19

DIFFERENTIAL CORRECTIONS
TDE 1.7005 TRA 3.3180 TC3-3.6785 BAU .8456
RDE .0047 RRA -.5978 RC3 .4044 FAU .04256
FDE 1.6827 FRA 3.1063 FC3-2.1554 BSP 19343
BDE 1.7005 BRA 3.3714 BC3 3.7006 FSP -1586

MID-COURSE EXECUTION ACCURACY
SGT 5998.4 SGR 894.0 SG3 450.4
RRT -.8982 RRF -.8910 RTF .9831
SGB 6064.7 R23 .0096 R13 -.9832
SG1 6052.1 SG2 389.4 THA 172.34

ORBIT DETERMINATION ACCURACY
ST 2732.7 SR 249.0 SS 1306.4
CRT -.4833 CRS .4619 CST -.9996
LSA 3031.1 MSA 220.2 SSA 14.8
EL1 2735.4 EL2 217.8 ALF 177.46

LAUNCH DATE OCT 15 1965 FLIGHT TIME 198.00 ARRIVAL DATE MAY 1 1966

HELIOCENTRIC CONIC DISTANCE 555.038

RL 149.16 LAL .00 LOL 21.43 VL 27.068 GAL 5.47 AZL 88.71 HCA 256.66 SMA 126.78 ECC .19989 INC 1.2920 V1 29.872
RP 108.82 LAP -1.26 LOP 278.09 VP 37.313 GAP 8.19 AZP 90.30 TAL 157.01 TAP 53.67 RCA 101.44 APO 152.12 V2 34.822
RC 130.911 GL 8.15 GP 18.24 ZAL 44.27 ZAP 151.95 ETS 35.63 ZAE 123.28 ETE 167.91 ZAC 33.24 ETC 179.20 CLP-158.31

PLANETOCENTRIC CONIC

C3 18.380 VHL 4.287 DLA -1.09 RAL 336.41 RAD 6567.7 VEL 11.822 PTH 2.09 VHP 5.879 DPA -4.49 RAP 299.38 ECC 1.3025

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 21 16	2160.67	-18.22	38.10	196.10	112.05	8 57 17	1560.7	-15.07	30.84
90.00	20 3 9	4872.24	19.90	211.30	196.59	69.43	21 24 21	4272.2	16.92	203.89
100.00	9 42 6	1899.92	-19.23	18.48	195.66	113.34	10 13 46	1299.9	-15.91	11.26
100.00	21 25 0	4608.22	20.91	191.47	196.17	68.14	22 41 48	4008.2	17.76	184.09
110.00	10 49 11	1689.93	-21.90	1.20	194.32	116.92	11 17 21	1089.9	-18.12	354.11
110.00	22 34 24	4390.97	23.62	173.69	194.89	64.54	23 47 35	3791.0	19.99	166.42

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE 1.8448 TRA 3.5135 TC3-3.4699 BAU .8569 SGT 6081.8 SGR 834.2 SG3 424.0 ST 2841.1 SR 236.1 SS 1294.7
RDE .0255 RRA -.5822 RC3 .3482 FAU .03875 RRT -.8789 RRF -.8709 RTF .9825 CRT -.3664 CRS .3488 CST -.9997
FDE 1.6728 FRA 3.0513 FC3-1.8252 BSP 19645 SGB 6138.7 R23 .0077 R13 -.9826 LSA 3123.3 MSA 221.0 SSA 14.6
BDE 1.8450 BRA 3.5614 BC3 3.4874 FSP -1499 SG1 6126.0 SG2 395.0 THA 173.10 EL1 2842.4 EL2 219.6 ALF 178.25

LAUNCH DATE OCT 15 1965 FLIGHT TIME 200.00 ARRIVAL DATE MAY 3 1966

HELIOCENTRIC CONIC DISTANCE 560.841

RL 149.16 LAL .00 LOL 21.43 VL 27.044 GAL 5.84 AZL 88.55 HCA 259.82 SMA 126.62 ECC .20420 INC 1.4521 V1 29.872
RP 108.85 LAP -1.43 LOP 281.25 VP 37.289 GAP 8.61 AZP 90.26 TAL 155.97 TAP 55.79 RCA 100.77 APO 152.48 V2 34.816
RC 133.236 GL 8.81 GP 17.31 ZAL 43.26 ZAP 153.65 ETS 36.54 ZAE 122.87 ETE 168.64 ZAC 34.79 ETC 177.38 CLP-159.83

PLANETOCENTRIC CONIC

C3 19.813 VHL 4.451 DLA -.06 RAL 337.21 RAD 6567.8 VEL 11.883 PTH 2.11 VHP 6.101 DPA -5.15 RAP 301.08 ECC 1.3261

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 16 49	2210.41	-19.47	41.22	198.32	110.98	8 53 39	1610.4	-16.44	33.85
90.00	20 14 0	4857.93	19.55	210.39	198.34	69.10	21 34 58	4257.9	16.54	203.01
100.00	9 38 7	1948.11	-20.50	21.49	197.88	112.25	10 10 36	1348.1	-17.30	14.16
100.00	21 35 23	4595.46	20.58	190.66	197.91	67.83	22 51 58	3995.5	17.40	183.31
110.00	10 46 19	1734.68	-23.26	3.97	196.56	115.79	11 15 13	1134.7	-19.60	356.74
110.00	22 43 41	4381.65	23.34	173.11	196.59	64.29	23 56 43	3781.7	19.69	165.87

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE 1.9958 TRA 3.7233 TC3-3.2505 BAU .8646 SGT 6159.7 SGR 781.5 SG3 399.5 ST 2945.2 SR 227.7 SS 1283.7
RDE .0458 RRA -.5691 RC3 .2986 FAU .03496 RRT -.8576 RRF -.8488 RTF .9818 CRT -.2463 CRS .2325 CST -.9998
FDE 1.6635 FRA 3.0031 FC3-1.5274 BSP 19839 SGB 6209.1 R23 .0062 R13 -.9819 LSA 3213.2 MSA 221.4 SSA 14.5
BDE 1.9963 BRA 3.7666 BC3 3.2642 FSP -1408 SG1 6196.3 SG2 399.6 THA 173.76 EL1 2945.7 EL2 220.6 ALF 178.90

LAUNCH DATE OCT 15 1965 FLIGHT TIME 202.00 ARRIVAL DATE MAY 5 1966

HELIOCENTRIC CONIC DISTANCE 566.604

RL 149.16 LAL .00 LOL 21.43 VL 27.019 GAL 6.23 AZL 88.39 HCA 262.98 SMA 126.46 ECC .20884 INC 1.6092 V1 29.872
RP 108.87 LAP -1.60 LOP 284.41 VP 37.265 GAP 9.05 AZP 90.20 TAL 154.92 TAP 57.90 RCA 100.05 APO 152.87 V2 34.809
RC 135.553 GL 9.38 GP 16.48 ZAL 42.26 ZAP 155.27 ETS 37.56 ZAE 122.48 ETE 169.28 ZAC 36.43 ETC 175.84 CLP-161.29

PLANETOCENTRIC CONIC

C3 21.409 VHL 4.627 DLA .89 RAL 338.03 RAD 6567.9 VEL 11.949 PTH 2.13 VHP 6.336 DPA -5.68 RAP 302.84 ECC 1.3523

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 13 5	2258.19	-20.60	44.26	200.63	109.87	8 50 43	1658.2	-17.71	36.78
90.00	20 24 16	4847.23	19.29	209.72	200.19	68.86	21 45 3	4247.2	16.25	202.36
100.00	9 34 50	1994.48	-21.66	24.44	200.20	111.11	10 8 5	1394.5	-18.60	16.99
100.00	21 45 11	4586.17	20.34	190.08	199.74	67.61	23 1 37	3986.2	17.13	182.75
110.00	10 44 2	1777.90	-24.51	6.70	198.90	114.61	11 13 40	1177.9	-20.98	359.33
110.00	22 52 30	4375.51	23.16	172.72	198.39	64.13	24 5 25	3775.5	19.49	165.51

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE 2.1459 TRA 3.9399 TC3-3.0383 BAU .8727 SGT 6226.9 SGR 734.3 SG3 376.0 ST 3034.9 SR 223.0 SS 1268.5
RDE .0669 RRA -.5569 RC3 .2569 FAU .03156 RRT -.8341 RRF -.8245 RTF .9813 CRT -.1231 CRS .1127 CST -.9999
FDE 1.6480 FRA 2.9540 FC3-1.2763 BSP 20107 SGB 6270.0 R23 .0047 R13 -.9813 LSA 3289.4 MSA 221.7 SSA 14.3
BDE 2.1469 BRA 3.9791 BC3 3.0491 FSP -1329 SG1 6257.0 SG2 403.0 THA 174.36 EL1 3035.0 EL2 221.3 ALF 179.48

LAUNCH DATE OCT 15 1965 FLIGHT TIME 204.00 ARRIVAL DATE MAY 7 1966

HELIOCENTRIC CONIC DISTANCE 572.324

RL 149.16 LAL .00 LOL 21.43 VL 26.995 GAL 6.65 AZL 88.24 HCA 266.14 SMA 126.30 ECC .21386 INC 1.7639 V1 29.872
RP 108.88 LAP -1.76 LOP 287.57 VP 37.242 GAP 9.50 AZP 90.12 TAL 153.86 TAP 60.00 RCA 99.29 APO 153.31 V2 34.804
RC 137.863 GL 9.87 GP 15.73 ZAL 41.28 ZAP 156.79 ETS 38.73 ZAE 122.11 ETE 169.85 ZAC 38.15 ETC 174.55 CLP-162.70

PLANETOCENTRIC CONIC

C3 23.188 VHL 4.815 DLA 1.75 RAL 338.86 RAD 6567.9 VEL 12.024 PTH 2.15 VHP 6.584 DPA -6.11 RAP 304.65 ECC 1.3816

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 10 0	2304.25	-21.64	47.24	203.03	108.72	8 48 25	1704.3	-18.88	39.65
90.00	20 33 58	4839.85	19.11	209.25	202.13	68.70	21 54 38	4239.9	16.05	201.91
100.00	9 32 10	2039.25	-22.73	27.34	202.61	109.95	10 6 9	1439.3	-19.81	19.76
100.00	21 54 30	4580.09	20.19	189.69	201.67	67.47	23 10 50	3980.1	16.96	182.38
110.00	10 42 16	1819.80	-25.67	9.40	201.33	113.39	11 12 36	1219.8	-22.28	1.88
110.00	23 0 52	4372.30	23.07	172.52	200.27	64.04	24 13 45	3772.3	19.39	165.32

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE 2.3000 TRA 4.1685 TC3-2.8262 BAU .8788 SGT 6286.6 SGR 691.8 SG3 354.1 ST 3116.4 SR 221.5 SS 1252.6
RDE .0881 RRA -.5460 RC3 .2207 FAU .02835 RRT -.8086 RRF -.7983 RTF .9807 CRT -.0054 CRS -.0018 CST -.9999
FDE 1.6314 FRA 2.9088 FC3-1.0584 BSP 20353 SGB 6324.5 R23 .0034 R13 -.9808 LSA 3358.7 MSA 221.6 SSA 14.1
BDE 2.3017 BRA 4.2041 BC3 2.8348 FSP -1255 SG1 6311.5 SG2 405.4 THA 174.89 EL1 3116.4 EL2 221.5 ALF 179.98

LAUNCH DATE OCT 15 1965 FLIGHT TIME 206.00 ARRIVAL DATE MAY 9 1966

DISTANCE 577.997

HELIOCENTRIC CONIC

RL	149.16	LAL	.00	LOL	21.43	VL	26.970	GAL	7.10	AZL	88.08	HCA	269.31	SMA	126.14	ECC	.21927	INC	1.9176	V1	29.872
RP	108.90	LAP	-1.92	LOP	290.74	VP	37.219	GAP	9.97	AZP	90.02	TAL	152.79	TAP	62.09	RCA	98.48	APO	153.80	V2	34.799
RC	140.164	GL	10.28	GP	15.04	ZAL	40.32	ZAP	158.22	ETS	40.05	ZAE	121.77	ETE	170.35	ZAC	39.93	ETC	173.46	CLP	-164.06

PLANETOCENTRIC CONIC

C3	25.174	VHL	5.017	DLA	2.54	RAL	339.70	RAD	6568.0	VEL	12.106	PTH	2.17	VHP	6.848	DPA	-6.43	RAP	306.50	ECC	1.4143

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 7 30	2348.84	-22.58	50.17	205.51	107.55	8 46 39	1748.8	-19.97	42.47
90.00	20 43 9	4835.56	19.00	208.98	204.14	68.60	22 3 45	4235.6	15.93	201.65
100.00	9 30 1	2082.65	-23.71	30.19	205.11	108.75	10 4 44	1482.7	-20.93	22.50
100.00	22 3 19	4576.98	20.10	189.49	203.67	67.40	23 19 36	3977.0	16.87	182.20
110.00	10 40 59	1860.56	-26.74	12.08	203.86	112.13	11 11 59	1260.6	-23.50	4.42
110.00	23 8 51	4371.84	23.05	172.49	202.24	64.03	24 21 43	3771.8	19.37	165.29

DIFFERENTIAL CORRECTIONS

TOE	2.4586	TRA	4.4101	TC3	-2.6165	BAU	.8829
ROE	.1096	RRA	-.5358	RC3	.1892	FAU	.02531
FOE	1.6145	FRA	2.8676	FC3	-.8704	BSP	20574
BOE	2.4610	BRA	4.4425	BC3	2.6234	FSP	-1184

MID-COURSE EXECUTION ACCURACY

SGT	6339.4	SGR	653.3	SG3	333.6		
RRT	-.7810	RRF	-.7702	RTF	.9803		
SGB	6373.0	R23	.0023	R13	-.9803		
SG1	6360.0	SG2	406.7	THA	175.38		

ORBIT DETERMINATION ACCURACY

ST	3189.9	SR	222.4	SS	1236.5		
CRT	.1029	CRS	-.1073	CST	-.9999		
LSA	3421.2	MSA	221.2	SSA	13.9		
EL1	3190.0	EL2	221.2	ALF	.41		

LAUNCH DATE OCT 15 1965 FLIGHT TIME 208.00 ARRIVAL DATE MAY 11 1966

DISTANCE 583.619

HELIOCENTRIC CONIC

RL	149.16	LAL	.00	LOL	21.43	VL	26.944	GAL	7.58	AZL	87.93	HCA	272.47	SMA	125.98	ECC	.22512	INC	2.0710	V1	29.872
RP	108.91	LAP	-2.07	LOP	293.90	VP	37.197	GAP	10.46	AZP	89.91	TAL	151.71	TAP	64.18	RCA	97.62	APO	154.34	V2	34.795
RC	142.456	GL	10.63	GP	14.42	ZAL	39.37	ZAP	159.58	ETS	41.55	ZAE	121.44	ETE	170.80	ZAC	41.76	ETC	172.54	CLP	-165.39

PLANETOCENTRIC CONIC

C3	27.394	VHL	5.234	DLA	3.26	RAL	340.54	RAD	6568.1	VEL	12.197	PTH	2.19	VHP	7.128	DPA	-6.67	RAP	308.38	ECC	1.4508

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 5 29	2392.11	-23.44	53.05	208.07	106.35	8 45 22	1792.1	-20.98	45.25
90.00	20 51 52	4834.15	18.97	208.89	206.23	68.57	22 12 26	4234.2	15.89	201.57
100.00	9 28 21	2124.84	-24.61	33.01	207.68	107.53	10 3 46	1524.8	-21.98	25.20
100.00	22 11 41	4576.66	20.10	189.47	205.75	67.39	23 27 58	3976.7	16.86	182.18
110.00	10 40 5	1900.33	-27.74	14.75	206.47	110.83	11 11 45	1300.3	-24.65	6.94
110.00	23 16 27	4373.94	23.12	172.62	204.29	64.09	24 29 21	3773.9	19.44	165.41

DIFFERENTIAL CORRECTIONS

TOE	2.6260	TRA	4.6697	TC3	-2.4041	BAU	.8824
ROE	.1309	RRA	-.5266	RC3	.1609	FAU	.02229
FOE	1.6005	FRA	2.8334	FC3	-.7043	BSP	20677
BOE	2.6293	BRA	4.6993	BC3	2.4095	FSP	-1111

MID-COURSE EXECUTION ACCURACY

SGT	6388.5	SGR	618.3	SG3	314.7		
RRT	-.7515	RRF	-.7402	RTF	.9799		
SGB	6418.4	R23	.0014	R13	-.9799		
SG1	6405.4	SG2	406.8	THA	175.82		

ORBIT DETERMINATION ACCURACY

ST	3260.3	SR	224.9	SS	1222.4		
CRT	.1985	CRS	-.2006	CST	-.9999		
LSA	3482.1	MSA	220.4	SSA	13.7		
EL1	3260.6	EL2	220.4	ALF	.79		

LAUNCH DATE OCT 15 1965 FLIGHT TIME 210.00 ARRIVAL DATE MAY 13 1966

DISTANCE 589.181

HELIOCENTRIC CONIC

RL	149.16	LAL	.00	LOL	21.43	VL	26.919	GAL	8.09	AZL	87.77	HCA	275.62	SMA	125.81	ECC	.23146	INC	2.2251	V1	29.872
RP	108.92	LAP	-2.21	LOP	297.06	VP	37.176	GAP	10.97	AZP	89.78	TAL	150.63	TAP	66.26	RCA	96.69	APO	154.93	V2	34.791
RC	144.737	GL	10.91	GP	13.85	ZAL	38.45	ZAP	160.87	ETS	43.27	ZAE	121.13	ETE	171.20	ZAC	43.63	ETC	171.76	CLP	-166.67

PLANETOCENTRIC CONIC

C3	29.881	VHL	5.466	DLA	3.91	RAL	341.38	RAD	6568.2	VEL	12.299	PTH	2.22	VHP	7.426	DPA	-6.81	RAP	310.30	ECC	1.4918

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 3 56	2434.22	-24.22	55.89	210.70	105.13	8 44 30	1834.2	-21.91	47.98
90.00	21 0 6	4835.46	19.00	208.97	208.39	68.60	22 20 42	4235.5	15.93	201.65
100.00	9 27 6	2165.95	-25.42	35.79	210.33	106.28	10 3 12	1566.0	-22.95	27.87
100.00	22 19 37	4578.96	20.16	189.62	207.89	67.45	23 35 56	3979.0	16.93	182.31
110.00	10 39 33	1939.22	-28.65	17.41	209.16	109.50	11 11 52	1339.2	-25.72	9.45
110.00	23 23 40	4378.46	23.25	172.91	206.40	64.21	24 36 38	3778.5	19.59	165.68

DIFFERENTIAL CORRECTIONS

TOE	2.7941	TRA	4.9396	TC3	-2.2040	BAU	.8822
ROE	.1531	RRA	-.5170	RC3	.1369	FAU	.01962
FOE	1.5833	FRA	2.7998	FC3	-.5684	BSP	20881
BOE	2.7983	BRA	4.9665	BC3	2.2083	FSP	-1050

MID-COURSE EXECUTION ACCURACY

SGT	6427.6	SGR	585.8	SG3	296.7		
RRT	-.7196	RRF	-.7081	RTF	.9796		
SGB	6454.2	R23	.0005	R13	-.9796		
SG1	6441.5	SG2	405.9	THA	176.23		

ORBIT DETERMINATION ACCURACY

ST	3317.5	SR	228.7	SS	1206.0		
CRT	.2846	CRS	-.2847	CST	-.9999		
LSA	3530.5	MSA	219.2	SSA	13.5		
EL1	3318.2	EL2	219.2	ALF	1.13		

LAUNCH DATE OCT 15 1965 FLIGHT TIME 212.00 ARRIVAL DATE MAY 15 1966

DISTANCE 594.678

HELIOCENTRIC CONIC

RL	149.16	LAL	.00	LOL	21.43	VL	26.893	GAL	8.64	AZL	87.62	HCA	278.78	SMA	125.65	ECC	.23832	INC	2.3808	V1	29.872
RP	108.93	LAP	-2.35	LOP	300.22	VP	37.154	GAP	11.51	AZP	89.64	TAL	149.56	TAP	68.34	RCA	95.70	APO	155.59	V2	34.788
RC	147.008	GL	11.14	GP	13.33	ZAL	37.54	ZAP	162.09	ETS	45.23	ZAE	120.83	ETE	171.56	ZAC	45.52	ETC	171.11	CLP	-167.93

PLANETOCENTRIC CONIC

C3	32.675	VHL	5.716	DLA	4.50	RAL	342.21	RAD	6568.3	VEL	12.412	PTH	2.24	VHP	7.743	DPA	-6.88	RAP	312.23	ECC	1.5377

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 2 47	2475.29	-24.92	58.70	213.38	103.90	8 44 2	1875.3	-22.77	50.69
90.00	21 7 54	4839.32	19.10	209.22	210.60	68.69	22 28 33	4239.3	16.03	201.88
100.00	9 26 15	2206.10	-26.16	38.55	213.03	105.01	10 3 1	1606.1	-23.84	30.51
100.00	22 27 7	4583.74	20.28	189.92	210.09	67.56	23 43 31	3983.7	17.06	182.60
110.00	10 39 20	1977.33	-29.49	20.06	211.91	108.13	11 12 18	1377.3	-26.73	11.96
110.00	23 30 31	4385.27	23.45	173.33	208.57	64.39	24 43 36	3785.3	19.81	166.09

DIFFERENTIAL CORRECTIONS

TOE	2.9689	TRA	5.2265	TC3	-2.0084	BAU	.8788
ROE	.1757	RRA	-.5073	RC3	.1157	FAU	.01706
FOE	1.5674	FRA	2.7710	FC3	-.4521	BSP	21054
BOE	2.9741	BRA	5.2510	BC3	2.0117	FSP	-991

MID-COURSE EXECUTION ACCURACY

SGT	6460.8	SGR	555.5	SG3	279.9		
RRT	-.6854	RRF	-.6738	RTF	.9794		
SGB	6484.6	R23	-.0002	R13	-.9794		
SG1	6472.1	SG2	403.8	THA	176.61		

ORBIT DETERMINATION ACCURACY

ST	3368.4	SR	233.3	SS	1190.6		
CRT	.3594	CRS	-.3581	CST	-.9999		
LSA	3573.6	MSA	217.7	SSA	13.2		
EL1	3369.4	EL2	217.6	ALF	1.43		

LAUNCH DATE OCT 15 1965 FLIGHT TIME 214.00 ARRIVAL DATE MAY 17 1966

HELIOCENTRIC CONIC DISTANCE 600.099

RL	149.16	LAL	.00	LOL	21.43	VL	26.868	GAL	9.23	AZL	87.46	HCA	281.94	SMA	125.49	ECC	.24578	INC	2.5392	V1	29.872
RP	108.94	LAP	-2.48	LOP	303.38	VP	37.134	GAP	12.08	AZP	89.47	TAL	148.49	TAP	70.43	RCA	94.64	APO	156.33	V2	34.786
RC	149.266	GL	11.32	GP	12.86	ZAL	36.66	ZAP	163.24	ETS	47.48	ZAE	120.54	ETE	171.89	ZAC	47.45	ETC	170.55	CLP	-169.16

PLANETOCENTRIC CONIC

C3	35.822	VHL	5.985	DLA	5.04	RAL	343.03	RAD	6568.4	VEL	12.538	PTH	2.27	VHP	8.081	DPA	-6.88	RAP	314.18	ECC	1.5895

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 2 0	2515.41	-25.55	61.47	216.13	102.64	8 43 55	1915.4	-23.55	53.37
90.00	21 15 15	4845.60	19.25	209.61	212.86	68.82	22 36 1	4245.6	16.20	202.26
100.00	9 25 43	2245.38	-26.82	41.28	215.79	103.72	10 3 8	1645.4	-24.67	33.14
100.00	22 34 13	4590.86	20.47	190.37	212.35	67.72	23 50 44	3990.9	17.27	183.03
110.00	10 39 24	2014.75	-30.25	22.71	214.73	106.74	11 12 59	1414.8	-27.66	14.47
110.00	23 37 1	4394.26	23.71	173.90	210.80	64.63	24 50 15	3794.3	20.10	166.62

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	3.1505	TRA	5.5307	TC3	-1.8191	BAU	.8724	SGT	6487.5	SGR	527.2	SG3	264.3	ST	3412.1	SR	238.2	SS	1175.9
RDE	.1988	RRA	-.4970	RC3	.0971	FAU	.01465	RRT	-.6486	RRF	-.6371	RTF	.9794	CRT	.4246	CRS	-.4220	CST	-.9999
FDE	1.5526	FRA	2.7463	FC3	-.3541	BSP	21220	SGB	6508.9	R23	-.0008	R13	-.9794	LSA	3610.5	MSA	215.7	SSA	13.0
BDE	3.1567	BRA	5.5530	BC3	1.8217	FSP	-936	SG1	6496.6	SG2	400.7	THA	176.97	EL1	3413.7	EL2	215.6	ALF	1.70

LAUNCH DATE OCT 15 1965 FLIGHT TIME 216.00 ARRIVAL DATE MAY 19 1966

HELIOCENTRIC CONIC DISTANCE 605.436

RL	149.16	LAL	.00	LOL	21.43	VL	26.842	GAL	9.86	AZL	87.30	HCA	285.10	SMA	125.32	ECC	.25389	INC	2.7013	V1	29.872
RP	108.94	LAP	-2.61	LOP	306.55	VP	37.114	GAP	12.68	AZP	89.30	TAL	147.43	TAP	72.53	RCA	93.50	APO	157.14	V2	34.785
RC	151.511	GL	11.46	GP	12.43	ZAL	35.80	ZAP	164.32	ETS	50.06	ZAE	120.25	ETE	172.19	ZAC	49.39	ETC	170.08	CLP	-170.38

PLANETOCENTRIC CONIC

C3	39.378	VHL	6.275	DLA	5.53	RAL	343.84	RAD	6568.5	VEL	12.679	PTH	2.30	VHP	8.444	DPA	-6.81	RAP	316.14	ECC	1.6481

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 1 32	2554.65	-26.11	64.21	218.91	101.38	8 44 7	1954.6	-24.27	56.02
90.00	21 22 11	4854.20	19.46	210.16	215.18	69.02	22 43 5	4254.2	16.44	202.79
100.00	9 25 29	2283.85	-27.41	43.98	218.60	102.41	10 3 33	1683.9	-25.43	35.74
100.00	22 40 54	4600.22	20.71	190.96	214.66	67.95	23 57 35	4000.2	17.53	183.60
110.00	10 39 43	2051.53	-30.94	25.35	217.61	105.31	11 13 55	1451.5	-28.53	16.98
110.00	23 43 10	4405.31	24.04	174.60	213.09	64.93	24 56 35	3805.3	20.46	167.28

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	3.3409	TRA	5.8556	TC3	-1.6357	BAU	.8622	SGT	6509.4	SGR	500.3	SG3	249.7	ST	3450.5	SR	243.2	SS	1162.7
RDE	.2224	RRA	-.4861	RC3	.0808	FAU	.01235	RRT	-.6091	RRF	-.5978	RTF	.9795	CRT	.4812	CRS	-.4777	CST	-.9999
FDE	1.5399	FRA	2.7267	FC3	-.2714	BSP	21346	SGB	6528.6	R23	-.0013	R13	-.9795	LSA	3643.0	MSA	213.2	SSA	12.7
BDE	3.3483	BRA	5.8758	BC3	1.6377	FSP	-884	SG1	6516.6	SG2	396.4	THA	177.31	EL1	3452.5	EL2	213.1	ALF	1.95

LAUNCH DATE OCT 15 1965 FLIGHT TIME 218.00 ARRIVAL DATE MAY 21 1966

HELIOCENTRIC CONIC DISTANCE 610.673

RL	149.16	LAL	.00	LOL	21.43	VL	26.817	GAL	10.54	AZL	87.13	HCA	288.26	SMA	125.16	ECC	.26274	INC	2.8684	V1	29.872
RP	108.94	LAP	-2.72	LOP	309.71	VP	37.095	GAP	13.33	AZP	89.10	TAL	146.39	TAP	74.65	RCA	92.28	APO	158.04	V2	34.784
RC	153.743	GL	11.55	GP	12.04	ZAL	34.96	ZAP	165.34	ETS	53.02	ZAE	119.97	ETE	172.46	ZAC	51.34	ETC	169.68	CLP	-171.58

PLANETOCENTRIC CONIC

C3	43.410	VHL	6.589	DLA	5.97	RAL	344.64	RAD	6568.6	VEL	12.836	PTH	2.34	VHP	8.833	DPA	-6.68	RAP	318.11	ECC	1.7144

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 1 22	2593.04	-26.59	66.91	221.74	100.11	8 44 35	1993.0	-24.93	58.64
90.00	21 28 40	4865.00	19.72	210.84	217.54	69.26	22 49 45	4265.0	16.73	203.45
100.00	9 25 32	2321.55	-27.94	46.66	221.45	101.09	10 4 14	1721.6	-26.12	38.33
100.00	22 47 11	4611.72	21.00	191.69	217.01	68.22	24 4 3	4011.7	17.86	184.30
110.00	10 40 16	2087.70	-31.56	27.98	220.53	103.87	11 15 3	1487.7	-29.33	19.49
110.00	23 48 57	4418.34	24.41	175.42	215.42	65.29	25 2 36	3818.3	20.87	168.06

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	3.5436	TRA	6.2055	TC3	-1.4562	BAU	.8460	SGT	6528.2	SGR	474.8	SG3	236.2	ST	3485.5	SR	247.9	SS	1152.0
RDE	.2467	RRA	-.4741	RC3	.0663	FAU	.01006	RRT	-.5664	RRF	-.5556	RTF	.9798	CRT	.5304	CRS	-.5263	CST	-.9999
FDE	1.5308	FRA	2.7137	FC3	-.2005	BSP	21374	SGB	6545.5	R23	-.0017	R13	-.9798	LSA	3673.3	MSA	210.2	SSA	12.4
BDE	3.5522	BRA	6.2236	BC3	1.4577	FSP	-831	SG1	6533.8	SG2	391.0	THA	177.63	EL1	3488.0	EL2	210.0	ALF	2.17

LAUNCH DATE OCT 15 1965 FLIGHT TIME 220.00 ARRIVAL DATE MAY 23 1966

HELIOCENTRIC CONIC DISTANCE 615.796

RL	149.16	LAL	.00	LOL	21.43	VL	26.791	GAL	11.28	AZL	86.96	HCA	291.41	SMA	125.00	ECC	.27240	INC	3.0416	V1	29.872
RP	108.94	LAP	-2.83	LOP	312.87	VP	37.077	GAP	14.02	AZP	88.89	TAL	145.38	TAP	76.79	RCA	90.95	APO	159.05	V2	34.784
RC	155.962	GL	11.61	GP	11.68	ZAL	34.16	ZAP	166.29	ETS	56.43	ZAE	119.68	ETE	172.72	ZAC	53.30	ETC	169.34	CLP	-172.77

PLANETOCENTRIC CONIC

C3	48.000	VHL	6.928	DLA	6.36	RAL	345.41	RAD	6568.8	VEL	13.014	PTH	2.37	VHP	9.252	DPA	-6.49	RAP	320.07	ECC	1.7900

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 1 28	2630.61	-27.01	69.58	224.59	98.83	8 45 18	2030.6	-25.51	61.23
90.00	21 34 44	4877.90	20.03	211.66	219.93	69.56	22 56 2	4277.9	17.07	204.24
100.00	9 25 50	2358.49	-28.39	49.31	224.33	99.77	10 5 8	1758.5	-26.75	40.90
100.00	22 53 3	4625.25	21.34	192.55	219.40	68.55	24 10 9	4025.3	18.24	185.13
110.00	10 41 0	2123.26	-32.11	30.61	223.49	102.40	11 16 23	1523.3	-30.07	21.99
110.00	23 54 23	4433.24	24.83	176.38	217.80	65.71	25 8 16	3833.2	21.34	168.97

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	3.7522	TRA	6.5749	TC3	-1.2885	BAU	.8275	SGT	6538.3	SGR	450.5	SG3	223.4	ST	3510.8	SR	252.6	SS	1141.3
RDE	.2720	RRA	-.4603	RC3	.0540	FAU	.00798	RRT	-.5199	RRF	-.5097	RTF	.9802	CRT	.5743	CRS	-.5697	CST	-.9999
FDE	1.5214	FRA	2.7035	FC3	-.1439	BSP	21493	SGB	6553.8	R23	-.0019	R13	-.9802	LSA	3694.5	MSA	206.8	SSA	12.1
BDE	3.7621	BRA	6.5910	BC3	1.2896	FSP	-786	SG1	6542.5	SG2	384.6	THA	177.94	EL1	3513.8	EL2	206.6	ALF	2.37

LAUNCH DATE OCT 16 1965 FLIGHT TIME 70.00 ARRIVAL DATE DEC 25 1965

DISTANCE 143.818

HELIOCENTRIC CONIC

RL	149.12	LAL	.00	LOL	22.42	VL	19.351	GAL	12.65	AZL	90.21	HCA	51.16	SMA	94.42	ECC	.60612	INC	.2120	V1	29.881
RP	107.81	LAP	-.17	LOP	73.58	VP	32.502	GAP	-36.54	AZP	90.13	TAL	171.47	TAP	222.63	RCA	37.19	APO	151.66	V2	35.149
RC	57.879	GL	-.34	GP	-4.33	ZAL	66.73	ZAP	25.72	ETS	167.80	ZAE	147.06	ETE	188.17	ZAC	22.92	ETC	122.55	CLP	25.38

PLANETOCENTRIC CONIC

C3 143.250 VHL 11.969 DLA -16.46 RAL 318.25 RAD 6570.6 VEL 16.266 PTH 2.85 VHP 21.254 DPA -28.77 RAP 279.86 ECC 3.3575

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 9 26	2137.96	-17.64	36.69	207.66	112.52	9 45 4	1538.0	-14.43	29.48
90.00	16 42 15	5859.29	25.88	280.77	220.80	101.91	18 19 54	5259.3	27.26	272.37
100.00	10 21 31	1905.39	-19.37	18.82	206.89	113.22	10 53 16	1305.4	-16.07	11.59
100.00	18 12 51	5567.09	27.73	259.70	221.23	101.65	19 45 38	4967.1	29.05	251.15
110.00	11 9 15	1755.84	-23.88	5.30	204.71	115.22	11 38 31	1155.8	-20.28	358.00
110.00	19 41 36	5289.41	32.57	239.74	222.35	101.01	21 9 46	4689.4	33.74	230.70

DIFFERENTIAL CORRECTIONS

TDE	-.4797	TRA	-1.4792	TC3	-.1171	BAU	.2259
RDE	-.8453	RRA	.3823	RC3	-.0138	FAU	.01361
FDE	.2541	FRA	.6324	FC3	-.0823	BSP	2198
BDE	.9719	BRA	1.5278	BC3	.1180	FSP	-71

MID-COURSE EXECUTION ACCURACY

SGT	822.5	SGR	448.6	SG3	33.8		
RRT	-.1049	RRF	.0999	RTF	-.6391		
SGB	936.9	R23	-.0051	R13	.6399		
SG1	824.4	SG2	445.1	THA	175.37		

ORBIT DETERMINATION ACCURACY

ST	319.2	SR	408.7	SS	283.3		
CRT	.6152	CRS	.6946	CST	.9923		
LSA	536.6	MSA	247.0	SSA	13.8		
EL1	470.2	EL2	218.7	ALF	56.05		

LAUNCH DATE OCT 16 1965 FLIGHT TIME 72.00 ARRIVAL DATE DEC 27 1965

DISTANCE 149.961

HELIOCENTRIC CONIC

RL	149.12	LAL	.00	LOL	22.42	VL	19.962	GAL	12.12	AZL	89.97	HCA	54.38	SMA	96.07	ECC	.57931	INC	.0297	V1	29.881
RP	107.78	LAP	.03	LOP	76.80	VP	32.882	GAP	-34.79	AZP	89.98	TAL	170.87	TAP	225.26	RCA	40.41	APO	151.72	V2	35.160
RC	56.028	GL	.05	GP	-4.48	ZAL	65.69	ZAP	24.23	ETS	166.86	ZAE	147.84	ETE	189.50	ZAC	24.05	ETC	125.59	CLP	23.83

PLANETOCENTRIC CONIC

C3 129.211 VHL 11.367 DLA -15.77 RAL 319.17 RAD 6570.4 VEL 15.829 PTH 2.80 VHP 20.362 DPA -28.89 RAP 281.79 ECC 3.1265

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 6 36	2143.60	-17.79	37.04	207.32	112.40	9 42 19	1543.6	-14.59	29.81
90.00	16 52 25	5814.70	26.47	277.63	220.03	100.45	18 29 20	5214.7	27.64	269.16
100.00	10 19 13	1909.26	-19.48	19.06	206.57	113.13	10 51 3	1309.3	-16.18	11.82
100.00	18 22 29	5524.27	28.28	256.64	220.40	100.12	19 54 33	4924.3	29.38	248.01
110.00	11 8 6	1756.15	-23.89	5.32	204.44	115.21	11 37 22	1156.1	-20.29	358.02
110.00	19 50 5	5250.15	33.04	236.77	221.35	99.32	21 17 35	4650.2	33.97	227.66

DIFFERENTIAL CORRECTIONS

TDE	-.4836	TRA	-1.4834	TC3	-.1225	BAU	.2137
RDE	-.8053	RRA	.3782	RC3	-.0170	FAU	.01387
FDE	.2705	FRA	.6568	FC3	-.0929	BSP	2361
BDE	.9393	BRA	1.5309	BC3	.1237	FSP	-79

MID-COURSE EXECUTION ACCURACY

SGT	860.6	SGR	453.3	SG3	36.8		
RRT	-.1133	RRF	.1084	RTF	-.6591		
SGB	972.7	R23	-.0058	R13	.6599		
SG1	862.7	SG2	449.3	THA	175.31		

ORBIT DETERMINATION ACCURACY

ST	337.4	SR	410.2	SS	301.0		
CRT	.6149	CRS	.7010	CST	.9915		
LSA	555.4	MSA	253.2	SSA	14.0		
EL1	480.0	EL2	227.4	ALF	53.88		

LAUNCH DATE OCT 16 1965 FLIGHT TIME 74.00 ARRIVAL DATE DEC 29 1965

DISTANCE 156.182

HELIOCENTRIC CONIC

RL	149.12	LAL	.00	LOL	22.42	VL	20.532	GAL	11.59	AZL	89.74	HCA	57.61	SMA	97.70	ECC	.55335	INC	.2563	V1	29.881
RP	107.75	LAP	.22	LOP	80.03	VP	33.242	GAP	-33.13	AZP	89.86	TAL	170.30	TAP	227.91	RCA	43.64	APO	151.76	V2	35.171
RC	54.237	GL	.48	GP	-4.64	ZAL	64.71	ZAP	22.76	ETS	165.77	ZAE	148.74	ETE	191.02	ZAC	25.27	ETC	128.37	CLP	22.31

PLANETOCENTRIC CONIC

C3 116.621 VHL 10.799 DLA -15.07 RAL 320.01 RAD 6570.2 VEL 15.426 PTH 2.76 VHP 19.504 DPA -28.99 RAP 283.73 ECC 2.9193

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 3 26	2148.65	-17.92	37.35	206.86	112.30	9 39 15	1548.6	-14.74	30.12
90.00	17 2 16	5769.15	26.99	274.40	219.08	98.91	18 38 25	5169.2	27.95	265.86
100.00	10 16 36	1912.59	-19.57	19.27	206.13	113.06	10 48 28	1312.6	-16.28	12.02
100.00	18 31 47	5480.44	28.76	253.47	219.38	98.52	20 3 8	4880.4	29.64	244.78
110.00	11 6 36	1755.97	-23.88	5.31	204.05	115.22	11 35 52	1156.0	-20.28	358.01
110.00	19 58 17	5209.83	33.44	233.69	220.16	97.54	21 25 7	4609.8	34.12	224.52

DIFFERENTIAL CORRECTIONS

TDE	-.4895	TRA	-1.4900	TC3	-.1282	BAU	.2024
RDE	-.7658	RRA	.3734	RC3	-.0207	FAU	.01413
FDE	.2879	FRA	.6820	FC3	-.1049	BSP	2469
BDE	.9089	BRA	1.5361	BC3	.1298	FSP	-87

MID-COURSE EXECUTION ACCURACY

SGT	902.4	SGR	457.3	SG3	40.1		
RRT	-.1213	RRF	.1175	RTF	-.6779		
SGB	1011.7	R23	-.0076	R13	.6788		
SG1	904.7	SG2	452.8	THA	175.30		

ORBIT DETERMINATION ACCURACY

ST	357.6	SR	410.9	SS	319.8		
CRT	.6154	CRS	.7070	CST	.9907		
LSA	576.1	MSA	258.7	SSA	14.2		
EL1	491.0	EL2	235.9	ALF	51.39		

LAUNCH DATE OCT 16 1965 FLIGHT TIME 76.00 ARRIVAL DATE DEC 31 1965

DISTANCE 162.476

HELIOCENTRIC CONIC

RL	149.12	LAL	.00	LOL	22.42	VL	21.063	GAL	11.06	AZL	89.53	HCA	60.83	SMA	99.31	ECC	.52828	INC	.4662	V1	29.881
RP	107.72	LAP	.41	LOP	83.26	VP	33.583	GAP	-31.56	AZP	89.77	TAL	169.76	TAP	230.60	RCA	46.85	APO	151.78	V2	35.181
RC	52.511	GL	.94	GP	-4.82	ZAL	63.79	ZAP	21.32	ETS	164.50	ZAE	149.75	ETE	192.78	ZAC	26.56	ETC	130.90	CLP	20.79

PLANETOCENTRIC CONIC

C3 105.318 VHL 10.262 DLA -14.35 RAL 320.77 RAD 6570.0 VEL 15.055 PTH 2.71 VHP 18.677 DPA -29.08 RAP 285.70 ECC 2.7333

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 59 55	2153.20	-18.03	37.63	206.28	112.21	9 35 48	1553.2	-14.86	30.39
90.00	17 11 48	5722.64	27.44	271.07	217.94	97.29	18 47 11	5122.6	28.16	262.48
100.00	10 13 36	1915.46	-19.64	19.45	205.58	113.00	10 45 32	1315.5	-16.36	12.19
100.00	18 40 48	5435.61	29.17	250.20	218.19	96.85	20 11 24	4835.6	29.81	241.46
110.00	11 4 42	1755.40	-23.86	5.27	203.54	115.23	11 33 58	1155.4	-20.27	357.98
110.00	20 6 12	5168.43	33.77	230.50	218.78	95.68	21 32 20	4568.4	34.18	221.28

DIFFERENTIAL CORRECTIONS

TDE	-.4926	TRA	-1.4941	TC3	-.1324	BAU	.1898
RDE	-.7268	RRA	.3679	RC3	-.0250	FAU	.01444
FDE	.3058	FRA	.7076	FC3	-.1187	BSP	2641
BDE	.8781	BRA	1.5387	BC3	.1348	FSP	-97

MID-COURSE EXECUTION ACCURACY

SGT	943.9	SGR	460.7	SG3	43.6		
RRT	-.1311	RRF	.1276	RTF	-.6965		
SGB	1050.3	R23	-.0087	R13	.6974		
SG1	946.4	SG2	455.5	THA	175.23		

ORBIT DETERMINATION ACCURACY

ST	377.4	SR	410.7	SS	339.2		
CRT	.6141	CRS	.7123	CST	.9897		
LSA	597.1	MSA	263.7	SSA	14.4		
EL1	501.7	EL2	243.9	ALF	48.93		

LAUNCH DATE OCT 16 1965 FLIGHT TIME 78.00 ARRIVAL DATE JAN 2 1966

HELIOCENTRIC CONIC DISTANCE 168.838

RL	149.12	LAL	.00	LOL	22.42	VL	21.558	GAL	10.55	AZL	89.34	HCA	64.06	SMA	100.90	ECC	.50416	INC	.6632
RP	107.69	LAP	.60	LOP	86.49	VP	33.906	GAP	-30.05	AZP	89.71	TAL	169.26	TAP	233.32	RCA	50.03	APO	151.78
RC	50.858	GL	1.44	GP	-5.01	ZAL	62.95	ZAP	19.91	ETS	163.01	ZAE	150.88	ETE	194.81	ZAC	27.92	ETC	133.20

V1	29.881																		
V2	35.191																		
CLP	19.29																		

PLANETOCENTRIC CONIC

C3	95.166	VHL	9.755	DLA	-13.61	RAL	321.44	RAD	6569.9	VEL	14.714	PTH	2.66	VHP	17.881	DPA	-29.17	RAP	287.68
ECC	2.5662																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 56 2	2157.40	-18.14	37.89	205.59	112.12	9 31 59	1557.4	-14.98	30.64
90.00	17 21 3	5675.14	27.80	267.64	216.63	95.61	18 55 38	5075.1	28.29	259.01
100.00	10 10 14	1918.02	-19.71	19.61	204.30	112.94	10 42 12	1318.0	-16.44	12.34
100.00	18 49 32	5389.75	29.49	246.83	216.81	95.10	20 19 22	4789.8	29.89	238.05
110.00	11 2 25	1754.55	-23.84	5.22	202.91	115.26	11 31 40	1154.6	-20.24	357.92
110.00	20 13 50	5125.98	34.00	227.21	217.22	93.74	21 39 16	4526.0	34.15	217.97

DIFFERENTIAL CORRECTIONS

TDE	-.4955	TRA	-1.4977	TC3	-.1359	BAU	.1770												
RDE	-.6884	RRA	.3620	RC3	-.0300	FAU	.01478												
FDE	.3246	FRA	.7341	FC3	-.1345	BSP	2811												
BDE	.8482	BRA	1.5409	BC3	.1391	FSP	-107												

MID-COURSE EXECUTION ACCURACY

SGT	987.0	SGR	463.5	SG3	47.5														
RRT	-.1416	RRF	.1388	RTF	-.7143														
SGB	1090.4	R23	-.0100	R13	.7153														
SG1	989.7	SG2	457.5	THA	175.16														

ORBIT DETERMINATION ACCURACY

ST	398.1	SR	409.6	SS	359.4														
CRT	.6124	CRS	.7171	CST	.9886														
LSA	619.3	MSA	267.9	SSA	14.6														
EL1	513.0	EL2	251.3	ALF	46.33														

LAUNCH DATE OCT 16 1965 FLIGHT TIME 80.00 ARRIVAL DATE JAN 4 1966

HELIOCENTRIC CONIC DISTANCE 175.262

RL	149.12	LAL	.00	LOL	22.42	VL	22.019	GAL	10.04	AZL	89.15	HCA	67.30	SMA	102.47	ECC	.48098	INC	.8500
RP	107.66	LAP	.78	LOP	89.72	VP	34.210	GAP	-28.62	AZP	89.67	TAL	168.79	TAP	236.08	RCA	53.18	APO	151.76
RC	49.288	GL	1.99	GP	-5.23	ZAL	62.18	ZAP	18.52	ETS	161.23	ZAE	152.11	ETE	197.19	ZAC	29.34	ETC	135.28

V1	29.881																		
V2	35.200																		
CLP	17.80																		

PLANETOCENTRIC CONIC

C3	86.047	VHL	9.276	DLA	-12.85	RAL	322.02	RAD	6569.7	VEL	14.401	PTH	2.62	VHP	17.114	DPA	-29.25	RAP	289.68
ECC	2.4161																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 51 45	2161.40	-18.24	38.14	204.78	112.04	9 27 47	1561.4	-15.05	30.88
90.00	17 30 1	5626.64	28.07	264.12	215.16	93.87	19 3 47	5026.6	28.31	255.46
100.00	10 6 27	1920.40	-19.77	19.75	204.11	112.88	10 38 27	1320.4	-16.50	12.49
100.00	18 58 0	5342.87	29.73	243.37	215.27	93.30	20 27 3	4742.9	29.87	234.56
110.00	10 59 43	1753.55	-23.81	5.15	202.17	115.28	11 28 57	1153.6	-20.21	357.87
110.00	20 21 13	5082.48	34.14	223.82	215.50	91.74	21 45 55	4482.5	34.01	214.58

DIFFERENTIAL CORRECTIONS

TDE	-.4977	TRA	-1.5004	TC3	-.1381	BAU	.1641												
RDE	-.6507	RRA	.3557	RC3	-.0359	FAU	.01517												
FDE	.3443	FRA	.7612	FC3	-.1526	BSP	2996												
BDE	.8192	BRA	1.5420	BC3	.1426	FSP	-119												

MID-COURSE EXECUTION ACCURACY

SGT	1031.3	SGR	465.6	SG3	51.7														
RRT	-.1533	RRF	.1511	RTF	-.7314														
SGB	1131.5	R23	-.0114	R13	.7324														
SG1	1034.4	SG2	458.7	THA	175.07														

ORBIT DETERMINATION ACCURACY

ST	419.4	SR	407.6	SS	380.5														
CRT	.6101	CRS	.7214	CST	.9874														
LSA	642.6	MSA	271.3	SSA	14.8														
EL1	524.8	EL2	258.0	ALF	43.66														

LAUNCH DATE OCT 16 1965 FLIGHT TIME 82.00 ARRIVAL DATE JAN 6 1966

HELIOCENTRIC CONIC DISTANCE 181.742

RL	149.12	LAL	.00	LOL	22.42	VL	22.449	GAL	9.55	AZL	88.97	HCA	70.53	SMA	104.00	ECC	.45878	INC	1.0281
RP	107.63	LAP	.97	LOP	92.95	VP	34.497	GAP	-27.24	AZP	89.66	TAL	168.35	TAP	238.88	RCA	56.29	APO	151.72
RC	47.809	GL	2.58	GP	-5.46	ZAL	61.48	ZAP	17.17	ETS	159.12	ZAE	153.44	ETE	200.00	ZAC	30.81	ETC	137.16

V1	29.881																		
V2	35.209																		
CLP	16.31																		

PLANETOCENTRIC CONIC

C3	77.855	VHL	8.824	DLA	-12.06	RAL	322.53	RAD	6569.5	VEL	14.114	PTH	2.57	VHP	16.374	DPA	-29.32	RAP	291.70
ECC	2.2813																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 47 3	2165.38	-18.34	38.39	203.87	111.96	9 23 8	1565.4	-15.21	31.12
90.00	17 38 43	5577.15	28.25	260.51	213.52	92.06	19 11 40	4977.2	28.24	251.84
100.00	10 2 15	1922.79	-19.84	19.90	203.22	112.83	10 34 17	1322.8	-16.57	12.63
100.00	19 6 13	5294.97	29.86	239.81	213.58	91.43	20 34 27	4695.0	29.74	231.01
110.00	10 56 36	1752.57	-23.78	5.09	201.32	115.31	11 25 48	1152.6	-20.18	357.81
110.00	20 28 21	5037.95	34.18	220.34	213.63	89.68	21 52 19	4438.0	33.76	211.13

DIFFERENTIAL CORRECTIONS

TDE	-.5022	TRA	-1.5049	TC3	-.1401	BAU	.1525												
RDE	-.6134	RRA	.3492	RC3	-.0426	FAU	.01557												
FDE	.3655	FRA	.7897	FC3	-.1732	BSP	3124												
BDE	.7928	BRA	1.5449	BC3	.1465	FSP	-131												

MID-COURSE EXECUTION ACCURACY

SGT	1079.8	SGR	467.0	SG3	56.3														
RRT	-.1650	RRF	.1644	RTF	-.7472														
SGB	1176.5	R23	-.0142	R13	.7482														
SG1	1083.2	SG2	459.2	THA	175.02														

ORBIT DETERMINATION ACCURACY

ST	443.0	SR	404.4	SS	403.0														
CRT	.6088	CRS	.7255	CST	.9864														
LSA	668.6	MSA	273.9	SSA	15.0														
EL1	538.7	EL2	263.8	ALF	40.73														

LAUNCH DATE OCT 16 1965 FLIGHT TIME 84.00 ARRIVAL DATE JAN 8 1966

HELIOCENTRIC CONIC DISTANCE 188.274

RL	149.12	LAL	.00	LOL	22.42	VL	22.849	GAL	9.06	AZL	88.80	HCA	73.76	SMA	105.50	ECC	.43756	INC	1.1992
RP	107.61	LAP	1.15	LOP	96.18	VP	34.767	GAP	-25.92	AZP	89.66	TAL	167.96	TAP	241.73	RCA	59.34	APO	151.67
RC	46.433	GL	3.22	GP	-5.71	ZAL	60.85	ZAP	15.86	ETS	156.57	ZAE	154.84	ETE	203.32	ZAC	32.32	ETC	138.86

V1	29.881																		
V2	35.217																		
CLP	14.82																		

PLANETOCENTRIC CONIC

C3	70.497	VHL	8.396	DLA	-11.24	RAL	322.94	RAD	6569.4	VEL	13.851	PTH	2.53	VHP	15.661	DPA	-29.39	RAP	293.72
ECC	2.1602																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 41 54	2169.53	-18.45	38.65	202.85	111.87	9 18 3	1569.5	-15.32	31.37
90.00	17 47 11	5526.66	28.32	256.82	211.74	90.21	19 19 17	4926.7	28.05	248.16
100.00	9 57 35	1925.36	-19.91	20.06	202.22	112.77	10 29 40	1325.4	-16.65	12.78
100.00	19 14 11	5246.06	29.89	236.18	211.74	89.52	20 41 37	4646.1	29.50	227.39
110.00	10 53 1	1751.77	-23.76	5.04	200.37	115.33	11 22 12	1151.8	-20.15	357.76
110.00	20 35 14	4992.41	34.11	216.79	211.61	87.58	21 58 27	4392.4	33.40	207.62

DIFFERENTIAL CORRECTIONS

TDE	-.5043	TRA	-1.5065	TC3	-.1396	BAU	.1399												
RDE	-.5769	RRA	.3425	RC3	-.0504	FAU	.01604												
FDE	.3877	FRA	.8190	FC3	-.1970	BSP	3310												
BDE	.7662	BRA	1.5449	BC3	.1484	FSP	-145												

MID-COURSE EXECUTION ACCURACY

SGT	1127.8	SGR	467.9	SG3	61.3														
RRT	-.1790	RRF	.1795	RTF	-.7627														
SGB	1221.0	R23	-.0162	R13	.7638														
SG1	1131.5	SG2	458.8	THA	174.92														

ORBIT DETERMINATION ACCURACY

ST	466.2	SR	400.1	SS	426.4														
CRT	.6058	CRS	.7289	CST	.9851														
LSA	695.0	MSA	275.7	SSA	15.1														
EL1	552.5	EL2	268.6	ALF	37.89														

LAUNCH DATE OCT 16 1965 FLIGHT TIME 86.00 ARRIVAL DATE JAN 10 1966

HELIOCENTRIC CONIC DISTANCE 194.852

RL 149.12 LAL .00 LOL 22.42 VL 23.222 GAL 8.59 AZL 88.63 HCA 77.00 SMA 106.97 ECC .41731 INC 1.3651 V1 29.881
RP 107.58 LAP 1.33 LOP 99.42 VP 35.021 GAP -24.66 AZP 89.69 TAL 167.61 TAP 244.62 RCA 62.33 APO 151.60 V2 35.224
RC 45.168 GL 3.92 GP -6.00 ZAL 60.30 ZAP 14.60 ETS 153.47 ZAE 156.28 ETE 207.30 ZAC 33.88 ETC 140.40 CLP 13.34

PLANETOCENTRIC CONIC

C3 63.890 VHL 7.993 DLA -10.40 RAL 323.27 RAD 6569.2 VEL 13.610 PTH 2.49 VHP 14.973 DPA -29.46 RAP 295.76 ECC 2.0515

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 36 15	2174.09	-18.57	38.93	201.74	111.77	9 12 29	1574.1	-15.45	31.65
90.00	17 55 26	5475.16	28.27	253.05	209.83	88.33	19 26 41	4875.2	27.74	244.43
100.00	9 52 26	1928.33	-19.98	20.25	201.13	112.70	10 24 34	1328.3	-16.73	12.96
100.00	19 21 56	5196.15	29.80	232.47	209.76	87.57	20 48 32	4596.2	29.15	223.73
110.00	10 48 57	1751.35	-23.75	5.01	199.32	115.34	11 18 8	1151.4	-20.14	357.73
110.00	20 41 55	4945.89	33.92	213.17	209.47	85.45	22 4 21	4345.9	32.91	204.08

DIFFERENTIAL CORRECTIONS

TDE -.5062 TRA-1.5069 TC3 -.1369 BAU .1275
RDE -.5409 RRA .3357 RC3 -.0594 FAU .01657
FDE .4115 FRA .8494 FC3 -.2245 BSP 3503
BDE .7408 BRA 1.5438 BC3 .1493 FSP -161

MID-COURSE EXECUTION ACCURACY

SGT 1177.1 SGR 468.2 SG3 66.9
RRT -.1945 RRF .1964 RTF -.7775
SGB 1266.8 R23 -.0186 R13 .7786
SGI 1181.3 SG2 457.6 THA 174.79

ORBIT DETERMINATION ACCURACY

ST 490.1 SR 394.6 SS 451.1
CRT .6024 CRS .7318 CST .9837
LSA 723.0 MSA 276.6 SSA 15.3
EL1 567.4 EL2 272.1 ALF 35.03

LAUNCH DATE OCT 16 1965 FLIGHT TIME 88.00 ARRIVAL DATE JAN 12 1966

HELIOCENTRIC CONIC DISTANCE 201.472

RL 149.12 LAL .00 LOL 22.42 VL 23.570 GAL 8.14 AZL 88.47 HCA 80.24 SMA 108.39 ECC .39804 INC 1.5266 V1 29.881
RP 107.56 LAP 1.50 LOP 102.66 VP 35.259 GAP -23.45 AZP 89.74 TAL 167.31 TAP 247.55 RCA 65.24 APO 151.53 V2 35.231
RC 44.025 GL 4.68 GP -6.30 ZAL 59.83 ZAP 13.41 ETS 149.69 ZAE 157.71 ETE 212.08 ZAC 35.47 ETC 141.78 CLP 11.86

PLANETOCENTRIC CONIC

C3 57.961 VHL 7.613 DLA -9.52 RAL 323.51 RAD 6569.1 VEL 13.391 PTH 2.45 VHP 14.309 DPA -29.53 RAP 297.79 ECC 1.9539

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 30 6	2179.27	-18.70	39.26	200.54	111.66	9 6 25	1579.3	-15.59	31.96
90.00	18 3 29	5422.67	28.11	249.22	207.80	86.41	19 33 52	4822.7	27.31	240.64
100.00	9 46 46	1931.93	-20.08	20.48	199.95	112.62	10 18 58	1331.9	-16.84	13.18
100.00	19 29 30	5145.25	29.60	228.70	207.68	85.59	20 55 15	4545.2	28.67	220.02
110.00	10 44 22	1751.53	-23.75	5.03	198.18	115.34	11 13 34	1151.5	-20.14	357.74
110.00	20 48 23	4898.41	33.60	209.50	207.22	83.30	22 10 1	4298.4	32.31	200.50

DIFFERENTIAL CORRECTIONS

TDE -.5082 TRA-1.5064 TC3 -.1321 BAU .1157
RDE -.5055 RRA .3289 RC3 -.0697 FAU .01715
FDE .4371 FRA .8812 FC3 -.2561 BSP 3696
BDE .7168 BRA 1.5419 BC3 .1493 FSP -178

MID-COURSE EXECUTION ACCURACY

SGT 1228.0 SGR 468.0 SG3 72.9
RRT -.2118 RRF .2152 RTF -.7914
SGB 1314.2 R23 -.0213 R13 .7927
SGI 1232.7 SG2 455.6 THA 174.65

ORBIT DETERMINATION ACCURACY

ST 515.0 SR 387.8 SS 477.3
CRT .5986 CRS .7341 CST .9823
LSA 752.8 MSA 276.6 SSA 15.4
EL1 583.5 EL2 274.2 ALF 32.17

LAUNCH DATE OCT 16 1965 FLIGHT TIME 90.00 ARRIVAL DATE JAN 14 1966

HELIOCENTRIC CONIC DISTANCE 208.427

RL 149.12 LAL .00 LOL 22.42 VL 23.893 GAL 7.69 AZL 88.31 HCA 83.48 SMA 109.76 ECC .37973 INC 1.6851 V1 29.881
RP 107.55 LAP 1.67 LOP 105.90 VP 35.482 GAP -22.29 AZP 89.81 TAL 167.05 TAP 250.53 RCA 68.08 APO 151.44 V2 35.237
RC 43.015 GL 5.51 GP -6.65 ZAL 59.44 ZAP 12.30 ETS 145.05 ZAE 159.08 ETE 217.80 ZAC 37.10 ETC 143.02 CLP 10.37

PLANETOCENTRIC CONIC

C3 52.646 VHL 7.256 DLA -8.60 RAL 323.65 RAD 6568.9 VEL 13.191 PTH 2.41 VHP 13.670 DPA -29.61 RAP 299.84 ECC 1.8664

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 23 23	2185.36	-18.85	39.64	199.26	111.53	8 59 48	1585.4	-15.76	32.33
90.00	18 11 22	5369.19	27.82	245.33	205.66	84.49	19 40 51	4769.2	26.76	236.83
100.00	9 40 32	1936.42	-20.20	20.76	198.69	112.52	10 12 49	1336.4	-16.97	13.45
100.00	19 36 53	5093.36	29.26	224.88	205.49	83.61	21 1 47	4493.4	28.07	216.28
110.00	10 39 16	1752.54	-23.78	5.09	196.97	115.31	11 8 28	1152.5	-20.17	357.80
110.00	20 54 39	4850.00	33.15	205.79	204.88	81.14	22 15 29	4250.0	31.57	196.92

DIFFERENTIAL CORRECTIONS

TDE -.5104 TRA-1.5049 TC3 -.1246 BAU .1048
RDE -.4707 RRA .3224 RC3 -.0814 FAU .01778
FDE .4649 FRA .9146 FC3 -.2924 BSP 3891
BDE .6943 BRA 1.5390 BC3 .1489 FSP -197

MID-COURSE EXECUTION ACCURACY

SGT 1280.5 SGR 467.3 SG3 79.6
RRT -.2311 RRF .2364 RTF -.8047
SGB 1363.1 R23 -.0245 R13 .8060
SGI 1285.7 SG2 452.9 THA 174.49

ORBIT DETERMINATION ACCURACY

ST 540.8 SR 379.6 SS 505.2
CRT .5941 CRS .7358 CST .9809
LSA 784.6 MSA 275.7 SSA 15.6
EL1 600.9 EL2 274.8 ALF 29.35

LAUNCH DATE OCT 16 1965 FLIGHT TIME 92.00 ARRIVAL DATE JAN 16 1966

HELIOCENTRIC CONIC DISTANCE 214.813

RL 149.12 LAL .00 LOL 22.42 VL 24.193 GAL 7.26 AZL 88.16 HCA 86.72 SMA 111.09 ECC .36237 INC 1.8416 V1 29.881
RP 107.53 LAP 1.84 LOP 109.14 VP 35.690 GAP -21.17 AZP 89.89 TAL 166.84 TAP 253.56 RCA 70.83 APO 151.34 V2 35.242
RC 42.147 GL 6.40 GP -7.02 ZAL 59.14 ZAP 11.30 ETS 139.37 ZAE 160.30 ETE 224.61 ZAC 38.75 ETC 144.13 CLP 8.87

PLANETOCENTRIC CONIC

C3 47.887 VHL 6.920 DLA -7.64 RAL 323.71 RAD 6568.8 VEL 13.010 PTH 2.37 VHP 13.053 DPA -29.70 RAP 301.88 ECC 1.7881

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 16 4	2192.62	-19.03	40.10	197.92	111.37	8 52 37	1592.6	-15.96	32.77
90.00	18 19 7	5314.71	27.40	241.40	203.45	82.56	19 47 42	4714.7	26.09	232.98
100.00	9 33 44	1942.06	-20.34	21.11	197.36	112.39	10 6 6	1342.1	-17.13	13.79
100.00	19 44 8	5040.51	28.80	221.02	203.23	81.63	21 8 9	4440.5	27.34	212.52
110.00	10 33 36	1754.64	-23.84	5.22	195.69	115.25	11 2 50	1154.6	-20.24	357.93
110.00	21 0 46	4800.69	32.57	202.06	202.48	79.01	22 20 47	4200.7	30.71	193.33

DIFFERENTIAL CORRECTIONS

TDE -.5126 TRA-1.5019 TC3 -.1139 BAU .0949
RDE -.4364 RRA .3162 RC3 -.0948 FAU .01849
FDE .4951 FRA .9495 FC3 -.3343 BSP 4096
BDE .6732 BRA 1.5349 BC3 .1482 FSP -218

MID-COURSE EXECUTION ACCURACY

SGT 1333.9 SGR 466.4 SG3 86.9
RRT -.2531 RRF .2604 RTF -.8173
SGB 1413.1 R23 -.0280 R13 .8187
SGI 1339.8 SG2 449.3 THA 174.30

ORBIT DETERMINATION ACCURACY

ST 567.3 SR 369.9 SS 534.8
CRT .5887 CRS .7365 CST .9795
LSA 818.2 MSA 274.0 SSA 15.7
EL1 619.4 EL2 273.9 ALF 26.59

LAUNCH DATE OCT 16 1965 FLIGHT TIME 94.00 ARRIVAL DATE JAN 18 1966

HELIOCENTRIC CONIC DISTANCE 221.526

RL	149.12	LAL	.00	LOL	22.42	VL	24.473	GAL	6.85	AZL	88.00	HCA	89.96	SMA	112.37	ECC	.34594	INC	1.9972	VI	29.881
RP	107.51	LAP	2.00	LOP	112.38	VP	35.885	GAP	-20.09	AZP	90.00	TAL	166.68	TAP	256.64	RCA	73.50	APO	151.24	V2	35.247
RC	41.430	GL	7.37	GP	-7.44	ZAL	58.92	ZAP	10.46	ETS	132.46	ZAE	161.28	ETE	232.55	ZAC	40.43	ETC	145.12	CLP	7.37

PLANETOCENTRIC CONIC

C3	43.631	VHL	6.605	DLA	-6.63	RAL	323.67	RAD	6568.7	VEL	12.845	PTH	2.34	VHP	12.459	DPA	-29.81	RAP	303.92	ECC	1.7181

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 8 7	2201.35	-19.25	40.65	196.51	111.18	8 44 49	1601.4	-16.20	33.30
90.00	18 26 46	5259.25	26.85	237.44	201.17	80.64	19 54 25	4659.2	25.28	229.12
100.00	9 26 18	1949.13	-20.52	21.56	195.97	112.22	9 58 47	1349.1	-17.33	14.22
100.00	19 51 16	4986.70	28.20	217.13	200.90	79.66	21 14 22	4386.7	26.49	208.75
110.00	10 27 19	1758.09	-23.94	5.44	194.35	115.16	10 56 37	1158.1	-20.35	358.14
110.00	21 6 44	4750.51	31.86	198.32	200.02	76.90	22 25 55	4150.5	29.73	189.76

DIFFERENTIAL CORRECTIONS								MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TDE	-.5156	TRA	-1.4978	TC3	-.0997	BAU	.0866	SGT	1388.5	SGR	465.3	SG3	94.9	ST	595.0	SR	358.5	SS	566.7
RDE	-.4025	RRA	.3105	RC3	-.1100	FAU	.01927	RRT	-.2777	RRF	.2875	RTF	-.8292	CRT	.5824	CRS	.7362	CST	.9781
FDE	.5284	FRA	.9864	FC3	-.3825	BSP	4303	SGB	1464.4	R23	-.0322	R13	.8307	LSA	854.3	MSA	271.2	SSA	15.8
BDE	.6541	BRA	1.5296	BC3	.1484	FSP	-241	SG1	1395.2	SG2	444.9	THA	174.08	EL1	639.5	EL2	271.1	ALF	23.89

LAUNCH DATE OCT 16 1965 FLIGHT TIME 96.00 ARRIVAL DATE JAN 20 1966

HELIOCENTRIC CONIC DISTANCE 228.262

RL	149.12	LAL	.00	LOL	22.42	VL	24.732	GAL	6.45	AZL	87.85	HCA	93.20	SMA	113.60	ECC	.33043	INC	2.1527	VI	29.881
RP	107.50	LAP	2.15	LOP	115.63	VP	36.066	GAP	-19.06	AZP	90.12	TAL	166.57	TAP	259.77	RCA	76.06	APO	151.13	V2	35.251
RC	40.873	GL	8.41	GP	-7.90	ZAL	58.79	ZAP	9.82	ETS	124.26	ZAE	161.90	ETE	241.52	ZAC	42.13	ETC	146.01	CLP	5.85

PLANETOCENTRIC CONIC

C3	39.833	VHL	6.311	DLA	-5.57	RAL	323.54	RAD	6568.5	VEL	12.696	PTH	2.31	VHP	11.887	DPA	-29.94	RAP	305.96	ECC	1.6556

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 59 30	2211.86	-19.50	41.31	195.06	110.95	8 36 22	1611.9	-16.48	33.94
90.00	18 34 20	5202.79	26.16	233.45	198.84	78.76	20 1 3	4602.8	24.35	225.25
100.00	9 18 12	1957.95	-20.75	22.12	194.54	112.01	9 50 50	1358.0	-17.58	14.75
100.00	19 58 18	4931.93	27.47	213.22	198.53	77.73	21 20 30	4331.9	25.51	204.97
110.00	10 20 25	1763.17	-24.09	5.76	192.96	115.02	10 49 48	1163.2	-20.52	358.44
110.00	21 12 35	4699.48	31.01	194.58	197.54	74.84	22 30 54	4099.5	28.62	186.20

DIFFERENTIAL CORRECTIONS								MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TDE	-.5192	TRA	-1.4926	TC3	-.0815	BAU	.0805	SGT	1444.4	SGR	464.3	SG3	103.8	ST	623.7	SR	345.2	SS	600.9
RDE	-.3689	RRA	.3055	RC3	-.1273	FAU	.02014	RRT	-.3055	RRF	.3182	RTF	-.8404	CRT	.5747	CRS	.7343	CST	.9767
FDE	.5652	FRA	1.0255	FC3	-.4378	BSP	4508	SGB	1517.2	R23	-.0369	R13	.8420	LSA	893.0	MSA	267.6	SSA	16.0
BDE	.6369	BRA	1.5235	BC3	.1511	FSP	-267	SG1	1452.0	SG2	439.8	THA	173.82	EL1	661.2	EL2	266.5	ALF	21.26

LAUNCH DATE OCT 16 1965 FLIGHT TIME 98.00 ARRIVAL DATE JAN 22 1966

HELIOCENTRIC CONIC DISTANCE 235.015

RL	149.12	LAL	.00	LOL	22.42	VL	24.973	GAL	6.07	AZL	87.69	HCA	96.45	SMA	114.77	ECC	.31581	INC	2.3093	VI	29.881
RP	107.49	LAP	2.29	LOP	118.88	VP	36.235	GAP	-18.06	AZP	90.26	TAL	166.50	TAP	262.95	RCA	78.53	APO	151.02	V2	35.254
RC	40.482	GL	9.54	GP	-8.42	ZAL	58.75	ZAP	9.45	ETS	114.90	ZAE	162.07	ETE	251.15	ZAC	43.84	ETC	146.79	CLP	4.32

PLANETOCENTRIC CONIC

C3	36.451	VHL	6.037	DLA	-4.45	RAL	323.31	RAD	6568.4	VEL	12.563	PTH	2.28	VHP	11.337	DPA	-30.10	RAP	308.00	ECC	1.5999

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 50 9	2224.48	-19.81	42.11	193.57	110.66	8 27 14	1624.5	-16.82	34.71
90.00	18 41 52	5145.33	25.34	229.44	196.48	76.91	20 7 37	4545.3	23.28	221.37
100.00	9 9 24	1968.83	-21.03	22.81	193.06	111.75	9 42 13	1368.8	-17.89	15.42
100.00	20 5 18	4876.21	26.61	209.31	196.14	75.85	21 26 34	4276.2	24.40	201.21
110.00	10 12 51	1770.19	-24.29	6.21	191.54	114.82	10 42 21	1170.2	-20.74	358.86
110.00	21 18 21	4647.62	30.03	190.87	195.05	72.84	22 35 48	4047.6	27.39	182.67

DIFFERENTIAL CORRECTIONS								MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TDE	-.5239	TRA	-1.4861	TC3	-.0596	BAU	.0772	SGT	1501.1	SGR	463.6	SG3	113.6	ST	653.7	SR	329.9	SS	638.0
RDE	-.3355	RRA	.3012	RC3	-.1467	FAU	.02109	RRT	-.3369	RRF	.3528	RTF	-.8508	CRT	.5649	CRS	.7303	CST	.9755
FDE	.6064	FRA	1.0669	FC3	-.5010	BSP	4708	SGB	1571.1	R23	-.0425	R13	.8527	LSA	934.7	MSA	263.2	SSA	16.1
BDE	.6221	BRA	1.5163	BC3	.1583	FSP	-295	SG1	1510.0	SG2	434.0	THA	173.52	EL1	684.5	EL2	259.9	ALF	18.71

LAUNCH DATE OCT 16 1965 FLIGHT TIME 100.00 ARRIVAL DATE JAN 24 1966

HELIOCENTRIC CONIC DISTANCE 241.782

RL	149.12	LAL	.00	LOL	22.42	VL	25.197	GAL	5.71	AZL	87.53	HCA	99.69	SMA	115.90	ECC	.30206	INC	2.4679	VI	29.881
RP	107.48	LAP	2.43	LOP	122.12	VP	36.392	GAP	-17.10	AZP	90.42	TAL	166.49	TAP	266.18	RCA	80.89	APO	150.90	V2	35.256
RC	40.263	GL	10.76	GP	-8.99	ZAL	58.81	ZAP	9.40	ETS	104.84	ZAE	161.74	ETE	260.86	ZAC	45.58	ETC	147.47	CLP	2.76

PLANETOCENTRIC CONIC

C3	33.447	VHL	5.783	DLA	-3.28	RAL	322.99	RAD	6568.3	VEL	12.443	PTH	2.25	VHP	10.807	DPA	-30.30	RAP	310.03	ECC	1.5505

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 40 2	2239.55	-20.17	43.07	192.05	110.31	8 17 22	1639.5	-17.22	35.63
90.00	18 49 25	5086.84	24.37	225.43	194.12	75.12	20 14 12	4486.8	22.09	217.50
100.00	8 59 51	1982.08	-21.36	23.65	191.57	111.42	9 32 53	1382.1	-18.26	16.23
100.00	20 12 17	4819.54	25.60	205.40	193.74	74.02	21 32 37	4219.5	23.16	197.45
110.00	10 4 35	1779.43	-24.55	6.80	190.10	114.57	10 34 14	1179.4	-21.03	359.42
110.00	21 24 3	4594.95	28.91	187.17	192.57	70.92	22 40 38	3995.0	26.04	179.17

DIFFERENTIAL CORRECTIONS								MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TDE	-.5293	TRA	-1.4783	TC3	-.0324	BAU	.0768	SGT	1558.3	SGR	463.7	SG3	124.4	ST	684.6	SR	312.3	SS	677.9
RDE	-.3022	RRA	.2979	RC3	-.1686	FAU	.02215	RRT	-.3727	RRF	.3921	RTF	-.8608	CRT	.5518	CRS	.7232	CST	.9744
FDE	.6521	FRA	1.1109	FC3	-.5733	BSP	4918	SGB	1625.8	R23	-.0487	R13	.8628	LSA	979.3	MSA	258.0	SSA	16.2
BDE	.6095	BRA	1.5080	BC3	.1717	FSP	-327	SG1	1568.6	SG2	427.5	THA	173.16	EL1	709.2	EL2	251.4	ALF	16.23

LAUNCH DATE OCT 16 1965 FLIGHT TIME 102.00 ARRIVAL DATE JAN 26 1966

HELIOCENTRIC CONIC DISTANCE 248,559

RL	149.12	LAL	.00	LOL	22.42	VL	25,404	GAL	5.36	AZL	87.37	HCA	102.94	SMA	116.97	ECC	.28916	INC	2.6297	V1	29.881
RP	107.48	LAP	2.56	LOP	125.37	VP	36,537	GAP	-16.17	AZP	90.59	TAL	166.52	TAP	269.46	RCA	83.14	APO	150.79	V2	35.258
RC	40.219	GL	12.07	GP	-9.64	ZAL	58.96	ZAP	9.71	ETS	94.78	ZAE	160.90	ETE	270.00	ZAC	47.32	ETC	148.07	CLP	1.18

PLANETOCENTRIC CONIC

C3	30.790	VHL	5.549	DLA	-2.03	RAL	322.57	RAD	6568.2	VEL	12.335	PTH	2.22	VHP	10.298	DPA	-30.55	RAP	312.06	ECC	1.5067

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 29 6	2257.41	-20.58	44.21	190.53	109.89	8 6 43	1657.4	-17.69	36.73
90.00	18 57 2	5027.30	23.27	221.41	191.76	73.40	20 20 49	4427.3	20.78	213.63
100.00	8 49 30	1998.06	-21.75	24.67	190.06	111.02	9 22 48	1398.1	-18.70	17.21
100.00	20 19 19	4761.88	24.46	201.49	191.36	72.26	21 38 41	4161.9	21.81	193.70
110.00	9 55 34	1791.22	-24.89	7.55	188.64	114.23	10 25 26	1191.2	-21.40	.14
110.00	21 29 44	4541.49	27.67	183.51	190.11	69.07	22 45 25	3941.5	24.57	175.71

DIFFERENTIAL CORRECTIONS

TDE	-.5367	TRA	-1.4695	TC3	-.0023	BAU	-.0795												
RDE	-.2687	RRA	.2958	RC3	-.1932	FAU	.02331												
FDE	.7039	FRA	1.1579	FC3	-.6555	BSP	5096												
BDE	.6002	BRA	1.4989	BC3	.1932	FSP	-363												

MID-COURSE EXECUTION ACCURACY

SGT	1616.3	SGR	465.1	SG3	136.3						
RRT	-.4120	RRF	.4360	RTF	-.8696						
SGB	1681.9	R23	-.0567	R13	.8719						
SG1	1628.4	SG2	420.7	THA	172.75						

ORBIT DETERMINATION ACCURACY

ST	717.4	SR	292.3	SS	721.5						
CRT	.5342	CRS	.7114	CST	.9735						
LSA	1028.0	MSA	252.0	SSA	16.2						
EL1	736.3	EL2	240.7	ALF	13.78						

LAUNCH DATE OCT 16 1965 FLIGHT TIME 104.00 ARRIVAL DATE JAN 28 1966

HELIOCENTRIC CONIC DISTANCE 255,342

RL	149.12	LAL	.00	LOL	22.42	VL	25,595	GAL	5.02	AZL	87.20	HCA	106.18	SMA	117.98	ECC	.27708	INC	2.7957	V1	29.881
RP	107.48	LAP	2.68	LOP	128.62	VP	36,671	GAP	-15.27	AZP	90.78	TAL	166.61	TAP	272.79	RCA	85.29	APO	150.67	V2	35.259
RC	40.350	GL	13.48	GP	-10.36	ZAL	59.21	ZAP	10.37	ETS	85.43	ZAE	159.62	ETE	278.17	ZAC	49.08	ETC	148.57	CLP	-.43

PLANETOCENTRIC CONIC

C3	28.449	VHL	5.334	DLA	-.71	RAL	322.06	RAD	6568.1	VEL	12.240	PTH	2.20	VHP	9.810	DPA	-30.86	RAP	314.08	ECC	1.4682

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 17 17	2278.43	-21.07	45.57	189.01	109.37	7 55 16	1678.4	-18.23	38.04
90.00	19 4 45	4966.67	22.04	217.40	189.43	71.75	20 27 32	4366.7	19.34	209.76
100.00	8 38 18	2017.11	-22.21	25.90	188.57	110.53	9 11 55	1417.1	-19.22	18.39
100.00	20 26 25	4703.22	23.19	197.60	189.00	70.59	21 44 49	4103.2	20.33	189.97
110.00	9 45 47	1805.87	-25.29	8.50	187.20	113.80	10 15 53	1205.9	-21.86	1.03
110.00	21 35 26	4487.23	26.29	179.89	187.69	67.33	22 50 13	3887.2	22.99	172.29

DIFFERENTIAL CORRECTIONS

TDE	-.5446	TRA	-1.4574	TC3	.0365	BAU	.0850												
RDE	-.2346	RRA	.2952	RC3	-.2206	FAU	.02459												
FDE	.7628	FRA	1.2078	FC3	-.7484	BSP	5354												
BDE	.5930	BRA	1.4870	BC3	.2236	FSP	-402												

MID-COURSE EXECUTION ACCURACY

SGT	1671.9	SGR	468.4	SG3	149.5						
RRT	-.4574	RRF	.4848	RTF	-.8790						
SGB	1736.2	R23	-.0637	R13	.8816						
SG1	1686.4	SG2	413.0	THA	172.23						

ORBIT DETERMINATION ACCURACY

ST	750.3	SR	269.4	SS	769.2						
CRT	.5082	CRS	.6923	CST	.9727						
LSA	1080.1	MSA	245.5	SSA	16.2						
EL1	763.9	EL2	227.9	ALF	11.37						

LAUNCH DATE OCT 16 1965 FLIGHT TIME 106.00 ARRIVAL DATE JAN 30 1966

HELIOCENTRIC CONIC DISTANCE 262,129

RL	149.12	LAL	.00	LOL	22.42	VL	25,773	GAL	4.70	AZL	87.03	HCA	109.42	SMA	118.94	ECC	.26579	INC	2.9673	V1	29.881
RP	107.48	LAP	2.80	LOP	131.87	VP	36,795	GAP	-14.41	AZP	90.99	TAL	166.74	TAP	276.16	RCA	87.33	APO	150.56	V2	35.259
RC	40.657	GL	15.00	GP	-11.17	ZAL	59.56	ZAP	11.36	ETS	77.29	ZAE	157.97	ETE	285.08	ZAC	50.85	ETC	148.99	CLP	-2.08

PLANETOCENTRIC CONIC

C3	26.399	VHL	5.138	DLA	.68	RAL	321.45	RAD	6568.1	VEL	12.156	PTH	2.18	VHP	9.343	DPA	-31.24	RAP	316.09	ECC	1.4345

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 4 33	2302.99	-21.61	47.16	187.52	108.76	7 42 56	1703.0	-18.85	39.57
90.00	19 12 39	4904.90	20.66	213.39	187.14	70.20	20 34 24	4304.9	17.78	205.90
100.00	8 26 13	2039.59	-22.74	27.36	187.09	109.94	9 0 12	1439.6	-19.82	19.79
100.00	20 33 41	4643.53	21.79	193.72	186.69	69.01	21 51 4	4043.5	18.74	186.25
110.00	9 35 11	1823.71	-25.78	9.66	185.77	113.27	10 5 35	1223.7	-22.40	2.13
110.00	21 41 12	4432.17	24.80	176.31	185.32	65.68	22 55 4	3832.2	21.31	168.90

DIFFERENTIAL CORRECTIONS

TDE	-.5552	TRA	-1.4460	TC3	.0770	BAU	.0927												
RDE	-.1996	RRA	.2962	RC3	-.2511	FAU	.02599												
FDE	.8298	FRA	1.2616	FC3	-.8523	BSP	5557												
BDE	.5900	BRA	1.4761	BC3	.2626	FSP	-445												

MID-COURSE EXECUTION ACCURACY

SGT	1729.2	SGR	474.6	SG3	164.0						
RRT	-.5061	RRF	.5381	RTF	-.8869						
SGB	1793.2	R23	-.0732	R13	.8899						
SG1	1746.8	SG2	405.2	THA	171.64						

ORBIT DETERMINATION ACCURACY

ST	785.7	SR	243.8	SS	821.3						
CRT	.4691	CRS	.6610	CST	.9722						
LSA	1137.6	MSA	238.6	SSA	16.2						
EL1	794.7	EL2	212.9	ALF	8.93						

LAUNCH DATE OCT 16 1965 FLIGHT TIME 108.00 ARRIVAL DATE FEB 1 1966

HELIOCENTRIC CONIC DISTANCE 268,915

RL	149.12	LAL	.00	LOL	22.42	VL	25,936	GAL	4.40	AZL	86.85	HCA	112.67	SMA	119.85	ECC	.25527	INC	3.1458	VI	29.881
RP	107.48	LAP	2.90	LOP	135.12	VP	36,909	GAP	-13.57	AZP	91.21	TAL	166.91	TAP	279.58	RCA	89.26	APO	150.45	V2	35.258
RC	41.135	GL	16.62	GP	-12.08	ZAL	60.01	ZAP	12.65	ETS	70.52	ZAE	156.07	ETE	290.74	ZAC	52.63	ETC	149.32	CLP	-3.77

PLANETOCENTRIC CONIC

C3	24.617	VHL	4.962	DLA	2.16	RAL	320.76	RAD	6568.0	VEL	12.083	PTH	2.16	VHP	8.896	DPA	-31.72	RAP	318.11	ECC	1.4051

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 50 49	2331.49	-22.22	49.03	186.06	108.01	7 29 41	1731.5	-19.55	41.37
90.00	19 20 49	4841.90	19.16	209.38	184.91	68.74	20 41 31	4241.9	16.10	202.04
100.00	8 13 10	2065.88	-23.34	29.08	185.65	109.22	8 47 36	1465.9	-20.50	21.44
100.00	20 41 9	4582.74	20.26	189.86	184.45	67.53	21 57 32	3982.7	17.03	182.54
110.00	9 23 43	1845.07	-26.34	11.06	184.39	112.62	9 54 28	1245.1	-23.05	3.45
110.00	21 47 6	4376.32	23.19	172.77	183.03	64.15	23 0 2	3776.3	19.52	165.55

DIFFERENTIAL CORRECTIONS

TDE	-.5679	TRA	-1.4326	TC3	.1231	BAU	.1022												
RDE	-.1633	RRA	.2993	RC3	-.2849	FAU	.02753												
FDE	.9065	FRA	1.3189	FC3	-.9681	BSP	5764												
BDE	.5909	BRA	1.4635	BC3	.3104	FSP	-493												

MID-COURSE EXECUTION ACCURACY

SGT	1784.9	SGR	484.9	SG3	180.0						
RRT	-.5587	RRF	.5953	RTF	-.8946						
SGB	1849.6	R23	-.0836	R13	.8981						
SG1	1806.4	SG2	397.4	THA	170.93						

ORBIT DETERMINATION ACCURACY

ST	822.6	SR	215.4	SS	878.3						
CRT	.4068	CRS	.6082	CST	.9720						
LSA	1200.3	MSA	231.5	SSA	16.1						
EL1	827.6	EL2	195.6	ALF	6.44						

LAUNCH DATE OCT 16 1965 FLIGHT TIME 110.00 ARRIVAL DATE FEB 3 1966

HELIOCENTRIC CONIC DISTANCE 275.698

RL	149.12	LAL	.00	LOL	22.42	VL	26.087	GAL	4.11	AZL	86.67	HCA	115.91	SMA	120.71	ECC	.24548	INC	3.3330	VI	29.881
RP	107.48	LAP	3.00	LOP	138.37	VP	37.014	GAP	-12.77	AZP	91.46	TAL	167.12	TAP	283.03	RCA	91.08	APO	150.34	V2	35.257
RC	41.780	GL	18.35	GP	-13.11	ZAL	60.56	ZAP	14.20	ETS	65.06	ZAE	154.00	ETE	295.24	ZAC	54.42	ETC	149.57	CLP	-5.50

PLANETOCENTRIC CONIC

C3	23.085	VHL	4.805	DLA	3.72	RAL	319.97	RAD	6567.9	VEL	12.019	PTH	2.15	VHP	8.470	DPA	-32.30	RAP	320.12	ECC	1.3799

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 36 2	2364.36	-22.90	51.20	184.66	107.13	7 15 26	1764.4	-20.34	43.46
90.00	19 29 19	4777.57	17.52	205.37	182.77	67.40	20 48 57	4177.6	14.31	198.17
100.00	7 59 7	2096.38	-24.01	31.10	184.27	108.36	8 34 3	1496.4	-21.28	23.37
100.00	20 48 55	4520.79	18.60	186.00	182.28	66.17	22 4 16	3920.8	15.22	178.84
110.00	9 11 21	1870.30	-26.99	12.73	183.07	111.82	9 42 31	1270.3	-23.79	5.03
110.00	21 53 11	4319.63	21.46	169.28	180.82	62.73	23 5 10	3719.6	17.64	162.24

DIFFERENTIAL CORRECTIONS

TDE	-.5834	TRA	-1.4182	TC3	.1722	BAU	.1128												
RDE	-.1248	RRA	.3048	RC3	-.3222	FAU	.02920												
FDE	.9950	FRA	1.3802	FC3	-1.0950	BSP	5965												
BDE	.5966	BRA	1.4506	BC3	.3654	FSP	-546												

MID-COURSE EXECUTION ACCURACY

SGT	1839.5	SGR	500.7	SG3	197.7						
RRT	-.6135	RRF	.6547	RTF	-.9016						
SGB	1906.4	R23	-.0956	R13	.9057						
SG1	1866.1	SG2	389.8	THA	170.08						

ORBIT DETERMINATION ACCURACY

ST	861.7	SR	184.9	SS	941.0						
CRT	.3009	CRS	.5141	CST	.9721						
LSA	1269.5	MSA	224.3	SSA	15.9						
EL1	863.5	EL2	175.9	ALF	3.85						

LAUNCH DATE OCT 16 1965 FLIGHT TIME 112.00 ARRIVAL DATE FEB 5 1966

HELIOCENTRIC CONIC DISTANCE 282.475

RL	149.12	LAL	.00	LOL	22.42	VL	26.225	GAL	3.84	AZL	86.47	HCA	119.15	SMA	121.51	ECC	.23641	INC	3.5308	VI	29.881
RP	107.49	LAP	3.08	LOP	141.62	VP	37.110	GAP	-11.99	AZP	91.72	TAL	167.38	TAP	286.53	RCA	92.78	APO	150.23	V2	35.255
RC	42.583	GL	20.20	GP	-14.29	ZAL	61.21	ZAP	16.00	ETS	60.73	ZAE	151.81	ETE	298.72	ZAC	56.23	ETC	149.74	CLP	-7.28

PLANETOCENTRIC CONIC

C3	21.787	VHL	4.668	DLA	5.37	RAL	319.09	RAD	6567.9	VEL	11.965	PTH	2.13	VHP	8.065	DPA	-33.00	RAP	322.14	ECC	1.3586

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 20 5	2402.06	-23.63	53.72	183.34	106.07	7 0 7	1802.1	-21.20	45.89
90.00	19 38 17	4711.80	15.76	201.35	180.72	66.16	20 56 48	4111.8	12.40	194.28
100.00	7 43 58	2131.52	-24.74	33.46	182.98	107.33	8 19 29	1531.5	-22.14	25.63
100.00	20 57 5	4457.57	16.81	182.15	180.22	64.91	22 11 23	3857.6	13.29	175.13
110.00	8 58 1	1899.76	-27.72	14.71	181.83	110.85	9 29 41	1299.8	-24.63	6.90
110.00	21 59 31	4262.09	19.63	165.82	178.72	61.43	23 10 33	3662.1	15.66	158.95

DIFFERENTIAL CORRECTIONS

TDE	-.6015	TRA	-1.4022	TC3	.2242	BAU	.1243												
RDE	-.0835	RRA	.3131	RC3	-.3632	FAU	.03101												
FDE	1.0967	FRA	1.4455	FC3	-1.2320	BSP	6173												
BDE	.6072	BRA	1.4367	BC3	.4268	FSP	-605												

MID-COURSE EXECUTION ACCURACY

SGT	1891.4	SGR	523.9	SG3	217.1						
RRT	-.6687	RRF	.7142	RTF	-.9082						
SGB	1962.6	R23	-.1087	R13	.9131						
SG1	1924.9	SG2	382.7	THA	169.07						

ORBIT DETERMINATION ACCURACY

ST	902.3	SR	155.0	SS	1009.6						
CRT	.1110	CRS	.3370	CST	.9725						
LSA	1345.4	MSA	217.3	SSA	15.6						
EL1	902.4	EL2	154.0	ALF	1.12						

LAUNCH DATE OCT 16 1965 FLIGHT TIME 114.00 ARRIVAL DATE FEB 7 1966

HELIOCENTRIC CONIC DISTANCE 289.245

RL	149.12	LAL	.00	LOL	22.42	VL	26.353	GAL	3.59	AZL	86.26	HCA	122.40	SMA	122.26	ECC	.22802	INC	3.7415	VI	29.881
RP	107.50	LAP	3.16	LOP	144.87	VP	37.198	GAP	-11.24	AZP	92.01	TAL	167.66	TAP	290.05	RCA	94.38	APO	150.14	V2	35.252
RC	43.538	GL	22.16	GP	-15.62	ZAL	61.96	ZAP	18.04	ETS	57.35	ZAE	149.57	ETE	301.33	ZAC	58.06	ETC	149.81	CLP	-9.13

PLANETOCENTRIC CONIC

C3	20.711	VHL	4.551	DLA	7.12	RAL	318.13	RAD	6567.8	VEL	11.920	PTH	2.12	VHP	7.682	DPA	-33.87	RAP	324.18	ECC	1.3409

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 2 54	2445.09	-24.41	56.63	182.12	104.81	6 43 39	1845.1	-22.14	48.70
90.00	19 47 48	4644.39	13.86	197.31	178.78	65.06	21 5 13	4044.4	10.38	190.35
100.00	7 27 39	2171.75	-25.53	36.19	181.78	106.10	8 3 50	1571.8	-23.08	28.25
100.00	21 5 45	4392.96	14.91	178.30	178.26	63.79	22 18 58	3793.0	11.27	171.41
110.00	8 43 40	1933.83	-28.53	17.04	180.70	109.69	9 15 54	1333.8	-25.58	9.10
110.00	22 6 12	4203.65	17.69	162.40	176.73	60.26	23 16 16	3603.7	13.60	155.67

DIFFERENTIAL CORRECTIONS

TDE	-.6208	TRA	-1.3826	TC3	.2810	BAU	.1372												
RDE	-.0383	RRA	.3245	RC3	-.4080	FAU	.03299												
FDE	1.2133	FRA	1.5134	FC3	-1.3788	BSP	6430												
BDE	.6220	BRA	1.4202	BC3	.4954	FSP	-672												

MID-COURSE EXECUTION ACCURACY

SGT	1937.4	SGR	556.6	SG3	238.1						
RRT	-.7230	RRF	.7713	RTF	-.9146						
SGB	2015.8	R23	-.1217	R13	.9203						
SG1	1980.4	SG2	376.2	THA	167.82						

ORBIT DETERMINATION ACCURACY

ST	942.3	SR	133.1	SS	1083.9						
CRT	-.2190	CRS	.0091	CST	.9731						
LSA	1426.7	MSA	211.0	SSA	15.2						
EL1	942.7	EL2	129.8	ALF	178.19						

LAUNCH DATE OCT 16 1965 FLIGHT TIME 116.00 ARRIVAL DATE FEB 9 1966

HELIOCENTRIC CONIC DISTANCE 296.003

RL	149.12	LAL	.00	LOL	22.42	VL	26.470	GAL	3.35	AZL	86.03	HCA	125.64	SMA	122.96	ECC	.22027	INC	3.9679	VI	29.881
RP	107.51	LAP	3.22	LOP	148.12	VP	37.277	GAP	-10.51	AZP	92.31	TAL	167.97	TAP	293.61	RCA	95.87	APO	150.04	V2	35.249
RC	44.633	GL	24.23	GP	-17.15	ZAL	62.80	ZAP	20.30	ETS	54.74	ZAE	147.29	ETE	303.18	ZAC	59.91	ETC	149.81	CLP	-11.04

PLANETOCENTRIC CONIC

C3	19.849	VHL	4.455	DLA	8.96	RAL	317.09	RAD	6567.8	VEL	11.884	PTH	2.11	VHP	7.323	DPA	-34.91	RAP	326.24	ECC	1.3267

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 44 20	2494.08	-25.22	59.99	181.03	103.31	6 25 54	1894.1	-23.14	51.94
90.00	19 58 5	4575.11	11.84	193.23	176.99	64.09	21 14 20	3975.1	8.25	186.38
100.00	7 10 2	2217.64	-26.36	39.34	180.72	104.63	7 47 0	1617.6	-24.09	31.28
100.00	21 15 3	4326.79	12.88	174.43	176.45	62.79	22 27 10	3726.8	9.13	167.65
110.00	8 28 14	1972.93	-29.39	19.75	179.71	108.29	9 1 7	1372.9	-26.61	11.67
110.00	22 13 21	4144.26	15.65	159.00	174.87	59.21	23 22 25	3544.3	11.45	152.41

DIFFERENTIAL CORRECTIONS

TDE	-.6465	TRA	-1.3649	TC3	.3317	BAU	.1497												
RDE	.0126	RRA	.3402	RC3	-.4562	FAU	.03501												
FDE	1.3496	FRA	1.5865	FC3	-1.5272	BSP	6608												
BDE	.6466	BRA	1.4067	BC3	.5640	FSP	-741												

MID-COURSE EXECUTION ACCURACY

SGT	1984.1	SGR	601.4	SG3	261.1						
RRT	-.7716	RRF	.8233	RTF	-.9200						
SGB	2073.2	R23	-.1375	R13	.9270						
SG1	2039.5	SG2	372.1	THA	166.37						

ORBIT DETERMINATION ACCURACY

ST	987.7	SR	134.4	SS	1166.3						
CRT	-.6361	CRS	-.4481	CST	.9742						
LSA	1520.4	MSA	205.1	SSA	14.6						
EL1	991.4	EL2	103.3	ALF	175.00						

LAUNCH DATE OCT 16 1965 FLIGHT TIME 118.00 ARRIVAL DATE FEB 11 1966

HELIOCENTRIC CONIC DISTANCE 302.749

RL 149.12 LAL .00 LOL 22.42 VL 26.577 GAL 3.12 AZL 85.79 HCA 128.88 SMA 123.61 ECC .21316 INC 4.2133 VI 29.881
RP 107.52 LAP 3.28 LOP 151.37 VP 37.349 GAP -9.80 AZP 92.65 TAL 168.31 TAP 297.18 RCA 97.26 APO 149.96 V2 35.244
RC 45.858 GL 26.42 GP -18.90 ZAL 63.73 ZAP 22.81 ETS 52.75 ZAE 144.99 ETE 304.36 ZAC 61.80 ETC 149.71 CLP -13.02

PLANETOCENTRIC CONIC

C3 19.197 VHL 4.381 DLA 10.90 RAL 315.97 RAD 6567.8 VEL 11.857 PTH 2.10 VHP 6.988 DPA -36.16 RAP 328.34 ECC 1.3159

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 24 12	2549.76	-26.04	63.86	180.10	101.54	6 6 42	1949.8	-24.19	55.68
90.00	20 9 18	4503.61	9.68	189.09	175.36	63.26	21 24 21	3903.6	6.01	182.32
100.00	6 51 0	2269.82	-27.21	42.99	179.81	102.89	7 28 50	1669.8	-25.16	34.79
100.00	21 25 11	4258.79	10.73	170.53	174.80	61.93	22 36 10	3658.8	6.90	163.84
110.00	8 11 37	2017.57	-30.30	22.91	178.88	106.63	8 45 14	1417.6	-27.73	14.66
110.00	22 21 3	4083.80	13.51	155.62	173.17	58.30	23 29 7	3483.8	9.22	149.15

DIFFERENTIAL CORRECTIONS

TDE -.6759 TRA-1.3456 TC3 .3799 BAU .1627
RDE .0709 RRA .3604 RC3 -.5077 FAU .03712
FDE 1.5069 FRA 1.6621 FC3-1.6741 BSP 6805
BDE .6796 BRA 1.3931 BC3 .6341 FSP -817

MID-COURSE EXECUTION ACCURACY

SGT 2025.7 SGR 661.0 SG3 285.7
RRT -.8142 RRF .8683 RTF -.9251
SGB 2130.8 R23 -.1531 R13 .9336
SG1 2098.3 SG2 370.5 THA 164.63

ORBIT DETERMINATION ACCURACY

ST 1034.5 SR 171.8 SS 1255.8
CRT -.8975 CRS -.7807 CST .9755
LSA 1623.8 MSA 200.0 SSA 13.9
EL1 1046.0 EL2 74.9 ALF 171.48

LAUNCH DATE OCT 16 1965 FLIGHT TIME 120.00 ARRIVAL DATE FEB 13 1966

HELIOCENTRIC CONIC DISTANCE 309.481

RL 149.12 LAL .00 LOL 22.42 VL 26.674 GAL 2.92 AZL 85.52 HCA 132.11 SMA 124.21 ECC .20663 INC 4.4821 VI 29.881
RP 107.54 LAP 3.32 LOP 154.62 VP 37.414 GAP -9.12 AZP 93.01 TAL 168.66 TAP 300.78 RCA 98.54 APO 149.88 V2 35.239
RC 47.202 GL 28.73 GP -20.91 ZAL 64.75 ZAP 25.58 ETS 51.25 ZAE 142.65 ETE 304.95 ZAC 63.74 ETC 149.52 CLP -15.09

PLANETOCENTRIC CONIC

C3 18.758 VHL 4.331 DLA 12.94 RAL 314.79 RAD 6567.8 VEL 11.838 PTH 2.10 VHP 6.681 DPA -37.67 RAP 330.50 ECC 1.3087

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 2 17	2613.09	-26.82	68.33	179.33	99.43	5 45 50	2013.1	-25.25	60.02
90.00	20 21 44	4429.37	7.37	184.85	173.93	62.58	21 35 33	3829.4	3.64	178.15
100.00	6 30 20	2329.12	-28.04	47.20	179.09	100.82	7 9 9	1729.1	-26.26	38.85
100.00	21 36 22	4188.58	8.46	166.56	173.34	61.22	22 46 10	3588.6	4.55	159.95
110.00	7 53 41	2068.32	-31.24	26.57	178.26	104.65	8 28 9	1468.3	-28.91	18.14
110.00	22 29 30	4022.15	11.28	152.24	171.65	57.52	23 36 32	3422.1	6.92	145.86

DIFFERENTIAL CORRECTIONS

TDE -.7093 TRA-1.3252 TC3 .4223 BAU .1763
RDE .1391 RRA .3862 RC3 -.5621 FAU .03925
FDE 1.6870 FRA 1.7386 FC3-1.8115 BSP 7000
BDE .7228 BRA 1.3803 BC3 .7031 FSP -898

MID-COURSE EXECUTION ACCURACY

SGT 2061.5 SGR 738.8 SG3 311.7
RRT -.8495 RRF .9051 RTF -.9296
SGB 2189.9 R23 -.1679 R13 .9401
SG1 2158.0 SG2 372.3 THA 162.53

ORBIT DETERMINATION ACCURACY

ST 1082.5 SR 242.5 SS 1351.8
CRT -.9817 CRS -.9205 CST .9770
LSA 1737.7 MSA 195.8 SSA 13.1
EL1 1108.4 EL2 45.1 ALF 167.57

LAUNCH DATE OCT 16 1965 FLIGHT TIME 122.00 ARRIVAL DATE FEB 15 1966

HELIOCENTRIC CONIC DISTANCE 316.196

RL 149.12 LAL .00 LOL 22.42 VL 26.763 GAL 2.72 AZL 85.22 HCA 135.35 SMA 124.77 ECC .20067 INC 4.7798 VI 29.881
RP 107.55 LAP 3.36 LOP 157.87 VP 37.472 GAP -8.46 AZP 93.40 TAL 169.03 TAP 304.38 RCA 99.73 APO 149.80 V2 35.234
RC 48.656 GL 31.15 GP -23.22 ZAL 65.85 ZAP 28.64 ETS 50.15 ZAE 140.25 ETE 305.00 ZAC 65.74 ETC 149.23 CLP -17.24

PLANETOCENTRIC CONIC

C3 18.541 VHL 4.306 DLA 15.09 RAL 313.53 RAD 6567.8 VEL 11.829 PTH 2.09 VHP 6.404 DPA -39.46 RAP 332.77 ECC 1.3051

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 38 12	2685.38	-27.52	73.51	178.77	96.93	5 22 57	2085.4	-26.28	65.06
90.00	20 35 46	4351.62	4.91	180.46	172.73	62.08	21 48 17	3751.6	1.14	173.81
100.00	6 7 44	2396.63	-28.80	52.07	178.58	98.37	6 47 41	1796.6	-27.34	43.57
100.00	21 48 55	4115.60	6.04	162.49	172.11	60.67	22 57 30	3515.6	2.09	155.93
110.00	7 34 15	2125.92	-32.15	30.81	177.87	102.29	8 9 41	1525.9	-30.12	22.18
110.00	22 38 53	3959.07	8.96	148.83	170.33	56.87	23 44 52	3359.1	4.53	142.54

DIFFERENTIAL CORRECTIONS

TDE -.7444 TRA-1.3008 TC3 .4618 BAU .1915
RDE .2202 RRA .4180 RC3 -.6193 FAU .04141
FDE 1.8894 FRA 1.8110 FC3-1.9334 BSP 7256
BDE .7763 BRA 1.3663 BC3 .7725 FSP -986

MID-COURSE EXECUTION ACCURACY

SGT 2086.4 SGR 837.9 SG3 338.2
RRT -.8780 RRF .9337 RTF -.9339
SGB 2248.3 R23 -.1793 R13 .9468
SG1 2216.4 SG2 377.5 THA 159.97

ORBIT DETERMINATION ACCURACY

ST 1127.1 SR 340.6 SS 1451.7
CRT -.9987 CRS -.9702 CST .9784
LSA 1859.2 MSA 192.8 SSA 12.2
EL1 1177.3 EL2 16.5 ALF 163.20

LAUNCH DATE OCT 16 1965 FLIGHT TIME 124.00 ARRIVAL DATE FEB 17 1966

HELIOCENTRIC CONIC DISTANCE 322.894

RL 149.12 LAL .00 LOL 22.42 VL 26.844 GAL 2.55 AZL 84.89 HCA 138.59 SMA 125.28 ECC .19524 INC 5.1136 VI 29.881
RP 107.57 LAP 3.38 LOP 161.12 VP 37.524 GAP -7.82 AZP 93.84 TAL 169.40 TAP 307.98 RCA 100.82 APO 149.74 V2 35.227
RC 50.208 GL 33.69 GP -25.89 ZAL 67.02 ZAP 32.00 ETS 49.34 ZAE 137.73 ETE 304.56 ZAC 67.83 ETC 148.86 CLP -19.50

PLANETOCENTRIC CONIC

C3 18.565 VHL 4.309 DLA 17.34 RAL 312.20 RAD 6567.8 VEL 11.830 PTH 2.10 VHP 6.162 DPA -41.59 RAP 335.20 ECC 1.3055

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 11 25	2768.54	-28.06	79.53	178.43	93.95	4 57 34	2168.5	-27.22	70.97
90.00	20 51 58	4269.07	2.27	175.83	171.82	61.77	22 3 7	3669.1	-1.53	169.21
100.00	5 42 48	2473.88	-29.44	57.73	178.30	95.46	6 24 1	1873.9	-28.37	49.09
100.00	22 3 17	4038.96	3.47	158.25	171.16	60.29	23 10 36	3439.0	-.51	151.72
110.00	7 13 5	2191.36	-32.99	35.73	177.76	99.50	7 49 37	1591.4	-31.33	26.90
110.00	22 49 28	3894.25	6.53	145.38	169.27	56.37	23 54 22	3294.2	2.06	139.14

DIFFERENTIAL CORRECTIONS

TDE -.7873 TRA-1.2783 TC3 .4835 BAU .2062
RDE .3196 RRA .4577 RC3 -.6758 FAU .04324
FDE 2.1191 FRA 1.8803 FC3-2.0163 BSP 7466
BDE .8497 BRA 1.3577 BC3 .8309 FSP -1070

MID-COURSE EXECUTION ACCURACY

SGT 2107.3 SGR 962.4 SG3 364.7
RRT -.8988 RRF .9549 RTF -.9373
SGB 2316.6 R23 -.1879 R13 .9534
SG1 2283.7 SG2 389.2 THA 156.97

ORBIT DETERMINATION ACCURACY

ST 1175.4 SR 466.3 SS 1557.8
CRT -.9984 CRS -.9884 CST .9801
LSA 1997.4 MSA 190.6 SSA 11.1
EL1 1264.3 EL2 24.1 ALF 158.38

LAUNCH DATE OCT 16 1965 FLIGHT TIME 126.00 ARRIVAL DATE FEB 19 1966

HELIOCENTRIC CONIC DISTANCE 329.572

RL	149.12	LAL	.00	LOL	22.42	VL	26.918	GAL	2.38	AZL	84.51	HCA	141.82	SMA	125.74	ECC	.19033	INC	5.4929	VI	29.881
RP	107.60	LAP	3.39	LOP	164.37	VP	37.570	GAP	-7.20	AZP	94.32	TAL	169.77	TAP	311.59	RCA	101.81	APO	149.68	V2	35.220
RC	51.850	GL	36.35	GP	-28.96	ZAL	68.25	ZAP	35.70	ETS	48.75	ZAE	135.04	ETE	303.68	ZAC	70.04	ETC	148.39	CLP	-21.85

PLANETOCENTRIC CONIC

C3	18.864	VHL	4.343	DLA	19.70	RAL	310.81	RAD	6567.8	VEL	11.843	PTH	2.10	VHP	5.962	DPA	-44.10	RAP	337.85	ECC	1.3105

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	3 41 2	2865.61	-28.31	86.62	178.31	90.41	4 28 48	2265.6	-27.96	77.97
90.00	21 11 14	4179.50	-.62	170.84	171.28	61.69	22 20 53	3579.5	-4.40	164.20
100.00	5 14 49	2563.21	-29.83	64.34	178.27	92.00	5 57 32	1963.2	-29.24	55.58
100.00	22 20 8	3957.13	.70	153.75	170.55	60.12	23 26 5	3357.1	-3.28	147.23
110.00	6 49 49	2265.99	-33.69	41.44	177.95	96.18	7 27 35	1666.0	-32.46	32.42
110.00	23 1 37	3827.12	3.98	141.85	168.50	56.02	24 5 25	3227.1	-.50	135.64

DIFFERENTIAL CORRECTIONS

TDE	-.8354	TRA	-1.2546	TC3	.4906	BAU	.2218
RDE	.4427	RRA	.5060	RC3	-.7297	FAU	.04465
FDE	2.3708	FRA	1.9374	FC3	-2.0490	BSP	7687
BDE	.9454	BRA	1.3528	BC3	.8793	FSP	-1149

MID-COURSE EXECUTION ACCURACY

SGT	2118.0	SGR	1116.0	SG3	389.5
RRT	-.9138	RRF	.9699	RTF	-.9403
SGB	2394.1	R23	-.1908	R13	.9602
SG1	2359.2	SG2	406.9	THA	153.44

ORBIT DETERMINATION ACCURACY

ST	1221.8	SR	621.8	SS	1664.9
CRT	-.9951	CRS	-.9954	CST	.9817
LSA	2148.4	MSA	189.1	SSA	10.1
EL1	1369.8	EL2	54.8	ALF	153.10

LAUNCH DATE OCT 16 1965 FLIGHT TIME 128.00 ARRIVAL DATE FEB 21 1966

HELIOCENTRIC CONIC DISTANCE 336.230

RL	149.12	LAL	.00	LOL	22.42	VL	26.984	GAL	2.23	AZL	84.07	HCA	145.05	SMA	126.17	ECC	.18589	INC	5.9306	VI	29.881
RP	107.62	LAP	3.39	LOP	167.62	VP	37.610	GAP	-6.60	AZP	94.87	TAL	170.13	TAP	315.18	RCA	102.72	APO	149.62	V2	35.212
RC	53.572	GL	39.13	GP	-32.50	ZAL	69.55	ZAP	39.77	ETS	48.31	ZAE	132.10	ETE	302.42	ZAC	72.40	ETC	147.85	CLP	-24.31

PLANETOCENTRIC CONIC

C3	19.491	VHL	4.415	DLA	22.16	RAL	309.34	RAD	6567.8	VEL	11.869	PTH	2.11	VHP	5.811	DPA	-47.02	RAP	340.86	ECC	1.3208

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	3 5 24	2982.06	-28.08	95.13	178.37	86.15	3 55 6	2382.1	-28.31	86.47
90.00	21 35 12	4078.51	-3.87	165.20	171.23	61.93	22 43 11	3478.5	-7.60	158.50
100.00	4 42 39	2668.47	-29.82	72.16	178.47	87.89	5 27 7	2068.5	-29.80	63.35
100.00	22 40 38	3867.33	-2.34	148.83	170.38	60.19	23 45 5	3267.3	-6.29	142.27
110.00	6 23 52	2351.79	-34.12	48.10	178.46	92.26	7 3 4	1751.8	-33.43	38.93
110.00	23 15 54	3756.78	1.30	138.18	168.11	55.84	24 18 31	3156.8	-3.19	131.97

DIFFERENTIAL CORRECTIONS

TDE	-.8884	TRA	-1.2306	TC3	.4808	BAU	.2380
RDE	.5973	RRA	.5642	RC3	-.7767	FAU	.04534
FDE	2.6365	FRA	1.9752	FC3	-2.0136	BSP	7937
BDE	1.0706	BRA	1.3538	BC3	.9134	FSP	-1216

MID-COURSE EXECUTION ACCURACY

SGT	2117.4	SGR	1302.4	SG3	410.1
RRT	-.9241	RRF	.9803	RTF	-.9426
SGB	2485.9	R23	-.1866	R13	.9671
SG1	2448.4	SG2	430.5	THA	149.34

ORBIT DETERMINATION ACCURACY

ST	1263.8	SR	810.9	SS	1768.0
CRT	-.9921	CRS	-.9982	CST	.9832
LSA	2311.9	MSA	188.6	SSA	9.0
EL1	1499.1	EL2	85.7	ALF	147.40

LAUNCH DATE OCT 16 1965 FLIGHT TIME 130.00 ARRIVAL DATE FEB 23 1966

HELIOCENTRIC CONIC DISTANCE 342.865

RL	149.12	LAL	.00	LOL	22.42	VL	27.043	GAL	2.10	AZL	83.56	HCA	148.27	SMA	126.55	ECC	.18191	INC	6.4449	VI	29.881
RP	107.64	LAP	3.38	LOP	170.86	VP	37.645	GAP	-6.02	AZP	95.49	TAL	170.48	TAP	318.75	RCA	103.53	APO	149.58	V2	35.204
RC	55.368	GL	42.02	GP	-36.55	ZAL	70.91	ZAP	44.22	ETS	47.94	ZAE	128.81	ETE	300.85	ZAC	74.96	ETC	147.26	CLP	-26.86

PLANETOCENTRIC CONIC

C3	20.535	VHL	4.532	DLA	24.74	RAL	307.80	RAD	6567.8	VEL	11.913	PTH	2.12	VHP	5.724	DPA	-50.37	RAP	344.41	ECC	1.3380

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	2 20 42	3130.02	-26.94	105.80	178.45	80.93	3 12 52	2530.0	-27.92	97.27
90.00	22 7 36	3955.38	-7.78	158.25	171.89	62.69	23 13 31	3355.4	-11.38	151.42
100.00	4 3 58	2797.09	-29.12	81.65	178.80	82.94	4 50 35	2197.1	-29.79	72.91
100.00	23 7 1	3763.54	-5.83	143.10	170.84	60.63	24 9 45	3163.5	-9.70	136.45
110.00	5 54 19	2451.84	-34.11	55.91	179.28	87.64	6 35 11	1851.8	-34.06	46.67
110.00	23 33 9	3681.55	-1.58	134.25	168.20	55.85	24 34 31	3081.6	-6.05	128.08

DIFFERENTIAL CORRECTIONS

TDE	-.9452	TRA	-1.2031	TC3	.4591	BAU	.2562
RDE	.7933	RRA	.6319	RC3	-.8127	FAU	.04513
FDE	2.9001	FRA	1.9785	FC3	-1.9025	BSP	8310
BDE	1.2340	BRA	1.3590	BC3	.9334	FSP	-1269

MID-COURSE EXECUTION ACCURACY

SGT	2099.2	SGR	1524.0	SG3	423.3
RRT	-.9311	RRF	.9872	RTF	-.9444
SGB	2594.1	R23	-.1744	R13	.9741
SG1	2553.5	SG2	457.1	THA	144.64

ORBIT DETERMINATION ACCURACY

ST	1296.5	SR	1037.4	SS	1858.9
CRT	-.9901	CRS	-.9993	CST	.9845
LSA	2485.4	MSA	188.4	SSA	7.8
EL1	1656.6	EL2	114.2	ALF	141.40

LAUNCH DATE OCT 16 1965 FLIGHT TIME 132.00 ARRIVAL DATE FEB 25 1966

HELIOCENTRIC CONIC DISTANCE 349.477

RL	149.12	LAL	.00	LOL	22.42	VL	27.096	GAL	1.98	AZL	82.94	HCA	151.50	SMA	126.90	ECC	.17835	INC	7.0621	VI	29.881
RP	107.67	LAP	3.36	LOP	174.10	VP	37.674	GAP	-5.46	AZP	96.21	TAL	170.80	TAP	322.30	RCA	104.27	APO	149.53	V2	35.195
RC	57.230	GL	45.04	GP	-41.15	ZAL	72.34	ZAP	49.05	ETS	47.56	ZAE	125.10	ETE	299.05	ZAC	77.76	ETC	146.67	CLP	-29.49

PLANETOCENTRIC CONIC

C3	22.137	VHL	4.705	DLA	27.42	RAL	306.17	RAD	6567.9	VEL	11.980	PTH	2.14	VHP	5.717	DPA	-54.14	RAP	348.81	ECC	1.3643

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	1 12 1	3357.37	-23.52	121.55	177.93	73.76	2 7 58	2757.4	-25.52	113.45
90.00	23 3 17	3764.19	-13.55	147.17	173.97	64.89	24 6 1	3164.2	-16.82	140.02
100.00	3 12 40	2968.45	-27.06	93.96	178.96	76.79	4 2 8	2368.4	-28.61	85.50
100.00	23 45 19	3628.35	-10.28	135.52	172.29	61.77	24 45 47	3028.3	-13.97	128.68
110.00	5 19 30	2571.53	-33.39	65.18	180.32	82.21	6 2 21	1971.5	-34.11	56.01
110.00	23 54 58	3598.03	-4.76	129.88	168.95	56.11	24 54 56	2998.0	-9.18	123.58

DIFFERENTIAL CORRECTIONS

TDE	-1.0109	TRA	-1.1793	TC3	.4140	BAU	.2736
RDE	1.0454	RRA	.7114	RC3	-.8266	FAU	.04335
FDE	3.1432	FRA	1.9429	FC3	-1.6954	BSP	8690
BDE	1.4542	BRA	1.3772	BC3	.9245	FSP	-1286

MID-COURSE EXECUTION ACCURACY

SGT	2069.9	SGR	1782.8	SG3	425.9
RRT	-.9347	RRF	.9917	RTF	-.9453
SGB	2731.8	R23	-.1560	R13	.9807
SG1	2687.9	SG2	488.1	THA	139.56

ORBIT DETERMINATION ACCURACY

ST	1323.3	SR	1306.5	SS	1931.7
CRT	-.9888	CRS	-.9998	CST	.9856
LSA	2674.6	MSA	188.9	SSA	6.7
EL1	1854.4	EL2	139.1	ALF	135.37

LAUNCH DATE OCT 16 1965 FLIGHT TIME 134.00 ARRIVAL DATE FEB 27 1966

HELIOCENTRIC CONIC DISTANCE 356.064

RL	149.12	LAL	.00	LOL	22.42	VL	27.143	GAL	1.88	AZL	82.18	HCA	154.71	SMA	127.21	ECC	.17519	INC	7.8216	V1	29.881
RP	107.70	LAP	3.33	LOP	177.34	VP	37.700	GAP	-4.91	AZP	97.08	TAL	171.10	TAP	325.81	RCA	104.93	APO	149.50	V2	35.186
RC	59.152	GL	48.18	GP	-46.34	ZAL	73.82	ZAP	54.23	ETS	47.11	ZAE	120.89	ETE	297.14	ZAC	80.84	ETC	146.14	CLP	-32.16

PLANETOCENTRIC CONIC

C3	24.538	VHL	4.954	DLA	30.22	RAL	304.43	RAD	6568.0	VEL	12.080	PTH	2.16	VHP	5.820	DPA	-58.24	RAP	354.56	ECC	1.4038

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
78.99	22 29 50	3872.40	-19.58	157.95	176.82	66.51	23 34 22	3272.4	-22.59	150.42
101.01	1 31 34	3299.41	-19.56	115.76	176.81	66.50	2 26 34	2699.4	-22.57	108.24
78.99	22 29 50	3872.40	-19.58	157.95	176.82	66.51	23 34 22	3272.4	-22.59	150.42
101.01	1 31 34	3299.41	-19.56	115.76	176.81	66.50	2 26 34	2699.4	-22.57	108.24
110.00	4 35 45	2722.22	-31.42	76.48	181.29	75.80	5 21 7	2122.2	-33.05	67.64
110.00	0 28 45	3497.58	-8.54	124.57	170.69	56.78	1 27 3	2897.6	-12.86	118.12

DIFFERENTIAL CORRECTIONS

TDE-1.0843	TRA-1.1567	TC3	.3552	BAU	.2905		
RDE 1.3712	RRA	.8006	RC3	-.8111	FAU	.03986	
FDE 3.3317	FRA 1.8530	FC3-1.4062		BSP	9159		
BDE 1.7482	BRA 1.4068	BC3	.8855	FSP	-1260		

MID-COURSE EXECUTION ACCURACY

SGT 2023.4	SGR 2076.0	SG3	413.8				
RRT -.9359	RRF .9945	RTF -.9455					
SGB 2898.9	R23 -.1322	R13 .9866					
SG1 2852.1	SG2 518.8	THA 134.21					

ORBIT DETERMINATION ACCURACY

ST 1337.5	SR 1618.5	SS 1973.5					
CRT -.9880	CRS -.9999	CST .9866					
LSA 2875.2	MSA 189.8	SSA 5.6					
EL1 2093.5	EL2 159.5	ALF 129.50					

LAUNCH DATE OCT 16 1965 FLIGHT TIME 136.00 ARRIVAL DATE MAR 1 1966

HELIOCENTRIC CONIC DISTANCE 362.623

RL	149.12	LAL	.00	LOL	22.42	VL	27.185	GAL	1.79	AZL	81.21	HCA	157.92	SMA	127.49	ECC	.17242	INC	8.7853	V1	29.881
RP	107.73	LAP	3.29	LOP	180.58	VP	37.720	GAP	-4.39	AZP	98.15	TAL	171.36	TAP	329.28	RCA	105.51	APO	149.47	V2	35.176
RC	61.127	GL	51.45	GP	-52.08	ZAL	75.38	ZAP	59.68	ETS	46.56	ZAE	116.12	ETE	295.29	ZAC	84.24	ETC	145.80	CLP	-34.77

PLANETOCENTRIC CONIC

C3	28.160	VHL	5.307	DLA	33.11	RAL	302.55	RAD	6568.1	VEL	12.228	PTH	2.20	VHP	6.073	DPA	-62.47	RAP	2.50	ECC	1.4634

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
72.08	21 34 34	4056.36	-20.29	172.24	178.02	63.26	22 42 10	3456.4	-23.71	164.85
107.92	2 11 48	3183.65	-20.28	107.36	178.01	63.25	3 4 52	2583.7	-23.70	99.98
72.08	21 34 34	4056.36	-20.29	172.24	178.02	63.26	22 42 10	3456.4	-23.71	164.85
107.92	2 11 48	3183.65	-20.28	107.36	178.01	63.25	3 4 52	2583.7	-23.70	99.98
110.00	3 29 31	2945.01	-26.64	92.04	181.17	67.75	4 18 36	2345.0	-29.42	83.95
110.00	1 19 57	3343.01	-14.18	116.14	174.46	58.57	2 15 40	2743.0	-18.24	109.38

DIFFERENTIAL CORRECTIONS

TDE-1.1691	TRA-1.1392	TC3	.2865	BAU	.3045		
RDE 1.7947	RRA	.8975	RC3	-.7565	FAU	.03447	
FDE 3.4280	FRA 1.7025	FC3-1.0598		BSP	9760		
BDE 2.1419	BRA 1.4502	BC3	.8089	FSP	-1186		

MID-COURSE EXECUTION ACCURACY

SGT 1960.0	SGR 2395.3	SG3	384.3				
RRT -.9348	RRF .9963	RTF -.9448					
SGB 3095.0	R23 -.1054	R13 .9914					
SG1 3046.2	SG2 547.6	THA 128.91					

ORBIT DETERMINATION ACCURACY

ST 1337.0	SR 1968.7	SS 1972.5					
CRT -.9874	CRS-1.0000	CST .9873					
LSA 3085.0	MSA 191.4	SSA 4.6					
EL1 2373.3	EL2 175.2	ALF 124.06					

LAUNCH DATE OCT 16 1965 FLIGHT TIME 138.00 ARRIVAL DATE MAR 3 1966

HELIOCENTRIC CONIC DISTANCE 369.151

RL	149.12	LAL	.00	LOL	22.42	VL	27.221	GAL	1.72	AZL	79.94	HCA	161.13	SMA	127.73	ECC	.17000	INC	10.0571	V1	29.881
RP	107.76	LAP	3.24	LOP	183.82	VP	37.737	GAP	-3.88	AZP	99.53	TAL	171.57	TAP	332.70	RCA	106.02	APO	149.45	V2	35.166
RC	63.151	GL	54.81	GP	-58.35	ZAL	77.03	ZAP	65.26	ETS	45.99	ZAE	110.76	ETE	293.76	ZAC	87.99	ETC	145.90	CLP	-37.09

PLANETOCENTRIC CONIC

C3	33.803	VHL	5.814	DLA	36.06	RAL	300.48	RAD	6568.3	VEL	12.457	PTH	2.25	VHP	6.545	DPA	-66.39	RAP	13.94	ECC	1.5563

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
66.67	20 54 23	4199.06	-20.39	183.49	179.79	59.59	22 4 22	3599.1	-24.28	176.34
113.33	2 35 27	3132.66	-20.38	103.42	179.79	59.58	3 27 40	2532.7	-24.26	96.27
66.67	20 54 23	4199.06	-20.39	183.49	179.79	59.59	22 4 22	3599.1	-24.28	176.34
113.33	2 35 27	3132.66	-20.38	103.42	179.79	59.58	3 27 40	2532.7	-24.26	96.27
66.67	20 54 23	4199.06	-20.39	183.49	179.79	59.59	22 4 22	3599.1	-24.28	176.34
113.33	2 35 27	3132.66	-20.38	103.42	179.79	59.58	3 27 40	2532.7	-24.26	96.27

DIFFERENTIAL CORRECTIONS

TDE-1.2786	TRA-1.1364	TC3	.2105	BAU	.3098		
RDE 2.3536	RRA	.9996	RC3	-.6524	FAU	.02716	
FDE 3.4047	FRA 1.4986	FC3	-.6956	BSP	10388		
BDE 2.6785	BRA 1.5135	BC3	.6855	FSP	-1052		

MID-COURSE EXECUTION ACCURACY

SGT 1888.6	SGR 2727.7	SG3	337.4				
RRT -.9311	RRF .9972	RTF -.9433					
SGB 3317.7	R23 -.0774	R13 .9950					
SG1 3267.5	SG2 575.2	THA 124.01					

ORBIT DETERMINATION ACCURACY

ST 1326.8	SR 2348.2	SS 1922.6					
CRT -.9869	CRS-1.0000	CST .9877					
LSA 3306.5	MSA 194.3	SSA 3.7					
EL1 2690.6	EL2 187.1	ALF 119.30					

LAUNCH DATE OCT 16 1965 FLIGHT TIME 140.00 ARRIVAL DATE MAR 5 1966

HELIOCENTRIC CONIC DISTANCE 375.644

RL	149.12	LAL	.00	LOL	22.42	VL	27.253	GAL	1.66	AZL	78.18	HCA	164.31	SMA	127.95	ECC	.16791	INC	11.8241	V1	29.881
RP	107.80	LAP	3.18	LOP	187.05	VP	37.750	GAP	-3.38	AZP	101.40	TAL	171.74	TAP	336.05	RCA	106.46	APO	149.43	V2	35.155
RC	65.219	GL	58.22	GP	-65.07	ZAL	78.77	ZAP	70.77	ETS	45.82	ZAE	104.82	ETE	293.10	ZAC	92.15	ETC	147.00	CLP	-38.60

PLANETOCENTRIC CONIC

C3	43.118	VHL	6.566	DLA	39.01	RAL	298.16	RAD	6568.6	VEL	12.825	PTH	2.33	VHP	7.357	DPA	-69.23	RAP	30.29	ECC	1.7096

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
61.96	20 21 3	4330.89	-19.55	193.68	182.18	55.54	21 33 14	3730.9	-23.93	186.89
118.04	2 50 17	3123.75	-19.53	102.12	182.17	55.53	3 42 21	2523.8	-23.91	95.33
61.96	20 21 3	4330.89	-19.55	193.68	182.18	55.54	21 33 14	3730.9	-23.93	186.89
118.04	2 50 17	3123.75	-19.53	102.12	182.17	55.53	3 42 21	2523.8	-23.91	95.33
61.96	20 21 3	4330.89	-19.55	193.68	182.18	55.54	21 33 14	3730.9	-23.93	186.89
118.04	2 50 17	3123.75	-19.53	102.12	182.17	55.53	3 42 21	2523.8	-23.91	95.33

DIFFERENTIAL CORRECTIONS

TDE-1.4459	TRA-1.1619	TC3	.1387	BAU	.2986		
RDE 3.1016	RRA 1.0941	RC3	-.4991	FAU	.01857		
FDE 3.2467	FRA 1.2519	FC3	-.3729	BSP	11124		
BDE 3.4220	BRA 1.5959	BC3	.5180	FSP	-879		

MID-COURSE EXECUTION ACCURACY

SGT 1824.1	SGR 3043.5	SG3	276.5				
RRT -.9253	RRF .9974	RTF -.9418					
SGB 3548.3	R23 -.0491	R13 .9974					
SG1 3496.8	SG2 602.2	THA 119.99					

ORBIT DETERMINATION ACCURACY

ST 1320.9	SR 2731.3	SS 1820.7					
CRT -.9863	CRS -.9999	CST .9883					
LSA 3532.8	MSA 198.5	SSA 2.9					
EL1 3027.6	EL2 196.3	ALF 115.62					

LAUNCH DATE OCT 16 1965 FLIGHT TIME 142.00 ARRIVAL DATE MAR 7 1966

HELIOCENTRIC CONIC DISTANCE 382.089

RL	149.12	LAL	.00	LOL	22.42	VL	27.280	GAL	1.62	AZL	75.54	HCA	167.48	SMA	128.13	ECC	.16615	INC	14.4590
RP	107.83	LAP	3.10	LOP	190.28	VP	37.759	GAP	-2.91	AZP	104.13	TAL	171.84	TAP	339.31	RCA	106.84	APO	149.42
RC	67.327	GL	61.53	GP	-72.17	ZAL	80.64	ZAP	75.97	ETS	47.72	ZAE	98.24	ETE	295.05	ZAC	96.82	ETC	150.90

V1	29.881																		
V2	35.143																		
CLP	-37.68																		

PLANETOCENTRIC CONIC

C3	59.996	VHL	7.746	DLA	41.79	RAL	295.53	RAD	6569.1	VEL	13.467	PTH	2.46	VHP	8.746	DPA	-69.85	RAP	51.06
ECC	1.9874																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
57.88	19 52 10	4464.59	-17.31	203.32	185.13	51.35	21 6 35	3864.6	-22.19	196.99
122.12	2 58 12	3154.20	-17.30	102.96	185.12	51.35	3 50 47	2554.2	-22.17	96.64
57.88	19 52 10	4464.59	-17.31	203.32	185.13	51.35	21 6 35	3864.6	-22.19	196.99
122.12	2 58 12	3154.20	-17.30	102.96	185.12	51.35	3 50 47	2554.2	-22.17	96.64
57.88	19 52 10	4464.59	-17.31	203.32	185.13	51.35	21 6 35	3864.6	-22.19	196.99
122.12	2 58 12	3154.20	-17.30	102.96	185.12	51.35	3 50 47	2554.2	-22.17	96.64

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-1.8256	TRA	-1.2714	TC3	.0796	BAU	.2527	SGT	1852.0	SGR	3283.9	SG3	209.5	ST	1402.4	SR	3062.4	SS	1680.2
RDE	4.1141	RRA	1.1493	RC3	-.3048	FAU	.00950	RRT	-.9218	RRF	.9964	RTF	-.9462	CRT	-.9870	CRS	-.9998	CST	.9903
FDE	2.9792	FRA	.9962	FC3	-.1371	BSP	11943	SGB	3770.2	R23	-.0202	R13	.9988	LSA	3758.5	MSA	205.3	SSA	2.3
BDE	4.5010	BRA	1.7139	BC3	.3150	FSP	-685	SG1	3716.4	SG2	634.5	THA	118.37	EL1	3362.0	EL2	205.2	ALF	114.42

LAUNCH DATE OCT 16 1965 FLIGHT TIME 144.00 ARRIVAL DATE MAR 9 1966

HELIOCENTRIC CONIC DISTANCE 388.463

RL	149.12	LAL	.00	LOL	22.42	VL	27.303	GAL	1.60	AZL	71.18	HCA	170.60	SMA	128.29	ECC	.16471	INC	18.8192
RP	107.87	LAP	3.02	LOP	193.51	VP	37.765	GAP	-2.46	AZP	108.58	TAL	171.85	TAP	342.44	RCA	107.16	APO	149.42
RC	69.470	GL	64.32	GP	-79.45	ZAL	82.63	ZAP	80.63	ETS	62.26	ZAE	90.77	ETE	310.15	ZAC	102.31	ETC	168.28

V1	29.881																		
V2	35.132																		
CLP	-27.26																		

PLANETOCENTRIC CONIC

C3	95.427	VHL	9.769	DLA	43.96	RAL	292.58	RAD	6569.9	VEL	14.723	PTH	2.66	VHP	11.244	DPA	-67.25	RAP	71.77
ECC	2.5705																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
54.86	19 28 1	4605.46	-13.20	212.16	188.51	47.68	20 44 47	4005.5	-18.50	206.35
125.14	2 58 48	3228.27	-13.18	105.88	188.50	47.68	3 52 36	2628.3	-18.49	100.07
54.86	19 28 1	4605.46	-13.20	212.16	188.51	47.68	20 44 47	4005.5	-18.50	206.35
125.14	2 58 48	3228.27	-13.18	105.88	188.50	47.68	3 52 36	2628.3	-18.49	100.07
54.86	19 28 1	4605.46	-13.20	212.16	188.51	47.68	20 44 47	4005.5	-18.50	206.35
125.14	2 58 48	3228.27	-13.18	105.88	188.50	47.68	3 52 36	2628.3	-18.49	100.07

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-3.7315	TRA	-1.7002	TC3	.0289	BAU	.1248	SGT	2590.8	SGR	2989.5	SG3	146.3	ST	2227.7	SR	2907.7	SS	1538.1
RDE	4.9445	RRA	.8620	RC3	-.0935	FAU	.00045	RRT	-.9465	RRF	.9882	RTF	-.9830	CRT	-.9934	CRS	-.9989	CST	.9977
FDE	2.6800	FRA	.7717	FC3	-.0041	BSP	12953	SGB	3955.9	R23	.0083	R13	.9992	LSA	3967.6	MSA	203.5	SSA	1.8
BDE	6.1946	BRA	1.9062	BC3	.0978	FSP	-503	SG1	3903.7	SG2	640.5	THA	130.69	EL1	3657.4	EL2	203.4	ALF	127.41

LAUNCH DATE OCT 16 1965 FLIGHT TIME 146.00 ARRIVAL DATE MAR 11 1966

HELIOCENTRIC CONIC DISTANCE 394.700

RL	149.12	LAL	.00	LOL	22.42	VL	27.323	GAL	1.62	AZL	62.67	HCA	173.61	SMA	128.42	ECC	.16360	INC	27.3298
RP	107.90	LAP	2.93	LOP	196.74	VP	37.768	GAP	-2.05	AZP	117.18	TAL	171.69	TAP	345.29	RCA	107.41	APO	149.43
RC	71.643	GL	65.35	GP	-83.37	ZAL	84.75	ZAP	84.49	ETS	154.57	ZAE	81.47	ETE	43.27	ZAC	109.61	ETC	264.51

V1	29.881																		
V2	35.120																		
CLP	33.62																		

PLANETOCENTRIC CONIC

C3	190.333	VHL	13.796	DLA	44.27	RAL	289.56	RAD	6571.0	VEL	17.654	PTH	2.98	VHP	16.340	DPA	-60.65	RAP	88.08
ECC	4.1324																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
54.42	19 14 17	4740.56	-7.18	218.68	192.15	46.19	20 33 18	4140.6	-12.67	213.19
125.58	2 48 29	3354.34	-7.17	111.58	192.14	46.19	3 44 23	2754.3	-12.66	106.09
54.42	19 14 17	4740.56	-7.18	218.68	192.15	46.19	20 33 18	4140.6	-12.67	213.19
125.58	2 48 29	3354.34	-7.17	111.58	192.14	46.19	3 44 23	2754.3	-12.66	106.09
54.42	19 14 17	4740.56	-7.18	218.68	192.15	46.19	20 33 18	4140.6	-12.67	213.19
125.58	2 48 29	3354.34	-7.17	111.58	192.14	46.19	3 44 23	2754.3	-12.66	106.09

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-4.1793	TRA	-.6735	TC3	-.0775	BAU	.3370	SGT	1791.9	SGR	3713.6	SG3	98.3	ST	1739.7	SR	3469.9	SS	1505.4
RDE	-8.2977	RRA	-2.3309	RC3	-.1074	FAU	-.01114	RRT	.9877	RRF	-.9988	RTF	-.9918	CRT	.9988	CRS	1.0000	CST	.9991
FDE	2.5522	FRA	.6680	FC3	.0507	BSP	12354	SGB	4123.4	R23	.0044	R13	-.9993	LSA	4162.5	MSA	77.4	SSA	1.8
BDE	9.2908	BRA	2.4262	BC3	.1325	FSP	-313	SG1	4115.6	SG2	252.6	THA	64.41	EL1	3880.8	EL2	77.4	ALF	63.39

LAUNCH DATE OCT 16 1965 FLIGHT TIME 148.00 ARRIVAL DATE MAR 13 1966

HELIOCENTRIC CONIC DISTANCE 400.496

RL	149.12	LAL	.00	LOL	22.42	VL	27.338	GAL	1.72	AZL	40.97	HCA	176.25	SMA	128.52	ECC	.16298	INC	49.0284
RP	107.94	LAP	2.83	LOP	199.96	VP	37.767	GAP	-1.77	AZP	138.97	TAL	171.09	TAP	347.34	RCA	107.57	APO	149.47
RC	73.845	GL	59.75	GP	-71.02	ZAL	86.85	ZAP	87.29	ETS	180.82	ZAE	66.40	ETE	69.49	ZAC	122.35	ETC	297.35

V1	29.881																		
V2	35.108																		
CLP	81.62																		

PLANETOCENTRIC CONIC

C3	570.430	VHL	23.884	DLA	38.08	RAL	287.89	RAD	6572.5	VEL	26.301	PTH	3.38	VHP	29.238	DPA	-46.60	RAP	99.99
ECC	10.3878																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
63.40	19 47 8	4755.29	-1.13	214.69	196.46	51.94	21 6 24	4155.3	-6.05	208.78
116.60	2 2 17	3588.73	-1.12	126.49	196.45	51.94	3 2 6	2988.7	-6.03	120.58
63.40	19 47 8	4755.29	-1.13	214.69	196.46	51.94	21 6 24	4155.3	-6.05	208.78
116.60	2 2 17	3588.73	-1.12	126.49	196.45	51.94	3 2 6	2988.7	-6.03	120.58
63.40	19 47 8	4755.29	-1.13	214.69	196.46	51.94	21 6 24	4155.3	-6.05	208.78
116.60	2 2 17	3588.73	-1.12	126.49	196.45	51.94	3 2 6	2988.7	-6.03	120.58

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-4.1101	TRA	.7375	TC3	-.0864	BAU	2.0061	SGT	1092.2	SGR	3886.6	SG3	69.6	ST	988.4	SR	3518.5	SS	1818.5
RDE	-14.5885	RRA	-3.9503	RC3	-.2485	FAU	-.03682	RRT	.8645	RRF	-.9996	RTF	-.8619	CRT	.9854	CRS	1.0000	CST	.9847
FDE	2.9834	FRA	.8395	FC3	.0559	BSP	12305	SGB	4037.2	R23	-.0374	R13	-.9989	LSA	4078.8	MSA	164.3	SSA	1.8
BDE	15.1564	BRA	4.0185	BC3	.2631	FSP	-224	SG1	4001.8	SG2	533.2	THA	76.09	EL1	3651.1	EL2	162.2	ALF	74.50

LAUNCH DATE OCT 16 1965 FLIGHT TIME 150.00 ARRIVAL DATE MAR 15 1966

HELIOCENTRIC CONIC DISTANCE 410.691

RL	149.12	LAL	.00	LOL	22.42	VL	27,350	GAL	1.02	AZL	164.36	HCA	182.82	SMA	128.60	ECC	.16047	INC	74.3579
RP	107.98	LAP	2.72	LOP	203.18	VP	37,764	GAP	-.35	AZP	15.66	TAL	174.66	TAP	357.48	RCA	107.97	APO	149.24
RC	76.070	GL	-49.46	GP	54.48	ZAL	88.39	ZAP	89.42	ETS	185.79	ZAE	62.84	ETE	294.80	ZAC	107.64	ETC	67.74

V1	29.881																		
V2	35.095																		
CLP	89.01																		

PLANETOCENTRIC CONIC

C3	1200.791	VHL	34.652	DLA	-68.71	RAL	318.93	RAD	6573.1	VEL	36.360	PTH	3.53	VHP	45.093	DPA	76.75	RAP	138.46

ECC	20.7620																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
24.36	7 47 49	2441.12	-.88	77.48	229.26	158.71	8 28 31	1841.1	6.57	74.98
155.64	18 9 15	696.04	-.87	289.01	229.28	158.71	18 20 51	96.0	6.58	286.51
24.36	7 47 49	2441.12	-.88	77.48	229.26	158.71	8 28 31	1841.1	6.57	74.98
155.64	18 9 15	696.04	-.87	289.01	229.28	158.71	18 20 51	96.0	6.58	286.51
24.36	7 47 49	2441.12	-.88	77.48	229.26	158.71	8 28 31	1841.1	6.57	74.98
155.64	18 9 15	696.04	-.87	289.01	229.28	158.71	18 20 51	96.0	6.58	286.51

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	7.0830	TRA	-1.6251	TC3	-.1298	BAU	4.3943	SGT	1651.8	SGR	3227.0	SG3	64.7	ST	1192.3	SR	1516.1	SS	1465.9
RDE	-8.0441	RRA	5.3138	RC3	.2410	FAU	-.07579	RRT	-.9100	RRF	.9991	RTF	-.9246	CRT	-.9516	CRS	-.9990	CST	.9644
FDE	-2.0432	FRA	1.2098	FC3	.0546	BSP	11291	SGB	3625.2	R23	-.0462	R13	.9987	LSA	2403.5	MSA	303.4	SSA	1.8
BDE	10.7180	BRA	5.5567	BC3	.2737	FSP	-207	SG1	3572.0	SG2	618.6	THA	115.81	ELI	1906.6	EL2	291.3	ALF	127.85

LAUNCH DATE OCT 16 1965 FLIGHT TIME 152.00 ARRIVAL DATE MAR 17 1966

HELIOCENTRIC CONIC DISTANCE 415.649

RL	149.12	LAL	.00	LOL	22.42	VL	27,359	GAL	1.30	AZL	123.20	HCA	184.75	SMA	128.67	ECC	.16053	INC	33.1989
RP	108.02	LAP	2.60	LOP	206.40	VP	37,759	GAP	-.29	AZP	56.89	TAL	173.18	TAP	357.93	RCA	108.01	APO	149.32
RC	78.316	GL	-64.71	GP	78.89	ZAL	86.15	ZAP	88.92	ETS	202.54	ZAE	85.97	ETE	307.58	ZAC	85.85	ETC	82.45

V1	29.881																		
V2	35.082																		
CLP	84.40																		

PLANETOCENTRIC CONIC

C3	274.382	VHL	16.564	DLA	-77.03	RAL	6.49	RAD	6571.6	VEL	19.892	PTH	3.13	VHP	22.230	DPA	76.12	RAP	267.23

ECC	5.5156																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
14.77	10 37 36	2349.89	6.57	80.99	274.95	166.95	11 16 46	1749.9	14.36	79.55
165.23	21 38 52	5849.55	6.58	260.62	274.98	166.95	23 16 22	5249.6	14.36	259.18
14.77	10 37 36	2349.89	6.57	80.99	274.95	166.95	11 16 46	1749.9	14.36	79.55
165.23	21 38 52	5849.55	6.58	260.62	274.98	166.95	23 16 22	5249.6	14.36	259.18
14.77	10 37 36	2349.89	6.57	80.99	274.95	166.95	11 16 46	1749.9	14.36	79.55
165.23	21 38 52	5849.55	6.58	260.62	274.98	166.95	23 16 22	5249.6	14.36	259.18

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	.1295	TRA	-1.6808	TC3	-.1272	BAU	.7752	SGT	2625.6	SGR	3511.5	SG3	84.8	ST	778.7	SR	1339.3	SS	657.2
RDE	2.5571	RRA	2.1743	RC3	.1688	FAU	-.01343	RRT	-.9633	RRF	.9979	RTF	-.9779	CRT	-.7117	CRS	-.9903	CST	.8024
FDE	.5437	FRA	.6181	FC3	.0424	BSP	13538	SGB	4384.6	R23	-.0345	R13	.9992	LSA	1607.0	MSA	499.8	SSA	.9
BDE	2.5604	BRA	2.7482	BC3	.2113	FSP	-269	SG1	4347.5	SG2	569.2	THA	126.49	ELI	1466.5	EL2	499.6	ALF	115.67

LAUNCH DATE OCT 16 1965 FLIGHT TIME 154.00 ARRIVAL DATE MAR 19 1966

HELIOCENTRIC CONIC DISTANCE 421.621

RL	149.12	LAL	.00	LOL	22.42	VL	27,365	GAL	1.40	AZL	109.03	HCA	187.61	SMA	128.71	ECC	.16041	INC	19.0326
RP	108.06	LAP	2.47	LOP	209.62	VP	37,751	GAP	.03	AZP	71.12	TAL	172.64	TAP	.25	RCA	108.06	APO	149.35
RC	80.581	GL	-64.90	GP	88.97	ZAL	83.25	ZAP	89.12	ETS	310.44	ZAE	96.88	ETE	53.75	ZAC	75.83	ETC	186.00

V1	29.881																		
V2	35.069																		
CLP	-31.33																		

PLANETOCENTRIC CONIC

C3	97.054	VHL	9.852	DLA	-74.34	RAL	11.92	RAD	6569.9	VEL	14.778	PTH	2.67	VHP	13,655	DPA	65.36	RAP	280.43

ECC	2.5973																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
17.86	11 5 32	2165.02	18.21	76.43	276.62	163.49	11 41 37	1565.0	25.86	74.33
162.14	21 54 20	5676.02	18.22	259.14	276.64	163.49	23 28 56	5076.0	25.87	257.03
17.86	11 5 32	2165.02	18.21	76.43	276.62	163.49	11 41 37	1565.0	25.86	74.33
162.14	21 54 20	5676.02	18.22	259.14	276.64	163.49	23 28 56	5076.0	25.87	257.03
17.86	11 5 32	2165.02	18.21	76.43	276.62	163.49	11 41 37	1565.0	25.86	74.33
162.14	21 54 20	5676.02	18.22	259.14	276.64	163.49	23 28 56	5076.0	25.87	257.03

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-1.7932	TRA	-.9729	TC3	.0027	BAU	.1092	SGT	2340.7	SGR	3906.4	SG3	127.1	ST	1217.7	SR	1359.6	SS	708.9
RDE	-1.2456	RRA	-1.7804	RC3	.0841	FAU	.00489	RRT	.9616	RRF	-.9939	RTF	-.9847	CRT	.8932	CRS	.9734	CST	.9725
FDE	.7362	FRA	.6524	FC3	-.0436	BSP	14214	SGB	4554.0	R23	.0334	R13	-.9989	LSA	1912.6	MSA	419.4	SSA	1.6
BDE	2.1834	BRA	2.0289	BC3	.0842	FSP	-409	SG1	4520.1	SG2	555.0	THA	59.54	EL1	1776.5	EL2	419.1	ALF	48.52

LAUNCH DATE OCT 16 1965 FLIGHT TIME 156.00 ARRIVAL DATE MAR 21 1966

HELIOCENTRIC CONIC DISTANCE 427.804

RL	149.12	LAL	.00	LOL	22.42	VL	27,368	GAL	1.47	AZL	102.75	HCA	190.66	SMA	128.73	ECC	.16040	INC	12.7458
RP	108.10	LAP	2.34	LOP	212.83	VP	37,742	GAP	.41	AZP	77.47	TAL	172.28	TAP	2.94	RCA	108.08	APO	149.38
RC	82.862	GL	-60.56	GP	81.83	ZAL	80.10	ZAP	90.19	ETS	348.47	ZAE	103.89	ETE	90.66	ZAC	69.23	ETC	219.56

V1	29.881																		
V2	35.056																		
CLP	-91.34																		

PLANETOCENTRIC CONIC

C3	48.041	VHL	6.931	DLA	-70.43	RAL	2.76	RAD	6568.8	VEL	13.016	PTH	2.37	VHP	9.863	DPA	57.93	RAP	284.27

ECC	1.7906																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
22.36	10 38 22	1988.52	28.33	69.06	261.70	157.63	11 11 31	1388.5	35.68	65.74
157.64	21 8 24	5520.42	28.34	256.38	261.72	157.63	22 40 25	4920.4	35.69	253.06
22.36	10 38 22	1988.52	28.33	69.06	261.70	157.63	11 11 31	1388.5	35.68	65.74
157.64	21 8 24	5520.42	28.34	256.38	261.72	157.63	22 40 25	4920.4	35.69	253.06
22.36	10 38 22	1988.52	28.33	69.06	261.70	157.63	11 11 31	1388.5	35.68	65.74
157.64	21 8 24	5520.42	28.34	256.38	261.72	157.63	22 40 25	4920.4	35.69	253.06

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-.6213	TRA	.2388	TC3	-.1388	BAU	.3550	SGT	805.0	SGR	4543.7	SG3	188.9	ST	543.2	SR	1457.6	SS	623.1
RDE	-.7122	RRA	-1.8006	RC3	.5350	FAU	.01725	RRT	-.6723	RRF	-.9987	RTF	.6479	CRT	.0840	CRS	.9943	CST	.1893
FDE	.4411	FRA	.8558	FC3	-.3108	BSP	14479	SGB	4614.5	R23	.0474	R13	-.9980	LSA	1585.1	MSA	543.5	SSA	2.2
BDE	.9451	BRA	1.8163	BC3	.5527	FSP	-613	SG1	4576.4	SG2	591.7	THA	96.91	EL1	1458.4	EL2	541.0	ALF	87.92

LAUNCH DATE OCT 16 1965 FLIGHT TIME 158.00 ARRIVAL DATE MAR 23 1966

HELIOCENTRIC CONIC DISTANCE 434.042

RL 149.12 LAL .00 LOL 22.42 VL 27.369 GAL 1.53 AZL 99.26 HCA 193.79 SMA 128.73 ECC .16054 INC 9.2619 V1 29.881
RP 108.14 LAP 2.20 LOP 216.04 VP 37.730 GAP .79 AZP 81.00 TAL 171.93 TAP 5.72 RCA 108.07 APO 149.40 V2 35.043
RC 85.157 GL -54.65 GP 75.66 ZAL 76.90 ZAP 92.08 ETS 359.28 ZAE 109.27 ETE 100.93 ZAC 63.81 ETC 226.01 CLP -98.43

PLANETOCENTRIC CONIC

C3 29.147 VHL 5.399 DLA -65.46 RAL 353.41 RAD 6568.2 VEL 12.269 PTH 2.21 VHP 7.820 DPA 51.79 RAP 285.96 ECC 1.4797

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
28.15	10 13 49	1845.00	34.76	59.04	244.93	149.64	10 44 34	1245.0	41.55	54.06
151.85	20 18 19	5412.22	34.77	252.61	244.94	149.63	21 48 32	4812.2	41.56	247.63
28.15	10 13 49	1845.00	34.76	59.04	244.93	149.64	10 44 34	1245.0	41.55	54.06
151.85	20 18 19	5412.22	34.77	252.61	244.94	149.63	21 48 32	4812.2	41.56	247.63
28.15	10 13 49	1845.00	34.76	59.04	244.93	149.64	10 44 34	1245.0	41.55	54.06
151.85	20 18 19	5412.22	34.77	252.61	244.94	149.63	21 48 32	4812.2	41.56	247.63

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.4923 TRA .5014 TC3 -.4688 BAU .4569 SGT 1473.6 SGR 4401.2 SG3 265.3 ST 648.8 SR 1279.4 SS 604.5
RDE -.1149 RRA-1.6606 RC3 1.0748 FAU .02905 RRT -.9193 RRF -.9987 RTF .9107 CRT -.5135 CRS .9944 CST -.4204
FDE .1681 FRA 1.1428 FC3 -.8627 BSP 14514 SGB 4641.4 R23 .0561 R13 -.9973 LSA 1456.5 MSA 549.6 SSA 2.9
BDE .5055 BRA 1.7346 BC3 1.1726 FSP -861 SG1 4608.2 SG2 554.0 THA 107.37 EL1 1331.0 EL2 535.2 ALF 107.52

LAUNCH DATE OCT 16 1965 FLIGHT TIME 160.00 ARRIVAL DATE MAR 25 1966

HELIOCENTRIC CONIC DISTANCE 440.293

RL 149.12 LAL .00 LOL 22.42 VL 27.368 GAL 1.61 AZL 97.05 HCA 196.94 SMA 128.72 ECC .16085 INC 7.0522 V1 29.881
RP 108.18 LAP 2.05 LOP 219.24 VP 37.716 GAP 1.18 AZP 83.25 TAL 171.57 TAP 8.51 RCA 108.02 APO 149.43 V2 35.030
RC 87.465 GL -48.20 GP 70.18 ZAL 73.79 ZAP 94.67 ETS 6.08 ZAE 113.69 ETE 107.86 ZAC 58.92 ETC 228.63 CLP-103.91

PLANETOCENTRIC CONIC

C3 20.300 VHL 4.506 DLA -59.78 RAL 346.32 RAD 6567.8 VEL 11.903 PTH 2.11 VHP 6.584 DPA 46.29 RAP 286.70 ECC 1.3341

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
34.87	10 1 41	1729.01	37.55	47.35	229.72	140.60	10 30 30	1129.0	43.53	40.77
145.13	19 33 56	5350.88	37.56	248.79	229.74	140.59	21 3 7	4750.9	43.54	242.20
34.87	10 1 41	1729.01	37.55	47.35	229.72	140.60	10 30 30	1129.0	43.53	40.77
145.13	19 33 56	5350.88	37.56	248.79	229.74	140.59	21 3 7	4750.9	43.54	242.20
34.87	10 1 41	1729.01	37.55	47.35	229.72	140.60	10 30 30	1129.0	43.53	40.77
145.13	19 33 56	5350.88	37.56	248.79	229.74	140.59	21 3 7	4750.9	43.54	242.20

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.4532 TRA .6686 TC3 -.9529 BAU .5088 SGT 1980.9 SGR 4199.7 SG3 349.4 ST 767.9 SR 1188.7 SS 636.7
RDE .0984 RRA-1.5582 RC3 1.6148 FAU .04082 RRT -.9585 RRF -.9984 RTF .9530 CRT -.7362 CRS .9927 CST -.6490
FDE .0138 FRA 1.4749 FC3-1.7409 BSP 14548 SGB 4643.4 R23 .0651 R13 -.9964 LSA 1471.0 MSA 494.2 SSA 3.7
BDE .4638 BRA 1.6956 BC3 1.8750 FSP -1141 SG1 4614.9 SG2 513.7 THA 114.65 EL1 1337.7 EL2 461.8 ALF 119.25

LAUNCH DATE OCT 16 1965 FLIGHT TIME 162.00 ARRIVAL DATE MAR 27 1966

HELIOCENTRIC CONIC DISTANCE 446.540

RL 149.12 LAL .00 LOL 22.42 VL 27.364 GAL 1.69 AZL 95.52 HCA 200.11 SMA 128.70 ECC .16133 INC 5.5217 V1 29.881
RP 108.22 LAP 1.90 LOP 222.45 VP 37.701 GAP 1.56 AZP 84.81 TAL 171.16 TAP 11.27 RCA 107.93 APO 149.46 V2 35.016
RC 89.783 GL -41.72 GP 65.10 ZAL 70.86 ZAP 97.83 ETS 11.29 ZAE 117.38 ETE 113.89 ZAC 54.34 ETC 229.84 CLP-108.89

PLANETOCENTRIC CONIC

C3 15.641 VHL 3.955 DLA -53.84 RAL 341.31 RAD 6567.6 VEL 11.706 PTH 2.06 VHP 5.785 DPA 41.17 RAP 286.97 ECC 1.2574

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
42.09	10 1 14	1628.89	37.52	35.32	217.15	131.93	10 28 23	1028.9	42.60	27.65
137.91	18 54 22	5329.73	37.53	246.22	217.16	131.92	20 23 11	4729.7	42.61	238.55
42.09	10 1 14	1628.89	37.52	35.32	217.15	131.93	10 28 23	1028.9	42.60	27.65
137.91	18 54 22	5329.73	37.53	246.22	217.16	131.92	20 23 11	4729.7	42.61	238.55
42.09	10 1 14	1628.89	37.52	35.32	217.15	131.93	10 28 23	1028.9	42.60	27.65
137.91	18 54 22	5329.73	37.53	246.22	217.16	131.92	20 23 11	4729.7	42.61	238.55

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.4024 TRA .8156 TC3-1.5488 BAU .5385 SGT 2418.7 SGR 3967.1 SG3 435.0 ST 837.9 SR 1099.8 SS 674.6
RDE .1235 RRA-1.4718 RC3 2.0571 FAU .05188 RRT -.9727 RRF -.9981 RTF .9681 CRT -.8219 CRS .9885 CST -.7264
FDE -.0109 FRA 1.8300 FC3-2.8716 BSP 14496 SGB 4646.3 R23 .0745 R13 -.9954 LSA 1471.0 MSA 450.5 SSA 4.6
BDE .4209 BRA 1.6827 BC3 2.5750 FSP -1419 SG1 4621.3 SG2 481.6 THA 121.05 EL1 1324.6 EL2 396.3 ALF 125.74

LAUNCH DATE OCT 16 1965 FLIGHT TIME 164.00 ARRIVAL DATE MAR 29 1966

HELIOCENTRIC CONIC DISTANCE 452.774

RL 149.12 LAL .00 LOL 22.42 VL 27.358 GAL 1.78 AZL 94.39 HCA 203.28 SMA 128.66 ECC .16198 INC 4.3944 V1 29.881
RP 108.26 LAP 1.74 LOP 225.65 VP 37.685 GAP 1.94 AZP 85.96 TAL 170.72 TAP 14.00 RCA 107.82 APO 149.50 V2 35.003
RC 92.112 GL -35.51 GP 60.31 ZAL 68.18 ZAP 101.41 ETS 15.49 ZAE 120.43 ETE 119.58 ZAC 50.02 ETC 230.18 CLP-113.55

PLANETOCENTRIC CONIC

C3 13.013 VHL 3.607 DLA -47.97 RAL 337.79 RAD 6567.5 VEL 11.593 PTH 2.03 VHP 5.250 DPA 36.34 RAP 287.00 ECC 1.2142

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
49.51	10 10 38	1533.82	35.68	23.66	207.45	124.49	10 36 12	933.8	39.91	15.48
130.49	18 16 57	5343.54	35.69	245.84	207.46	124.48	19 46 0	4743.5	39.92	237.66
49.51	10 10 38	1533.82	35.68	23.66	207.45	124.49	10 36 12	933.8	39.91	15.48
130.49	18 16 57	5343.54	35.69	245.84	207.46	124.48	19 46 0	4743.5	39.92	237.66
49.51	10 10 38	1533.82	35.68	23.66	207.45	124.49	10 36 12	933.8	39.91	15.48
130.49	18 16 57	5343.54	35.69	245.84	207.46	124.48	19 46 0	4743.5	39.92	237.66

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.3292 TRA .9544 TC3-2.1982 BAU .5614 SGT 2813.4 SGR 3703.8 SG3 514.8 ST 858.5 SR 995.5 SS 705.0
RDE .0811 RRA-1.3852 RC3 2.3619 FAU .06201 RRT -.9798 RRF -.9977 RTF .9755 CRT -.8652 CRS .9810 CST -.7516
FDE .0639 FRA 2.1757 FC3-4.1251 BSP 14516 SGB 4651.2 R23 .0833 R13 -.9942 LSA 1431.3 MSA 420.1 SSA 5.7
BDE .3391 BRA 1.6822 BC3 3.2266 FSP -1688 SG1 4629.4 SG2 449.9 THA 127.07 EL1 1270.6 EL2 337.3 ALF 130.13

LAUNCH DATE OCT 16 1965 FLIGHT TIME 166.00 ARRIVAL DATE MAR 31 1966

HELIOCENTRIC CONIC DISTANCE 458.994

RL 149.12 LAL .00 LOL 22.42 VL 27.350 GAL 1.89 AZL 93.53 HCA 206.46 SMA 128.60 ECC .16280 INC 3.5254 V1 29.881
RP 108.31 LAP 1.57 LOP 228.84 VP 37.667 GAP 2.32 AZP 86.84 TAL 170.23 TAP 16.69 RCA 107.67 APO 149.54 V2 34.990
RC 94.449 GL -29.74 GP 55.79 ZAL 65.78 ZAP 105.26 ETS 18.92 ZAE 122.87 ETE 125.06 ZAC 45.96 ETC 229.79 CLP-117.91

PLANETOCENTRIC CONIC

C3 11.483 VHL 3.389 DLA -42.40 RAL 335.34 RAD 6567.4 VEL 11.527 PTH 2.01 VHP 4.889 DPA 31.77 RAP 286.93 ECC 1.1890

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
57.02	10 29 12	1433.63	32.84	12.32	200.34	118.48	10 53 5	833.6	36.35	4.00
122.98	17 38 49	5390.74	32.85	248.09	200.35	118.47	19 8 40	4790.7	36.36	239.77
57.02	10 29 12	1433.63	32.84	12.32	200.34	118.48	10 53 5	833.6	36.35	4.00
122.98	17 38 49	5390.74	32.85	248.09	200.35	118.47	19 8 40	4790.7	36.36	239.77
57.02	10 29 12	1433.63	32.84	12.32	200.34	118.48	10 53 5	833.6	36.35	4.00
122.98	17 38 49	5390.74	32.85	248.09	200.35	118.47	19 8 40	4790.7	36.36	239.77

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.2371 TRA 1.0890 TC3-2.8383 BAU .5810 SGT 3174.6 SGR 3424.4 SG3 583.9 ST 850.7 SR 894.5 SS 740.2
RDE .0212 RRA-1.2992 RC3 2.5029 FAU .07043 RRT -.9837 RRF -.9970 RTF .9795 CRT -,8999 CRS .9703 CST -.7680
FDE .2102 FRA 2.4934 FC3-5.3100 BSP 14583 SGB 4669.6 R23 .0901 R13 -.9930 LSA 1384.2 MSA 394.6 SSA 7.0
BDE .2381 BRA 1.6953 BC3 3.7843 FSP -1926 SG1 4650.6 SG2 420.2 THA 132.80 EL1 1203.2 EL2 275.7 ALF 133.40

LAUNCH DATE OCT 16 1965 FLIGHT TIME 168.00 ARRIVAL DATE APR 2 1966

HELIOCENTRIC CONIC DISTANCE 465.196

RL 149.12 LAL .00 LOL 22.42 VL 27.340 GAL 2.00 AZL 92.83 HCA 209.64 SMA 128.54 ECC .16378 INC 2.8313 V1 29.881
RP 108.35 LAP 1.40 LOP 232.04 VP 37.648 GAP 2.69 AZP 87.54 TAL 169.69 TAP 19.33 RCA 107.49 APO 149.59 V2 34.977
RC 96.794 GL -24.49 GP 51.52 ZAL 63.65 ZAP 109.25 ETS 21.70 ZAE 124.75 ETE 130.32 ZAC 42.20 ETC 228.71 CLP-122.00

PLANETOCENTRIC CONIC

C3 10.599 VHL 3.256 DLA -37.24 RAL 333.64 RAD 6567.4 VEL 11.489 PTH 2.00 VHP 4.649 DPA 27.47 RAP 286.86 ECC 1.1744

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
64.73	10 58 13	1315.75	29.58	.51	195.32	113.74	11 20 9	715.7	32.52	352.24
115.27	16 56 14	5475.70	29.59	253.38	195.32	113.72	18 27 30	4875.7	32.53	245.11
64.73	10 58 13	1315.75	29.58	.51	195.32	113.74	11 20 9	715.7	32.52	352.24
115.27	16 56 14	5475.70	29.59	253.38	195.32	113.72	18 27 30	4875.7	32.53	245.11
64.73	10 58 13	1315.75	29.58	.51	195.32	113.74	11 20 9	715.7	32.52	352.24
115.27	16 56 14	5475.70	29.59	253.38	195.32	113.72	18 27 30	4875.7	32.53	245.11

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.1301 TRA 1.2220 TC3-3.4155 BAU .5995 SGT 3506.6 SGR 3141.0 SG3 638.7 ST 844.8 SR 809.9 SS 791.8
RDE -.0353 RRA-1.2154 RC3 2.4968 FAU .07677 RRT -.9860 RRF -.9962 RTF .9821 CRT -.9388 CRS .9585 CST -.8020
FDE .4005 FRA 2.7697 FC3-6.2706 BSP 14705 SGB 4707.7 R23 .0934 R13 -.9918 LSA 1365.0 MSA 365.2 SSA 8.6
BDE .1347 BRA 1.7235 BC3 4.2308 FSP -2118 SG1 4691.3 SG2 391.9 THA 138.19 EL1 1152.3 EL2 204.6 ALF 136.29

LAUNCH DATE OCT 16 1965 FLIGHT TIME 170.00 ARRIVAL DATE APR 4 1966

HELIOCENTRIC CONIC DISTANCE 471.378

RL 149.12 LAL .00 LOL 22.42 VL 27.329 GAL 2.13 AZL 92.26 HCA 212.83 SMA 128.46 ECC .16493 INC 2.2613 V1 29.881
RP 108.39 LAP 1.23 LOP 235.23 VP 37.628 GAP 3.06 AZP 88.10 TAL 169.11 TAP 21.94 RCA 107.28 APO 149.65 V2 34.964
RC 99.145 GL -19.80 GP 47.52 ZAL 61.75 ZAP 113.27 ETS 23.94 ZAE 126.10 ETE 135.31 ZAC 38.80 ETC 226.96 CLP-125.80

PLANETOCENTRIC CONIC

C3 10.124 VHL 3.182 DLA -32.55 RAL 332.49 RAD 6567.4 VEL 11.468 PTH 1.99 VHP 4.499 DPA 23.45 RAP 286.86 ECC 1.1666

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
73.25	11 43 19	1156.13	26.24	346.44	191.89	109.97	12 2 35	556.1	28.72	338.28
106.75	16 1 58	5616.84	26.26	262.97	191.89	109.96	17 35 35	5016.8	28.73	254.81
73.25	11 43 19	1156.13	26.24	346.44	191.89	109.97	12 2 35	556.1	28.72	338.28
106.75	16 1 58	5616.84	26.26	262.97	191.89	109.96	17 35 35	5016.8	28.73	254.81
110.00	15 2 25	5800.75	20.49	274.34	189.10	117.98	16 39 5	5200.8	24.07	267.02
110.00	17 42 3	5308.26	32.31	241.15	193.87	101.81	19 10 31	4708.3	33.60	232.15

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.0136 TRA 1.3528 TC3-3.9036 BAU .6192 SGT 3810.9 SGR 2861.9 SG3 677.8 ST 870.5 SR 741.8 SS 859.6
RDE -.0790 RRA-1.1339 RC3 2.3849 FAU .08104 RRT -.9872 RRF -.9950 RTF .9838 CRT -.9754 CRS .9479 CST -.8549
FDE .6071 FRA 2.9926 FC3-6.9302 BSP 14905 SGB 4765.8 R23 .0924 R13 -.9907 LSA 1391.9 MSA 330.8 SSA 10.3
BDE .0802 BRA 1.7652 BC3 4.5745 FSP -2261 SG1 4751.7 SG2 366.6 THA 143.19 EL1 1136.8 EL2 125.3 ALF 139.67

LAUNCH DATE OCT 16 1965 FLIGHT TIME 172.00 ARRIVAL DATE APR 6 1966

HELIOCENTRIC CONIC DISTANCE 477.541

RL 149.12 LAL .00 LOL 22.42 VL 27.317 GAL 2.27 AZL 91.78 HCA 216.01 SMA 128.38 ECC .16624 INC 1.7819 V1 29.881
RP 108.43 LAP 1.05 LOP 238.42 VP 37.606 GAP 3.43 AZP 88.56 TAL 168.49 TAP 24.49 RCA 107.03 APO 149.72 V2 34.951
RC 101.502 GL -15.63 GP 43.81 ZAL 60.06 ZAP 117.23 ETS 25.74 ZAE 127.00 ETE 139.95 ZAC 35.81 ETC 224.53 CLP-129.35

PLANETOCENTRIC CONIC

C3 9.926 VHL 3.151 DLA -28.31 RAL 331.75 RAD 6567.4 VEL 11.459 PTH 1.99 VHP 4.416 DPA 19.73 RAP 286.96 ECC 1.1634

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	13 46 27	749.03	22.82	314.98	189.59	107.23	13 58 56	149.0	24.97	306.96
90.00	13 52 56	728.01	23.24	313.58	189.73	106.65	14 5 4	128.0	25.30	305.51
100.00	13 49 38	738.73	17.74	312.16	187.53	114.46	14 1 57	138.7	20.89	304.79
100.00	16 32 27	5501.59	28.54	255.00	191.09	99.30	18 4 8	4901.6	29.53	246.34
110.00	13 49 40	738.63	12.76	309.39	184.76	121.98	14 1 59	138.6	16.90	302.72
110.00	18 48 54	5074.46	34.16	223.20	191.70	91.37	20 13 28	4474.5	33.97	213.95

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE .1118 TRA 1.4853 TC3-4.2772 BAU .6378 SGT 4088.9 SGR 2594.5 SG3 700.6 ST 946.1 SR 687.6 SS 940.7
RDE -.1111 RRA-1.0585 RC3 2.1930 FAU .08287 RRT -.9873 RRF -.9934 RTF .9847 CRT -.9964 CRS .9397 CST -.9086
FDE .8174 FRA 3.1666 FC3-7.2281 BSP 15091 SGB 4842.6 R23 .0880 R13 -.9898 LSA 1471.4 MSA 296.1 SSA 12.1
BDE .1576 BRA 1.8239 BC3 4.8066 FSP -2339 SG1 4830.0 SG2 348.5 THA 147.75 EL1 1168.7 EL2 47.2 ALF 144.02

LAUNCH DATE OCT 16 1965 FLIGHT TIME 174.00 ARRIVAL DATE APR 8 1966

HELIOCENTRIC CONIC DISTANCE 483.683

RL	149.12	LAL	.00	LOL	22.42	VL	27,303	GAL	2.42	AZL	91.37	HCA	219.19	SMA	128.28	ECC	.16772	INC	1.3711	VI	29.881
RP	108.46	LAP	.87	LOP	241.60	VP	37,585	GAP	3.79	AZP	88.94	TAL	167.82	TAP	27.00	RCA	106.77	APO	149.80	V2	34.939
RC	103.862	GL	-11.96	GP	40.39	ZAL	58.52	ZAP	121.06	ETS	27.17	ZAE	127.50	ETE	144.20	ZAC	33.27	ETC	221.45	CLP	-132.64

PLANETOCENTRIC CONIC

C3	9.926	VHL	3.151	DLA	-24.52	RAL	331.33	RAD	6567.4	VEL	11.459	PTH	1.99	VHP	4.385	DPA	16.32	RAP	287.20	ECC	1.1634

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 39 47	1163.81	12.27	340.79	185.38	115.72	11 59 10	563.8	15.63	333.73
90.00	15 56 15	5601.28	28.18	262.27	189.70	92.94	17 29 36	5001.3	28.29	253.61
100.00	12 39 52	969.82	10.74	325.74	184.59	118.06	12 56 2	369.8	14.41	318.88
100.00	17 38 50	5270.51	29.89	237.99	189.75	90.47	19 6 41	4670.5	29.63	229.20
110.00	13 6 55	884.96	7.37	317.28	182.56	123.47	13 21 40	285.0	11.72	310.89
110.00	19 28 16	4928.13	33.81	211.79	189.56	84.64	20 50 25	4328.1	32.70	202.73

DIFFERENTIAL CORRECTIONS

TDE	.2394	TRA	1.6157	TC3	-4.5555	BAU	.6590												
RDE	-.1285	RRA	-.9868	RC3	1.9764	FAU	.08319												
FDE	1.0060	FRA	3.2836	FC3	-7.2553	BSP	15412												
BDE	.2717	BRA	1.8932	BC3	4.9658	FSP	-2382												

MID-COURSE EXECUTION ACCURACY

SGT	4342.8	SGR	2344.4	SG3	708.9														
RRT	-.9868	RRF	-.9912	RTF	.9855														
SGB	4935.2	R23	.0795	R13	-.9891														
SG1	4923.8	SG2	334.7	THA	151.81														

ORBIT DETERMINATION ACCURACY

ST	1065.7	SR	637.3	SS	1019.5														
CRT	-.9987	CRS	.9316	CST	-.9470														
LSA	1584.3	MSA	266.5	SSA	13.6														
EL1	1241.4	EL2	28.1	ALF	149.14														

LAUNCH DATE OCT 16 1965 FLIGHT TIME 176.00 ARRIVAL DATE APR 10 1966

HELIOCENTRIC CONIC DISTANCE 489.803

RL	149.12	LAL	.00	LOL	22.42	VL	27.287	GAL	2.59	AZL	91.01	HCA	222.37	SMA	128.18	ECC	.16936	INC	1.0127	VI	29.881
RP	108.50	LAP	.68	LOP	244.78	VP	37,562	GAP	4.15	AZP	89.25	TAL	167.11	TAP	29.47	RCA	106.47	APO	149.88	V2	34.926
RC	106.225	GL	-8.73	GP	37.26	ZAL	57.10	ZAP	124.72	ETS	28.31	ZAE	127.68	ETE	148.02	ZAC	31.20	ETC	217.80	CLP	-135.70

PLANETOCENTRIC CONIC

C3	10.078	VHL	3.175	DLA	-21.13	RAL	331.16	RAD	6567.4	VEL	11.466	PTH	1.99	VHP	4.395	DPA	13.22	RAP	287.58	ECC	1.1659

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 51 9	1336.88	6.98	350.75	183.87	117.51	11 13 26	736.9	10.61	343.95
90.00	16 43 29	5434.28	28.15	250.07	188.64	86.83	18 14 3	4834.3	27.42	241.48
100.00	11 58 12	1120.50	5.80	334.20	183.23	119.38	12 16 53	520.5	9.67	327.55
100.00	18 19 7	5125.89	29.49	227.27	188.52	84.85	19 44 33	4525.9	28.46	218.62
110.00	12 36 16	1001.17	2.97	323.40	181.48	124.07	12 52 58	401.2	7.42	317.14
110.00	19 57 32	4817.98	32.79	203.36	188.00	79.75	21 17 50	4218.0	31.03	194.58

DIFFERENTIAL CORRECTIONS

TDE	.3703	TRA	1.7477	TC3	-4.7352	BAU	.6801												
RDE	-.1357	RRA	-.9216	RC3	1.7484	FAU	.08189												
FDE	1.1718	FRA	3.3562	FC3	-7.0348	BSP	15755												
BDE	.3944	BRA	1.9758	BC3	5.0477	FSP	-2382												

MID-COURSE EXECUTION ACCURACY

SGT	4574.0	SGR	2114.9	SG3	705.1														
RRT	-.9854	RRF	-.9884	RTF	.9860														
SGB	5039.3	R23	.0691	R13	-.9885														
SG1	5028.6	SG2	327.7	THA	155.39														

ORBIT DETERMINATION ACCURACY

ST	1218.2	SR	589.4	SS	1093.1														
CRT	-.9882	CRS	.9224	CST	-.9701														
LSA	1722.2	MSA	244.8	SSA	14.7														
EL1	1350.8	EL2	81.4	ALF	154.35														

LAUNCH DATE OCT 16 1965 FLIGHT TIME 178.00 ARRIVAL DATE APR 12 1966

HELIOCENTRIC CONIC DISTANCE 495.901

RL	149.12	LAL	.00	LOL	22.42	VL	27.271	GAL	2.77	AZL	90.70	HCA	225.54	SMA	128.06	ECC	.17118	INC	.6959	VI	29.881
RP	108.54	LAP	.50	LOP	247.97	VP	37,539	GAP	4.52	AZP	89.51	TAL	166.36	TAP	31.90	RCA	106.14	APO	149.99	V2	34.914
RC	108.588	GL	-5.90	GP	34.43	ZAL	55.78	ZAP	128.18	ETS	29.24	ZAE	127.63	ETE	151.40	ZAC	29.62	ETC	213.68	CLP	-138.54

PLANETOCENTRIC CONIC

C3	10.354	VHL	3.218	DLA	-18.10	RAL	331.18	RAD	6567.4	VEL	11.478	PTH	2.00	VHP	4.439	DPA	10.41	RAP	288.12	ECC	1.1704

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 17 25	1467.81	2.80	358.11	183.32	118.19	10 41 52	867.8	6.55	351.43
90.00	17 17 26	5314.15	27.39	241.36	187.94	82.54	18 46 0	4714.2	26.08	232.94
100.00	11 28 1	1240.00	1.78	340.79	182.75	119.84	11 48 41	640.0	5.74	334.24
100.00	18 49 31	5017.20	28.56	219.33	187.75	80.77	20 13 8	4417.2	26.99	210.88
110.00	12 12 46	1099.74	-.80	328.54	181.14	124.17	12 31 6	499.7	3.69	322.34
110.00	20 21 15	4730.22	31.54	196.83	187.04	76.07	21 40 5	4130.2	29.30	188.33

DIFFERENTIAL CORRECTIONS

TDE	.5021	TRA	1.8809	TC3	-4.8333	BAU	.7017												
RDE	-.1344	RRA	-.8628	RC3	1.5290	FAU	.07947												
FDE	1.3089	FRA	3.3895	FC3	-6.6450	BSP	16151												
BDE	.5198	BRA	2.0693	BC3	5.0694	FSP	-2352												

MID-COURSE EXECUTION ACCURACY

SGT	4784.3	SGR	1907.3	SG3	691.4														
RRT	-.9830	RRF	-.9846	RTF	.9862														
SGB	5150.5	R23	.0581	R13	-.9880														
SG1	5140.2	SG2	326.4	THA	158.51														

ORBIT DETERMINATION ACCURACY

ST	1387.6	SR	541.5	SS	1155.5														
CRT	-.9705	CRS	.9103	CST	-.9830														
LSA	1871.0	MSA	230.5	SSA	15.4														
EL1	1484.5	EL2	122.0	ALF	159.11														

LAUNCH DATE OCT 16 1965 FLIGHT TIME 180.00 ARRIVAL DATE APR 14 1966

HELIOCENTRIC CONIC DISTANCE 501.977

RL	149.12	LAL	.00	LOL	22.42	VL	27.253	GAL	2.97	AZL	90.41	HCA	228.72	SMA	127.95	ECC	.17318	INC	.4119	VI	29.881
RP	108.58	LAP	.31	LOP	251.14	VP	37,515	GAP	4.88	AZP	89.73	TAL	165.57	TAP	34.29	RCA	105.79	APO	150.10	V2	34.903
RC	110.951	GL	-3.42	GP	31.86	ZAL	54.52	ZAP	131.44	ETS	30.01	ZAE	127.39	ETE	154.37	ZAC	28.53	ETC	209.25	CLP	-141.19

PLANETOCENTRIC CONIC

C3	10.735	VHL	3.276	DLA	-15.39	RAL	331.37	RAD	6567.4	VEL	11.494	PTH	2.00	VHP	4.511	DPA	7.90	RAP	288.81	ECC	1.1767

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 51 43	1576.51	-.70	4.17	183.40	118.31	10 17 59	976.5	3.09	357.54
90.00	17 44 37	5220.11	26.38	234.67	187.67	79.33	19 11 37	4620.1	24.64	226.43
100.00	11 4 38	1341.22	-1.66	346.34	182.87	119.85	11 26 59	741.2	2.33	339.82
100.00	19 14 23	4930.62	27.45	213.13	187.42	77.69	20 36 34	4330.6	25.48	204.88
110.00	11 54 8	1186.19	-4.10	333.06	181.34	123.97	12 13 54	586.2	.39	326.85
110.00	20 41 23	4658.42	30.24	191.63	186.60	73.25	21 59 1	4058.4	27.65	183.40

DIFFERENTIAL CORRECTIONS

TDE	.6355	TRA	2.0178	TC3	-4.8582	BAU	.7227												
RDE	-.1273	RRA	-.8110	RC3	1.3252	FAU	.07612												
FDE	1.4202	FRA	3.3954	FC3	-6.1392	BSP	16543												
BDE	.6481	BRA	2.1746	BC3	5.0356	FSP	-2294												

MID-COURSE EXECUTION ACCURACY

SGT	4976.3	SGR	1722.6	SG3	670.8														
RRT	-.9794	RRF	-.9799	RTF	.9863														
SGB	5266.0	R23	.0480	R13	-.9875														
SG1	5255.7	SG2	329.7	THA	161.20														

ORBIT DETERMINATION ACCURACY

ST	1565.2	SR	494.9	SS	1207.3														
CRT	-.9480	CRS	.8944	CST	-.9900														
LSA	2025.5	MSA	221.9	SSA	15.7														
EL1	1634.6	EL2	150.8	ALF	163.16														

LAUNCH DATE OCT 16 1965 FLIGHT TIME 182.00 ARRIVAL DATE APR 16 1966

DISTANCE 508.030

HELIOCENTRIC CONIC

RL 149.12 LAL .00 LOL 22.42 VL 27.234 GAL 3.18 AZL 90.15 HCA 231.90 SMA 127.82 ECC .17535 INC .1540 VI 29.881
RP 108.61 LAP .12 LOP 254.32 VP 37.491 GAP 5.24 AZP 89.90 TAL 164.75 TAP 36.65 RCA 105.41 APO 150.24 V2 34.892
RC 113.313 GL -1.26 GP 29.55 ZAL 53.32 ZAP 134.48 ETS 30.67 ZAE 127.04 ETE 156.94 ZAC 27.90 ETC 204.68 CLP-143.65

PLANETOCENTRIC CONIC

C3 11.212 VHL 3.348 DLA -12.96 RAL 331.69 RAD 6567.4 VEL 11.515 PTH 2.01 VHP 4.605 DPA 5.66 RAP 289.64 ECC 1.1845

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 31 18	1670.72	-3.73	9.43	183.94	118.09	9 59 8	1070.7	.05	2.80
90.00	18 7 36	5143.73	25.31	229.33	187.77	76.86	19 33 19	4543.7	23.25	221.27
100.00	10 45 55	1429.96	-4.65	351.23	183.43	119.56	11 9 45	830.0	-.68	344.69
100.00	19 35 40	4859.72	26.33	208.16	187.49	75.30	20 56 39	4259.7	24.05	200.10
110.00	11 39 2	1263.61	-7.03	337.14	181.96	123.54	12 0 5	663.6	-2.57	330.89
110.00	20 59 2	4598.84	29.00	187.44	186.58	71.05	22 15 41	3998.8	26.14	179.43

DIFFERENTIAL CORRECTIONS

TDE .7724 TRA 2.1610 TC3-4.8157 BAU .7417
RDE -.1169 RRA -.7665 RC3 1.1389 FAU .07196
FDE 1.5118 FRA 3.3839 FC3-5.5569 BSP 16885
BDE .7812 BRA 2.2929 BC3 4.9486 FSP -2208

MID-COURSE EXECUTION ACCURACY

SGT 5152.3 SGR 1559.8 SG3 645.7
RRT -.9744 RRF -.9739 RTF .9861
SGB 5383.2 R23 .0399 R13 -.9870
SG1 5372.7 SG2 336.2 THA 163.50

ORBIT DETERMINATION ACCURACY

ST 1747.0 SR 451.1 SS 1250.8
CRT -.9213 CRS .8740 CST -.9940
LSA 2184.7 MSA 217.0 SSA 15.9
EL1 1796.2 EL2 170.6 ALF 166.49

LAUNCH DATE OCT 16 1965 FLIGHT TIME 184.00 ARRIVAL DATE APR 18 1966

DISTANCE 514.059

HELIOCENTRIC CONIC

RL 149.12 LAL .00 LOL 22.42 VL 27.215 GAL 3.40 AZL 89.92 HCA 235.07 SMA 127.69 ECC .17772 INC .0804 VI 29.881
RP 108.64 LAP -.07 LOP 257.49 VP 37.467 GAP 5.61 AZP 90.05 TAL 163.89 TAP 38.96 RCA 105.00 APO 150.38 V2 34.881
RC 115.673 GL .64 GP 27.47 ZAL 52.15 ZAP 137.33 ETS 31.26 ZAE 126.61 ETE 159.17 ZAC 27.69 ETC 200.17 CLP-145.96

PLANETOCENTRIC CONIC

C3 11.780 VHL 3.432 DLA -10.78 RAL 332.12 RAD 6567.4 VEL 11.540 PTH 2.01 VHP 4.720 DPA 3.66 RAP 290.61 ECC 1.1939

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 14 39	1754.51	-6.40	14.15	184.83	117.64	9 43 54	1154.5	-2.65	7.47
90.00	18 27 40	5080.51	24.26	225.00	188.20	74.93	19 52 20	4480.5	21.96	217.08
100.00	10 30 37	1509.45	-7.30	355.64	184.34	119.07	10 55 46	909.5	-3.37	349.06
100.00	19 54 23	4800.80	25.25	204.12	187.90	73.44	21 14 24	4200.8	22.73	196.22
110.00	11 26 39	1333.97	-9.66	340.89	182.91	122.95	11 48 53	734.0	-5.25	334.58
110.00	21 14 50	4549.04	27.85	184.02	186.92	69.33	22 30 39	3949.0	24.78	176.19

DIFFERENTIAL CORRECTIONS

TDE .9071 TRA 2.3057 TC3-4.7351 BAU .7615
RDE -.1020 RRA -.7265 RC3 .9796 FAU .06773
FDE 1.5751 FRA 3.3506 FC3-4.9776 BSP 17292
BDE .9128 BRA 2.4174 BC3 4.8354 FSP -2124

MID-COURSE EXECUTION ACCURACY

SGT 5311.3 SGR 1416.1 SG3 617.1
RRT -.9680 RRF -.9665 RTF .9859
SGB 5496.8 R23 .0324 R13 -.9865
SG1 5486.0 SG2 344.0 THA 165.47

ORBIT DETERMINATION ACCURACY

ST 1919.4 SR 408.1 SS 1279.3
CRT -.8874 CRS .8454 CST -.9963
LSA 2332.6 MSA 214.9 SSA 15.8
EL1 1953.6 EL2 184.9 ALF 169.22

LAUNCH DATE OCT 16 1965 FLIGHT TIME 186.00 ARRIVAL DATE APR 20 1966

DISTANCE 520.063

HELIOCENTRIC CONIC

RL 149.12 LAL .00 LOL 22.42 VL 27.194 GAL 3.64 AZL 89.70 HCA 238.24 SMA 127.55 ECC .18029 INC .2991 VI 29.881
RP 108.68 LAP -.25 LOP 260.67 VP 37.443 GAP 5.98 AZP 90.16 TAL 163.00 TAP 41.25 RCA 104.56 APO 150.55 V2 34.870
RC 118.029 GL 2.30 GP 25.61 ZAL 51.01 ZAP 139.98 ETS 31.81 ZAE 126.14 ETE 161.09 ZAC 27.87 ETC 195.88 CLP-148.12

PLANETOCENTRIC CONIC

C3 12.438 VHL 3.527 DLA -8.81 RAL 332.64 RAD 6567.5 VEL 11.568 PTH 2.02 VHP 4.851 DPA 1.90 RAP 291.71 ECC 1.2047

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 0 53	1830.34	-8.77	18.46	186.00	117.03	9 31 23	1230.3	-5.08	11.72
90.00	18 45 35	5027.64	23.28	221.44	188.91	73.41	20 9 22	4427.6	20.78	213.65
100.00	10 17 56	1581.76	-9.67	359.70	185.52	118.42	10 44 18	981.8	-5.80	353.05
100.00	20 11 12	4751.46	24.25	200.79	188.58	71.96	21 30 24	4151.5	21.55	193.03
110.00	11 16 24	1398.66	-12.03	344.40	184.12	122.24	11 39 43	798.7	-7.69	338.00
110.00	21 29 13	4507.32	26.81	181.22	187.54	67.96	22 44 21	3907.3	23.58	173.54

DIFFERENTIAL CORRECTIONS

TDE 1.0423 TRA 2.4552 TC3-4.6171 BAU .7804
RDE -.0850 RRA -.6917 RC3 .8417 FAU .06333
FDE 1.6194 FRA 3.3056 FC3-4.4081 BSP 17696
BDE 1.0457 BRA 2.5508 BC3 4.6932 FSP -2032

MID-COURSE EXECUTION ACCURACY

SGT 5455.8 SGR 1290.2 SG3 586.8
RRT -.9600 RRF -.9574 RTF .9855
SGB 5606.3 R23 .0263 R13 -.9860
SG1 5595.2 SG2 352.5 THA 167.16

ORBIT DETERMINATION ACCURACY

ST 2044.0 SR 368.5 SS 1297.8
CRT -.8447 CRS .8073 CST -.9977
LSA 2473.3 MSA 214.3 SSA 15.7
EL1 2107.3 EL2 195.0 ALF 171.43

LAUNCH DATE OCT 16 1965 FLIGHT TIME 188.00 ARRIVAL DATE APR 22 1966

DISTANCE 526.042

HELIOCENTRIC CONIC

RL 149.12 LAL .00 LOL 22.42 VL 27.173 GAL 3.90 AZL 89.50 HCA 241.41 SMA 127.41 ECC .18307 INC .5026 VI 29.881
RP 108.71 LAP -.44 LOP 263.84 VP 37.418 GAP 6.35 AZP 90.24 TAL 162.08 TAP 43.50 RCA 104.09 APO 150.74 V2 34.860
RC 120.382 GL 3.76 GP 23.93 ZAL 49.90 ZAP 142.45 ETS 32.36 ZAE 125.65 ETE 162.74 ZAC 28.38 ETC 191.92 CLP-150.16

PLANETOCENTRIC CONIC

C3 13.188 VHL 3.632 DLA -7.03 RAL 333.24 RAD 6567.5 VEL 11.601 PTH 2.03 VHP 4.998 DPA .36 RAP 292.93 ECC 1.2170

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 49 22	1899.89	-10.90	22.46	187.41	116.30	9 21 2	1299.9	-7.28	15.65
90.00	19 1 50	4983.23	22.38	218.49	189.86	72.19	20 24 54	4383.2	19.74	210.81
100.00	10 7 21	1648.32	-11.80	3.49	186.94	117.66	10 34 49	1048.3	-8.01	356.76
100.00	20 26 33	4710.03	23.34	198.05	189.51	70.78	21 45 3	4110.0	20.51	190.40
110.00	11 7 55	1458.71	-14.19	347.72	185.55	121.43	11 32 13	858.7	-9.92	341.21
110.00	21 42 28	4472.41	25.90	178.92	188.42	66.87	22 57 1	3872.4	22.54	171.37

DIFFERENTIAL CORRECTIONS

TDE 1.1789 TRA 2.6116 TC3-4.4671 BAU .7978
RDE -.0667 RRA -.6619 RC3 .7225 FAU .05884
FDE 1.6492 FRA 3.2554 FC3-3.8624 BSP 18072
BDE 1.1808 BRA 2.6942 BC3 4.5252 FSP -1935

MID-COURSE EXECUTION ACCURACY

SGT 5587.7 SGR 1180.5 SG3 556.1
RRT -.9500 RRF -.9465 RTF .9851
SGB 5711.1 R23 .0215 R13 -.9855
SG1 5699.6 SG2 361.2 THA 168.60

ORBIT DETERMINATION ACCURACY

ST 2240.6 SR 333.1 SS 1308.9
CRT -.7912 CRS .7580 CST -.9985
LSA 2607.4 MSA 214.6 SSA 15.5
EL1 2256.2 EL2 202.3 ALF 173.24

LAUNCH DATE OCT 16 1965 FLIGHT TIME 190.00 ARRIVAL DATE APR 24 1966

HELIOCENTRIC CONIC DISTANCE 531.994

RL 149.12 LAL .00 LOL 22.42 VL 27.151 GAL 4.18 AZL 89.31 HCA 244.58 SMA 127.27 ECC .18607 INC .6941 V1 29.881
RP 108.74 LAP -.63 LOP 267.00 VP 37.393 GAP 6.72 AZP 90.30 TAL 161.14 TAP 45.72 RCA 103.59 APO 150.95 V2 34.851
RC 122.731 GL 5.02 GP 22.43 ZAL 48.80 ZAP 144.76 ETS 32.92 ZAE 125.15 ETE 164.16 ZAC 29.17 ETC 188.36 CLP-152.07

PLANETOCENTRIC CONIC

C3 14.034 VHL 3.746 DLA -5.42 RAL 333.89 RAD 6567.6 VEL 11.637 PTH 2.04 VHP 5.159 DPA -.99 RAP 294.26 ECC 1.2310

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 39 41	1964.33	-12.82	26.22	189.01	115.47	9 12 26	1364.3	-9.28	19.33
90.00	19 16 46	4945.92	21.59	216.04	191.00	71.22	20 39 12	4345.9	18.82	208.46
100.00	9 58 28	1710.19	-13.73	7.07	188.55	116.82	10 26 58	1110.2	-10.02	.25
100.00	20 40 41	4675.30	22.55	195.77	190.63	69.84	21 58 36	4075.3	19.60	188.22
110.00	11 0 51	1514.89	-16.16	350.88	187.18	120.54	11 26 6	914.9	-11.98	344.26
110.00	21 54 47	4443.36	25.11	177.03	189.50	66.01	23 8 51	3843.4	21.65	169.58

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE 1.3196 TRA 2.7778 TC3-4.2855 BAU .8124 SGT 5709.2 SGR 1085.2 SG3 526.0 ST 2392.0 SR 303.1 SS 1316.3
RDE -.0484 RRA -.6371 RC3 .6178 FAU .05414 RRT -.9381 RRF -.9337 RTF .9844 CRT -.7262 CRS .6970 CST -.9990
FDE 1.6711 FRA 3.2061 FC3-3.3400 BSP 18357 SGB 5811.5 R23 .0182 R13 -.9847 LSA 2738.6 MSA 215.2 SSA 15.4
BDE 1.3205 BRA 2.8499 BC3 4.3298 FSP -1826 SG1 5799.7 SG2 369.9 THA 169.85 EL1 2402.2 EL2 207.5 ALF 174.70

LAUNCH DATE OCT 16 1965 FLIGHT TIME 192.00 ARRIVAL DATE APR 26 1966

HELIOCENTRIC CONIC DISTANCE 537.918

RL 149.12 LAL .00 LOL 22.42 VL 27.129 GAL 4.47 AZL 89.12 HCA 247.75 SMA 127.12 ECC .18931 INC .8757 V1 29.881
RP 108.76 LAP -.81 LOP 270.17 VP 37.369 GAP 7.11 AZP 90.33 TAL 160.16 TAP 47.92 RCA 103.05 APO 151.18 V2 34.842
RC 125.075 GL 6.13 GP 21.08 ZAL 47.71 ZAP 146.91 ETS 33.52 ZAE 124.67 ETE 165.39 ZAC 30.19 ETC 185.23 CLP-153.88

PLANETOCENTRIC CONIC

C3 14.982 VHL 3.871 DLA -3.96 RAL 334.60 RAD 6567.6 VEL 11.678 PTH 2.05 VHP 5.333 DPA -2.17 RAP 295.69 ECC 1.2466

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 31 31	2024.56	-14.55	29.80	190.79	114.56	9 5 15	1424.6	-11.12	22.80
90.00	19 30 37	4914.70	20.89	214.02	192.31	70.44	20 52 31	4314.7	18.03	206.51
100.00	9 51 0	1768.14	-15.48	10.49	190.33	115.89	10 20 28	1168.1	-11.88	3.55
100.00	20 53 49	4646.35	21.86	193.90	191.93	69.08	22 11 15	4046.3	18.82	186.43
110.00	10 54 59	1567.82	-17.96	353.92	188.97	119.58	11 21 7	967.8	-13.89	347.18
110.00	22 6 19	4419.43	24.44	175.49	190.75	65.32	23 19 58	3819.4	20.90	168.13

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE 1.4581 TRA 2.9475 TC3-4.0987 BAU .8278 SGT 5818.4 SGR 1001.7 SG3 496.3 ST 2527.7 SR 277.2 SS 1314.4
RDE -.0284 RRA -.6148 RC3 .5316 FAU .04990 RRT -.9242 RRF -.9189 RTF .9839 CRT -.6439 CRS .6185 CST -.9994
FDE 1.6778 FRA 3.1498 FC3-2.8832 BSP 18723 SGB 5904.0 R23 .0149 R13 -.9841 LSA 2854.2 MSA 216.3 SSA 15.2
BDE 1.4584 BRA 3.0110 BC3 4.1331 FSP -1733 SG1 5891.9 SG2 377.8 THA 170.92 EL1 2534.0 EL2 211.5 ALF 175.93

LAUNCH DATE OCT 16 1965 FLIGHT TIME 194.00 ARRIVAL DATE APR 28 1966

HELIOCENTRIC CONIC DISTANCE 543.812

RL 149.12 LAL .00 LOL 22.42 VL 27.106 GAL 4.78 AZL 88.95 HCA 250.92 SMA 126.97 ECC .19280 INC 1.0492 V1 29.881
RP 108.79 LAP -.99 LOP 273.34 VP 37.344 GAP 7.50 AZP 90.34 TAL 159.17 TAP 50.09 RCA 102.49 APO 151.45 V2 34.834
RC 127.413 GL 7.09 GP 19.87 ZAL 46.64 ZAP 148.93 ETS 34.17 ZAE 124.20 ETE 166.45 ZAC 31.40 ETC 182.52 CLP-155.60

PLANETOCENTRIC CONIC

C3 16.041 VHL 4.005 DLA -2.64 RAL 335.36 RAD 6567.6 VEL 11.723 PTH 2.07 VHP 5.519 DPA -3.18 RAP 297.21 ECC 1.2640

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 24 36	2081.25	-16.13	33.21	192.71	113.60	8 59 18	1481.3	-12.80	26.12
90.00	19 43 31	4888.80	20.29	212.36	193.78	69.81	21 5 0	4288.8	17.36	204.91
100.00	9 44 43	1822.82	-17.08	13.76	192.26	114.91	10 15 6	1222.8	-13.58	6.72
100.00	21 6 5	4622.47	21.27	192.37	193.38	68.49	22 23 8	4022.5	18.16	184.96
110.00	10 50 9	1618.02	-19.62	356.87	190.91	118.57	11 17 7	1018.0	-15.66	349.99
110.00	22 17 9	4400.04	23.88	174.26	192.16	64.78	23 30 29	3800.0	20.29	166.97

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE 1.5984 TRA 3.1257 TC3-3.8981 BAU .8417 SGT 5917.4 SGR 928.6 SG3 467.7 ST 2653.5 SR 256.4 SS 1308.3
RDE -.0082 RRA -.5957 RC3 .4576 FAU .04577 RRT -.9081 RRF -.9019 RTF .9833 CRT -.5460 CRS .5245 CST -.9996
FDE 1.6771 FRA 3.0943 FC3-2.4704 BSP 19056 SGB 5989.8 R23 .0122 R13 -.9835 LSA 2961.5 MSA 217.4 SSA 15.0
BDE 1.5984 BRA 3.1820 BC3 3.9249 FSP -1641 SG1 5977.5 SG2 384.9 THA 171.86 EL1 2657.2 EL2 214.5 ALF 176.96

LAUNCH DATE OCT 16 1965 FLIGHT TIME 196.00 ARRIVAL DATE APR 30 1966

HELIOCENTRIC CONIC DISTANCE 549.674

RL 149.12 LAL .00 LOL 22.42 VL 27.082 GAL 5.11 AZL 88.78 HCA 254.08 SMA 126.81 ECC .19656 INC 1.2161 V1 29.881
RP 108.81 LAP -1.17 LOP 276.50 VP 37.320 GAP 7.90 AZP 90.33 TAL 158.15 TAP 52.23 RCA 101.89 APO 151.74 V2 34.826
RC 129.747 GL 7.93 GP 18.77 ZAL 45.58 ZAP 150.82 ETS 34.90 ZAE 123.75 ETE 167.37 ZAC 32.77 ETC 180.19 CLP-157.24

PLANETOCENTRIC CONIC

C3 17.220 VHL 4.150 DLA -1.43 RAL 336.14 RAD 6567.7 VEL 11.773 PTH 2.08 VHP 5.718 DPA -4.04 RAP 298.81 ECC 1.2834

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 18 47	2134.97	-17.56	36.50	194.77	112.58	8 54 22	1535.0	-14.35	29.30
90.00	19 55 37	4867.61	19.79	211.01	195.37	69.32	21 16 45	4267.6	16.80	203.61
100.00	9 39 27	1874.73	-18.54	16.92	194.32	113.88	10 10 42	1274.7	-15.16	9.77
100.00	21 17 38	4603.09	20.78	191.14	194.96	68.01	22 34 21	4003.1	17.61	183.78
110.00	10 46 11	1665.88	-21.16	359.73	192.99	117.50	11 13 56	1065.9	-17.31	352.72
110.00	22 27 24	4384.70	23.43	173.30	193.70	64.37	23 40 29	3784.7	19.79	166.05

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE 1.7406 TRA 3.3125 TC3-3.6895 BAU .8542 SGT 6006.9 SGR 864.5 SG3 440.5 ST 2769.1 SR 240.8 SS 1298.7
RDE .0123 RRA -.5792 RC3 .3942 FAU .04184 RRT -.8899 RRF -.8827 RTF .9827 CRT -.4341 CRS .4165 CST -.9997
FDE 1.6707 FRA 3.0400 FC3-2.1033 BSP 19372 SGB 6068.8 R23 .0099 R13 -.9828 LSA 3060.2 MSA 218.4 SSA 14.8
BDE 1.7407 BRA 3.3627 BC3 3.7105 FSP -1551 SG1 6056.2 SG2 391.2 THA 172.67 EL1 2771.1 EL2 216.8 ALF 177.82

LAUNCH DATE OCT 16 1965 FLIGHT TIME 198.00 ARRIVAL DATE MAY 2 1966

DISTANCE 555.503

HELIOCENTRIC CONIC
RL 149.12 LAL .00 LOL 22.42 VL 27.058 GAL 5.47 AZL 88.62 HCA 257.25 SMA 126.66 ECC .20062 INC 1.3777 V1 29.881
RP 108.84 LAP -1.34 LOP 279.67 VP 37.296 GAP 8.31 AZP 90.30 TAL 157.11 TAP 54.36 RCA 101.25 APO 152.06 V2 34.819
RC 132.074 GL 8.65 GP 17.79 ZAL 44.54 ZAP 152.59 ETS 35.72 ZAE 123.33 ETE 168.17 ZAC 34.26 ETC 178.21 CLP-158.80

PLANETOCENTRIC CONIC
C3 18.533 VHL 4.305 DLA -.33 RAL 336.96 RAD 6567.8 VEL 11.829 PTH 2.09 VHP 5.929 DPA -4.77 RAP 300.48 ECC 1.3050

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 13 53	2186.15	-18.87	39.69	196.94	111.51	8 50 19	1586.1	-15.78	32.37
90.00	20 7 1	4850.64	19.37	209.93	197.08	68.94	21 27 52	4250.6	16.34	202.57
100.00	9 35 4	1924.26	-19.88	20.00	196.50	112.80	10 7 8	1324.3	-16.62	12.72
100.00	21 28 31	4587.77	20.39	190.17	196.66	67.65	22 44 58	3987.8	17.18	182.85
110.00	10 42 57	1711.74	-22.57	2.54	195.18	116.38	11 11 29	1111.7	-18.84	355.39
110.00	22 37 7	4373.05	23.09	172.57	195.35	64.06	23 50 0	3773.0	19.41	165.36

DIFFERENTIAL CORRECTIONS
TDE 1.8854 TRA 3.5096 TC3-3.4747 BAU .8650
RDE .0329 RRA -.5650 RC3 .3396 FAU .03807
FDE 1.6604 FRA 2.9888 FC3-1.7784 BSP 19662
BDE 1.8857 BRA 3.5547 BC3 3.4912 FSP -1466

MID-COURSE EXECUTION ACCURACY
SGT 6088.1 SGR 808.0 SG3 414.8
RRT -.8695 RRF -.8615 RTF .9821
SGB 6141.5 R23 .0080 R13 -.9822
SG1 6128.7 SG2 396.5 THA 173.39

ORBIT DETERMINATION ACCURACY
ST 2875.5 SR 230.0 SS 1286.8
CRT -.3129 CRS .2990 CST -.9998
LSA 3151.0 MSA 219.2 SSA 14.6
EL1 2876.4 EL2 218.4 ALF 178.56

LAUNCH DATE OCT 16 1965 FLIGHT TIME 200.00 ARRIVAL DATE MAY 4 1966

DISTANCE 561.296

HELIOCENTRIC CONIC
RL 149.12 LAL .00 LOL 22.42 VL 27.034 GAL 5.84 AZL 88.48 HCA 260.41 SMA 126.50 ECC .20499 INC 1.5352 V1 29.881
RP 108.86 LAP -1.51 LOP 282.83 VP 37.272 GAP 8.73 AZP 90.26 TAL 156.06 TAP 56.47 RCA 100.57 APO 152.43 V2 34.812
RC 134.395 GL 9.27 GP 16.90 ZAL 43.51 ZAP 154.26 ETS 36.65 ZAE 122.93 ETE 168.87 ZAC 35.86 ETC 176.54 CLP-160.30

PLANETOCENTRIC CONIC
C3 19.994 VHL 4.471 DLA .67 RAL 337.79 RAD 6567.8 VEL 11.890 PTH 2.11 VHP 6.153 DPA -5.37 RAP 302.21 ECC 1.3291

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 9 47	2235.15	-20.06	42.79	199.21	110.41	8 47 2	1635.1	-17.10	35.36
90.00	20 17 46	4837.51	19.05	209.10	198.90	68.65	21 38 24	4237.5	15.98	201.77
100.00	9 31 26	1971.76	-21.10	22.99	198.79	111.68	10 4 18	1371.8	-17.97	15.60
100.00	21 38 48	4576.13	20.08	189.44	198.46	67.38	22 55 4	3976.1	16.84	182.14
110.00	10 40 24	1755.90	-23.88	5.30	197.48	115.22	11 9 40	1155.9	-20.28	358.01
110.00	22 46 20	4364.75	22.84	172.05	197.11	63.85	23 59 5	3764.8	19.14	164.87

DIFFERENTIAL CORRECTIONS
TDE 2.0362 TRA 3.7196 TC3-3.2515 BAU .8726
RDE .0533 RRA -.5529 RC3 .2915 FAU .03435
FDE 1.6505 FRA 2.9430 FC3-1.4874 BSP 19861
BDE 2.0369 BRA 3.7605 BC3 3.2646 FSP -1377

MID-COURSE EXECUTION ACCURACY
SGT 6163.0 SGR 758.0 SG3 390.9
RRT -.8470 RRF -.8382 RTF .9814
SGB 6209.4 R23 .0065 R13 -.9815
SG1 6196.5 SG2 400.7 THA 174.03

ORBIT DETERMINATION ACCURACY
ST 2976.6 SR 223.4 SS 1275.3
CRT -.1904 CRS .1801 CST -.9999
LSA 3238.5 MSA 219.7 SSA 14.5
EL1 2976.9 EL2 219.3 ALF 179.18

LAUNCH DATE OCT 16 1965 FLIGHT TIME 202.00 ARRIVAL DATE MAY 6 1966

DISTANCE 567.048

HELIOCENTRIC CONIC
RL 149.12 LAL .00 LOL 22.42 VL 27.009 GAL 6.25 AZL 88.31 HCA 263.57 SMA 126.34 ECC .20970 INC 1.6898 V1 29.881
RP 108.87 LAP -1.68 LOP 285.99 VP 37.249 GAP 9.16 AZP 90.19 TAL 155.00 TAP 58.57 RCA 99.84 APO 152.83 V2 34.806
RC 136.709 GL 9.80 GP 16.10 ZAL 42.49 ZAP 155.84 ETS 37.69 ZAE 122.55 ETE 169.49 ZAC 37.54 ETC 175.12 CLP-161.74

PLANETOCENTRIC CONIC
C3 21.621 VHL 4.650 DLA 1.59 RAL 338.64 RAD 6567.9 VEL 11.958 PTH 2.13 VHP 6.390 DPA -5.86 RAP 303.99 ECC 1.3558

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 6 23	2282.26	-21.15	45.81	201.58	109.28	8 44 25	1682.3	-18.33	38.28
90.00	20 27 57	4827.89	18.81	208.50	200.80	68.44	21 48 25	4227.9	15.72	201.19
100.00	9 28 28	2017.51	-22.22	25.93	201.17	110.52	10 2 5	1417.5	-19.23	18.41
100.00	21 48 33	4567.88	19.87	188.92	200.35	67.19	23 4 41	3967.9	16.61	181.65
110.00	10 38 24	1798.59	-25.09	8.03	199.88	114.02	11 8 23	1198.6	-21.63	.58
110.00	22 55 6	4359.55	22.69	171.73	198.97	63.72	24 7 45	3759.6	18.97	164.56

DIFFERENTIAL CORRECTIONS
TDE 2.1871 TRA 3.9377 TC3-3.0348 BAU .8802
RDE .0743 RRA -.5417 RC3 .2509 FAU .03099
FDE 1.6351 FRA 2.8974 FC3-1.2411 BSP 20118
BDE 2.1884 BRA 3.9748 BC3 3.0452 FSP -1301

MID-COURSE EXECUTION ACCURACY
SGT 6228.1 SGR 713.2 SG3 368.1
RRT -.8224 RRF -.8129 RTF .9808
SGB 6268.8 R23 .0050 R13 -.9809
SG1 6255.8 SG2 404.0 THA 174.60

ORBIT DETERMINATION ACCURACY
ST 3064.4 SR 220.3 SS 1260.1
CRT -.0676 CRS .0606 CST -.9999
LSA 3313.4 MSA 220.0 SSA 14.3
EL1 3064.4 EL2 219.8 ALF 179.72

LAUNCH DATE OCT 16 1965 FLIGHT TIME 204.00 ARRIVAL DATE MAY 8 1966

DISTANCE 572.757

HELIOCENTRIC CONIC
RL 149.12 LAL .00 LOL 22.42 VL 26.984 GAL 6.67 AZL 88.16 HCA 266.73 SMA 126.17 ECC .21478 INC 1.8424 V1 29.881
RP 108.89 LAP -1.84 LOP 289.16 VP 37.225 GAP 9.61 AZP 90.10 TAL 153.92 TAP 60.65 RCA 99.07 APO 153.27 V2 34.801
RC 139.015 GL 10.25 GP 15.37 ZAL 41.49 ZAP 157.33 ETS 38.89 ZAE 122.20 ETE 170.03 ZAC 39.29 ETC 173.93 CLP-163.12

PLANETOCENTRIC CONIC
C3 23.434 VHL 4.841 DLA 2.42 RAL 339.50 RAD 6568.0 VEL 12.034 PTH 2.15 VHP 6.642 DPA -6.24 RAP 305.82 ECC 1.3857

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 3 36	2327.74	-22.14	48.78	204.04	108.11	8 42 24	1727.7	-19.46	41.13
90.00	20 37 35	4821.51	18.65	208.10	202.79	68.30	21 57 56	4221.5	15.54	200.80
100.00	9 26 4	2061.73	-23.25	28.81	203.64	109.34	10 0 26	1461.7	-20.40	21.18
100.00	21 57 48	4562.75	19.73	188.60	202.32	67.08	23 13 50	3962.8	16.46	181.34
110.00	10 36 54	1840.02	-26.21	10.73	202.38	112.77	11 7 34	1240.0	-22.89	3.14
110.00	23 3 27	4357.23	22.62	171.59	200.90	63.66	24 16 4	3757.2	18.89	164.43

DIFFERENTIAL CORRECTIONS
TDE 2.3413 TRA 4.1676 TC3-2.8199 BAU .8860
RDE .0955 RRA -.5314 RC3 .2156 FAU .02784
FDE 1.6184 FRA 2.8553 FC3-1.0284 BSP 20360
BDE 2.3433 BRA 4.2014 BC3 2.8281 FSP -1228

MID-COURSE EXECUTION ACCURACY
SGT 6285.6 SGR 672.8 SG3 346.7
RRT -.7956 RRF -.7855 RTF .9803
SGB 6321.5 R23 .0037 R13 -.9804
SG1 6308.5 SG2 406.1 THA 175.11

ORBIT DETERMINATION ACCURACY
ST 3143.2 SR 220.2 SS 1244.1
CRT .0477 CRS -.0517 CST -.9999
LSA 3380.5 MSA 220.0 SSA 14.1
EL1 3143.3 EL2 220.0 ALF .19

LAUNCH DATE OCT 16 1965 FLIGHT TIME 206.00 ARRIVAL DATE MAY 10 1966

HELIOCENTRIC CONIC DISTANCE 578.419

RL	149.12	LAL	.00	LOL	22.42	VL	26.959	GAL	7.13	AZL	88.01	HCA	269.89	SMA	126.01	ECC	.22027	INC	1.9941	V1	29.881
RP	108.90	LAP	-1.99	LOP	292.32	VP	37.203	GAP	10.08	AZP	90.00	TAL	152.84	TAP	62.73	RCA	98.25	APO	153.76	V2	34.797
RC	141.312	GL	10.63	GP	14.71	ZAL	40.51	ZAP	158.73	ETS	40.24	ZAE	121.86	ETE	170.51	ZAC	41.10	ETC	172.93	CLP	-164.47

PLANETOCENTRIC CONIC

C3	25.458	VHL	5.046	DLA	3.19	RAL	340.36	RAD	6568.0	VEL	12.118	PTH	2.17	VHP	6.908	DPA	-6.52	RAP	307.69	ECC	1.4190

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 1 22	2371.79	-23.05	51.69	206.58	106.92	8 40 54	1771.8	-20.51	43.94
90.00	20 46 42	4818.14	18.57	207.89	204.86	68.23	22 7 0	4218.1	15.45	200.60
100.00	9 24 12	2104.62	-24.19	31.65	206.19	108.12	9 59 16	1504.6	-21.48	23.90
100.00	22 6 34	4560.54	19.67	188.47	204.37	67.03	23 22 34	3960.5	16.39	181.21
110.00	10 35 51	1880.34	-27.24	13.40	204.96	111.49	11 7 12	1280.3	-24.08	5.67
110.00	23 11 24	4357.59	22.63	171.61	202.92	63.67	24 24 1	3757.6	18.90	164.45

DIFFERENTIAL CORRECTIONS

TDE	2.5003	TRA	4.4109	TC3	-2.6072	BAU	.8896
RDE	.1170	RRA	-.5220	RC3	.1847	FAU	.02483
FDE	1.6018	FRA	2.8173	FC3	-.8444	BSP	20575
BDE	2.5030	BRA	4.4417	BC3	2.6137	FSP	-1159

MID-COURSE EXECUTION ACCURACY

SGT	6336.4	SGR	636.2	SG3	326.7		
RRT	-.7668	RRF	-.7562	RTF	.9799		
SGB	6368.2	R23	.0026	R13	-.9799		
SG1	6355.2	SG2	407.2	THA	175.58		

ORBIT DETERMINATION ACCURACY

ST	3214.4	SR	222.2	SS	1228.0		
CRT	.1521	CRS	-.1536	CST	-.9999		
LSA	3441.1	MSA	219.6	SSA	13.9		
EL1	3214.6	EL2	219.6	ALF	.61		

LAUNCH DATE OCT 16 1965 FLIGHT TIME 208.00 ARRIVAL DATE MAY 12 1966

HELIOCENTRIC CONIC DISTANCE 584.027

RL	149.12	LAL	.00	LOL	22.42	VL	26.933	GAL	7.62	AZL	87.85	HCA	273.05	SMA	125.84	ECC	.22620	INC	2.1456	V1	29.881
RP	108.92	LAP	-2.14	LOP	295.48	VP	37.181	GAP	10.58	AZP	89.89	TAL	151.75	TAP	64.80	RCA	97.38	APO	154.31	V2	34.793
RC	143.598	GL	10.94	GP	14.11	ZAL	39.54	ZAP	160.07	ETS	41.79	ZAE	121.54	ETE	170.94	ZAC	42.95	ETC	172.08	CLP	-165.77

PLANETOCENTRIC CONIC

C3	27.721	VHL	5.265	DLA	3.88	RAL	341.23	RAD	6568.1	VEL	12.211	PTH	2.19	VHP	7.191	DPA	-6.72	RAP	309.59	ECC	1.4562

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 59 37	2414.58	-23.87	54.56	209.19	105.71	8 39 52	1814.6	-21.48	46.70
90.00	20 55 21	4817.60	18.55	207.86	206.99	68.22	22 15 39	4217.6	15.43	200.57
100.00	9 22 47	2146.35	-25.04	34.46	208.81	106.88	9 58 33	1546.4	-22.49	26.59
100.00	22 14 53	4561.07	19.69	188.50	206.49	67.04	23 30 54	3961.1	16.41	181.24
110.00	10 35 11	1919.71	-28.20	16.07	207.63	110.17	11 7 11	1319.7	-25.19	8.19
110.00	23 18 57	4360.47	22.71	171.79	205.01	63.74	24 31 38	3760.5	19.00	164.62

DIFFERENTIAL CORRECTIONS

TDE	2.6681	TRA	4.6726	TC3	-2.3931	BAU	.8888
RDE	.1384	RRA	-.5132	RC3	.1571	FAU	.02186
FDE	1.5879	FRA	2.7860	FC3	-.6828	BSP	20673
BDE	2.6717	BRA	4.7007	BC3	2.3582	FSP	-1088

MID-COURSE EXECUTION ACCURACY

SGT	6383.9	SGR	602.8	SG3	308.3		
RRT	-.7360	RRF	-.7250	RTF	.9795		
SGB	6412.3	R23	.0016	R13	-.9795		
SG1	6399.4	SG2	407.0	THA	176.01		

ORBIT DETERMINATION ACCURACY

ST	3282.3	SR	225.6	SS	1213.9		
CRT	.2432	CRS	-.2428	CST	-.9999		
LSA	3500.0	MSA	218.8	SSA	13.7		
EL1	3282.8	EL2	218.8	ALF	.96		

LAUNCH DATE OCT 16 1965 FLIGHT TIME 210.00 ARRIVAL DATE MAY 14 1966

HELIOCENTRIC CONIC DISTANCE 589.576

RL	149.12	LAL	.00	LOL	22.42	VL	26.908	GAL	8.14	AZL	87.70	HCA	276.21	SMA	125.68	ECC	.23263	INC	2.2980	V1	29.881
RP	108.93	LAP	-2.28	LOP	298.64	VP	37.159	GAP	11.09	AZP	89.75	TAL	150.66	TAP	66.87	RCA	96.44	APO	154.92	V2	34.790
RC	145.874	GL	11.20	GP	13.56	ZAL	38.60	ZAP	161.33	ETS	43.56	ZAE	121.24	ETE	171.33	ZAC	44.83	ETC	171.37	CLP	-167.04

PLANETOCENTRIC CONIC

C3	30.259	VHL	5.501	DLA	4.51	RAL	342.09	RAD	6568.2	VEL	12.314	PTH	2.22	VHP	7.491	DPA	-6.83	RAP	311.52	ECC	1.4980

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 58 18	2456.25	-24.60	57.39	211.86	104.48	8 39 14	1856.2	-22.38	49.43
90.00	21 3 33	4819.73	18.61	207.99	209.18	68.26	22 23 52	4219.7	15.49	200.70
100.00	9 21 46	2187.04	-25.82	37.23	211.50	105.62	9 58 13	1587.0	-23.42	29.25
100.00	22 22 46	4564.16	19.77	188.69	208.68	67.11	23 38 50	3964.2	16.50	181.42
110.00	10 34 52	1958.24	-29.07	18.73	210.36	108.82	11 7 30	1358.2	-26.23	10.70
110.00	23 26 9	4365.73	22.87	172.11	207.16	63.87	24 38 55	3765.7	19.17	164.93

DIFFERENTIAL CORRECTIONS

TDE	2.8368	TRA	4.9446	TC3	-2.1909	BAU	.8879
RDE	.1606	RRA	-.5039	RC3	.1336	FAU	.01922
FDE	1.5713	FRA	2.7552	FC3	-.5500	BSP	20871
BDE	2.8414	BRA	4.9702	BC3	2.1950	FSP	-1028

MID-COURSE EXECUTION ACCURACY

SGT	6421.2	SGR	571.7	SG3	290.8		
RRT	-.7028	RRF	-.6915	RTF	.9792		
SGB	6446.6	R23	.0007	R13	-.9793		
SG1	6433.8	SG2	405.9	THA	176.41		

ORBIT DETERMINATION ACCURACY

ST	3337.4	SR	230.1	SS	1197.8		
CRT	.3245	CRS	-.3225	CST	-.9999		
LSA	3546.6	MSA	217.7	SSA	13.4		
EL1	3338.2	EL2	217.6	ALF	1.29		

LAUNCH DATE OCT 16 1965 FLIGHT TIME 212.00 ARRIVAL DATE MAY 16 1966

HELIOCENTRIC CONIC DISTANCE 595.057

RL	149.12	LAL	.00	LOL	22.42	VL	26.882	GAL	8.69	AZL	87.55	HCA	279.37	SMA	125.52	ECC	.23960	INC	2.4522	V1	29.881
RP	108.93	LAP	-2.42	LOP	301.80	VP	37.138	GAP	11.63	AZP	89.60	TAL	149.58	TAP	68.95	RCA	95.44	APO	155.59	V2	34.787
RC	148.138	GL	11.40	GP	13.06	ZAL	37.68	ZAP	162.52	ETS	45.59	ZAE	120.95	ETE	171.68	ZAC	46.75	ETC	170.77	CLP	-168.28

PLANETOCENTRIC CONIC

C3	33.110	VHL	5.754	DLA	5.09	RAL	342.94	RAD	6568.3	VEL	12.429	PTH	2.25	VHP	7.812	DPA	-6.86	RAP	313.47	ECC	1.5449

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 57 22	2496.90	-25.27	60.19	214.59	103.23	8 38 59	1896.9	-23.20	52.13
90.00	21 11 17	4824.37	18.72	208.28	211.43	68.36	22 31 42	4224.4	15.62	200.98
100.00	9 21 7	2226.81	-26.52	39.98	214.25	104.33	9 58 14	1626.8	-24.29	31.89
100.00	22 30 14	4569.70	19.91	189.04	210.92	67.23	23 46 24	3969.7	16.66	181.76
110.00	10 34 51	1996.03	-29.87	21.38	213.17	107.44	11 8 7	1396.0	-27.20	13.21
110.00	23 32 59	4373.24	23.10	172.58	209.37	64.07	24 45 52	3773.2	19.42	165.37

DIFFERENTIAL CORRECTIONS

TDE	3.0121	TRA	5.2339	TC3	-1.9943	BAU	.8842
RDE	.1833	RRA	-.4945	RC3	.1128	FAU	.01672
FDE	1.5559	FRA	2.7291	FC3	-.4371	BSP	21041
BDE	3.0177	BRA	5.2572	BC3	1.9975	FSP	-972

MID-COURSE EXECUTION ACCURACY

SGT	6452.8	SGR	542.7	SG3	274.5		
RRT	-.6673	RRF	-.6559	RTF	.9791		
SGB	6475.6	R23	-.0000	R13	-.9791		
SG1	6463.0	SG2	403.6	THA	176.78		

ORBIT DETERMINATION ACCURACY

ST	3385.9	SR	235.2	SS	1182.6		
CRT	.3948	CRS	-.3915	CST	-.9999		
LSA	3587.6	MSA	216.1	SSA	13.2		
EL1	3387.1	EL2	216.0	ALF	1.58		

LAUNCH DATE OCT 16 1965 FLIGHT TIME 214.00 ARRIVAL DATE MAY 18 1966

HELIOCENTRIC CONIC DISTANCE 600.462

RL 149.12 LAL .00 LOL 22.42 VL 26.856 GAL 9.29 AZL 87.39 HCA 282.53 SMA 125.35 ECC .24716 INC 2.6093 V1 29.881
RP 108.94 LAP -2.55 LOP 304.96 VP 37.118 GAP 12.21 AZP 89.43 TAL 148.50 TAP 71.03 RCA 94.37 APO 156.33 V2 34.786
RC 150.390 GL 11.55 GP 12.61 ZAL 36.78 ZAP 163.65 ETS 47.90 ZAE 120.66 ETE 172.00 ZAC 48.68 ETC 170.26 CLP-169.50

PLANETOCENTRIC CONIC

C3 36.323 VHL 6.027 DLA 5.61 RAL 343.79 RAD 6568.4 VEL 12.558 PTH 2.28 VHP 8.153 DPA -6.82 RAP 315.43 ECC 1.5978

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 56 48	2536.64	-25.86	62.95	217.37	101.96	8 39 4	1936.6	-23.95	54.80
90.00	21 18 36	4831.40	18.90	208.72	213.73	68.51	22 39 7	4231.4	15.81	201.40
100.00	9 20 47	2265.72	-27.14	42.70	217.06	103.03	9 58 33	1665.7	-25.08	34.51
100.00	22 37 17	4577.55	20.12	189.53	213.21	67.41	23 53 35	3977.5	16.88	182.23
110.00	10 35 6	2033.14	-30.60	24.02	216.03	106.03	11 8 59	1433.1	-28.10	15.72
110.00	23 39 28	4382.90	23.38	173.18	211.64	64.32	24 52 30	3782.9	19.73	165.94

DIFFERENTIAL CORRECTIONS
TDE 3.1949 TRA 5.5416 TC3-1.8037 BAU .8771
RDE .2066 RRA -.4844 RC3 .0946 FAU .01433
FDE 1.5419 FRA 2.7074 FC3 -.3415 BSP 21192
BDE 3.2016 BRA 5.5627 BC3 1.8062 FSP -918

MID-COURSE EXECUTION ACCURACY
SGT 6478.8 SGR 515.5 SG3 259.3
RRT -.6291 RRF -.6179 RTF .9791
SGB 6499.2 R23 -.0006 R13 -.9791
SG1 6486.9 SG2 400.2 THA 177.12

ORBIT DETERMINATION ACCURACY
ST 3428.0 SR 240.5 SS 1168.4
CRT .4558 CRS -.4515 CST -.9999
LSA 3623.3 MSA 214.1 SSA 12.9
EL1 3429.8 EL2 214.0 ALF 1.84

LAUNCH DATE OCT 16 1965 FLIGHT TIME 216.00 ARRIVAL DATE MAY 20 1966

HELIOCENTRIC CONIC DISTANCE 605.780

RL 149.12 LAL .00 LOL 22.42 VL 26.830 GAL 9.94 AZL 87.23 HCA 285.69 SMA 125.19 ECC .25540 INC 2.7702 V1 29.881
RP 108.94 LAP -2.67 LOP 308.13 VP 37.099 GAP 12.82 AZP 89.25 TAL 147.43 TAP 73.12 RCA 93.21 APO 157.16 V2 34.785
RC 152.629 GL 11.66 GP 12.19 ZAL 35.90 ZAP 164.71 ETS 50.57 ZAE 120.38 ETE 172.29 ZAC 50.63 ETC 169.83 CLP-170.71

PLANETOCENTRIC CONIC

C3 39.956 VHL 6.321 DLA 6.08 RAL 344.62 RAD 6568.5 VEL 12.701 PTH 2.31 VHP 8.520 DPA -6.72 RAP 317.39 ECC 1.6576

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 56 32	2575.51	-26.38	65.67	220.20	100.69	8 39 27	1975.5	-24.63	57.44
90.00	21 25 28	4840.71	19.13	209.30	216.08	68.72	22 46 9	4240.7	16.07	201.97
100.00	9 20 45	2303.85	-27.70	45.40	219.90	101.71	9 59 9	1703.8	-25.80	37.11
100.00	22 43 56	4587.60	20.38	190.16	215.55	67.65	24 0 23	3987.6	17.17	182.84
110.00	10 35 36	2069.62	-31.26	26.66	218.95	104.60	11 10 5	1469.6	-28.94	18.23
110.00	23 45 35	4394.59	23.72	173.92	213.96	64.64	24 58 49	3794.6	20.11	166.64

DIFFERENTIAL CORRECTIONS
TDE 3.3855 TRA 5.8691 TC3-1.6198 BAU .8663
RDE .2305 RRA -.4734 RC3 .0786 FAU .01205
FDE 1.5295 FRA 2.6902 FC3 -.2611 BSP 21324
BDE 3.3934 BRA 5.8882 BC3 1.6218 FSP -867

MID-COURSE EXECUTION ACCURACY
SGT 6498.7 SGR 489.6 SG3 245.1
RRT -.5880 RRF -.5771 RTF .9793
SGB 6517.1 R23 -.0011 R13 -.9793
SG1 6505.1 SG2 395.6 THA 177.45

ORBIT DETERMINATION ACCURACY
ST 3463.7 SR 245.8 SS 1155.4
CRT .5088 CRS -.5038 CST -.9999
LSA 3653.4 MSA 211.6 SSA 12.7
EL1 3465.9 EL2 211.5 ALF 2.08

LAUNCH DATE OCT 16 1965 FLIGHT TIME 218.00 ARRIVAL DATE MAY 22 1966

HELIOCENTRIC CONIC DISTANCE 610.996

RL 149.12 LAL .00 LOL 22.42 VL 26.805 GAL 10.63 AZL 87.06 HCA 288.84 SMA 125.02 ECC .26438 INC 2.9362 V1 29.881
RP 108.94 LAP -2.78 LOP 311.29 VP 37.080 GAP 13.47 AZP 89.05 TAL 146.39 TAP 75.23 RCA 91.97 APO 158.08 V2 34.784
RC 154.855 GL 11.73 GP 11.81 ZAL 35.06 ZAP 165.71 ETS 53.63 ZAE 120.10 ETE 172.56 ZAC 52.59 ETC 169.46 CLP-171.90

PLANETOCENTRIC CONIC

C3 44.079 VHL 6.639 DLA 6.50 RAL 345.43 RAD 6568.7 VEL 12.863 PTH 2.34 VHP 8.913 DPA -6.56 RAP 319.36 ECC 1.7254

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 56 33	2613.55	-26.83	68.37	223.05	99.41	8 40 7	2013.5	-25.25	60.05
90.00	21 31 55	4852.19	19.41	210.03	218.47	68.97	22 52 47	4252.2	16.38	202.66
100.00	9 20 59	2341.21	-28.19	48.07	222.79	100.39	10 0 0	1741.2	-26.46	39.69
100.00	22 50 10	4599.76	20.69	190.93	217.93	67.93	24 6 50	3999.8	17.52	183.57
110.00	10 36 18	2105.50	-31.84	29.29	221.91	103.14	11 11 24	1505.5	-29.71	20.74
110.00	23 51 20	4408.24	24.12	174.78	216.32	65.01	25 4 49	3808.2	20.55	167.46

DIFFERENTIAL CORRECTIONS
TDE 3.5892 TRA 6.2224 TC3-1.4401 BAU .8495
RDE .2550 RRA -.4613 RC3 .0644 FAU .00980
FDE 1.5210 FRA 2.6796 FC3 -.1924 BSP 21350
BDE 3.5982 BRA 6.2395 BC3 1.4415 FSP -816

MID-COURSE EXECUTION ACCURACY
SGT 6516.1 SGR 465.1 SG3 231.9
RRT -.5437 RRF -.5332 RTF .9795
SGB 6532.7 R23 -.0015 R13 -.9795
SG1 6521.0 SG2 390.0 THA 177.77

ORBIT DETERMINATION ACCURACY
ST 3496.6 SR 250.7 SS 1145.0
CRT .5549 CRS -.5495 CST -.9999
LSA 3681.9 MSA 208.7 SSA 12.4
EL1 3499.4 EL2 208.4 ALF 2.29

LAUNCH DATE OCT 16 1965 FLIGHT TIME 220.00 ARRIVAL DATE MAY 24 1966

HELIOCENTRIC CONIC DISTANCE 616.094

RL 149.12 LAL .00 LOL 22.42 VL 26.779 GAL 11.38 AZL 86.89 HCA 292.00 SMA 124.86 ECC .27420 INC 3.1086 V1 29.881
RP 108.94 LAP -2.88 LOP 314.45 VP 37.062 GAP 14.17 AZP 88.83 TAL 145.37 TAP 77.37 RCA 90.63 APO 159.10 V2 34.785
RC 157.067 GL 11.76 GP 11.46 ZAL 34.24 ZAP 166.64 ETS 57.16 ZAE 119.82 ETE 172.81 ZAC 54.56 ETC 169.15 CLP-173.09

PLANETOCENTRIC CONIC

C3 48.776 VHL 6.984 DLA 6.87 RAL 346.21 RAD 6568.8 VEL 13.044 PTH 2.38 VHP 9.338 DPA -6.34 RAP 321.33 ECC 1.8027

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 56 50	2650.77	-27.22	71.02	225.94	98.14	8 41 0	2050.8	-25.81	62.64
90.00	21 37 56	4865.77	19.74	210.89	220.89	69.28	22 59 1	4265.8	16.75	203.49
100.00	9 21 27	2377.83	-28.61	50.71	225.70	99.06	10 1 5	1777.8	-27.06	42.25
100.00	22 55 59	4613.94	21.05	191.83	220.35	68.28	24 12 53	4013.9	17.92	184.44
110.00	10 37 12	2140.79	-32.36	31.92	224.90	101.67	11 12 52	1540.8	-30.41	23.24
110.00	0 0 40	4423.74	24.56	175.77	218.72	65.44	1 14 24	3823.7	21.04	168.39

DIFFERENTIAL CORRECTIONS
TDE 3.7991 TRA 6.5957 TC3-1.2719 BAU .8301
RDE .2806 RRA -.4474 RC3 .0523 FAU .00774
FDE 1.5124 FRA 2.6718 FC3 -.1375 BSP 21462
BDE 3.8095 BRA 6.6109 BC3 1.2729 FSP -772

MID-COURSE EXECUTION ACCURACY
SGT 6524.9 SGR 441.6 SG3 219.4
RRT -.4953 RRF -.4856 RTF .9800
SGB 6539.8 R23 -.0018 R13 -.9800
SG1 6528.6 SG2 383.4 THA 178.07

ORBIT DETERMINATION ACCURACY
ST 3520.0 SR 255.5 SS 1134.7
CRT .5959 CRS -.5903 CST -.9999
LSA 3701.5 MSA 205.3 SSA 12.1
EL1 3523.3 EL2 205.0 ALF 2.49

LAUNCH DATE OCT 17 1965 FLIGHT TIME 70.00 ARRIVAL DATE DEC 26 1965

HELIOCENTRIC CONIC DISTANCE 144.494

RL	149.08	LAL	.00	LOL	-23.41	VL	19.506	GAL	12.16	AZL	90.09	HCA	51.78	SMA	94.80	ECC	.59807	INC	.0879	VI	29.889
RP	107.80	LAP	-.07	LOP	75.19	VP	32.593	GAP	-35.99	AZP	90.06	TAL	171.54	TAP	223.32	RCA	38.10	APO	151.49	V2	35.155
RC	56.947	GL	-.14	GP	-4.34	ZAL	66.97	ZAP	25.33	ETS	167.66	ZAE	147.81	ETE	188.87	ZAC	23.65	ETC	124.91	CLP	24.98

PLANETOCENTRIC CONIC

C3	138.130	VHL	11.753	DLA	-16.05	RAL	318.94	RAD	6570.5	VEL	16.108	PTH	2.83	VHP	20.974	DPA	-28.76	RAP	281.25	ECC	3.2733

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 4 22	2146.18	-17.85	37.20	207.92	112.35	9 40 8	1546.2	-14.67	29.97
90.00	16 44 57	5837.54	26.18	279.24	220.85	101.20	18 22 15	5237.5	27.46	270.81
100.00	10 16 47	1912.54	-19.57	19.26	207.16	113.06	10 48 39	1312.5	-16.28	12.02
100.00	18 15 14	5546.41	28.00	258.23	221.25	100.92	19 47 40	4946.4	29.22	249.64
110.00	11 5 12	1760.85	-24.02	5.62	205.02	115.08	11 34 33	1160.9	-20.44	358.30
110.00	19 43 18	5270.86	32.80	238.34	222.29	100.22	21 11 9	4670.9	33.86	229.26

DIFFERENTIAL CORRECTIONS

TDE	-.4757	TRA	-1.4585	TC3	-.1163	BAU	.2166												
RDE	-.8271	RRA	.3786	RC3	-.0151	FAU	.01373												
FDE	.2566	FRA	.6276	FC3	-.0861	BSP	2213												
BDE	.9541	BRA	1.5068	BC3	.1173	FSP	-72												

MID-COURSE EXECUTION ACCURACY

SGT	822.1	SGR	448.0	SG3	34.3														
RRT	-.1056	RRF	.1004	RTF	-.6405														
SGB	936.3	R23	-.0049	R13	.6413														
SG1	824.0	SG2	444.5	THA	175.35														

ORBIT DETERMINATION ACCURACY

ST	321.1	SR	407.3	SS	285.4														
CRT	.6172	CRS	.7004	CST	.9917														
LSA	538.3	MSA	246.1	SSA	13.8														
EL1	470.2	EL2	218.8	ALF	55.63														

LAUNCH DATE OCT 17 1965 FLIGHT TIME 72.00 ARRIVAL DATE DEC 28 1965

HELIOCENTRIC CONIC DISTANCE 150.659

RL	149.08	LAL	.00	LOL	23.41	VL	20.110	GAL	11.64	AZL	89.85	HCA	55.00	SMA	96.44	ECC	.57135	INC	.1472	VI	29.889
RP	107.76	LAP	.12	LOP	78.42	VP	32.970	GAP	-34.27	AZP	89.92	TAL	170.96	TAP	225.96	RCA	41.34	APO	151.55	V2	35.166
RC	55.125	GL	.26	GP	-4.49	ZAL	65.95	ZAP	23.83	ETS	166.68	ZAE	148.65	ETE	190.30	ZAC	24.83	ETC	127.75	CLP	23.43

PLANETOCENTRIC CONIC

C3	124.507	VHL	11.158	DLA	-15.35	RAL	319.83	RAD	6570.3	VEL	15.679	PTH	2.79	VHP	20.088	DPA	-28.86	RAP	283.17	ECC	3.0491

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 1 24	2151.53	-17.99	37.53	207.53	112.24	9 37 15	1551.5	-14.82	30.29
90.00	16 55 1	5792.32	26.74	276.05	219.99	99.69	18 31 33	5192.3	27.80	267.54
100.00	10 14 21	1916.15	-19.66	19.49	206.79	112.98	10 46 17	1316.2	-16.38	12.23
100.00	18 24 45	5502.93	28.52	255.10	220.33	99.35	19 56 28	4902.9	29.52	246.44
110.00	11 3 54	1760.93	-24.02	5.62	204.70	115.08	11 33 15	1160.9	-20.44	358.31
110.00	19 51 41	5230.92	33.24	235.31	221.19	98.47	21 18 52	4630.9	34.05	226.16

DIFFERENTIAL CORRECTIONS

TDE	-.4815	TRA	-1.4644	TC3	-.1220	BAU	.2055												
RDE	-.7874	RRA	.3740	RC3	-.0185	FAU	.01399												
FDE	.2734	FRA	.6520	FC3	-.0972	BSP	2324												
BDE	.9230	BRA	1.5114	BC3	.1234	FSP	-80												

MID-COURSE EXECUTION ACCURACY

SGT	862.2	SGR	452.6	SG3	37.4														
RRT	-.1131	RRF	.1089	RTF	-.6601														
SGB	973.7	R23	-.0066	R13	.6609														
SG1	864.2	SG2	448.6	THA	175.35														

ORBIT DETERMINATION ACCURACY

ST	340.5	SR	408.7	SS	303.6														
CRT	.6180	CRS	.7068	CST	.9910														
LSA	558.0	MSA	252.1	SSA	14.0														
EL1	480.8	EL2	227.5	ALF	53.28														

LAUNCH DATE OCT 17 1965 FLIGHT TIME 74.00 ARRIVAL DATE DEC 30 1965

HELIOCENTRIC CONIC DISTANCE 156.901

RL	149.08	LAL	.00	LOL	23.41	VL	20.672	GAL	11.13	AZL	89.63	HCA	58.23	SMA	98.08	ECC	.54552	INC	.3668	VI	29.889
RP	107.73	LAP	.31	LOP	81.64	VP	33.327	GAP	-32.63	AZP	89.81	TAL	170.40	TAP	228.63	RCA	44.57	APO	151.58	V2	35.176
RC	53.365	GL	.70	GP	-4.65	ZAL	64.99	ZAP	22.37	ETS	165.56	ZAE	149.59	ETE	191.94	ZAC	26.09	ETC	130.34	CLP	21.90

PLANETOCENTRIC CONIC

C3	112.296	VHL	10.597	DLA	-14.64	RAL	320.64	RAD	6570.1	VEL	15.285	PTH	2.74	VHP	19.236	DPA	-28.95	RAP	285.11	ECC	2.8481

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 58 5	2156.30	-18.11	37.82	207.01	112.14	9 34 1	1556.3	-14.95	30.57
90.00	17 4 46	5746.14	27.22	272.76	218.95	98.11	18 40 32	5146.1	28.06	264.19
100.00	10 11 33	1919.22	-19.74	19.68	206.30	112.91	10 43 33	1319.2	-16.47	12.42
100.00	18 33 58	5458.45	28.97	251.87	219.22	97.71	20 4 56	4858.4	29.73	243.15
110.00	11 2 13	1760.53	-24.01	5.59	204.25	115.09	11 31 34	1160.5	-20.43	358.28
110.00	19 59 47	5189.91	33.61	232.16	219.91	96.65	21 26 17	4589.9	34.16	222.96

DIFFERENTIAL CORRECTIONS

TDE	-.4847	TRA	-1.4681	TC3	-.1266	BAU	.1931												
RDE	-.7484	RRA	.3688	RC3	-.0224	FAU	.01428												
FDE	.2906	FRA	.6768	FC3	-.1101	BSP	2486												
BDE	.8916	BRA	1.5137	BC3	.1286	FSP	-89												

MID-COURSE EXECUTION ACCURACY

SGT	902.1	SGR	456.6	SG3	40.7														
RRT	-.1221	RRF	.1182	RTF	-.6793														
SGB	1011.1	R23	-.0075	R13	.6802														
SG1	904.4	SG2	452.0	THA	175.28														

ORBIT DETERMINATION ACCURACY

ST	359.6	SR	409.3	SS	322.3														
CRT	.6171	CRS	.7124	CST	.9900														
LSA	578.1	MSA	257.6	SSA	14.2														
EL1	491.2	EL2	235.8	ALF	50.94														

LAUNCH DATE OCT 17 1965 FLIGHT TIME 76.00 ARRIVAL DATE JAN 1 1966

HELIOCENTRIC CONIC DISTANCE 163.215

RL	149.08	LAL	.00	LOL	23.41	VL	21.196	GAL	10.62	AZL	89.43	HCA	61.46	SMA	99.69	ECC	.52060	INC	.5713	VI	29.889
RP	107.70	LAP	.50	LOP	84.87	VP	33.664	GAP	-31.07	AZP	89.73	TAL	169.88	TAP	231.34	RCA	47.79	APO	151.59	V2	35.186
RC	51.675	GL	1.18	GP	-4.83	ZAL	64.10	ZAP	20.93	ETS	164.24	ZAE	150.66	ETE	193.83	ZAC	27.42	ETC	132.70	CLP	20.38

PLANETOCENTRIC CONIC

C3	101.345	VHL	10.067	DLA	-13.91	RAL	321.36	RAD	6570.0	VEL	14.923	PTH	2.69	VHP	18.415	DPA	-29.03	RAP	287.08	ECC	2.6679

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 54 24	2160.60	-18.22	38.09	206.38	112.06	9 30 25	1560.6	-15.07	30.83
90.00	17 14 11	5698.99	27.63	269.37	217.72	96.46	18 49 10	5099.0	28.24	260.75
100.00	10 8 24	1921.87	-19.81	19.85	205.68	112.85	10 40 26	1321.9	-16.55	12.57
100.00	18 42 53	5412.95	29.34	248.54	217.93	95.99	20 13 6	4813.0	29.86	239.77
110.00	11 0 9	1759.75	-23.99	5.55	203.68	115.11	11 29 29	1159.8	-20.41	358.24
110.00	20 7 36	5147.83	33.89	228.91	218.44	94.74	21 33 24	4547.8	34.18	219.68

DIFFERENTIAL CORRECTIONS

TDE	-.4873	TRA	-1.4713	TC3	-.1304	BAU	.1805												
RDE	-.7099	RRA	.3630	RC3	-.0270	FAU	.01460												
FDE	.3086	FRA	.7021	FC3	-.1247	BSP	2657												
BDE	.8611	BRA	1.5154	BC3	.1332	FSP	-99												

MID-COURSE EXECUTION ACCURACY

SGT	943.4	SGR	459.9	SG3	44.3														
RRT	-.1319	RRF	.1285	RTF	-.6979														
SGB	1049.5	R23	-.0086	R13	.6988														
SG1	945.9	SG2	454.6	THA	175.21														

ORBIT DETERMINATION ACCURACY

ST	379.4	SR	409.0	SS	341.8														
CRT	.6157	CRS	.7176	CST	.9890														
LSA	599.2	MSA	262.4	SSA	14.4														
EL1	501.9	EL2	243.7	ALF	48.48														

LAUNCH DATE OCT 17 1965 FLIGHT TIME 78.00 ARRIVAL DATE JAN 3 1966

HELIOCENTRIC CONIC DISTANCE 169.595

RL 149.08 LAL .00 LOL 23.41 VL 21.684 GAL 10.12 AZL 89.24 HCA 64.69 SMA 101.29 ECC .49665 INC .7638 V1 29.889
RP 107.67 LAP .69 LOP 88.10 VP 33.984 GAP -29.58 AZP 89.67 TAL 169.40 TAP 234.08 RCA 50.98 APO 151.59 V2 35.196
RC 50.062 GL 1.70 GP -5.03 ZAL 63.29 ZAP 19.51 ETS 162.68 ZAE 151.83 ETE 196.04 ZAC 28.81 ETC 134.84 CLP 18.88

PLANETOCENTRIC CONIC

C3 91.519 VHL 9.567 DLA -13.15 RAL 322.00 RAD 6569.8 VEL 14.590 PTH 2.64 VHP 17.625 DPA -29.10 RAP 289.06 ECC 2.5062

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 50 21	2164.58	-18.32	38.34	205.63	111.97	9 26 26	1564.6	-15.18	31.07
90.00	17 23 19	5650.85	27.95	265.88	216.32	94.74	18 57 30	5050.9	28.31	257.23
100.00	10 4 51	1924.23	-19.88	19.99	204.95	112.80	10 36 55	1324.2	-16.62	12.72
100.00	18 51 30	5366.44	29.62	245.11	216.47	94.21	20 20 57	4766.4	29.89	236.32
110.00	10 57 41	1758.73	-23.96	5.48	202.99	115.14	11 27 0	1158.7	-20.37	358.17
110.00	20 15 9	5104.71	34.08	225.55	216.79	92.76	21 40 14	4504.7	34.09	216.31

DIFFERENTIAL CORRECTIONS

TDE -.4898 TRA-1.4741 TC3 -.1332 BAU .1677
RDE -.6720 RRA .3567 RC3 -.0324 FAU .01496
FDE .3275 FRA .7283 FC3 -.1415 BSP 2832
BDE .8315 BRA 1.5166 BC3 .1371 FSP -110

MID-COURSE EXECUTION ACCURACY

SGT 986.4 SGR 462.6 SG3 48.3
RRT -.1426 RRF .1397 RTF -.7158
SGB 1089.5 R23 -.0099 R13 .7167
SG1 989.2 SG2 456.5 THA 175.13

ORBIT DETERMINATION ACCURACY

ST 400.1 SR 407.8 SS 362.3
CRT .6139 CRS .7223 CST .9878
LSA 621.6 MSA 266.5 SSA 14.6
EL1 513.2 EL2 251.0 ALF 45.89

LAUNCH DATE OCT 17 1965 FLIGHT TIME 80.00 ARRIVAL DATE JAN 5 1966

HELIOCENTRIC CONIC DISTANCE 176.035

RL 149.08 LAL .00 LOL 23.41 VL 22.139 GAL 9.63 AZL 89.05 HCA 67.92 SMA 102.85 ECC .47366 INC .9465 V1 29.889
RP 107.64 LAP .88 LOP 91.33 VP 34.285 GAP -28.16 AZP 89.64 TAL 168.95 TAP 236.87 RCA 54.13 APO 151.57 V2 35.204
RC 48.537 GL 2.27 GP -5.25 ZAL 62.54 ZAP 18.13 ETS 160.83 ZAE 153.10 ETE 198.64 ZAC 30.25 ETC 136.78 CLP 17.38

PLANETOCENTRIC CONIC

C3 82.701 VHL 9.094 DLA -12.38 RAL 322.55 RAD 6569.6 VEL 14.285 PTH 2.60 VHP 16.863 DPA -29.16 RAP 291.05 ECC 2.3610

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 45 54	2168.42	-18.42	38.58	204.76	111.89	9 22 2	1568.4	-15.29	31.30
90.00	17 32 10	5601.72	28.17	262.30	214.76	92.96	19 5 32	5001.7	28.29	253.64
100.00	10 0 53	1926.46	-19.93	20.13	204.11	112.75	10 33 0	1326.5	-16.68	12.85
100.00	18 59 51	5318.91	29.81	241.59	214.85	92.36	20 28 30	4718.9	29.82	232.78
110.00	10 54 48	1757.60	-23.93	5.41	202.19	115.17	11 24 6	1157.6	-20.34	358.11
110.00	20 22 26	5060.54	34.18	222.11	214.99	90.73	21 46 46	4460.5	33.90	212.87

DIFFERENTIAL CORRECTIONS

TDE -.4940 TRA-1.4784 TC3 -.1358 BAU .1561
RDE -.6346 RRA .3502 RC3 -.0386 FAU .01535
FDE .3477 FRA .7554 FC3 -.1607 BSP 2960
BDE .8042 BRA 1.5193 BC3 .1412 FSP -121

MID-COURSE EXECUTION ACCURACY

SGT 1033.1 SGR 464.6 SG3 52.6
RRT -.1534 RRF .1520 RTF -.7323
SGB 1132.7 R23 -.0124 R13 .7333
SG1 1036.1 SG2 457.7 THA 175.09

ORBIT DETERMINATION ACCURACY

ST 422.8 SR 405.5 SS 383.9
CRT .6128 CRS .7267 CST .9868
LSA 646.2 MSA 269.7 SSA 14.8
EL1 526.2 EL2 257.5 ALF 43.05

LAUNCH DATE OCT 17 1965 FLIGHT TIME 82.00 ARRIVAL DATE JAN 7 1966

HELIOCENTRIC CONIC DISTANCE 182.531

RL 149.08 LAL .00 LOL 23.41 VL 22.562 GAL 9.15 AZL 88.88 HCA 71.16 SMA 104.38 ECC .45166 INC 1.1208 V1 29.889
RP 107.62 LAP 1.06 LOP 94.57 VP 34.568 GAP -26.80 AZP 89.64 TAL 168.54 TAP 239.69 RCA 57.24 APO 151.53 V2 35.213
RC 47.108 GL 2.89 GP -5.48 ZAL 61.87 ZAP 16.78 ETS 158.61 ZAE 154.46 ETE 201.71 ZAC 31.74 ETC 138.53 CLP 15.89

PLANETOCENTRIC CONIC

C3 74.786 VHL 8.648 DLA -11.58 RAL 323.01 RAD 6569.5 VEL 14.005 PTH 2.55 VHP 16.129 DPA -29.22 RAP 293.06 ECC 2.2308

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 41 0	2172.28	-18.52	38.82	203.79	111.81	9 17 12	1572.3	-15.40	31.54
90.00	17 40 46	5551.60	28.30	258.64	213.04	91.13	19 13 17	4951.6	28.15	249.98
100.00	9 56 29	1928.75	-19.99	20.28	203.16	112.70	10 28 38	1328.7	-16.75	12.99
100.00	19 7 57	5270.37	29.89	237.98	213.07	90.47	20 35 48	4670.4	29.63	229.19
110.00	10 51 29	1756.52	-23.90	5.34	201.29	115.20	11 20 45	1156.5	-20.30	358.04
110.00	20 29 27	5015.36	34.16	218.58	213.03	88.64	21 53 3	4415.4	33.59	209.38

DIFFERENTIAL CORRECTIONS

TDE -.4961 TRA-1.4800 TC3 -.1360 BAU .1435
RDE -.5979 RRA .3433 RC3 -.0458 FAU .01579
FDE .3688 FRA .7834 FC3 -.1828 BSP 3139
BDE .7769 BRA 1.5193 BC3 .1435 FSP -134

MID-COURSE EXECUTION ACCURACY

SGT 1079.4 SGR 465.9 SG3 57.3
RRT -.1662 RRF .1658 RTF -.7486
SGB 1175.7 R23 -.0142 R13 .7496
SG1 1082.8 SG2 458.0 THA 175.00

ORBIT DETERMINATION ACCURACY

ST 445.3 SR 402.2 SS 406.4
CRT .6104 CRS .7306 CST .9855
LSA 671.5 MSA 272.2 SSA 14.9
EL1 539.3 EL2 263.1 ALF 40.26

LAUNCH DATE OCT 17 1965 FLIGHT TIME 84.00 ARRIVAL DATE JAN 9 1966

HELIOCENTRIC CONIC DISTANCE 189.076

RL 149.08 LAL .00 LOL 23.41 VL 22.957 GAL 8.68 AZL 88.71 HCA 74.39 SMA 105.88 ECC .43065 INC 1.2888 V1 29.889
RP 107.60 LAP 1.24 LOP 97.80 VP 34.835 GAP -25.49 AZP 89.65 TAL 168.17 TAP 242.56 RCA 60.28 APO 151.47 V2 35.220
RC 45.785 GL 3.56 GP -5.74 ZAL 61.28 ZAP 15.48 ETS 155.93 ZAE 155.88 ETE 205.38 ZAC 33.28 ETC 140.11 CLP 14.40

PLANETOCENTRIC CONIC

C3 67.684 VHL 8.227 DLA -10.75 RAL 323.38 RAD 6569.3 VEL 13.749 PTH 2.51 VHP 15.422 DPA -29.28 RAP 295.08 ECC 2.1139

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 35 38	2176.39	-18.62	39.08	202.72	111.72	9 11 54	1576.4	-15.51	31.78
90.00	17 49 7	5500.49	28.31	254.90	211.19	89.25	19 20 47	4900.5	27.90	246.26
100.00	9 51 37	1931.28	-20.06	20.43	202.10	112.64	10 23 48	1331.3	-16.82	13.14
100.00	19 15 49	5220.84	29.86	234.30	211.15	88.53	20 42 50	4620.8	29.34	225.54
110.00	10 47 41	1755.69	-23.87	5.29	200.28	115.22	11 16 57	1155.7	-20.28	357.99
110.00	20 36 14	4969.19	34.03	214.98	210.94	86.51	21 59 4	4369.2	33.17	205.85

DIFFERENTIAL CORRECTIONS

TDE -.4981 TRA-1.4806 TC3 -.1345 BAU .1312
RDE -.5618 RRA .3364 RC3 -.0540 FAU .01628
FDE .3914 FRA .8123 FC3 -.2083 BSP 3323
BDE .7508 BRA 1.5183 BC3 .1449 FSP -148

MID-COURSE EXECUTION ACCURACY

SGT 1127.3 SGR 466.7 SG3 62.5
RRT -.1803 RRF .1810 RTF -.7641
SGB 1220.1 R23 -.0164 R13 .7652
SG1 1131.1 SG2 457.6 THA 174.89

ORBIT DETERMINATION ACCURACY

ST 468.5 SR 397.7 SS 430.2
CRT .6076 CRS .7340 CST .9842
LSA 698.3 MSA 273.8 SSA 15.1
EL1 553.3 EL2 267.5 ALF 37.42

LAUNCH DATE OCT 17 1965 FLIGHT TIME 86.00 ARRIVAL DATE JAN 11 1966

HELIOCENTRIC CONIC DISTANCE 195.666

RL	149.08	LAL	.00	LOL	23.41	VL	23.324	GAL	8.22	AZL	88.55	HCA	77.63	SMA	107.33	ECC	.41063	INC	1.4516	VI	29.889
RP	107.57	LAP	1.42	LOP	101.04	VP	35.085	GAP	-24.24	AZP	89.69	TAL	167.84	TAP	245.47	RCA	63.26	APO	151.41	V2	35.227
RC	44.580	GL	4.28	GP	-6.03	ZAL	60.77	ZAP	14.22	ETS	152.66	ZAE	157.32	ETE	209.78	ZAC	34.85	ETC	141.54	CLP	12.91

PLANETOCENTRIC CONIC

C3	61.315	VHL	7.830	DLA	-9.89	RAL	323.67	RAD	6569.1	VEL	13.516	PTH	2.47	VHP	14.740	DPA	-29.34	RAP	297.10	ECC	2.0091

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 29 46	2180.96	-18.74	39.36	201.56	111.63	9 6 7	1581.0	-15.64	32.06
90.00	17 57 15	5448.40	28.20	251.10	209.20	87.35	19 28 3	4848.4	27.54	242.49
100.00	9 46 14	1934.28	-20.14	20.62	200.96	112.57	10 18 29	1334.3	-16.91	13.32
100.00	19 23 28	5170.31	29.71	230.55	209.11	86.56	20 49 38	4570.3	28.92	221.84
110.00	10 43 24	1755.30	-23.86	5.26	199.18	115.24	11 12 39	1155.3	-20.26	357.97
110.00	20 42 48	4922.06	33.77	211.32	208.73	84.36	22 4 50	4322.1	32.62	202.28

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY				ORBIT DETERMINATION ACCURACY			
TDE	-.4999	TRA	-1.4803	TC3	-.1308	BAU	.1192	SGT	1176.7	SGR	467.0	SG3	68.2	ST	492.6	SR	392.0	SS	455.3
RDE	-.5263	RRA	.3294	RC3	-.0635	FAU	.01683	RRT	-.1961	RRF	.1982	RTF	-.7788	CRT	.6042	CRS	.7369	CST	.9828
FDE	.4156	FRA	.8425	FC3	-.2376	BSP	3515	SGB	1265.9	R23	-.0188	R13	.7799	LSA	726.6	MSA	274.6	SSA	15.3
BDE	.7259	BRA	1.5165	BC3	.1454	FSP	-164	SG1	1180.9	SG2	456.3	THA	174.77	ELI	568.3	EL2	270.8	ALF	34.57

LAUNCH DATE OCT 17 1965 FLIGHT TIME 88.00 ARRIVAL DATE JAN 13 1966

HELIOCENTRIC CONIC DISTANCE 202.296

RL	149.08	LAL	.00	LOL	23.41	VL	23.666	GAL	7.78	AZL	88.39	HCA	80.87	SMA	108.75	ECC	.39158	INC	1.6104	VI	29.889
RP	107.55	LAP	1.59	LOP	104.28	VP	35.319	GAP	-23.04	AZP	89.74	TAL	167.56	TAP	248.43	RCA	66.16	APO	151.33	V2	35.234
RC	43.503	GL	5.07	GP	-6.34	ZAL	60.33	ZAP	13.04	ETS	148.66	ZAE	158.72	ETE	215.06	ZAC	36.46	ETC	142.83	CLP	11.41

PLANETOCENTRIC CONIC

C3	55.606	VHL	7.457	DLA	-8.99	RAL	323.86	RAD	6569.0	VEL	13.303	PTH	2.43	VHP	14.082	DPA	-29.40	RAP	299.13	ECC	1.9151

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 23 23	2186.26	-18.87	39.70	200.31	111.51	8 59 49	1586.3	-15.78	32.38
90.00	18 5 12	5395.32	27.97	247.23	207.11	85.42	19 35 7	4795.3	27.05	238.69
100.00	9 40 20	1937.99	-20.24	20.86	199.73	112.48	10 12 38	1338.0	-17.01	13.54
100.00	19 30 55	5118.82	29.44	226.75	206.96	84.58	20 56 14	4518.8	28.38	218.11
110.00	10 38 35	1755.58	-23.87	5.28	197.99	115.23	11 7 51	1155.6	-20.27	357.99
110.00	20 49 9	4874.00	33.39	207.62	206.42	82.20	22 10 23	4274.0	31.95	198.69

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY				ORBIT DETERMINATION ACCURACY			
TDE	-.5019	TRA	-1.4789	TC3	-.1245	BAU	.1079	SGT	1227.5	SGR	466.7	SG3	74.4	ST	517.5	SR	385.0	SS	481.9
RDE	-.4914	RRA	.3225	RC3	-.0744	FAU	.01743	RRT	-.2137	RRF	.2174	RTF	-.7928	CRT	.6004	CRS	.7392	CST	.9814
FDE	.4417	FRA	.8740	FC3	-.2714	BSP	3709	SGB	1313.2	R23	-.0216	R13	.7940	LSA	756.8	MSA	274.5	SSA	15.4
BDE	.7024	BRA	1.5137	BC3	.1451	FSP	-182	SG1	1232.2	SG2	454.2	THA	174.62	ELI	584.6	EL2	272.6	ALF	31.72

LAUNCH DATE OCT 17 1965 FLIGHT TIME 90.00 ARRIVAL DATE JAN 15 1966

HELIOCENTRIC CONIC DISTANCE 208.960

RL	149.08	LAL	.00	LOL	23.41	VL	23.984	GAL	7.34	AZL	88.23	HCA	84.11	SMA	110.11	ECC	.37351	INC	1.7665	VI	29.889
RP	107.54	LAP	1.76	LOP	107.52	VP	35.539	GAP	-21.89	AZP	89.82	TAL	167.33	TAP	251.44	RCA	68.99	APO	151.24	V2	35.239
RC	42.563	GL	5.92	GP	-6.69	ZAL	59.98	ZAP	11.95	ETS	143.73	ZAE	160.02	ETE	221.39	ZAC	38.09	ETC	143.99	CLP	9.92

PLANETOCENTRIC CONIC

C3	50.495	VHL	7.106	DLA	-8.05	RAL	323.97	RAD	6568.9	VEL	13.109	PTH	2.39	VHP	13.448	DPA	-29.47	RAP	301.16	ECC	1.8310

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 16 25	2192.54	-19.03	40.09	198.98	111.37	8 52 57	1592.5	-15.96	32.76
90.00	18 12 58	5341.28	27.62	243.32	204.92	83.49	19 42 0	4741.3	26.43	234.85
100.00	9 33 52	1942.67	-20.36	21.15	198.42	112.37	10 6 14	1342.7	-17.15	13.83
100.00	19 38 12	5066.38	29.04	222.90	204.72	82.59	21 2 39	4466.4	27.71	214.35
110.00	10 33 14	1756.77	-23.90	5.36	196.73	115.19	11 2 31	1156.8	-20.31	358.06
110.00	20 55 19	4825.04	32.87	203.90	204.04	80.05	22 15 44	4225.0	31.15	195.10

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY				ORBIT DETERMINATION ACCURACY			
TDE	-.5039	TRA	-1.4763	TC3	-.1154	BAU	.0975	SGT	1279.5	SGR	466.0	SG3	81.2	ST	543.3	SR	376.5	SS	510.3
RDE	-.4571	RRA	.3158	RC3	-.0868	FAU	.01811	RRT	-.2334	RRF	.2391	RTF	-.8060	CRT	.5960	CRS	.7409	CST	.9799
FDE	.4700	FRA	.9069	FC3	-.3104	BSP	3907	SGB	1361.8	R23	-.0249	R13	.8073	LSA	788.9	MSA	273.4	SSA	15.6
BDE	.6803	BRA	1.5097	BC3	.1444	FSP	-202	SG1	1284.8	SG2	451.3	THA	174.45	EL1	602.1	EL2	272.8	ALF	28.91

LAUNCH DATE OCT 17 1965 FLIGHT TIME 92.00 ARRIVAL DATE JAN 17 1966

HELIOCENTRIC CONIC DISTANCE 215.654

RL	149.08	LAL	.00	LOL	23.41	VL	24.280	GAL	6.93	AZL	88.08	HCA	87.35	SMA	111.43	ECC	.35639	INC	1.9207	VI	29.889
RP	107.52	LAP	1.92	LOP	110.76	VP	35.744	GAP	-20.79	AZP	89.91	TAL	167.15	TAP	254.50	RCA	71.72	APO	151.15	V2	35.244
RC	41.769	GL	6.85	GP	-7.08	ZAL	59.72	ZAP	10.98	ETS	137.69	ZAE	161.13	ETE	228.86	ZAC	39.75	ETC	145.03	CLP	8.41

PLANETOCENTRIC CONIC

C3	45.924	VHL	6.777	DLA	-7.08	RAL	323.97	RAD	6568.7	VEL	12.934	PTH	2.36	VHP	12.837	DPA	-29.55	RAP	303.20	ECC	1.7558

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 8 50	2200.08	-19.21	40.57	197.59	111.21	8 45 30	1600.1	-16.16	33.22
90.00	18 28 37	5286.27	27.13	239.37	202.65	81.57	19 48 43	4686.3	25.69	231.00
100.00	9 26 47	1948.59	-20.51	21.52	197.04	112.23	9 59 16	1348.6	-17.32	14.19
100.00	19 45 20	5012.99	28.51	219.02	202.41	80.62	21 8 53	4413.0	26.92	210.58
110.00	10 27 18	1759.14	-23.97	5.51	195.40	115.13	10 56 37	1159.1	-20.39	358.20
110.00	21 1 19	4775.21	32.23	200.15	201.59	77.93	22 20 55	4175.2	30.23	191.51

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY				ORBIT DETERMINATION ACCURACY			
TDE	-.5062	TRA	-1.4724	TC3	-.1029	BAU	.0885	SGT	1332.8	SGR	465.1	SG3	88.7	ST	569.9	SR	366.5	SS	540.6
RDE	-.4232	RRA	.3095	RC3	-.1010	FAU	.01885	RRT	-.2558	RRF	.2636	RTF	-.8186	CRT	.5908	CRS	.7416	CST	.9785
FDE	.5010	FRA	.9416	FC3	-.3553	BSP	4111	SGB	1411.6	R23	-.0285	R13	.8200	LSA	823.0	MSA	271.5	SSA	15.7
BDE	.6598	BRA	1.5046	BC3	.1441	FSP	-223	SG1	1338.7	SG2	447.6	THA	174.25	EL1	620.8	EL2	271.4	ALF	26.16

LAUNCH DATE OCT 17 1965 FLIGHT TIME 94.00 ARRIVAL DATE JAN 19 1966

HELIOCENTRIC CONIC DISTANCE 222.374

RL	149.08	LAL	.00	LOL	23.41	VL	24.554	GAL	6.52	AZL	87.93	HCA	90.59	SMA	112.70	ECC	.34020	INC	2.0742	VI	29.889
RP	107.51	LAP	2.07	LOP	114.01	VP	35.935	GAP	-19.72	AZP	90.02	TAL	167.01	TAP	257.61	RCA	74.36	APO	151.04	V2	35.249
RC	41.131	GL	7.85	GP	-7.50	ZAL	59.54	ZAP	10.18	ETS	130.37	ZAE	161.93	ETE	237.47	ZAC	41.43	ETC	145.96	CLP	6.90

PLANETOCENTRIC CONIC

C3	41.843	VHL	6.469	DLA	-6.05	RAL	323.89	RAD	6568.6	VEL	12.775	PTH	2.32	VHP	12.249	DPA	-29.66	RAP	305.23	ECC	1.6886

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 0 36	2209.20	-19.44	41.14	196.14	111.01	8 37 26	1609.2	-16.41	33.77
90.00	18 28 9	5230.30	26.51	235.39	200.33	79.67	19 55 20	4630.3	24.81	227.13
100.00	9 19 5	1956.05	-20.70	22.00	195.61	112.06	9 51 41	1356.1	-17.53	14.64
100.00	19 52 22	4958.68	27.85	215.12	200.04	78.67	21 15 1	4358.7	26.00	206.81
110.00	10 20 45	1762.95	-24.08	5.75	194.02	115.03	10 50 8	1163.0	-20.51	358.43
110.00	21 7 11	4724.55	31.44	196.41	199.10	75.84	22 25 55	4124.5	29.18	187.94

DIFFERENTIAL CORRECTIONS

TDE	-.5093	TRA	-1.4673	TC3	-.0867	BAU	.0815												
RDE	-.3897	RRA	.3037	RC3	-.1170	FAU	.01967												
FDE	.5352	FRA	.9781	FC3	-.4069	BSP	4313												
BDE	.6413	BRA	1.4984	BC3	.1456	FSP	-247												

MID-COURSE EXECUTION ACCURACY

SGT	1387.2	SGR	464.0	SG3	97.0						
RRT	-.2810	RRF	.2913	RTF	-.8304						
SGB	1462.7	R23	-.0327	R13	.8320						
SG1	1394.0	SG2	443.1	THA	174.02						

ORBIT DETERMINATION ACCURACY

ST	597.7	SR	354.7	SS	573.2						
CRT	.5846	CRS	.7412	CST	.9771						
LSA	859.7	MSA	268.6	SSA	15.8						
EL1	641.1	EL2	268.2	ALF	23.48						

LAUNCH DATE OCT 17 1965 FLIGHT TIME 96.00 ARRIVAL DATE JAN 21 1966

HELIOCENTRIC CONIC DISTANCE 229.114

RL	149.08	LAL	.00	LOL	23.41	VL	24.809	GAL	6.14	AZL	87.77	HCA	93.83	SMA	113.92	ECC	.32494	INC	2.2279	VI	29.889
RP	107.50	LAP	2.22	LOP	117.25	VP	36.114	GAP	-18.69	AZP	90.15	TAL	166.93	TAP	260.76	RCA	76.90	APO	150.94	V2	35.252
RC	40.657	GL	8.92	GP	-7.97	ZAL	59.46	ZAP	9.60	ETS	121.73	ZAE	162.32	ETE	246.95	ZAC	43.13	ETC	146.78	CLP	5.37

PLANETOCENTRIC CONIC

C3	38.206	VHL	6.181	DLA	-4.97	RAL	323.71	RAD	6568.5	VEL	12.632	PTH	2.29	VHP	11.682	DPA	-29.78	RAP	307.25	ECC	1.6288

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 51 41	2220.21	-19.70	41.84	194.65	110.76	8 28 41	1620.2	-16.71	34.45
90.00	18 35 38	5173.37	25.75	231.39	197.97	77.80	20 1 51	4573.4	23.81	223.26
100.00	9 10 41	1965.36	-20.94	22.59	194.14	111.83	9 43 27	1365.4	-17.79	15.21
100.00	19 59 19	4903.45	27.05	211.21	197.64	76.76	21 21 2	4303.5	24.95	203.04
110.00	10 13 34	1768.49	-24.24	6.10	192.59	114.87	10 43 3	1168.5	-20.68	358.76
110.00	21 12 55	4673.08	30.53	192.68	196.60	73.81	22 30 48	4073.1	28.01	184.39

DIFFERENTIAL CORRECTIONS

TDE	-.5132	TRA	-1.4612	TC3	-.0664	BAU	.0769												
RDE	-.3566	RRA	.2986	RC3	-.1352	FAU	.02058												
FDE	.5730	FRA	1.0168	FC3	-.4663	BSP	4520												
BDE	.6249	BRA	1.4914	BC3	.1506	FSP	-274												

MID-COURSE EXECUTION ACCURACY

SGT	1442.8	SGR	463.0	SG3	106.2						
RRT	-.3095	RRF	.3227	RTF	-.8415						
SGB	1515.2	R23	-.0377	R13	.8432						
SG1	1450.6	SG2	437.9	THA	173.76						

ORBIT DETERMINATION ACCURACY

ST	626.6	SR	341.0	SS	608.1						
CRT	.5769	CRS	.7392	CST	.9758						
LSA	899.1	MSA	264.8	SSA	16.0						
EL1	663.0	EL2	263.2	ALF	20.86						

LAUNCH DATE OCT 17 1965 FLIGHT TIME 98.00 ARRIVAL DATE JAN 23 1966

HELIOCENTRIC CONIC DISTANCE 235.871

RL	149.08	LAL	.00	LOL	23.41	VL	25.046	GAL	5.76	AZL	87.62	HCA	97.08	SMA	115.08	ECC	.31057	INC	2.3828	VI	29.889
RP	107.49	LAP	2.36	LOP	120.50	VP	36.279	GAP	-17.71	AZP	90.29	TAL	166.90	TAP	263.97	RCA	79.34	APO	150.83	V2	35.255
RC	40.351	GL	10.09	GP	-8.50	ZAL	59.47	ZAP	9.31	ETS	111.99	ZAE	162.22	ETE	256.80	ZAC	44.84	ETC	147.51	CLP	3.82

PLANETOCENTRIC CONIC

C3	34.973	VHL	5.914	DLA	-3.83	RAL	323.43	RAD	6568.4	VEL	12.504	PTH	2.26	VHP	11.137	DPA	-29.94	RAP	309.28	ECC	1.5756

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 42 1	2233.44	-20.02	42.68	193.12	110.45	8 19 15	1633.4	-17.06	35.26
90.00	18 43 4	5115.46	24.86	227.38	195.59	75.99	20 8 20	4515.5	22.69	219.39
100.00	9 1 34	1976.82	-21.23	23.31	192.63	111.55	9 34 31	1376.8	-18.11	15.91
100.00	20 6 12	4847.31	26.11	207.30	195.23	74.90	21 27 0	4247.3	23.78	199.28
110.00	10 5 42	1776.06	-24.46	6.58	191.13	114.66	10 35 18	1176.1	-20.92	359.22
110.00	21 18 34	4620.83	29.47	188.98	194.09	71.85	22 35 35	4020.8	26.71	180.88

DIFFERENTIAL CORRECTIONS

TDE	-.5182	TRA	-1.4536	TC3	-.0418	BAU	.0754												
RDE	-.3236	RRA	.2943	RC3	-.1557	FAU	.02158												
FDE	.6155	FRA	1.0578	FC3	-.5341	BSP	4720												
BDE	.6110	BRA	1.4831	BC3	.1612	FSP	-303												

MID-COURSE EXECUTION ACCURACY

SGT	1499.0	SGR	462.5	SG3	116.2						
RRT	-.3417	RRF	.3583	RTF	-.8520						
SGB	1568.7	R23	-.0434	R13	.8539						
SG1	1508.0	SG2	432.0	THA	173.44						

ORBIT DETERMINATION ACCURACY

ST	656.8	SR	325.1	SS	646.2						
CRT	.5673	CRS	.7350	CST	.9746						
LSA	941.7	MSA	260.1	SSA	16.1						
EL1	686.7	EL2	256.1	ALF	18.32						

LAUNCH DATE OCT 17 1965 FLIGHT TIME 100.00 ARRIVAL DATE JAN 25 1966

HELIOCENTRIC CONIC DISTANCE 242.640

RL	149.08	LAL	.00	LOL	23.41	VL	25.265	GAL	5.41	AZL	87.46	HCA	100.32	SMA	116.20	ECC	.29707	INC	2.5399	VI	29.889
RP	107.48	LAP	2.50	LOP	123.75	VP	36.433	GAP	-16.75	AZP	90.46	TAL	166.91	TAP	267.23	RCA	81.68	APO	150.71	V2	35.257
RC	40.219	GL	11.34	GP	-9.09	ZAL	59.57	ZAP	9.36	ETS	101.71	ZAE	161.61	ETE	266.39	ZAC	46.57	ETC	148.15	CLP	2.25

PLANETOCENTRIC CONIC

C3	32.107	VHL	5.666	DLA	-2.63	RAL	323.05	RAD	6568.3	VEL	12.389	PTH	2.24	VHP	10.613	DPA	-30.14	RAP	311.29	ECC	1.5284

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 31 35	2249.21	-20.39	43.69	191.58	110.08	8 9 4	1649.2	-17.47	36.23
90.00	18 50 32	5056.57	23.83	223.38	193.20	74.23	20 14 49	4456.6	21.44	215.52
100.00	8 51 42	1990.78	-21.57	24.21	191.10	111.21	9 24 52	1390.8	-18.50	16.76
100.00	20 13 6	4790.24	25.04	203.40	192.81	73.11	21 32 56	4190.2	22.49	195.53
110.00	9 57 7	1785.96	-24.74	7.21	189.66	114.38	10 26 53	1186.0	-21.24	359.82
110.00	21 24 10	4567.82	28.29	185.30	191.60	69.97	22 40 18	3967.8	25.30	177.40

DIFFERENTIAL CORRECTIONS

TDE	-.5241	TRA	-1.4448	TC3	-.0119	BAU	.0769												
RDE	-.2906	RRA	.2910	RC3	-.1787	FAU	.02269												
FDE	.6631	FRA	1.1013	FC3	-.6117	BSP	4932												
BDE	.5993	BRA	1.4738	BC3	.1791	FSP	-336												

MID-COURSE EXECUTION ACCURACY

SGT	1555.6	SGR	462.8	SG3	127.4						
RRT	-.3783	RRF	.3984	RTF	-.8619						
SGB	1622.9	R23	-.0496	R13	.8640						
SG1	1566.2	SG2	425.5	THA	173.06						

ORBIT DETERMINATION ACCURACY

ST	688.0	SR	306.9	SS	687.3						
CRT	.5539	CRS	.7274	CST	.9735						
LSA	987.3	MSA	254.8	SSA	16.1						
EL1	711.7	EL2	247.0	ALF	15.84						

LAUNCH DATE OCT 17 1965 FLIGHT TIME 102.00 ARRIVAL DATE JAN 27 1966

HELIOCENTRIC CONIC DISTANCE 249.419

RL	149.08	LAL	.00	LOL	23.41	VL	25.468	GAL	5.07	AZL	87.30	HCA	103.57	SMA	117.25	ECC	.28441	INC	2.7003	V1	29.889
RP	107.48	LAP	2.62	LOP	127.00	VP	36.575	GAP	-15.83	AZP	90.63	TAL	166.98	TAP	270.54	RCA	83.90	APO	150.60	V2	35.259
RC	40.263	GL	12.70	GP	-9.74	ZAL	59.77	ZAP	9.76	ETS	91.65	ZAE	160.52	ETE	275.14	ZAC	48.31	ETC	148.70	CLP	.65

PLANETOCENTRIC CONIC

C3	29.577	VHL	5.439	DLA	-1.37	RAL	322.58	RAD	6568.2	VEL	12.286	PTH	2.21	VHP	10.110	DPA	-30.40	RAP	313.30	ECC	1.4868

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 20 18	2267.90	-20.83	44.89	190.03	109.63	7 58 6	1667.9	-17.96	37.38
90.00	18 58 4	4996.66	22.66	219.37	190.84	72.55	20 21 21	4396.7	20.06	211.67
100.00	8 41 0	2007.56	-21.98	25.28	189.57	110.78	9 14 28	1407.6	-18.96	17.79
100.00	20 20 3	4732.24	23.83	199.51	190.42	71.40	21 38 55	4132.2	21.07	191.81
110.00	9 47 47	1798.50	-25.09	8.02	188.18	114.02	10 17 46	1198.5	-21.63	.58
110.00	21 29 45	4514.06	26.99	181.67	189.14	68.17	22 44 59	3914.1	23.78	173.97

DIFFERENTIAL CORRECTIONS

TDE	-.5323	TRA	-1.4332	TC3	.0247	BAU	.0814												
RDE	-.2573	RRA	.2890	RC3	-.2045	FAU	.02391												
FDE	.7171	FRA	1.1479	FC3	-.6997	BSP	5156												
BDE	.5913	BRA	1.4620	BC3	.2060	FSP	-373												

MID-COURSE EXECUTION ACCURACY

SGT	1611.3	SGR	464.4	SG3	139.7						
RRT	-.4194	RRF	.4434	RTF	-.8719						
SGB	1676.9	R23	-.0564	R13	.8743						
SG1	1623.9	SG2	418.3	THA	172.61						

ORBIT DETERMINATION ACCURACY

ST	721.0	SR	286.2	SS	732.4						
CRT	.5363	CRS	.7148	CST	.9729						
LSA	1037.4	MSA	248.4	SSA	16.2						
EL1	739.1	EL2	235.6	ALF	13.40						

LAUNCH DATE OCT 17 1965 FLIGHT TIME 104.00 ARRIVAL DATE JAN 29 1966

HELIOCENTRIC CONIC DISTANCE 256.202

RL	149.08	LAL	.00	LOL	23.41	VL	25.656	GAL	4.74	AZL	87.13	HCA	106.81	SMA	118.26	ECC	.27257	INC	2.8652	V1	29.889
RP	107.48	LAP	2.74	LOP	130.24	VP	36.707	GAP	-14.95	AZP	90.83	TAL	167.09	TAP	273.90	RCA	86.02	APO	150.49	V2	35.259
RC	40.482	GL	14.14	GP	-10.48	ZAL	60.08	ZAP	10.53	ETS	82.52	ZAE	159.03	ETE	282.69	ZAC	50.06	ETC	149.16	CLP	-.98

PLANETOCENTRIC CONIC

C3	27.355	VHL	5.230	DLA	-.03	RAL	322.02	RAD	6568.1	VEL	12.195	PTH	2.19	VHP	9.627	DPA	-30.71	RAP	315.31	ECC	1.4502

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 8 8	2289.85	-21.32	46.31	188.49	109.09	7 46 18	1689.8	-18.52	38.75
90.00	19 5 43	4935.70	21.36	215.38	188.51	70.96	20 27 59	4335.7	18.57	207.82
100.00	8 29 27	2027.51	-22.46	26.58	188.05	110.26	9 3 15	1427.5	-19.50	19.03
100.00	20 27 5	4673.27	22.50	195.64	188.07	69.78	21 44 58	4073.3	19.54	188.09
110.00	9 37 40	1813.99	-25.51	9.02	186.71	113.56	10 7 54	1214.0	-22.11	1.53
110.00	21 35 21	4459.56	25.56	178.08	186.73	66.48	22 49 41	3859.6	22.15	170.58

DIFFERENTIAL CORRECTIONS

TDE	-.5406	TRA	-1.4224	TC3	.0624	BAU	.0883												
RDE	-.2234	RRA	.2884	RC3	-.2333	FAU	.02526												
FDE	.7783	FRA	1.1975	FC3	-.7993	BSP	5357												
BDE	.5849	BRA	1.4513	BC3	.2415	FSP	-413												

MID-COURSE EXECUTION ACCURACY

SGT	1668.2	SGR	468.3	SG3	153.3						
RRT	-.4650	RRF	.4933	RTF	-.8798						
SGB	1732.7	R23	-.0652	R13	.8825						
SG1	1683.3	SG2	410.8	THA	172.09						

ORBIT DETERMINATION ACCURACY

ST	754.4	SR	262.6	SS	781.4						
CRT	.5079	CRS	.6941	CST	.9721						
LSA	1090.8	MSA	242.1	SSA	16.2						
EL1	767.3	EL2	222.4	ALF	10.96						

LAUNCH DATE OCT 17 1965 FLIGHT TIME 106.00 ARRIVAL DATE JAN 31 1966

HELIOCENTRIC CONIC DISTANCE 262.988

RL	149.08	LAL	.00	LOL	23.41	VL	25.829	GAL	4.43	AZL	86.96	HCA	110.05	SMA	119.20	ECC	.26153	INC	3.0358	V1	29.889
RP	107.48	LAP	2.85	LOP	133.50	VP	36.828	GAP	-14.09	AZP	91.04	TAL	167.25	TAP	277.30	RCA	88.03	APO	150.38	V2	35.259
RC	40.875	GL	15.70	GP	-11.31	ZAL	60.48	ZAP	11.61	ETS	74.69	ZAE	157.24	ETE	288.97	ZAC	51.82	ETC	149.54	CLP	-2.65

PLANETOCENTRIC CONIC

C3	25.414	VHL	5.041	DLA	1.39	RAL	321.36	RAD	6568.0	VEL	12.116	PTH	2.17	VHP	9.165	DPA	-31.11	RAP	317.30	ECC	1.4182

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 55 1	2315.45	-21.88	47.97	186.98	108.43	7 33 37	1715.4	-19.16	40.36
90.00	19 13 35	4873.63	19.93	211.39	186.23	69.46	20 34 48	4273.6	16.96	203.98
100.00	8 17 0	2050.99	-23.00	28.11	186.56	109.63	8 51 11	1451.0	-20.12	20.50
100.00	20 34 17	4613.32	21.04	191.79	185.77	68.26	21 51 10	4013.3	17.90	184.40
110.00	9 26 44	1832.76	-26.02	10.25	185.27	113.00	9 57 16	1232.8	-22.68	2.69
110.00	21 41 3	4404.32	24.01	174.53	184.38	64.90	22 54 27	3804.3	20.42	167.22

DIFFERENTIAL CORRECTIONS

TDE	-.5521	TRA	-1.4100	TC3	.1062	BAU	.0970												
RDE	-.1885	RRA	.2896	RC3	-.2652	FAU	.02672												
FDE	.8483	FRA	1.2508	FC3	-.9101	BSP	5556												
BDE	.5834	BRA	1.4394	BC3	.2856	FSP	-458												

MID-COURSE EXECUTION ACCURACY

SGT	1724.8	SGR	475.1	SG3	168.3						
RRT	-.5147	RRF	.5477	RTF	-.8879						
SGB	1789.0	R23	-.0749	R13	.8910						
SG1	1743.0	SG2	403.1	THA	171.47						

ORBIT DETERMINATION ACCURACY

ST	790.6	SR	236.1	SS	835.2						
CRT	.4659	CRS	.6597	CST	.9718						
LSA	1150.1	MSA	235.2	SSA	16.1						
EL1	798.8	EL2	206.8	ALF	8.49						

LAUNCH DATE OCT 17 1965 FLIGHT TIME 108.00 ARRIVAL DATE FEB 2 1966

HELIOCENTRIC CONIC DISTANCE 269.772

RL	149.08	LAL	.00	LOL	23.41	VL	25.989	GAL	4.14	AZL	86.79	HCA	113.30	SMA	120.10	ECC	.25125	INC	3.2136	V1	29.889
RP	107.48	LAP	2.95	LOP	136.75	VP	36.939	GAP	-13.27	AZP	91.27	TAL	167.45	TAP	280.75	RCA	89.92	APO	150.27	V2	35.258
RC	41.437	GL	17.35	GP	-12.25	ZAL	60.98	ZAP	12.99	ETS	68.27	ZAE	155.24	ETE	294.02	ZAC	53.59	ETC	149.84	CLP	-4.36

PLANETOCENTRIC CONIC

C3	23.733	VHL	4.872	DLA	2.88	RAL	320.61	RAD	6568.0	VEL	12.046	PTH	2.15	VHP	8.724	DPA	-31.60	RAP	319.30	ECC	1.3906

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 40 54	2345.09	-22.51	49.92	185.51	107.65	7 19 59	1745.1	-19.88	42.23
90.00	19 21 42	4810.37	18.37	207.40	184.01	68.06	20 41 53	4210.4	15.23	200.13
100.00	8 3 35	2078.38	-23.62	29.91	185.11	108.87	8 38 14	1478.4	-20.82	22.23
100.00	20 41 42	4552.31	19.45	187.95	183.54	66.84	21 57 35	3952.3	16.15	180.71
110.00	9 14 55	1855.13	-26.60	11.72	183.87	112.30	9 45 50	1255.1	-23.34	4.08
110.00	21 46 52	4348.33	22.35	171.04	182.10	63.43	22 59 20	3748.3	18.60	163.91

DIFFERENTIAL CORRECTIONS

TDE	-.5656	TRA	-1.3953	TC3	.1550	BAU	.1073												
RDE	-.1521	RRA	.2927	RC3	-.3005	FAU	.02834												
FDE	.9286	FRA	1.3074	FC3	-1.0337	BSP	5763												
BDE	.5857	BRA	1.4257	BC3	.3382	FSP	-508												

MID-COURSE EXECUTION ACCURACY

SGT	1779.1	SGR	486.4	SG3	184.9						
RRT	-.5682	RRF	.6057	RTF	-.8954						
SGB	1844.4	R23	-.0856	R13	.8991						
SG1	1801.5	SG2	395.3	THA	170.72						

ORBIT DETERMINATION ACCURACY

ST	827.9	SR	206.8	SS	894.1						
CRT	.3970	CRS	.6006	CST	.9717						
LSA	1214.7	MSA	228.1	SSA	16.0						
EL1	832.2	EL2	188.8	ALF	5.97						

LAUNCH DATE OCT 17 1965 FLIGHT TIME 110.00 ARRIVAL DATE FEB 4 1966

DISTANCE 276.553

HELIOCENTRIC CONIC

RL 149.08 LAL .00 LOL 23.41 VL 26.136 GAL 3.86 AZL 86.60 HCA 116.54 SMA 120.94 ECC .24170 INC 3.4003 V1 29.889
RP 107.49 LAP 3.04 LOP 140.00 VP 37.042 GAP -12.47 AZP 91.52 TAL 167.69 TAP 284.23 RCA 91.71 APO 150.17 V2 35.256
RC 42.162 GL 19.12 GP -13.30 ZAL 61.57 ZAP 14.62 ETS 63.13 ZAE 153.11 ETE 297.99 ZAC 55.37 ETC 150.06 CLP -6.12

PLANETOCENTRIC CONIC

C3 22.295 VHL 4.722 DLA 4.46 RAL 319.77 RAD 6567.9 VEL 11.986 PTH 2.14 VHP 8.304 DPA -32.20 RAP 321.30 ECC 1.3669

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 25 43	2379.18	-23.19	52.19	184.11	106.72	7 5 22	1779.2	-20.68	44.41
90.00	19 30 12	4745.82	16.68	203.42	181.89	66.78	20 49 18	4145.8	13.40	196.28
100.00	7 49 9	2110.06	-24.30	32.02	183.73	107.96	8 24 19	1510.1	-21.62	24.25
100.00	20 49 27	4490.18	17.74	184.13	181.40	65.54	22 4 17	3890.2	14.30	177.04
110.00	9 2 12	1881.43	-27.27	13.48	182.55	111.46	9 33 33	1281.4	-24.11	5.74
110.00	21 52 53	4291.57	20.58	167.58	179.92	62.08	23 4 25	3691.6	16.68	160.62

DIFFERENTIAL CORRECTIONS

TDE -.5821 TRA-1.3804 TC3 .2062 BAU .1184
RDE -.1134 RRA .2984 RC3 -.3394 FAU .03008
FDE 1.0213 FRA 1.3684 FC3-1.1681 BSP 5959
BDE .5930 BRA 1.4123 BC3 .3971 FSP -562

MID-COURSE EXECUTION ACCURACY

SGT 1832.9 SGR 503.5 SG3 203.1
RRT -.6234 RRF .6656 RTF -.9024
SGB 1900.8 R23 -.0980 R13 .9067
SG1 1860.8 SG2 387.8 THA 169.84

ORBIT DETERMINATION ACCURACY

ST 867.7 SR 175.8 SS 959.0
CRT .2769 CRS .4928 CST .9720
LSA 1286.2 MSA 221.0 SSA 15.8
EL1 869.2 EL2 168.6 ALF 3.34

LAUNCH DATE OCT 17 1965 FLIGHT TIME 112.00 ARRIVAL DATE FEB 6 1966

DISTANCE 283.327

HELIOCENTRIC CONIC

RL 149.08 LAL .00 LOL 23.41 VL 26.272 GAL 3.60 AZL 86.40 HCA 119.78 SMA 121.73 ECC .23286 INC 3.5979 V1 29.889
RP 107.49 LAP 3.12 LOP 143.25 VP 37.135 GAP -11.70 AZP 91.79 TAL 167.97 TAP 287.76 RCA 93.38 APO 150.07 V2 35.254
RC 43.042 GL 21.00 GP -14.51 ZAL 62.27 ZAP 16.49 ETS 59.09 ZAE 150.92 ETE 301.01 ZAC 57.17 ETC 150.19 CLP -7.93

PLANETOCENTRIC CONIC

C3 21.085 VHL 4.592 DLA 6.13 RAL 318.84 RAD 6567.9 VEL 11.936 PTH 2.12 VHP 7.905 DPA -32.93 RAP 323.30 ECC 1.3470

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 9 22	2418.21	-23.93	54.81	182.80	105.60	6 49 40	1818.2	-21.56	46.94
90.00	19 39 10	4679.85	14.87	199.42	179.87	65.62	20 57 10	4079.9	11.45	192.41
100.00	7 33 37	2146.46	-25.04	34.47	182.44	106.88	8 9 23	1546.5	-22.49	26.60
100.00	20 57 36	4426.84	15.92	180.31	179.36	64.36	22 11 23	3826.8	12.34	173.35
110.00	8 48 31	1912.03	-28.02	15.55	181.32	110.44	9 20 23	1312.0	-24.98	7.69
110.00	21 59 11	4234.03	18.70	164.17	177.85	60.85	23 9 45	3634.0	14.68	157.37

DIFFERENTIAL CORRECTIONS

TDE -.6014 TRA-1.3632 TC3 .2602 BAU .1303
RDE -.0716 RRA .3068 RC3 -.3820 FAU .03198
FDE 1.1283 FRA 1.4327 FC3-1.3131 BSP 6164
BDE .6056 BRA 1.3973 BC3 .4622 FSP -623

MID-COURSE EXECUTION ACCURACY

SGT 1883.3 SGR 528.5 SG3 223.1
RRT -.6787 RRF .7251 RTF -.9089
SGB 1956.0 R23 -.1114 R13 .9140
SG1 1918.6 SG2 381.0 THA 168.77

ORBIT DETERMINATION ACCURACY

ST 909.2 SR 146.4 SS 1030.0
CRT .0575 CRS .2855 CST .9726
LSA 1364.9 MSA 214.1 SSA 15.5
EL1 909.2 EL2 146.1 ALF .54

LAUNCH DATE OCT 17 1965 FLIGHT TIME 114.00 ARRIVAL DATE FEB 8 1966

DISTANCE 290.091

HELIOCENTRIC CONIC

RL 149.08 LAL .00 LOL 23.41 VL 26.396 GAL 3.35 AZL 86.19 HCA 123.03 SMA 122.46 ECC .22469 INC 3.8086 V1 29.889
RP 107.50 LAP 3.19 LOP 146.50 VP 37.220 GAP -10.95 AZP 92.08 TAL 168.28 TAP 291.31 RCA 94.95 APO 149.98 V2 35.250
RC 44.068 GL 22.99 GP -15.88 ZAL 63.06 ZAP 18.60 ETS 55.94 ZAE 148.68 ETE 303.23 ZAC 58.98 ETC 150.24 CLP -9.81

PLANETOCENTRIC CONIC

C3 20.090 VHL 4.482 DLA 7.89 RAL 317.84 RAD 6567.8 VEL 11.894 PTH 2.11 VHP 7.529 DPA -33.83 RAP 325.31 ECC 1.3306

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 51 45	2462.67	-24.71	57.83	181.59	104.28	6 32 48	1862.7	-22.51	49.85
90.00	19 48 45	4612.27	12.93	195.41	177.97	64.59	21 5 37	4012.3	9.40	188.50
100.00	7 16 54	2188.04	-25.83	37.30	181.26	105.59	7 53 22	1588.0	-23.45	29.32
100.00	21 6 17	4362.13	13.97	176.49	177.44	63.30	22 18 59	3762.1	10.28	169.65
110.00	8 33 50	1947.29	-28.83	17.97	180.20	109.21	9 6 17	1347.3	-25.94	9.98
110.00	22 5 50	4175.64	16.73	160.79	175.89	59.75	23 15 26	3575.6	12.59	154.13

DIFFERENTIAL CORRECTIONS

TDE -.6217 TRA-1.3430 TC3 .3184 BAU .1434
RDE -.0256 RRA .3185 RC3 -.4286 FAU .03406
FDE 1.2507 FRA 1.4998 FC3-1.4678 BSP 6416
BDE .6223 BRA 1.3802 BC3 .5339 FSP -693

MID-COURSE EXECUTION ACCURACY

SGT 1927.9 SGR 563.5 SG3 244.9
RRT -.7326 RRF .7818 RTF -.9151
SGB 2008.6 R23 -.1248 R13 .9212
SG1 1973.3 SG2 374.7 THA 167.45

ORBIT DETERMINATION ACCURACY

ST 949.8 SR 128.1 SS 1106.7
CRT -.3143 CRS -.0909 CST .9734
LSA 1449.1 MSA 208.0 SSA 15.0
EL1 950.6 EL2 121.5 ALF 177.53

LAUNCH DATE OCT 17 1965 FLIGHT TIME 116.00 ARRIVAL DATE FEB 10 1966

DISTANCE 296.845

HELIOCENTRIC CONIC

RL 149.08 LAL .00 LOL 23.41 VL 26.510 GAL 3.12 AZL 85.96 HCA 126.27 SMA 123.15 ECC .21717 INC 4.0354 V1 29.889
RP 107.51 LAP 3.25 LOP 149.75 VP 37.297 GAP -10.23 AZP 92.39 TAL 168.62 TAP 294.88 RCA 96.40 APO 149.89 V2 35.247
RC 45.230 GL 25.09 GP -17.45 ZAL 63.94 ZAP 20.94 ETS 53.52 ZAE 146.44 ETE 304.74 ZAC 60.81 ETC 150.21 CLP -11.75

PLANETOCENTRIC CONIC

C3 19.304 VHL 4.394 DLA 9.75 RAL 316.75 RAD 6567.8 VEL 11.861 PTH 2.10 VHP 7.175 DPA -34.91 RAP 327.36 ECC 1.3177

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 32 44	2513.19	-25.52	61.31	180.52	102.71	6 14 37	1913.2	-23.51	53.22
90.00	19 59 7	4542.81	10.87	191.35	176.22	63.69	21 14 49	3942.8	7.25	184.54
100.00	6 58 53	2235.36	-26.66	40.58	180.21	104.05	7 36 8	1635.4	-24.46	32.46
100.00	21 15 39	4295.88	11.91	172.65	175.68	62.38	22 27 15	3695.9	8.12	165.91
110.00	8 18 2	1987.64	-29.70	20.78	179.23	107.75	8 51 10	1387.6	-26.99	12.65
110.00	22 12 59	4116.36	14.67	157.43	174.08	58.77	23 21 35	3516.4	10.43	150.90

DIFFERENTIAL CORRECTIONS

TDE -.6483 TRA-1.3242 TC3 .3703 BAU .1562
RDE .0265 RRA .3343 RC3 -.4785 FAU .03620
FDE 1.3940 FRA 1.5717 FC3-1.6233 BSP 6600
BDE .6488 BRA 1.3657 BC3 .6051 FSP -765

MID-COURSE EXECUTION ACCURACY

SGT 1972.4 SGR 611.3 SG3 268.6
RRT -.7805 RRF .8328 RTF -.9206
SGB 2065.0 R23 -.1405 R13 .9280
SG1 2031.3 SG2 371.1 THA 165.92

ORBIT DETERMINATION ACCURACY

ST 995.5 SR 137.7 SS 1191.8
CRT -.7230 CRS -.5523 CST .9746
LSA 1545.8 MSA 202.4 SSA 14.4
EL1 1000.6 EL2 94.7 ALF 174.24

LAUNCH DATE OCT 17 1965 FLIGHT TIME 118.00 ARRIVAL DATE FEB 12 1966

HELIOCENTRIC CONIC DISTANCE 303.585

RL	149.08	LAL	.00	LOL	23.41	VL	26.614	GAL	2.90	AZL	85.72	HCA	129.51	SMA	123.78	ECC	.21026	INC	4.2819	VI	29.889
RP	107.53	LAP	3.30	LOP	153.00	VP	37.367	GAP	-9.54	AZP	92.73	TAL	168.97	TAP	298.48	RCA	97.76	APO	149.81	V2	35.242
RC	46.516	GL	27.30	GP	-19.25	ZAL	64.90	ZAP	23.52	ETS	51.68	ZAE	144.17	ETE	305.62	ZAC	62.69	ETC	150.08	CLP	-13.78

PLANETOCENTRIC CONIC

C3	18.725	VHL	4.327	DLA	11.70	RAL	315.60	RAD	6567.8	VEL	11.837	PTH	2.10	VHP	6.848	DPA	-36.21	RAP	329.44	ECC	1.3082

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 12 8	2570.54	-26.31	65.32	179.60	100.86	5 54 59	1970.5	-24.55	57.10
90.00	20 10 29	4471.09	8.67	187.22	174.64	62.94	21 25 0	3871.1	4.98	180.49
100.00	6 39 25	2289.08	-27.49	44.35	179.33	102.23	7 17 34	1689.1	-25.53	36.10
100.00	21 25 54	4227.79	9.74	168.77	174.08	61.60	22 36 21	3627.8	5.87	162.12
110.00	8 1 4	2033.56	-30.61	24.05	178.44	106.02	8 34 58	1433.6	-28.11	15.75
110.00	22 20 44	4056.07	12.52	154.09	172.43	57.93	23 28 20	3456.1	8.19	147.66

DIFFERENTIAL CORRECTIONS

TDE	-.6783	TRA	-1.3036	TC3	.4177	BAU	.1693
RDE	.0865	RRA	.3547	RC3	-.5318	FAU	.03840
FDE	1.5588	FRA	1.6453	FC3	-1.7752	BSP	6791
BDE	.6838	BRA	1.3510	BC3	.6762	FSP	-843

MID-COURSE EXECUTION ACCURACY

SGT	2011.1	SGR	674.5	SG3	293.9				
RRT	-.8217	RRF	.8763	RTF	-.9255				
SGB	2121.2	R23	-.1563	R13	.9345				
SG1	2088.6	SG2	370.1	THA	164.08				

ORBIT DETERMINATION ACCURACY

ST	1042.3	SR	184.4	SS	1283.7				
CRT	-.9318	CRS	-.8324	CST	.9760				
LSA	1652.0	MSA	197.6	SSA	13.7				
EL1	1056.4	EL2	66.1	ALF	170.60				

LAUNCH DATE OCT 17 1965 FLIGHT TIME 120.00 ARRIVAL DATE FEB 14 1966

HELIOCENTRIC CONIC DISTANCE 310.310

RL	149.08	LAL	.00	LOL	23.41	VL	26.710	GAL	2.70	AZL	85.45	HCA	132.74	SMA	124.37	ECC	.20395	INC	4.5523	VI	29.889
RP	107.55	LAP	3.34	LOP	156.25	VP	37.430	GAP	-8.86	AZP	93.09	TAL	169.35	TAP	302.09	RCA	99.01	APO	149.74	V2	35.236
RC	47.916	GL	29.62	GP	-21.32	ZAL	65.93	ZAP	26.36	ETS	50.31	ZAE	141.88	ETE	305.95	ZAC	64.60	ETC	149.86	CLP	-15.89

PLANETOCENTRIC CONIC

C3	18.356	VHL	4.284	DLA	13.75	RAL	314.37	RAD	6567.7	VEL	11.821	PTH	2.09	VHP	6.548	DPA	-37.78	RAP	331.59	ECC	1.3021

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 49 42	2635.74	-27.07	69.95	178.87	98.66	5 33 37	2035.7	-25.59	61.59
90.00	20 23 9	4396.55	6.34	182.99	173.27	62.34	21 36 26	3796.6	2.59	176.32
100.00	6 18 17	2350.05	-28.29	48.71	178.64	100.07	6 57 27	1750.1	-26.61	40.31
100.00	21 37 14	4157.47	7.43	164.82	172.68	60.96	22 46 32	3557.5	3.51	158.24
110.00	7 42 46	2085.67	-31.53	27.83	177.85	103.95	8 17 32	1485.7	-29.29	19.34
110.00	22 29 15	3994.62	10.27	150.74	170.96	57.22	23 35 49	3394.6	5.88	144.41

DIFFERENTIAL CORRECTIONS

TDE	-.7127	TRA	-1.2822	TC3	.4579	BAU	.1828
RDE	.1572	RRA	.3807	RC3	-.5877	FAU	.04060
FDE	1.7480	FRA	1.7198	FC3	-1.9147	BSP	6974
BDE	.7298	BRA	1.3375	BC3	.7450	FSP	-925

MID-COURSE EXECUTION ACCURACY

SGT	2044.1	SGR	756.6	SG3	320.5				
RRT	-.8555	RRF	.9115	RTF	-.9299				
SGB	2179.6	R23	-.1709	R13	.9411				
SG1	2147.5	SG2	372.9	THA	161.86				

ORBIT DETERMINATION ACCURACY

ST	1090.4	SR	262.9	SS	1382.5				
CRT	-.9898	CRS	-.9397	CST	.9775				
LSA	1769.6	MSA	193.7	SSA	12.9				
EL1	1121.0	EL2	36.4	ALF	166.56				

LAUNCH DATE OCT 17 1965 FLIGHT TIME 122.00 ARRIVAL DATE FEB 16 1966

HELIOCENTRIC CONIC DISTANCE 317.018

RL	149.08	LAL	.00	LOL	23.41	VL	26.796	GAL	2.51	AZL	85.15	HCA	135.98	SMA	124.91	ECC	.19818	INC	4.8525	VI	29.889
RP	107.56	LAP	3.37	LOP	159.50	VP	37.486	GAP	-8.21	AZP	93.49	TAL	169.73	TAP	305.71	RCA	100.16	APO	149.67	V2	35.230
RC	49.420	GL	32.05	GP	-23.70	ZAL	67.04	ZAP	29.50	ETS	49.29	ZAE	139.51	ETE	305.76	ZAC	66.59	ETC	149.55	CLP	-18.09

PLANETOCENTRIC CONIC

C3	18.207	VHL	4.267	DLA	15.89	RAL	313.08	RAD	6567.7	VEL	11.815	PTH	2.09	VHP	6.279	DPA	-39.65	RAP	333.86	ECC	1.2996

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 25 1	2710.19	-27.72	75.30	178.35	96.05	5 10 11	2110.2	-26.59	66.81
90.00	20 37 33	4318.29	3.85	178.59	172.15	61.92	21 49 31	3718.3	.06	171.95
100.00	5 55 10	2419.45	-29.02	53.74	178.17	97.52	6 35 29	1819.5	-27.67	45.19
100.00	21 50 5	4084.26	5.00	160.75	171.52	60.49	22 58 9	3484.3	1.03	154.21
110.00	7 22 59	2144.71	-32.41	32.21	177.51	101.50	7 58 43	1544.7	-30.49	23.52
110.00	22 38 46	3931.76	7.94	147.37	169.71	56.64	23 44 17	3331.8	3.49	141.10

DIFFERENTIAL CORRECTIONS

TDE	-.7492	TRA	-1.2575	TC3	.4937	BAU	.1980
RDE	.2418	RRA	.4128	RC3	-.6462	FAU	.04281
FDE	1.9609	FRA	1.7902	FC3	-2.0356	BSP	7229
BDE	.7873	BRA	1.3235	BC3	.8132	FSP	-1015

MID-COURSE EXECUTION ACCURACY

SGT	2066.9	SGR	861.3	SG3	347.7				
RRT	-.8825	RRF	.9386	RTF	-.9340				
SGB	2239.1	R23	-.1818	R13	.9478				
SG1	2206.8	SG2	379.4	THA	159.17				

ORBIT DETERMINATION ACCURACY

ST	1135.6	SR	368.2	SS	1485.4				
CRT	-.9994	CRS	-.9773	CST	.9791				
LSA	1896.1	MSA	190.9	SSA	11.9				
EL1	1193.8	EL2	12.1	ALF	162.04				

LAUNCH DATE OCT 17 1965 FLIGHT TIME 124.00 ARRIVAL DATE FEB 18 1966

HELIOCENTRIC CONIC DISTANCE 323.708

RL	149.08	LAL	.00	LOL	23.41	VL	26.874	GAL	2.34	AZL	84.81	HCA	139.21	SMA	125.41	ECC	.19295	INC	5.1898	VI	29.889
RP	107.58	LAP	3.39	LOP	162.75	VP	37.536	GAP	-7.58	AZP	93.93	TAL	170.11	TAP	309.32	RCA	101.21	APO	149.61	V2	35.224
RC	51.018	GL	34.60	GP	-26.44	ZAL	68.21	ZAP	32.94	ETS	48.55	ZAE	137.02	ETE	305.10	ZAC	68.66	ETC	149.14	CLP	-20.40

PLANETOCENTRIC CONIC

C3	18.300	VHL	4.278	DLA	18.14	RAL	311.73	RAD	6567.7	VEL	11.819	PTH	2.09	VHP	6.045	DPA	-41.86	RAP	336.28	ECC	1.3012

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	3 57 29	2796.02	-28.17	81.53	178.04	92.96	4 44 5	2196.0	-27.47	72.94
90.00	20 54 17	4234.84	1.16	173.92	171.34	61.70	22 4 52	3634.8	-2.63	167.30
100.00	5 29 36	2498.95	-29.58	59.58	177.94	94.50	6 11 15	1898.9	-28.65	50.90
100.00	22 4 51	4007.15	2.40	156.50	170.65	60.19	23 11 38	3407.1	-1.59	149.98
110.00	7 1 24	2211.74	-33.21	37.28	177.45	98.60	7 38 16	1611.7	-31.67	28.39
110.00	22 49 33	3867.11	5.50	143.95	168.73	56.21	23 54 0	3267.1	1.02	137.73

DIFFERENTIAL CORRECTIONS

TDE	-.7920	TRA	-1.2339	TC3	.5112	BAU	.2128
RDE	.3456	RRA	.4528	RC3	-.7037	FAU	.04466
FDE	2.1999	FRA	1.8556	FC3	-2.1130	BSP	7432
BDE	.8642	BRA	1.3143	BC3	.8697	FSP	-1100

MID-COURSE EXECUTION ACCURACY

SGT	2083.5	SGR	991.9	SG3	374.5				
RRT	-.9020	RRF	.9585	RTF	-.9372				
SGB	2307.6	R23	-.1894	R13	.9546				
SG1	2274.0	SG2	392.4	THA	156.00				

ORBIT DETERMINATION ACCURACY

ST	1182.3	SR	501.3	SS	1592.9				
CRT	-.9976	CRS	-.9912	CST	.9807				
LSA	2037.3	MSA	188.9	SSA	10.9				
EL1	1283.7	EL2	32.1	ALF	157.06				

LAUNCH DATE OCT 17 1965 FLIGHT TIME 126.00 ARRIVAL DATE FEB 20 1966

DISTANCE 330.378

HELIOCENTRIC CONIC

RL 149.08 LAL .00 LOL 23.41 VL 26,945 GAL 2.19 AZL 84.43 HCA 142.45 SMA 125.86 ECC .18822 INC 5.5743 V1 29.889
RP 107.61 LAP 3.39 LOP 165.99 VP 37.579 GAP -6.96 AZP 94.42 TAL 170.49 TAP 312.94 RCA 102.17 APO 149.55 V2 35.216
RC 52.701 GL 37.25 GP -29.61 ZAL 69.44 ZAP 36.74 ETS 48.00 ZAE 134.35 ETE 304.02 ZAC 70.86 ETC 148.65 CLP -22.81

PLANETOCENTRIC CONIC

C3 18.670 VHL 4.321 DLA 20.49 RAL 310.32 RAD 6567.8 VEL 11.834 PTH 2.10 VHP 5.855 DPA -44.45 RAP 338.95 ECC 1.3073

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	3 26 5	2896.69	-28.31	88.89	177.95	89.27	4 14 21	2296.7	-28.11	80.23
90.00	21 14 26	4143.57	-1.78	168.83	170.92	61.73	22 23 29	3543.6	-5.55	162.18
100.00	5 0 50	2591.13	-29.88	66.41	177.94	90.91	5 44 1	1991.1	-29.43	57.64
100.00	22 22 21	3924.36	-.41	151.96	170.15	60.11	23 27 46	3324.4	-4.38	145.42
110.00	6 37 40	2288.21	-33.84	43.16	177.70	95.18	7 15 48	1688.2	-32.75	34.09
110.00	23 2 1	3800.05	2.95	140.44	168.05	55.93	24 5 21	3200.1	-1.54	134.23

DIFFERENTIAL CORRECTIONS

TDE -.8397 TRA-1.2090 TC3 .5129 BAU .2284
RDE .4749 RRA .5011 RC3 -.7578 FAU .04603
FDE 2.4603 FRA 1.9073 FC3-2.1345 BSP 7649
BDE .9647 BRA 1.3088 BC3 .9151 FSP -1178

MID-COURSE EXECUTION ACCURACY

SGT 2089.3 SGR 1152.7 SG3 399.1
RRT -.9158 RRF .9725 RTF -.9399
SGB 2386.2 R23 -.1908 R13 .9615
SG1 2350.4 SG2 411.5 THA 152.27

ORBIT DETERMINATION ACCURACY

ST 1226.2 SR 665.0 SS 1700.6
CRT -.9942 CRS -.9965 CST .9822
LSA 2191.5 MSA 187.7 SSA 9.8
EL1 1393.5 EL2 62.9 ALF 151.61

LAUNCH DATE OCT 17 1965 FLIGHT TIME 128.00 ARRIVAL DATE FEB 22 1966

DISTANCE 337.027

HELIOCENTRIC CONIC

RL 149.08 LAL .00 LOL 23.41 VL 27.009 GAL 2.05 AZL 83.98 HCA 145.68 SMA 126.27 ECC .18396 INC 6.0195 V1 29.889
RP 107.63 LAP 3.39 LOP 169.24 VP 37.618 GAP -6.37 AZP 94.98 TAL 170.86 TAP 316.53 RCA 103.05 APO 149.50 V2 35.206
RC 54.462 GL 40.02 GP -33.24 ZAL 70.72 ZAP 40.90 ETS 47.57 ZAE 131.40 ETE 302.57 ZAC 73.21 ETC 148.08 CLP -25.34

PLANETOCENTRIC CONIC

C3 19.377 VHL 4.402 DLA 22.94 RAL 308.84 RAD 6567.8 VEL 11.864 PTH 2.10 VHP 5.716 DPA -47.47 RAP 342.00 ECC 1.3189

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	2 48 47	3018.73	-27.88	97.79	178.01	84.83	3 39 6	2418.7	-28.30	89.15
90.00	21 39 56	4039.05	-5.13	162.98	171.02	62.11	22 47 15	3439.1	-8.83	156.25
100.00	4 27 29	2700.46	-29.72	74.53	178.16	86.64	5 12 30	2100.5	-29.87	65.73
100.00	22 43 54	3832.56	-3.52	146.91	170.13	60.30	23 47 47	3232.6	-7.45	140.33
110.00	6 11 7	2376.27	-34.17	50.01	178.26	91.13	6 50 43	1776.3	-33.63	40.81
110.00	23 16 46	3729.52	.26	136.75	167.78	55.82	24 18 56	3129.5	-4.23	130.54

DIFFERENTIAL CORRECTIONS

TDE -.8930 TRA-1.1837 TC3 .4967 BAU .2448
RDE .6381 RRA .5592 RC3 -.8040 FAU .04661
FDE 2.7343 FRA 1.9379 FC3-2.0823 BSP 7920
BDE 1.0976 BRA 1.3092 BC3 .9451 FSP -1245

MID-COURSE EXECUTION ACCURACY

SGT 2083.6 SGR 1347.4 SG3 419.1
RRT -.9251 RRF .9820 RTF -.9420
SGB 2481.4 R23 -.1847 R13 .9685
SG1 2442.7 SG2 436.4 THA 147.97

ORBIT DETERMINATION ACCURACY

ST 1266.1 SR 864.0 SS 1804.1
CRT -.9915 CRS -.9986 CST .9837
LSA 2360.0 MSA 187.1 SSA 8.7
EL1 1530.0 EL2 92.9 ALF 145.77

LAUNCH DATE OCT 17 1965 FLIGHT TIME 130.00 ARRIVAL DATE FEB 24 1966

DISTANCE 343.654

HELIOCENTRIC CONIC

RL 149.08 LAL .00 LOL 23.41 VL 27.066 GAL 1.92 AZL 83.46 HCA 148.90 SMA 126.65 ECC .18014 INC 6.5446 V1 29.889
RP 107.66 LAP 3.38 LOP 172.48 VP 37.651 GAP -5.80 AZP 95.61 TAL 171.21 TAP 320.11 RCA 103.83 APO 149.46 V2 35.200
RC 56.291 GL 42.90 GP -37.40 ZAL 72.06 ZAP 45.44 ETS 47.19 ZAE 128.10 ETE 300.82 ZAC 75.76 ETC 147.46 CLP -27.96

PLANETOCENTRIC CONIC

C3 20.514 VHL 4.529 DLA 25.51 RAL 307.29 RAD 6567.8 VEL 11.912 PTH 2.12 VHP 5.643 DPA -50.93 RAP 345.63 ECC 1.3376

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	2 0 37	3178.16	-26.38	109.21	178.01	79.31	2 53 35	2578.2	-27.59	100.75
90.00	22 15 44	3906.75	-9.28	155.47	171.94	63.13	23 20 51	3306.8	-12.82	148.58
100.00	3 46 44	2836.03	-28.76	84.49	178.47	81.49	4 34 0	2236.0	-29.64	75.80
100.00	23 12 18	3724.12	-7.15	140.91	170.79	60.90	24 14 22	3124.1	-10.97	134.21
110.00	5 40 44	2479.38	-34.01	58.06	179.12	86.38	6 22 3	1879.4	-34.14	48.81
110.00	23 34 47	3653.53	-2.65	132.79	168.01	55.91	24 35 41	3053.5	-7.10	126.54

DIFFERENTIAL CORRECTIONS

TDE -.9476 TRA-1.1557 TC3 .4685 BAU .2633
RDE .8447 RRA .6266 RC3 -.8381 FAU .04621
FDE 2.9990 FRA 1.9330 FC3-1.9499 BSP 8307
BDE 1.2694 BRA 1.3146 BC3 .9601 FSP -1295

MID-COURSE EXECUTION ACCURACY

SGT 2059.3 SGR 1577.8 SG3 430.7
RRT -.9312 RRF .9884 RTF -.9435
SGB 2594.3 R23 -.1708 R13 .9756
SG1 2552.4 SG2 464.0 THA 143.07

ORBIT DETERMINATION ACCURACY

ST 1293.5 SR 1100.7 SS 1891.8
CRT -.9897 CRS -.9935 CST .9849
LSA 2535.4 MSA 187.2 SSA 7.6
EL1 1694.2 EL2 120.4 ALF 139.65

LAUNCH DATE OCT 17 1965 FLIGHT TIME 132.00 ARRIVAL DATE FEB 26 1966

DISTANCE 350.256

HELIOCENTRIC CONIC

RL 149.08 LAL .00 LOL 23.41 VL 27.117 GAL 1.81 AZL 82.82 HCA 152.12 SMA 126.98 ECC .17674 INC 7.1775 V1 29.889
RP 107.69 LAP 3.35 LOP 175.72 VP 37.679 GAP -5.24 AZP 96.35 TAL 171.53 TAP 323.65 RCA 104.54 APO 149.43 V2 35.191
RC 58.184 GL 45.90 GP -42.12 ZAL 73.44 ZAP 50.36 ETS 46.77 ZAE 124.34 ETE 298.86 ZAC 78.55 ETC 146.83 CLP -30.66

PLANETOCENTRIC CONIC

C3 22.236 VHL 4.715 DLA 28.17 RAL 305.65 RAD 6567.9 VEL 11.984 PTH 2.14 VHP 5.655 DPA -54.79 RAP 350.17 ECC 1.3659

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	0 28 31	3481.05	-20.93	129.69	176.67	70.48	1 26 32	2881.1	-23.40	121.89
90.00	23 34 47	3642.66	-16.93	139.85	175.02	66.95	24 35 29	3042.7	-19.90	132.44
100.00	2 49 52	3025.32	-26.11	97.92	178.43	74.91	3 40 17	2425.3	-27.93	89.59
100.00	0 0 2	3573.63	-12.02	132.40	172.63	62.42	0 59 36	2973.6	-15.62	125.45
110.00	5 4 33	2603.78	-33.06	67.64	180.15	80.79	5 47 56	2003.8	-33.98	58.52
110.00	0 1 51	3567.93	-5.90	128.30	168.96	56.27	1 1 19	2967.9	-10.29	121.96

DIFFERENTIAL CORRECTIONS

TDE-1.0106 TRA-1.1314 TC3 .4176 BAU .2811
RDE 1.1110 RRA .7053 RC3 -.8484 FAU .04415
FDE 3.2374 FRA 1.8878 FC3-1.7191 BSP 8689
BDE 1.5019 BRA 1.3333 BC3 .9456 FSP -1303

MID-COURSE EXECUTION ACCURACY

SGT 2023.7 SGR 1846.0 SG3 430.9
RRT -.9340 RRF .9925 RTF -.9440
SGB 2739.2 R23 -.1507 R13 .9821
SG1 2694.0 SG2 495.6 THA 137.81

ORBIT DETERMINATION ACCURACY

ST 1314.1 SR 1381.3 SS 1959.4
CRT -.9886 CRS -.9998 CST .9859
LSA 2727.4 MSA 187.9 SSA 6.5
EL1 1901.1 EL2 144.1 ALF 133.56

LAUNCH DATE OCT 17 1965 FLIGHT TIME 134.00 ARRIVAL DATE FEB 28 1966

HELIOCENTRIC CONIC DISTANCE 356.833

RL	149.08	LAL	.00	LOL	23.41	VL	27.163	GAL	1.71	AZL	82.04	HCA	155.34	SMA	127.28	ECC	.17374	INC	7.9605	VI	29.889
RP	107.72	LAP	3.31	LOP	178.96	VP	37.703	GAP	-4.70	AZP	97.24	TAL	171.82	TAP	327.16	RCA	105.17	APO	149.40	V2	35.181
RC	60.133	GL	49.03	GP	-47.41	ZAL	74.88	ZAP	55.60	ETS	46.25	ZAE	120.07	ETE	296.82	ZAC	81.63	ETC	146.28	CLP	-33.40

PLANETOCENTRIC CONIC

C3	24.803	VHL	4.980	DLA	30.95	RAL	303.91	RAD	6568.0	VEL	12.091	PTH	2.16	VHP	5.781	DPA	-58.96	RAP	356.18	ECC	1.4082

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
76.96	22 8 58	3922.11	-19.95	161.85	176.68	65.84	23 14 20	3322.1	-23.04	154.34
103.04	1 40 25	3254.99	-19.93	112.61	176.67	65.82	2 34 40	2655.0	-23.03	105.10
76.96	22 8 58	3922.11	-19.95	161.85	176.68	65.84	23 14 20	3322.1	-23.04	154.34
103.04	1 40 25	3254.99	-19.93	112.61	176.67	65.82	2 34 40	2655.0	-23.03	105.10
110.00	4 17 57	2763.77	-30.69	79.50	181.00	74.15	5 4 0	2163.8	-32.56	70.78
110.00	0 34 33	3461.32	-9.89	122.62	171.03	57.11	1 32 14	2861.3	-14.15	116.12

DIFFERENTIAL CORRECTIONS

TDE-1.0797	TRA-1.1083	TC3	.3523	BAU	.2978		
RDE 1.4552	RRA	.7932	RC3	-.8259	FAU	.04021	
FDE 3.4118	FRA	1.7872	FC3	-1.4034	BSP	9181	
BDE 1.8120	BRA	1.3629	BC3	.8980	FSP	-1266	

MID-COURSE EXECUTION ACCURACY

SGT	1968.9	SGR	2147.5	SG3	415.3		
RRT	-.9343	RRF	.9951	RTF	-.9436		
SGB	2913.5	R23	-.1257	R13	.9879		
SG1	2865.6	SG2	526.2	THA	132.34		

ORBIT DETERMINATION ACCURACY

ST	1319.8	SR	1704.5	SS	1993.1		
CRT	-.9878	CRS	-1.0000	CST	.9867		
LSA	2929.8	MSA	189.1	SSA	5.4		
EL1	2149.6	EL2	163.1	ALF	127.67		

LAUNCH DATE OCT 17 1965 FLIGHT TIME 136.00 ARRIVAL DATE MAR 2 1966

HELIOCENTRIC CONIC DISTANCE 363.382

RL	149.08	LAL	.00	LOL	23.41	VL	27.202	GAL	1.63	AZL	81.04	HCA	158.55	SMA	127.55	ECC	.17111	INC	8.9611	VI	29.889
RP	107.75	LAP	3.27	LOP	182.20	VP	37.722	GAP	-4.18	AZP	98.35	TAL	172.08	TAP	330.62	RCA	105.72	APO	149.37	V2	35.171
RC	62.133	GL	52.26	GP	-53.27	ZAL	76.38	ZAP	61.09	ETS	45.62	ZAE	115.22	ETE	294.88	ZAC	85.03	ETC	145.94	CLP	-36.06

PLANETOCENTRIC CONIC

C3	28.683	VHL	5.356	DLA	33.82	RAL	302.03	RAD	6568.2	VEL	12.250	PTH	2.20	VHP	6.066	DPA	-63.20	RAP	4.58	ECC	1.4721

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
70.69	21 19 52	4087.62	-20.55	174.80	178.01	62.53	22 28 0	3487.6	-24.06	167.44
109.31	2 14 28	3161.58	-20.54	105.79	178.00	62.52	3 7 10	2561.6	-24.05	98.44
70.69	21 19 52	4087.62	-20.55	174.80	178.01	62.53	22 28 0	3487.6	-24.06	167.44
109.31	2 14 28	3161.58	-20.54	105.79	178.00	62.52	3 7 10	2561.6	-24.05	98.44
110.00	2 56 34	3033.02	-24.24	97.75	179.97	65.13	3 47 7	2433.0	-27.39	89.99
110.00	1 40 53	3264.18	-16.93	111.69	175.91	59.85	2 35 18	2664.2	-20.81	104.71

DIFFERENTIAL CORRECTIONS

TDE-1.1574	TRA-1.0899	TC3	2793	BAU	.3115		
RDE 1.9023	RRA	.8872	RC3	-.7627	FAU	.03437	
FDE 3.4830	FRA	1.6261	FC3	-1.0375	BSP	9800	
BDE 2.2267	BRA	1.4053	BC3	.8123	FSP	-1179	

MID-COURSE EXECUTION ACCURACY

SGT	1895.3	SGR	2472.7	SG3	381.6		
RRT	-.9319	RRF	.9966	RTF	-.9420		
SGB	3115.5	R23	-.0982	R13	.9924		
SG1	3065.8	SG2	554.4	THA	126.95		

ORBIT DETERMINATION ACCURACY

ST	1307.8	SR	2063.9	SS	1980.6		
CRT	-.9871	CRS	-1.0000	CST	.9871		
LSA	3139.5	MSA	190.9	SSA	4.4		
EL1	2437.0	EL2	177.6	ALF	122.22		

LAUNCH DATE OCT 17 1965 FLIGHT TIME 138.00 ARRIVAL DATE MAR 4 1966

HELIOCENTRIC CONIC DISTANCE 369.900

RL	149.08	LAL	.00	LOL	23.41	VL	27.237	GAL	1.56	AZL	79.71	HCA	161.75	SMA	127.78	ECC	.16882	INC	10.2933	VI	29.889
RP	107.78	LAP	3.21	LOP	185.44	VP	37.737	GAP	-3.67	AZP	99.79	TAL	172.28	TAP	334.03	RCA	106.21	APO	149.35	V2	35.160
RC	64.180	GL	55.60	GP	-59.62	ZAL	77.96	ZAP	66.65	ETS	44.97	ZAE	109.78	ETE	293.30	ZAC	88.79	ETC	146.07	CLP	-38.40

PLANETOCENTRIC CONIC

C3	34.768	VHL	5.896	DLA	36.75	RAL	299.95	RAD	6568.4	VEL	12.496	PTH	2.26	VHP	6.586	DPA	-67.03	RAP	16.75	ECC	1.5722

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
65.53	20 42 15	4224.31	-20.49	185.58	179.94	58.81	21 52 39	3624.3	-24.47	178.48
114.47	2 35 34	3121.63	-20.48	102.60	179.93	58.80	3 27 36	2521.6	-24.46	95.50
65.53	20 42 15	4224.31	-20.49	185.58	179.94	58.81	21 52 39	3624.3	-24.47	178.48
114.47	2 35 34	3121.63	-20.48	102.60	179.93	58.80	3 27 36	2521.6	-24.46	95.50
65.53	20 42 15	4224.31	-20.49	185.58	179.94	58.81	21 52 39	3624.3	-24.47	178.48
114.47	2 35 34	3121.63	-20.48	102.60	179.93	58.80	3 27 36	2521.6	-24.46	95.50

DIFFERENTIAL CORRECTIONS

TDE-1.2581	TRA-1.0865	TC3	.2009	BAU	.3153		
RDE 2.4938	RRA	.9841	RC3	-.6479	FAU	.02662	
FDE 3.4274	FRA	1.4136	FC3	-.6628	BSP	10471	
BDE 2.7931	BRA	1.4659	BC3	.6784	FSP	-1036	

MID-COURSE EXECUTION ACCURACY

SGT	1812.9	SGR	2807.1	SG3	330.6		
RRT	-.9266	RRF	.9974	RTF	-.9392		
SGB	3341.6	R23	-.0699	R13	.9957		
SG1	3290.6	SG2	581.4	THA	122.02		

ORBIT DETERMINATION ACCURACY

ST	1284.8	SR	2449.6	SS	1917.7		
CRT	-.9862	CRS	-1.0000	CST	.9873		
LSA	3360.2	MSA	194.0	SSA	3.5		
EL1	2759.6	EL2	188.5	ALF	117.49		

LAUNCH DATE OCT 17 1965 FLIGHT TIME 140.00 ARRIVAL DATE MAR 6 1966

HELIOCENTRIC CONIC DISTANCE 376.380

RL	149.08	LAL	.00	LOL	23.41	VL	27.267	GAL	1.51	AZL	77.83	HCA	164.93	SMA	127.98	ECC	.16686	INC	12.1664	VI	29.889
RP	107.81	LAP	3.14	LOP	188.67	VP	37.748	GAP	-3.19	AZP	101.76	TAL	172.43	TAP	337.36	RCA	106.63	APO	149.34	V2	35.149
RC	66.268	GL	58.96	GP	-66.42	ZAL	79.63	ZAP	72.10	ETS	44.80	ZAE	103.74	ETE	292.71	ZAC	92.98	ETC	147.32	CLP	-39.78

PLANETOCENTRIC CONIC

C3	44.949	VHL	6.704	DLA	39.65	RAL	297.64	RAD	6568.7	VEL	12.896	PTH	2.35	VHP	7.475	DPA	-69.60	RAP	34.01	ECC	1.7398

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
60.99	20 10 29	4354.36	-19.42	195.55	182.48	54.72	21 23 3	3754.4	-23.89	188.83
119.01	2 48 51	3121.21	-19.40	101.81	182.47	54.71	3 40 52	2521.2	-23.88	95.09
60.99	20 10 29	4354.36	-19.42	195.55	182.48	54.72	21 23 3	3754.4	-23.89	188.83
119.01	2 48 51	3121.21	-19.40	101.81	182.47	54.71	3 40 52	2521.2	-23.88	95.09
60.99	20 10 29	4354.36	-19.42	195.55	182.48	54.72	21 23 3	3754.4	-23.89	188.83
119.01	2 48 51	3121.21	-19.40	101.81	182.47	54.71	3 40 52	2521.2	-23.88	95.09

DIFFERENTIAL CORRECTIONS

TDE-1.4185	TRA-1.1168	TC3	.1292	BAU	.3008		
RDE 3.2893	RRA	1.0727	RC3	-.4835	FAU	.01771	
FDE 3.2358	FRA	1.1670	FC3	-.3410	BSP	11219	
BDE 3.5822	BRA	1.5485	BC3	.5005	FSP	-853	

MID-COURSE EXECUTION ACCURACY

SGT	1742.5	SGR	3120.9	SG3	266.8		
RRT	-.9187	RRF	.9975	RTF	-.9362		
SGB	3574.4	R23	-.0417	R13	.9979		
SG1	3522.0	SG2	609.8	THA	118.07		

ORBIT DETERMINATION ACCURACY

ST	1268.0	SR	2833.7	SS	1803.6		
CRT	-.9854	CRS	-.9999	CST	.9875		
LSA	3584.9	MSA	199.1	SSA	2.7		
EL1	3098.2	EL2	197.7	ALF	113.90		

LAUNCH DATE OCT 17 1965 FLIGHT TIME 142.00 ARRIVAL DATE MAR 8 1966

HELIOCENTRIC CONIC DISTANCE 382.811

RL 149.08 LAL .00 LOL 23.41 VL 27.293 GAL 1.47 AZL 74.99 HCA 168.09 SMA 128.16 ECC .16522 INC15.0077 V1 29.889
RP 107.85 LAP 3.06 LOP 191.90 VP 37.756 GAP -2.72 AZP 104.70 TAL 172.51 TAP 340.60 RCA 106.98 APO 149.33 V2 35.138
RC 68.394 GL 62.19 GP -73.59 ZAL 81.42 ZAP 77.18 ETS 47.29 ZAE 97.04 ETE 295.32 ZAC 97.71 ETC 151.97 CLP -38.25

PLANETOCENTRIC CONIC

C3 63.808 VHL 7.988 DLA 42.35 RAL 295.02 RAD 6569.2 VEL 13.607 PTH 2.49 VHP 9.003 DPA -69.73 RAP 55.25 ECC 2.0501

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
57.09	19 42 52	4488.62	-16.86	205.04	185.61	50.56	20 57 40	3888.6	-21.83	198.81
122.91	2 55 34	3160.01	-16.85	103.09	185.60	50.55	3 48 14	2560.0	-21.82	96.86
57.09	19 42 52	4488.62	-16.86	205.04	185.61	50.56	20 57 40	3888.6	-21.83	198.81
122.91	2 55 34	3160.01	-16.85	103.09	185.60	50.55	3 48 14	2560.0	-21.82	96.86
57.09	19 42 52	4488.62	-16.86	205.04	185.61	50.56	20 57 40	3888.6	-21.83	198.81
122.91	2 55 34	3160.01	-16.85	103.09	185.60	50.55	3 48 14	2560.0	-21.82	96.86

DIFFERENTIAL CORRECTIONS
TDE-1.8321 TRA-1.2446 TC3 .0712 BAU .2445
RDE 4.3737 RRA 1.1135 RC3 -.2776 FAU .00833
FDE 2.9443 FRA .9196 FC3 -.1130 BSP 12008
BDE 4.7420 BRA 1.6700 BC3 .2866 FSP -652

MID-COURSE EXECUTION ACCURACY
SGT 1788.5 SGR 3347.6 SG3 198.7
RRT -.9150 RRF .9962 RTF -.9418
SGB 3795.4 R23 -.0124 R13 .9990
SG1 3740.0 SG2 645.9 THA 116.92

ORBIT DETERMINATION ACCURACY
ST 1363.2 SR 3153.9 SS 1655.9
CRT -.9862 CRS -.9997 CST .9898
LSA 3808.4 MSA 207.3 SSA 2.2
EL1 3429.6 EL2 207.3 ALF 113.18

LAUNCH DATE OCT 17 1965 FLIGHT TIME 144.00 ARRIVAL DATE MAR 10 1966

HELIOCENTRIC CONIC DISTANCE 389.163

RL 149.08 LAL .00 LOL 23.41 VL 27.315 GAL 1.46 AZL 70.16 HCA 171.20 SMA 128.30 ECC .16388 INC19.8358 V1 29.889
RP 107.89 LAP 2.98 LOP 195.13 VP 37.761 GAP -2.28 AZP 109.62 TAL 172.49 TAP 343.69 RCA 107.27 APO 149.33 V2 35.126
RC 70.553 GL 64.78 GP -80.86 ZAL 83.35 ZAP 81.65 ETS 68.56 ZAE 89.36 ETE 317.22 ZAC 103.37 ETC 176.29 CLP -23.96

PLANETOCENTRIC CONIC

C3 104.894 VHL 10.242 DLA 44.32 RAL 292.11 RAD 6570.0 VEL 15.041 PTH 2.71 VHP 11.802 DPA -66.50 RAP 75.49 ECC 2.7263

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
54.36	19 20 18	4630.75	-12.35	213.66	189.16	47.09	20 37 29	4030.7	-17.72	207.93
125.64	2 54 55	3243.39	-12.34	106.46	189.15	47.09	3 48 58	2643.4	-17.71	100.73
54.36	19 20 18	4630.75	-12.35	213.66	189.16	47.09	20 37 29	4030.7	-17.72	207.93
125.64	2 54 55	3243.39	-12.34	106.46	189.15	47.09	3 48 58	2643.4	-17.71	100.73
54.36	19 20 18	4630.75	-12.35	213.66	189.16	47.09	20 37 29	4030.7	-17.72	207.93
125.64	2 54 55	3243.39	-12.34	106.46	189.15	47.09	3 48 58	2643.4	-17.71	100.73

DIFFERENTIAL CORRECTIONS
TDE-4.6552 TRA-1.7721 TC3 .0192 BAU .0929
RDE 4.6765 RRA .6190 RC3 -.0634 FAU-.00091
FDE 2.6435 FRA .7112 FC3 .0075 BSP 13002
BDE 6.5985 BRA 1.8771 BC3 .0662 FSP -471

MID-COURSE EXECUTION ACCURACY
SGT 2950.2 SGR 2663.7 SG3 136.5
RRT -.9530 RRF .9827 RTF -.9914
SGB 3974.8 R23 .0121 R13 .9992
SG1 3928.3 SG2 606.3 THA 138.06

ORBIT DETERMINATION ACCURACY
ST 2637.2 SR 2620.2 SS 1517.6
CRT -.9947 CRS -.9984 CST .9989
LSA 4010.8 MSA 191.2 SSA 1.8
EL1 3712.7 EL2 191.1 ALF 135.19

LAUNCH DATE OCT 17 1965 FLIGHT TIME 146.00 ARRIVAL DATE MAR 12 1966

HELIOCENTRIC CONIC DISTANCE 395.355

RL 149.08 LAL .00 LOL 23.41 VL 27.332 GAL 1.49 AZL 60.31 HCA 174.18 SMA 128.42 ECC .16289 INC29.6882 V1 29.889
RP 107.92 LAP 2.88 LOP 198.35 VP 37.762 GAP -1.89 AZP 119.56 TAL 172.28 TAP 346.46 RCA 107.50 APO 149.34 V2 35.114
RC 72.741 GL 65.16 GP -82.69 ZAL 85.38 ZAP 85.27 ETS 166.14 ZAE 79.44 ETE 55.61 ZAC 111.18 ETC 278.11 CLP 49.57

PLANETOCENTRIC CONIC

C3 222.380 VHL 14.912 DLA 44.01 RAL 289.31 RAD 6571.3 VEL 18.539 PTH 3.05 VHP 17.726 DPA -58.99 RAP 91.03 ECC 4.6598

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
54.78	19 10 46	4760.47	-6.04	219.38	193.04	46.32	20 30 6	4160.5	-11.52	213.90
125.22	2 42 6	3381.78	-6.02	112.97	193.02	46.32	3 38 28	2781.8	-11.50	107.49
54.78	19 10 46	4760.47	-6.04	219.38	193.04	46.32	20 30 6	4160.5	-11.52	213.90
125.22	2 42 6	3381.78	-6.02	112.97	193.02	46.32	3 38 28	2781.8	-11.50	107.49
54.78	19 10 46	4760.47	-6.04	219.38	193.04	46.32	20 30 6	4160.5	-11.52	213.90
125.22	2 42 6	3381.78	-6.02	112.97	193.02	46.32	3 38 28	2781.8	-11.50	107.49

DIFFERENTIAL CORRECTIONS
TDE-3.4125 TRA -.1606 TC3 -.0740 BAU .4740
RDE-9.4906 RRA-2.4737 RC3 -.1412 FAU-.01350
FDE 2.5684 FRA .6393 FC3 .0525 BSP 12296
BDE10.0855 BRA 2.4789 BC3 .1594 FSP -290

MID-COURSE EXECUTION ACCURACY
SGT 1332.4 SGR 3901.3 SG3 91.2
RRT .9595 RRF -.9991 RTF -.9651
SGB 4122.5 R23 -.0056 R13 -.9993
SG1 4107.1 SG2 356.6 THA 71.71

ORBIT DETERMINATION ACCURACY
ST 1311.4 SR 3668.0 SS 1519.4
CRT .9961 CRS 1.0000 CST .9965
LSA 4179.8 MSA 109.6 SSA 1.8
EL1 3893.8 EL2 109.4 ALF 70.38

LAUNCH DATE OCT 17 1965 FLIGHT TIME 148.00 ARRIVAL DATE MAR 14 1966

HELIOCENTRIC CONIC DISTANCE 400.974

RL 149.08 LAL .00 LOL 23.41 VL 27.347 GAL 1.64 AZL 33.53 HCA 176.67 SMA 128.52 ECC .16244 INC56.4707 V1 29.889
RP 107.96 LAP 2.77 LOP 201.57 VP 37.761 GAP -1.65 AZP 146.43 TAL 171.50 TAP 348.17 RCA 107.64 APO 149.39 V2 35.101
RC 74.954 GL 56.93 GP -66.70 ZAL 87.32 ZAP 87.76 ETS 181.75 ZAE 62.08 ETE 70.66 ZAC 125.80 ETC 301.66 CLP 84.32

PLANETOCENTRIC CONIC

C3 739.484 VHL 27.193 DLA 35.29 RAL 288.50 RAD 6572.7 VEL 29.339 PTH 3.44 VHP 33.446 DPA -42.39 RAP 102.56 ECC13.1700

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
68.01	20 10 6	4700.14	-.39	209.69	197.97	54.72	21 28 26	4100.1	-5.00	203.56
111.99	1 36 18	3678.23	-.37	133.15	197.95	54.72	2 37 36	3078.2	-4.98	127.02
68.01	20 10 6	4700.14	-.39	209.69	197.97	54.72	21 28 26	4100.1	-5.00	203.56
111.99	1 36 18	3678.23	-.37	133.15	197.95	54.72	2 37 36	3078.2	-4.98	127.02
68.01	20 10 6	4700.14	-.39	209.69	197.97	54.72	21 28 26	4100.1	-5.00	203.56
111.99	1 36 18	3678.23	-.37	133.15	197.95	54.72	2 37 36	3078.2	-4.98	127.02

DIFFERENTIAL CORRECTIONS
TDE-4.5927 TRA .9544 TC3 -.0902 BAU 2.6930
RD-15.7950 RRA-4.4164 RC3 -.2570 FAU-.04733
FDE 3.1710 FRA .9310 FC3 .0554 BSP 11574
BDE16.4492 BRA 4.5183 BC3 .2724 FSP -206

MID-COURSE EXECUTION ACCURACY
SGT 1112.6 SGR 3785.4 SG3 66.6
RRT .8608 RRF -.9996 RTF -.8567
SGB 3945.5 R23 -.0438 R13 -.9987
SG1 3907.2 SG2 548.5 THA 75.51

ORBIT DETERMINATION ACCURACY
ST 970.6 SR 3345.7 SS 1942.1
CRT .9841 CRS 1.0000 CST .9832
LSA 3984.9 MSA 168.8 SSA 1.7
EL1 3479.7 EL2 165.8 ALF 74.03

LAUNCH DATE OCT 17 1965 FLIGHT TIME 150.00 ARRIVAL DATE MAR 16 1966

HELIOCENTRIC CONIC DISTANCE 410.881

RL	149.08	LAL	.00	LOL	23.41	VL	27.357	GAL	.99	AZL	152.62	HCA	183.00	SMA	128.59	ECC	.16021	INC	62.6176
RP	108.00	LAP	2.66	LOP	204.79	VP	37.757	GAP	-.30	AZP	27.41	TAL	174.80	TAP	357.80	RCA	107.99	APO	149.19
RC	77.191	GL	-54.49	GP	60.96	ZAL	88.15	ZAP	89.37	ETS	187.08	ZAE	68.76	ETE	294.26	ZAC	101.56	ETC	68.22
V1	29.889	V2	35.089	CLP	88.71														

PLANETOCENTRIC CONIC

C3	890.304	VHL	29.838	DLA	-72.45	RAL	329.58	RAD	6572.9	VEL	31.806	PTH	3.48	VHP	39.043	DPA	81.44	RAP	163.13
ECC	15.6521																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
20.03	8 17 10	2439.15	-.04	79.47	239.58	162.45	8 57 49	1839.2	7.59	77.46
159.97	18 57 2	671.50	-.03	286.47	239.61	162.45	19 8 13	71.5	7.59	284.46
20.03	8 17 10	2439.15	-.04	79.47	239.58	162.45	8 57 49	1839.2	7.59	77.46
159.97	18 57 2	671.50	-.03	286.47	239.61	162.45	19 8 13	71.5	7.59	284.46
20.03	8 17 10	2439.15	-.04	79.47	239.58	162.45	8 57 49	1839.2	7.59	77.46
159.97	18 57 2	671.50	-.03	286.47	239.61	162.45	19 8 13	71.5	7.59	284.46

DIFFERENTIAL CORRECTIONS

TDE	5.9340	TRA	-1.6512	TC3	-.1303	BAU	3.3299												
RDE	-5.8088	RRA	4.5790	RC3	.2475	FAU	-.05545												
FDE	-1.4732	FRA	1.0088	FC3	.0539	BSP	11841												
BDE	8.3039	BRA	4.8676	BC3	.2798	FSP	-210												

MID-COURSE EXECUTION ACCURACY

SGT	1734.7	SGR	3454.0	SG3	66.7														
RRT	-.9157	RRF	.9989	RTF	-.9318														
SGB	3865.1	R23	-.0360	R13	.9992														
SG1	3813.2	SG2	631.5	THA	115.44														

ORBIT DETERMINATION ACCURACY

ST	1182.6	SR	1418.3	SS	1155.1														
CRT	-.9230	CRS	-.9978	CST	.9467														
LSA	2146.9	MSA	367.4	SSA	1.3														
EL1	1811.9	EL2	356.2	ALF	129.40														

LAUNCH DATE OCT 17 1965 FLIGHT TIME 152.00 ARRIVAL DATE MAR 18 1966

HELIOCENTRIC CONIC DISTANCE 416.194

RL	149.08	LAL	.00	LOL	23.41	VL	27.365	GAL	1.21	AZL	118.95	HCA	185.25	SMA	128.64	ECC	.16019	INC	28.9527
RP	108.04	LAP	2.54	LOP	208.01	VP	37.751	GAP	-.15	AZP	61.15	TAL	173.65	TAP	358.89	RCA	108.04	APO	149.25
RC	79.446	GL	-65.48	GP	81.91	ZAL	85.80	ZAP	89.03	ETS	211.25	ZAE	88.71	ETE	315.40	ZAC	83.09	ETC	89.40
V1	29.889	V2	35.076	CLP	83.12														

PLANETOCENTRIC CONIC

C3	211.890	VHL	14.556	DLA	-76.48	RAL	11.05	RAD	6571.2	VEL	18.254	PTH	3.03	VHP	19.698	DPA	73.30	RAP	271.29
ECC	4.4872																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
15.40	10 53 9	2313.11	8.92	80.18	278.87	166.31	11 31 42	1713.1	16.68	78.63
164.60	21 51 53	5814.90	8.92	260.44	278.90	166.31	23 28 48	5214.9	16.69	258.89
15.40	10 53 9	2313.11	8.92	80.18	278.87	166.31	11 31 42	1713.1	16.68	78.63
164.60	21 51 53	5814.90	8.92	260.44	278.90	166.31	23 28 48	5214.9	16.69	258.89
15.40	10 53 9	2313.11	8.92	80.18	278.87	166.31	11 31 42	1713.1	16.68	78.63
164.60	21 51 53	5814.90	8.92	260.44	278.90	166.31	23 28 48	5214.9	16.69	258.89

DIFFERENTIAL CORRECTIONS

TDE	-.6745	TRA	-1.8013	TC3	-.1126	BAU	.4665												
RDE	2.7158	RRA	1.7676	RC3	.1202	FAU	-.00795												
FDE	.6786	FRA	.6037	FC3	.0325	BSP	13790												
BDE	2.7983	BRA	2.5237	BC3	.1647	FSP	-293												

MID-COURSE EXECUTION ACCURACY

SGT	3061.4	SGR	3180.9	SG3	91.2														
RRT	-.9674	RRF	.9960	RTF	-.9856														
SGB	4414.8	R23	-.0355	R13	.9992														
SG1	4378.7	SG2	563.3	THA	133.87														

ORBIT DETERMINATION ACCURACY

ST	947.7	SR	1392.7	SS	689.9														
CRT	-.8303	CRS	-.9879	CST	.9067														
LSA	1762.9	MSA	453.5	SSA	1.0														
EL1	1622.4	EL2	453.3	ALF	122.29														

LAUNCH DATE OCT 17 1965 FLIGHT TIME 154.00 ARRIVAL DATE MAR 20 1966

HELIOCENTRIC CONIC DISTANCE 422.234

RL	149.08	LAL	.00	LOL	23.41	VL	27.370	GAL	1.30	AZL	107.20	HCA	188.17	SMA	128.68	ECC	.16010	INC	17.1953
RP	108.08	LAP	2.41	LOP	211.22	VP	37.742	GAP	.18	AZP	72.97	TAL	173.16	TAP	1.33	RCA	108.08	APO	149.28
RC	81.719	GL	-64.23	GP	87.52	ZAL	82.91	ZAP	89.48	ETS	328.74	ZAE	98.53	ETE	71.35	ZAC	74.11	ETC	202.46
V1	29.889	V2	35.063	CLP	-78.02														

PLANETOCENTRIC CONIC

C3	80.693	VHL	8.983	DLA	-73.51	RAL	10.62	RAD	6569.6	VEL	14.214	PTH	2.59	VHP	12.563	DPA	63.50	RAP	281.25
ECC	2.3280																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
18.81	10 58 19	2122.01	20.80	74.96	274.15	162.33	11 33 41	1522.0	28.40	72.62
161.19	21 43 15	5636.95	20.81	258.62	274.17	162.32	23 17 12	5037.0	28.41	256.29
18.81	10 58 19	2122.01	20.80	74.96	274.15	162.33	11 33 41	1522.0	28.40	72.62
161.19	21 43 15	5636.95	20.81	258.62	274.17	162.32	23 17 12	5037.0	28.41	256.29
18.81	10 58 19	2122.01	20.80	74.96	274.15	162.33	11 33 41	1522.0	28.40	72.62
161.19	21 43 15	5636.95	20.81	258.62	274.17	162.32	23 17 12	5037.0	28.41	256.29

DIFFERENTIAL CORRECTIONS

TDE	-1.1806	TRA	-.3369	TC3	-.0065	BAU	.1927												
RDE	-1.3298	RRA	-1.9296	RC3	.1785	FAU	.00801												
FDE	.6514	FRA	.6850	FC3	-.0859	BSP	14249												
BDE	1.7782	BRA	1.9588	BC3	.1787	FSP	-447												

MID-COURSE EXECUTION ACCURACY

SGT	1067.9	SGR	4430.0	SG3	138.4														
RRT	.8282	RRF	-.9972	RTF	-.8631														
SGB	4556.9	R23	.0401	R13	-.9987														
SG1	4519.0	SG2	586.7	THA	78.51														

ORBIT DETERMINATION ACCURACY

ST	786.5	SR	1553.0	SS	674.3														
CRT	.7648	CRS	.9880	CST	.8550														
LSA	1806.7	MSA	470.0	SSA	1.6														
EL1	1676.3	EL2	469.5	ALF	66.91														

LAUNCH DATE OCT 17 1965 FLIGHT TIME 156.00 ARRIVAL DATE MAR 22 1966

HELIOCENTRIC CONIC DISTANCE 428.432

RL	149.08	LAL	.00	LOL	23.41	VL	27.372	GAL	1.37	AZL	101.72	HCA	191.25	SMA	128.69	ECC	.16014	INC	11.7159
RP	108.12	LAP	2.27	LOP	214.43	VP	37.732	GAP	.56	AZP	78.50	TAL	172.79	TAP	4.04	RCA	108.08	APO	149.30
RC	84.008	GL	-59.33	GP	80.30	ZAL	79.82	ZAP	90.81	ETS	353.04	ZAE	105.16	ETE	94.69	ZAC	67.83	ETC	222.28
V1	29.889	V2	35.050	CLP	-94.82														

PLANETOCENTRIC CONIC

C3	41.733	VHL	6.460	DLA	-69.37	RAL	.63	RAD	6568.6	VEL	12.771	PTH	2.32	VHP	9.274	DPA	56.38	RAP	284.61
ECC	1.6868																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
23.60	10 28 36	1949.77	30.33	66.88	257.89	155.90	11 1 5	1349.8	37.57	63.18
156.40	20 53 19	5488.40	30.34	255.50	257.91	155.90	22 24 47	4888.4	37.57	251.81
23.60	10 28 36	1949.77	30.33	66.88	257.89	155.90	11 1 5	1349.8	37.57	63.18
156.40	20 53 19	5488.40	30.34	255.50	257.91	155.90	22 24 47	4888.4	37.57	251.81
23.60	10 28 36	1949.77	30.33	66.88	257.89	155.90	11 1 5	1349.8	37.57	63.18
156.40	20 53 19	5488.40	30.34	255.50	257.91	155.90	22 24 47	4888.4	37.57	251.81

DIFFERENTIAL CORRECTIONS

TDE	-.5641	TRA	.3576	TC3	-.2176	BAU	.3952												
RDE	-.4699	RRA	-1.7365	RC3	.6740	FAU	.02030												
FDE	.3337	FRA	.9053	FC3	-.4211	BSP	14483												
BDE	.7342	BRA	1.7730	BC3	.7083	FSP	-665												

MID-COURSE EXECUTION ACCURACY

SGT	1067.3	SGR	4475.8	SG3	204.0														
RRT	-.8309	RRF	-.9988	RTF	.8155														
SGB	4601.3	R23	.0514	R13	-.9978														
SG1	4564.3	SG2	582.4	THA	101.40														

ORBIT DETERMINATION ACCURACY

ST	568.6	SR	1376.0	SS	596.9														
CRT	-.1861	CRS	.9949	CST	-.0864														
LSA	1502.6	MSA	561.6	SSA	2.3														
EL1	1380.9	EL2	556.7	ALF	95.25														

LAUNCH DATE OCT 17 1965 FLIGHT TIME 158.00 ARRIVAL DATE MAR 24 1966

HELIOCENTRIC CONIC DISTANCE 434.671

RL 149.08 LAL .00 LOL 23.41 VL 27.372 GAL 1.44 AZL 98.59 HCA 194.38 SMA 128.69 ECC .16034 INC 8.5864 VI 29.889
RP 108.16 LAP 2.13 LOP 217.64 VP 37.719 GAP .94 AZP 81.68 TAL 172.43 TAP 6.82 RCA 108.06 APO 149.33 V2 35.036
RC 86.309 GL -53.14 GP 74.23 ZAL 76.69 ZAP 92.94 ETS 2.14 ZAE 110.35 ETE 103.45 ZAC 62.52 ETC 227.05 CLP-100.87

PLANETOCENTRIC CONIC

C3 26.072 VHL 5.106 DLA -64.14 RAL 351.55 RAD 6568.1 VEL 12.143 PTH 2.18 VHP 7.456 DPA 50.35 RAP 286.13 ECC 1.4291

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
29.70	10 6 3	1811.64	35.93	56.18	240.97	147.41	10 36 15	1211.6	42.54	50.76
150.30	20 3 24	5390.08	35.94	251.50	240.99	147.40	21 33 14	4790.1	42.54	246.08
29.70	10 6 3	1811.64	35.93	56.18	240.97	147.41	10 36 15	1211.6	42.54	50.76
150.30	20 3 24	5390.08	35.94	251.50	240.99	147.40	21 33 14	4790.1	42.54	246.08
29.70	10 6 3	1811.64	35.93	56.18	240.97	147.41	10 36 15	1211.6	42.54	50.76
150.30	20 3 24	5390.08	35.94	251.50	240.99	147.40	21 33 14	4790.1	42.54	246.08

DIFFERENTIAL CORRECTIONS

TDE -.4946 TRA .5660 TC3 -.6050 BAU .4792
RDE .0098 RRA-1.6022 RC3 1.2344 FAU .03219
FDE .0793 FRA 1.2016 FC3-1.0687 BSP 14464
BDE .4947 BRA 1.6992 BC3 1.3747 FSP -921

MID-COURSE EXECUTION ACCURACY

SGT 1676.3 SGR 4310.6 SG3 283.4
RRT -.9393 RRF -.9987 RTF .9325
SGB 4625.1 R23 .0597 R13 -.9970
SG1 4593.5 SG2 539.8 THA 110.36

ORBIT DETERMINATION ACCURACY

ST 706.6 SR 1237.3 SS 600.6
CRT -.6257 CRS .9945 CST -.5410
LSA 1451.5 MSA 533.0 SSA 3.0
EL1 1329.2 EL2 513.0 ALF 113.34

LAUNCH DATE OCT 17 1965 FLIGHT TIME 160.00 ARRIVAL DATE MAR 26 1966

HELIOCENTRIC CONIC DISTANCE 440.918

RL 149.08 LAL .00 LOL 23.41 VL 27.369 GAL 1.51 AZL 96.56 HCA 197.54 SMA 128.67 ECC .16071 INC 6.5629 VI 29.889
RP 108.20 LAP 1.97 LOP 220.85 VP 37.705 GAP 1.32 AZP 83.74 TAL 172.05 TAP 9.59 RCA 107.99 APO 149.35 V2 35.023
RC 88.623 GL -46.53 GP 68.78 ZAL 73.66 ZAP 95.73 ETS 8.29 ZAE 114.64 ETE 109.96 ZAC 57.67 ETC 229.06 CLP-106.02

PLANETOCENTRIC CONIC

C3 18.563 VHL 4.308 DLA -58.27 RAL 344.88 RAD 6567.8 VEL 11.830 PTH 2.10 VHP 6.341 DPA 44.88 RAP 286.82 ECC 1.3055

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
36.68	9 56 40	1699.00	37.94	44.09	226.05	138.18	10 24 59	1099.0	43.68	37.13
143.32	19 19 35	5338.55	37.95	247.78	226.07	138.17	20 48 34	4738.6	43.69	240.83
36.68	9 56 40	1699.00	37.94	44.09	226.05	138.18	10 24 59	1099.0	43.68	37.13
143.32	19 19 35	5338.55	37.95	247.78	226.07	138.17	20 48 34	4738.6	43.69	240.83
36.68	9 56 40	1699.00	37.94	44.09	226.05	138.18	10 24 59	1099.0	43.68	37.13
143.32	19 19 35	5338.55	37.95	247.78	226.07	138.17	20 48 34	4738.6	43.69	240.83

DIFFERENTIAL CORRECTIONS

TDE -.4590 TRA .7155 TC3-1.1438 BAU .5238
RDE .1512 RRA-1.5005 RC3 1.7740 FAU .04403
FDE -.0444 FRA 1.5352 FC3-2.0533 BSP 14473
BDE .4832 BRA 1.6623 BC3 2.1108 FSP -1204

MID-COURSE EXECUTION ACCURACY

SGT 2148.9 SGR 4095.8 SG3 368.7
RRT -.9652 RRF -.9984 RTF .9602
SGB 4625.3 R23 .0688 R13 -.9961
SG1 4598.1 SG2 500.7 THA 117.21

ORBIT DETERMINATION ACCURACY

ST 817.3 SR 1156.9 SS 639.6
CRT -.7847 CRS .9923 CST -.7020
LSA 1480.4 MSA 473.1 SSA 3.8
EL1 1348.1 EL2 434.8 ALF 122.84

LAUNCH DATE OCT 17 1965 FLIGHT TIME 162.00 ARRIVAL DATE MAR 28 1966

HELIOCENTRIC CONIC DISTANCE 447.158

RL 149.08 LAL .00 LOL 23.41 VL 27.364 GAL 1.60 AZL 95.14 HCA 200.71 SMA 128.64 ECC .16125 INC 5.1429 VI 29.889
RP 108.24 LAP 1.82 LOP 224.05 VP 37.689 GAP 1.70 AZP 85.19 TAL 171.62 TAP 12.33 RCA 107.90 APO 149.38 V2 35.010
RC 90.946 GL -39.99 GP 63.70 ZAL 70.82 ZAP 99.05 ETS 13.10 ZAE 118.21 ETE 115.82 ZAC 53.12 ETC 229.87 CLP-110.80

PLANETOCENTRIC CONIC

C3 14.560 VHL 3.816 DLA -52.22 RAL 340.22 RAD 6567.6 VEL 11.660 PTH 2.05 VHP 5.616 DPA 39.77 RAP 287.07 ECC 1.2396

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
44.10	9 58 55	1599.61	37.30	31.89	214.00	129.63	10 25 35	999.6	42.12	24.00
135.90	18 40 6	5326.90	37.31	245.67	214.01	129.62	20 8 53	4726.9	42.13	237.78
44.10	9 58 55	1599.61	37.30	31.89	214.00	129.63	10 25 35	999.6	42.12	24.00
135.90	18 40 6	5326.90	37.31	245.67	214.01	129.62	20 8 53	4726.9	42.13	237.78
44.10	9 58 55	1599.61	37.30	31.89	214.00	129.63	10 25 35	999.6	42.12	24.00
135.90	18 40 6	5326.90	37.31	245.67	214.01	129.62	20 8 53	4726.9	42.13	237.78

DIFFERENTIAL CORRECTIONS

TDE -.4020 TRA .8509 TC3-1.7859 BAU .5524
RDE .1441 RRA-1.4103 RC3 2.2054 FAU .05524
FDE -.0424 FRA 1.8811 FC3-3.2846 BSP 14499
BDE .4271 BRA 1.6471 BC3 2.8378 FSP -1489

MID-COURSE EXECUTION ACCURACY

SGT 2563.4 SGR 3850.6 SG3 453.4
RRT -.9759 RRF -.9980 RTF .9715
SGB 4625.9 R23 .0782 R13 -.9950
SG1 4602.1 SG2 467.9 THA 123.40

ORBIT DETERMINATION ACCURACY

ST 870.4 SR 1060.5 SS 672.8
CRT -.8467 CRS .9873 CST -.7514
LSA 1465.3 MSA 433.5 SSA 4.8
EL1 1320.6 EL2 372.0 ALF 128.39

LAUNCH DATE OCT 17 1965 FLIGHT TIME 164.00 ARRIVAL DATE MAR 30 1966

HELIOCENTRIC CONIC DISTANCE 453.386

RL 149.08 LAL .00 LOL 23.41 VL 27.358 GAL 1.70 AZL 94.09 HCA 203.88 SMA 128.59 ECC .16195 INC 4.0868 VI 29.889
RP 108.29 LAP 1.65 LOP 227.24 VP 37.672 GAP 2.08 AZP 86.26 TAL 171.16 TAP 15.04 RCA 107.77 APO 149.42 V2 34.996
RC 93.279 GL -33.77 GP 58.92 ZAL 68.25 ZAP 102.75 ETS 16.99 ZAE 121.14 ETE 121.41 ZAC 48.83 ETC 229.88 CLP-115.31

PLANETOCENTRIC CONIC

C3 12.293 VHL 3.506 DLA -46.31 RAL 336.98 RAD 6567.5 VEL 11.562 PTH 2.02 VHP 5.130 DPA 34.95 RAP 287.12 ECC 1.2023

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO EST TIM	INJ 2 LAT	INJ 2 LONG
51.69	10 11 7	1502.42	35.04	20.13	204.90	122.46	10 36 9	902.4	39.03	11.85
128.31	18 2 5	5350.58	35.05	246.00	204.91	122.45	19 31 15	4750.6	39.04	237.72
51.69	10 11 7	1502.42	35.04	20.13	204.90	122.46	10 36 9	902.4	39.03	11.85
128.31	18 2 5	5350.58	35.05	246.00	204.91	122.45	19 31 15	4750.6	39.04	237.72
51.69	10 11 7	1502.42	35.04	20.13	204.90	122.46	10 36 9	902.4	39.03	11.85
128.31	18 2 5	5350.58	35.05	246.00	204.91	122.45	19 31 15	4750.6	39.04	237.72

DIFFERENTIAL CORRECTIONS

TDE -.3201 TRA .9828 TC3-2.4590 BAU .5720
RDE .0840 RRA-1.3264 RC3 2.4630 FAU .06483
FDE .0612 FRA 2.2194 FC3-4.5656 BSP 14456
BDE .3309 BRA 1.6508 BC3 3.4803 FSP -1742

MID-COURSE EXECUTION ACCURACY

SGT 2941.4 SGR 3584.1 SG3 531.4
RRT -.9812 RRF -.9975 RTF .9770
SGB 4636.6 R23 .0868 R13 -.9938
SG1 4615.6 SG2 440.7 THA 129.27

ORBIT DETERMINATION ACCURACY

ST 873.3 SR 952.6 SS 700.8
CRT -.8786 CRS .9784 CST -.7613
LSA 1412.0 MSA 409.4 SSA 6.0
EL1 1252.9 EL2 317.1 ALF 132.17

LAUNCH DATE OCT 17 1965 FLIGHT TIME 166.00 ARRIVAL DATE APR 1 1966

HELIOCENTRIC CONIC DISTANCE 459.597

RL 149.08 LAL .00 LOL 23.41 VL 27.349 GAL 1.81 AZL 93.27 HCA 207.06 SMA 128.54 ECC .16282 INC 3.2667 V1 29.889
RP 108.33 LAP 1.49 LOP 230.44 VP 37.653 GAP 2.45 AZP 87.09 TAL 170.64 TAP 17.71 RCA 107.61 APO 149.46 V2 34.983
RC 95.621 GL -28.04 GP 54.41 ZAL 65.94 ZAP 106.67 ETS 20.15 ZAE 123.47 ETE 126.81 ZAC 44.84 ETC 229.17 CLP-119.53

PLANETOCENTRIC CONIC

C3 10.980 VHL 3.314 DLA -40.74 RAL 334.73 RAD 6567.4 VEL 11.505 PTH 2.00 VHP 4.805 DPA 30.40 RAP 287.09 ECC 1.1807

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
59.39	10 33 2	1396.29	31.95	8.52	198.34	116.76	10 56 19	796.3	35.25	.19
120.61	17 22 16	5409.58	31.96	249.17	198.35	116.74	18 52 25	4809.6	35.26	240.84
59.39	10 33 2	1396.29	31.95	8.52	198.34	116.76	10 56 19	796.3	35.25	.19
120.61	17 22 16	5409.58	31.96	249.17	198.35	116.74	18 52 25	4809.6	35.26	240.84
59.39	10 33 2	1396.29	31.95	8.52	198.34	116.76	10 56 19	796.3	35.25	.19
120.61	17 22 16	5409.58	31.96	249.17	198.35	116.74	18 52 25	4809.6	35.26	240.84

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.2205 TRA 1.1110 TC3-3.1055 BAU .5913 SGT 3287.8 SGR 3303.4 SG3 597.0 ST 853.1 SR 851.8 SS 736.1
RDE .0188 RRA-1.2410 RC3 2.5654 FAU .07286 RRT -.9845 RRF -.9968 RTF .9804 CRT -.9108 CRS .9663 CST -.7740
FDE .2260 FRA 2.5209 FC3-5.7450 BSP 14548 SGB 4660.7 R23 .0926 R13 -.9925 LSA 1358.9 MSA 385.2 SSA 7.5
BDE .2213 BRA 1.6657 BC3 4.0281 FSP -1970 SG1 4642.6 SG2 410.8 THA 134.86 EL1 1178.3 EL2 254.6 ALF 135.05

LAUNCH DATE OCT 17 1965 FLIGHT TIME 168.00 ARRIVAL DATE APR 3 1966

HELIOCENTRIC CONIC DISTANCE 465.791

RL 149.08 LAL .00 LOL 23.41 VL 27.339 GAL 1.93 AZL 92.61 HCA 210.24 SMA 128.46 ECC .16385 INC 2.6079 V1 29.889
RP 108.37 LAP 1.31 LOP 233.63 VP 37.634 GAP 2.82 AZP 87.75 TAL 170.08 TAP 20.33 RCA 107.42 APO 149.51 V2 34.970
RC 97.969 GL -22.87 GP 50.17 ZAL 63.89 ZAP 110.69 ETS 22.70 ZAE 125.22 ETE 131.98 ZAC 41.18 ETC 227.77 CLP-123.49

PLANETOCENTRIC CONIC

C3 10.237 VHL 3.200 DLA -35.62 RAL 333.20 RAD 6567.4 VEL 11.473 PTH 1.99 VHP 4.592 DPA 26.14 RAP 287.09 ECC 1.1685

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
67.42	11 6 57	1265.98	28.55	356.01	193.78	112.27	11 28 3	666.0	31.31	347.76
112.58	16 36 7	5511.43	28.56	255.76	193.79	112.26	18 7 58	4911.4	31.31	247.50
67.42	11 6 57	1265.98	28.55	356.01	193.78	112.27	11 28 3	666.0	31.31	347.76
112.58	16 36 7	5511.43	28.56	255.76	193.79	112.26	18 7 58	4911.4	31.31	247.50
67.42	11 6 57	1265.98	28.55	356.01	193.78	112.27	11 28 3	666.0	31.31	347.76
112.58	16 36 7	5511.43	28.56	255.76	193.79	112.26	18 7 58	4911.4	31.31	247.50

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.1080 TRA 1.2380 TC3-3.6741 BAU .6100 SGT 3606.1 SGR 3021.1 SG3 647.5 ST 843.7 SR 770.1 SS 790.3
RDE -.0375 RRA-1.1585 RC3 2.5238 FAU .07870 RRT -.9863 RRF -.9959 RTF .9826 CRT -.9494 CRS .9536 CST -.8112
FDE .4262 FRA 2.7774 FC3-6.6557 BSP 14697 SGB 4704.4 R23 .0946 R13 -.9914 LSA 1343.0 MSA 354.8 SSA 9.2
BDE .1143 BRA 1.6956 BC3 4.4575 FSP -2149 SG1 4688.7 SG2 383.0 THA 140.11 EL1 1128.0 EL2 180.9 ALF 137.75

LAUNCH DATE OCT 17 1965 FLIGHT TIME 170.00 ARRIVAL DATE APR 5 1966

HELIOCENTRIC CONIC DISTANCE 471.965

RL 149.08 LAL .00 LOL 23.41 VL 27.327 GAL 2.06 AZL 92.06 HCA 213.42 SMA 128.38 ECC .16504 INC 2.0642 V1 29.889
RP 108.41 LAP 1.14 LOP 236.82 VP 37.613 GAP 3.19 AZP 88.28 TAL 169.48 TAP 22.91 RCA 107.19 APO 149.57 V2 34.957
RC 100.323 GL -18.26 GP 46.22 ZAL 62.06 ZAP 114.71 ETS 24.74 ZAE 126.46 ETE 136.86 ZAC 37.90 ETC 225.70 CLP-127.18

PLANETOCENTRIC CONIC

C3 9.859 VHL 3.140 DLA -30.99 RAL 332.19 RAD 6567.4 VEL 11.456 PTH 1.99 VHP 4.462 DPA 22.18 RAP 287.16 ECC 1.1622

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
76.84	12 2 46	1073.80	25.16	339.77	190.74	108.73	12 20 39	473.8	27.48	331.65
103.16	15 32 12	5688.58	25.17	267.99	190.74	108.71	17 7 1	5088.6	27.49	259.86
76.84	12 2 46	1073.80	25.16	339.77	190.74	108.73	12 20 39	473.8	27.48	331.65
103.16	15 32 12	5688.58	25.17	267.99	190.74	108.71	17 7 1	5088.6	27.49	259.86
110.00	14 26 7	607.50	17.36	302.01	186.96	119.92	14 36 14	7.5	21.21	294.99
110.00	18 8 2	5202.87	33.50	233.16	192.94	97.23	19 34 45	4602.9	34.14	223.97

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE .0136 TRA 1.3642 TC3-4.1396 BAU .6293 SGT 3897.6 SGR 2745.5 SG3 681.6 ST 875.0 SR 706.4 SS 862.4
RDE -.0805 RRA-1.0797 RC3 2.3800 FAU .08230 RRT -.9871 RRF -.9945 RTF .9840 CRT -.9833 CRS .9430 CST -.8675
FDE .6394 FRA 2.9813 FC3-7.2271 BSP 14902 SGB 4767.5 R23 .0926 R13 -.9903 LSA 1380.7 MSA 319.3 SSA 11.0
BDE .0816 BRA 1.7398 BC3 4.7750 FSP -2275 SG1 4753.9 SG2 359.9 THA 144.96 EL1 1120.1 EL2 100.3 ALF 141.19

LAUNCH DATE OCT 17 1965 FLIGHT TIME 172.00 ARRIVAL DATE APR 7 1966

HELIOCENTRIC CONIC DISTANCE 478.119

RL 149.08 LAL .00 LOL 23.41 VL 27.313 GAL 2.21 AZL 91.61 HCA 216.61 SMA 128.29 ECC .16640 INC 1.6053 V1 29.889
RP 108.44 LAP .96 LOP 240.01 VP 37.592 GAP 3.56 AZP 88.71 TAL 168.83 TAP 25.44 RCA 106.94 APO 149.64 V2 34.945
RC 102.682 GL -14.19 GP 42.57 ZAL 60.42 ZAP 118.64 ETS 26.36 ZAE 127.25 ETE 141.39 ZAC 35.07 ETC 222.96 CLP-130.61

PLANETOCENTRIC CONIC

C3 9.730 VHL 3.119 DLA -26.84 RAL 331.56 RAD 6567.4 VEL 11.451 PTH 1.99 VHP 4.395 DPA 18.53 RAP 287.34 ECC 1.1601

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 24 44	997.11	16.97	330.80	186.96	113.02	12 41 21	397.1	19.94	323.39
90.00	15 5 15	5760.06	27.09	273.75	190.04	98.59	16 41 15	5160.1	28.00	265.20
100.00	13 13 17	840.30	14.78	318.24	185.91	116.28	13 27 17	240.3	18.19	311.11
100.00	16 59 23	5392.10	29.48	247.00	190.37	95.19	18 29 15	4792.1	29.89	238.22
110.00	13 27 39	795.17	10.71	312.47	183.55	122.66	13 40 54	195.2	14.94	305.93
110.00	19 1 30	5009.99	34.15	218.16	190.54	88.39	20 25 0	4410.0	33.55	208.97

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE .1423 TRA 1.4924 TC3-4.4881 BAU .6485 SGT 4164.8 SGR 2485.0 SG3 700.3 ST 961.7 SR 655.7 SS 946.5
RDE -.1105 RRA-1.0074 RC3 2.1705 FAU .08363 RRT -.9870 RRF -.9927 RTF .9849 CRT -.9989 CRS .9350 CST -.9202
FDE .8503 FRA 3.1372 FC3-7.4410 BSP 15123 SGB 4849.8 R23 .0871 R13 -.9894 LSA 1472.9 MSA 284.8 SSA 12.8
BDE .1802 BRA 1.8005 BC3 4.9854 FSP -2340 SG1 4837.7 SG2 343.6 THA 149.33 EL1 1163.7 EL2 25.2 ALF 145.73

LAUNCH DATE OCT 17 1965 FLIGHT TIME 174.00 ARRIVAL DATE APR 9 1966

HELIOCENTRIC CONIC DISTANCE 484.252

RL 149.08 LAL .00 LOL 23.41 VL 27.299 GAL 2.36 AZL 91.21 HCA 219.79 SMA 128.19 ECC .16792 INC 1.2105 V1 29.889
RP 108.48 LAP .77 LOP 243.19 VP 37.569 GAP 3.92 AZP 89.07 TAL 168.14 TAP 27.93 RCA 106.67 APO 149.72 V2 34.932
RC 105.043 GL -10.62 GP 39.22 ZAL 58.91 ZAP 122.42 ETS 27.65 ZAE 127.67 ETE 145.50 ZAC 32.70 ETC 219.60 CLP-133.80

PLANETOCENTRIC CONIC

C3 9.782 VHL 3.128 DLA -23.12 RAL 331.24 RAD 6567.4 VEL 11.453 PTH 1.99 VHP 4.377 DPA 15.19 RAP 287.65 ECC 1.1610

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 13 48	1236.71	10.08	345.02	184.39	116.60	11 34 25	636.7	13.57	338.09
90.00	16 13 35	5522.58	28.32	256.52	188.95	90.06	17 45 38	4922.6	28.03	247.87
100.00	12 17 24	1031.41	8.75	329.23	183.69	118.70	12 34 36	431.4	12.51	322.46
100.00	17 52 40	5203.12	29.82	232.99	188.92	87.84	19 19 23	4603.1	29.20	224.24
110.00	12 49 41	930.22	5.66	319.68	181.80	123.77	13 5 11	330.2	10.06	313.35
110.00	19 36 53	4877.07	33.42	207.86	188.55	82.34	20 58 10	4277.1	32.00	198.92

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE .2726 TRA 1.6193 TC3-4.7371 BAU .6696 SGT 4408.5 SGR 2242.8 SG3 704.9 ST 1092.6 SR 607.9 SS 1026.3
RDE -.1258 RRA -.9393 RC3 1.9424 FAU .08344 RRT -.9862 RRF -.9903 RTF .9855 CRT -.9960 CRS .9267 CST -.9554
FDE 1.0356 FRA 3.2388 FC3-7.3841 BSP 15454 SGB 4946.2 R23 .0778 R13 -.9887 LSA 1597.1 MSA 256.3 SSA 14.2
BDE .3003 BRA 1.8720 BC3 5.1199 FSP -2371 SG1 4935.1 SG2 331.8 THA 153.23 EL1 1249.4 EL2 47.3 ALF 150.96

LAUNCH DATE OCT 17 1965 FLIGHT TIME 176.00 ARRIVAL DATE APR 11 1966

HELIOCENTRIC CONIC DISTANCE 490.364

RL 149.08 LAL .00 LOL 23.41 VL 27.283 GAL 2.54 AZL 90.87 HCA 222.96 SMA 128.08 ECC .16961 INC .8654 V1 29.889
RP 108.52 LAP .59 LOP 246.38 VP 37.547 GAP 4.28 AZP 89.37 TAL 167.41 TAP 30.38 RCA 106.36 APO 149.81 V2 34.920
RC 107.406 GL -7.49 GP 36.18 ZAL 57.52 ZAP 126.02 ETS 28.68 ZAE 127.79 ETE 149.18 ZAC 30.82 ETC 215.72 CLP-136.76

PLANETOCENTRIC CONIC

C3 9.975 VHL 3.158 DLA -19.81 RAL 331.15 RAD 6567.4 VEL 11.461 PTH 1.99 VHP 4.398 DPA 12.17 RAP 288.11 ECC 1.1642

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 31 43	1391.60	5.24	353.84	183.30	117.87	10 54 54	791.6	8.93	347.10
90.00	16 54 58	5375.45	27.86	245.79	187.98	84.71	18 24 34	4775.5	26.83	237.27
100.00	11 40 29	1169.68	4.15	336.92	182.70	119.63	11 59 58	569.7	8.07	330.32
100.00	18 28 53	5072.61	29.10	223.36	187.82	82.82	19 53 26	4472.6	27.80	214.79
110.00	12 21 42	1040.48	1.46	325.45	181.03	124.16	12 39 3	440.5	5.94	319.22
110.00	20 4 9	4774.58	32.22	200.11	187.21	77.90	21 23 43	4174.6	30.22	191.46

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE .4050 TRA 1.7481 TC3-4.8920 BAU .6912 SGT 4631.5 SGR 2022.5 SG3 698.1 ST 1253.4 SR 561.8 SS 1099.2
RDE -.1313 RRA -.8778 RC3 1.7116 FAU .08182 RRT -.9844 RRF -.9872 RTF .9859 CRT -.9820 CRS .9170 CST -.9754
FDE 1.1958 FRA 3.2990 FC3-7.1014 BSP 15813 SGB 5053.9 R23 .0670 R13 -.9882 LSA 1743.2 MSA 236.5 SSA 15.2
BDE .4258 BRA 1.9562 BC3 5.1628 FSP -2360 SG1 5043.3 SG2 326.6 THA 156.63 EL1 1370.1 EL2 97.1 ALF 156.12

LAUNCH DATE OCT 17 1965 FLIGHT TIME 178.00 ARRIVAL DATE APR 13 1966

HELIOCENTRIC CONIC DISTANCE 496.453

RL 149.08 LAL .00 LOL 23.41 VL 27.265 GAL 2.72 AZL 90.56 HCA 226.14 SMA 127.97 ECC .17147 INC .5592 V1 29.889
RP 108.56 LAP .40 LOP 249.55 VP 37.523 GAP 4.64 AZP 89.61 TAL 166.64 TAP 32.78 RCA 106.03 APO 149.91 V2 34.909
RC 109.770 GL -4.76 GP 33.42 ZAL 56.20 ZAP 129.41 ETS 29.52 ZAE 127.68 ETE 152.43 ZAC 29.44 ETC 211.43 CLP-139.52

PLANETOCENTRIC CONIC

C3 10.284 VHL 3.207 DLA -16.86 RAL 331.25 RAD 6567.4 VEL 11.475 PTH 1.99 VHP 4.451 DPA 9.45 RAP 288.73 ECC 1.1692

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 1 14	1514.02	1.32	.69	183.02	118.29	10 26 28	914.0	5.09	354.04
90.00	17 26 15	5265.22	26.91	237.86	187.43	80.85	18 54 1	4665.2	25.37	229.53
100.00	11 12 58	1282.55	.33	343.13	182.48	119.89	11 34 20	682.5	4.31	336.59
100.00	18 57 12	4971.93	28.02	216.07	187.21	79.14	20 20 4	4371.9	26.23	207.72
110.00	12 0 1	1135.16	-2.16	330.39	180.92	124.12	12 18 56	535.2	2.34	324.19
110.00	20 26 39	4692.09	30.88	194.05	186.45	74.55	21 44 51	4092.1	28.45	185.69

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE .5384 TRA 1.8795 TC3-4.9632 BAU .7125 SGT 4834.3 SGR 1824.2 SG3 682.3 ST 1429.2 SR 515.8 SS 1160.2
RDE -.1286 RRA -.8228 RC3 1.4914 FAU .07909 RRT -.9816 RRF -.9831 RTF .9861 CRT -.9617 CRS .9039 CST -.9862
FDE 1.3268 FRA 3.3241 FC3-6.6580 BSP 16210 SGB 5167.0 R23 .0559 R13 -.9877 LSA 1898.5 MSA 223.9 SSA 15.8
BDE .5536 BRA 2.0517 BC3 5.1825 FSP -2322 SG1 5156.7 SG2 326.7 THA 159.59 EL1 1513.5 EL2 133.4 ALF 160.70

LAUNCH DATE OCT 17 1965 FLIGHT TIME 180.00 ARRIVAL DATE APR 15 1966

HELIOCENTRIC CONIC DISTANCE 502.520

RL 149.08 LAL .00 LOL 23.41 VL 27.247 GAL 2.92 AZL 90.28 HCA 229.32 SMA 127.85 ECC .17350 INC .2841 V1 29.889
RP 108.59 LAP .22 LOP 252.73 VP 37.499 GAP 5.00 AZP 89.81 TAL 165.83 TAP 35.15 RCA 105.66 APO 150.03 V2 34.897
RC 112.133 GL -2.37 GP 30.93 ZAL 54.95 ZAP 132.59 ETS 30.22 ZAE 127.42 ETE 155.26 ZAC 28.54 ETC 206.92 CLP-142.09

PLANETOCENTRIC CONIC

C3 10.693 VHL 3.270 DLA -14.22 RAL 331.50 RAD 6567.4 VEL 11.493 PTH 2.00 VHP 4.530 DPA 7.02 RAP 289.49 ECC 1.1760

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 37 37	1617.51	-2.02	6.46	183.31	118.25	10 4 35	1017.5	1.77	359.83
90.00	17 51 54	5177.54	25.81	231.68	187.31	77.94	19 18 12	4577.5	23.89	223.54
100.00	10 51 24	1379.46	-2.95	348.45	182.80	119.76	11 14 23	779.5	1.03	341.92
100.00	19 20 48	4890.81	26.85	210.33	187.05	76.33	20 42 19	4290.8	24.70	202.19
110.00	11 42 42	1218.78	-5.34	334.77	181.31	123.81	12 3 1	618.8	-.86	328.55
110.00	20 46 0	4624.26	29.55	189.22	186.18	71.97	22 3 4	4024.3	26.80	181.11

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE .6730 TRA 2.0143 TC3-4.9649 BAU .7333 SGT 5019.0 SGR 1647.9 SG3 660.1 ST 1610.3 SR 471.0 SS 1210.5
RDE -.1208 RRA -.7746 RC3 1.2891 FAU .07550 RRT -.9775 RRF -.9779 RTF .9861 CRT -.9371 CRS .8865 CST -.9920
FDE 1.4329 FRA 3.3238 FC3-6.1124 BSP 16610 SGB 5282.6 R23 .0464 R13 -.9872 LSA 2057.4 MSA 216.7 SSA 16.1
BDE .6838 BRA 2.1581 BC3 5.1295 FSP -2259 SG1 5272.2 SG2 331.2 THA 162.13 EL1 1670.3 EL2 158.4 ALF 164.53

LAUNCH DATE OCT 17 1965 FLIGHT TIME 182.00 ARRIVAL DATE APR 17 1966

HELIOCENTRIC CONIC DISTANCE 508.565

RL	149.08	LAL	.00	LOL	23.41	VL	27.228	GAL	3.14	AZL	90.03	HCA	232.49	SMA	127.72	ECC	.17572	INC	.0335	V1	29.889
RP	108.63	LAP	.03	LOP	255.91	VP	37.475	GAP	5.36	AZP	89.98	TAL	164.99	TAP	37.48	RCA	105.28	APO	150.16	V2	34.886
RC	114.493	GL	-.28	GP	28.69	ZAL	53.74	ZAP	135.57	ETS	30.82	ZAE	127.05	ETE	157.72	ZAC	28.10	ETC	202.36	CLP	-144.49

PLANETOCENTRIC CONIC

C3	11.195	VHL	3.346	DLA	-11.85	RAL	331.88	RAD	6567.4	VEL	11.514	PTH	2.01	VHP	4.630	DPA	4.87	RAP	290.39	ECC	1.1842

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 18 41	1708.09	-4.93	11.53	184.01	117.92	9 47 9	1108.1	-1.16	4.88
90.00	18 13 53	5105.76	24.70	226.72	187.56	75.69	19 38 58	4505.8	22.49	218.75
100.00	10 34 1	1465.08	-5.83	353.17	183.52	119.37	10 58 26	865.1	-1.87	346.62
100.00	19 41 14	4823.99	25.69	205.70	187.27	74.16	21 1 38	4224.0	23.27	197.74
110.00	11 28 38	1293.99	-8.17	338.75	182.08	123.31	11 50 12	694.0	-3.73	332.48
110.00	21 3 6	4567.85	28.29	185.30	186.32	69.97	22 19 14	3967.8	25.30	177.41

DIFFERENTIAL CORRECTIONS								MID-COURSE EXECUTION ACCURACY								ORBIT DETERMINATION ACCURACY					
TDE	.8104	TRA	2.1559	TC3	-4.9017	BAU	.7521	SGT	5187.9	SGR	1492.9	SG3	633.9	ST	1793.4	SR	428.7	SS	1251.5		
RDE	-.1096	RRA	-.7332	RC3	1.1061	FAU	.07118	RRT	-.9719	RRF	-.9714	RTF	.9858	CRT	-.9079	CRS	.8638	CST	-.9953		
FDE	1.5182	FRA	3.3082	FC3	-5.5043	BSP	16948	SGB	5398.4	R23	.0388	R13	-.9867	LSA	2218.3	MSA	212.9	SSA	16.1		
BDE	.8178	BRA	2.2771	BC3	5.0250	FSP	-2169	SG1	5387.8	SG2	338.4	THA	164.31	EL1	1835.5	EL2	175.6	ALF	167.64		

LAUNCH DATE OCT 17 1965 FLIGHT TIME 184.00 ARRIVAL DATE APR 19 1966

HELIOCENTRIC CONIC DISTANCE 514.585

RL	149.08	LAL	.00	LOL	23.41	VL	27.208	GAL	3.37	AZL	89.81	HCA	235.67	SMA	127.58	ECC	.17814	INC	.1938	V1	29.889
RP	108.66	LAP	-.16	LOP	259.08	VP	37.451	GAP	5.72	AZP	90.11	TAL	164.11	TAP	39.78	RCA	104.86	APO	150.31	V2	34.875
RC	116.852	GL	1.54	GP	26.68	ZAL	52.56	ZAP	138.34	ETS	31.37	ZAE	126.61	ETE	159.84	ZAC	28.07	ETC	197.95	CLP	-146.74

PLANETOCENTRIC CONIC

C3	11.786	VHL	3.433	DLA	-9.73	RAL	332.37	RAD	6567.4	VEL	11.540	PTH	2.01	VHP	4.750	DPA	2.95	RAP	291.42	ECC	1.1940

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 3 12	1789.14	-7.49	16.11	185.05	117.39	9 33 1	1189.1	-3.76	9.41
90.00	18 33 15	5046.09	23.63	222.67	188.12	73.93	19 57 21	4446.1	21.20	214.84
100.00	10 19 45	1542.17	-8.38	357.47	184.57	118.80	10 45 27	942.2	-4.47	350.86
100.00	19 59 23	4768.30	24.60	201.92	187.80	72.45	21 18 51	4168.3	21.96	194.11
110.00	11 17 6	1362.57	-10.71	342.44	183.16	122.66	11 39 49	762.6	-6.33	336.09
110.00	21 18 31	4520.66	27.15	182.11	186.79	68.39	22 33 51	3920.7	23.97	174.39

DIFFERENTIAL CORRECTIONS								MID-COURSE EXECUTION ACCURACY								ORBIT DETERMINATION ACCURACY					
TDE	.9458	TRA	2.2998	TC3	-4.8028	BAU	.7714	SGT	5341.5	SGR	1356.9	SG3	604.9	ST	1966.3	SR	387.8	SS	1278.3		
RDE	-.0944	RRA	-.6964	RC3	.9504	FAU	.06683	RRT	-.9648	RRF	-.9633	RTF	.9856	CRT	-.8708	CRS	.8321	CST	-.9971		
FDE	1.5771	FRA	3.2740	FC3	-4.9091	BSP	17350	SGB	5511.1	R23	.0319	R13	-.9862	LSA	2367.7	MSA	211.5	SSA	16.0		
BDE	.9505	BRA	2.4029	BC3	4.8659	FSP	-2082	SG1	5500.2	SG2	346.5	THA	166.17	EL1	1995.4	EL2	187.8	ALF	170.17		

LAUNCH DATE OCT 17 1965 FLIGHT TIME 186.00 ARRIVAL DATE APR 21 1966

HELIOCENTRIC CONIC DISTANCE 520.580

RL	149.08	LAL	.00	LOL	23.41	VL	27.187	GAL	3.61	AZL	89.59	HCA	238.84	SMA	127.45	ECC	.18075	INC	.4066	V1	29.889
RP	108.69	LAP	-.35	LOP	262.25	VP	37.426	GAP	6.09	AZP	90.21	TAL	163.20	TAP	42.04	RCA	104.41	APO	150.48	V2	34.865
RC	119.206	GL	3.13	GP	24.88	ZAL	51.40	ZAP	140.92	ETS	31.89	ZAE	126.13	ETE	161.67	ZAC	28.40	ETC	193.81	CLP	-148.84

PLANETOCENTRIC CONIC

C3	12.465	VHL	3.531	DLA	-7.81	RAL	332.94	RAD	6567.5	VEL	11.569	PTH	2.02	VHP	4.885	DPA	1.27	RAP	292.58	ECC	1.2051

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 50 20	1862.82	-9.77	20.32	186.34	116.71	9 21 23	1262.8	-6.11	13.55
90.00	18 50 40	4996.10	22.65	219.34	188.94	72.54	20 13 56	4396.1	20.05	211.63
100.00	10 7 55	1612.56	-10.66	1.45	185.87	118.09	10 34 48	1012.6	-6.83	354.76
100.00	20 15 46	4721.60	23.60	198.81	188.60	71.10	21 34 28	4121.6	20.80	191.13
110.00	11 7 34	1425.77	-13.01	345.89	184.49	121.89	11 31 20	825.8	-8.70	339.44
110.00	21 32 37	4481.15	26.13	179.49	187.54	67.14	22 47 18	3881.1	22.81	171.91

DIFFERENTIAL CORRECTIONS								MID-COURSE EXECUTION ACCURACY								ORBIT DETERMINATION ACCURACY					
TDE	1.0816	TRA	2.4490	TC3	-4.6697	BAU	.7900	SGT	5481.4	SGR	1238.0	SG3	574.7	ST	2130.5	SR	350.2	SS	1295.5		
RDE	-.0773	RRA	-.6644	RC3	.8165	FAU	.06239	RRT	-.9560	RRF	-.9534	RTF	.9852	CRT	-.8240	CRS	.7900	CST	-.9982		
FDE	1.6177	FRA	3.2298	FC3	-4.3334	BSP	17744	SGB	5619.5	R23	.0261	R13	-.9856	LSA	2509.0	MSA	211.4	SSA	15.8		
BDE	1.0844	BRA	2.5375	BC3	4.7406	FSP	-1989	SG1	5608.3	SG2	355.1	THA	167.77	EL1	2150.1	EL2	196.6	ALF	172.22		

LAUNCH DATE OCT 17 1965 FLIGHT TIME 188.00 ARRIVAL DATE APR 23 1966

HELIOCENTRIC CONIC DISTANCE 526.550

RL	149.08	LAL	.00	LOL	23.41	VL	27.165	GAL	3.88	AZL	89.39	HCA	242.01	SMA	127.30	ECC	.18357	INC	.6051	V1	29.889
RP	108.72	LAP	-.53	LOP	265.42	VP	37.401	GAP	6.46	AZP	90.28	TAL	162.27	TAP	44.27	RCA	103.93	APO	150.67	V2	34.856
RC	121.557	GL	4.51	GP	23.27	ZAL	50.27	ZAP	143.33	ETS	32.42	ZAE	125.64	ETE	163.24	ZAC	29.04	ETC	190.05	CLP	-150.83

PLANETOCENTRIC CONIC

C3	13.236	VHL	3.638	DLA	-6.09	RAL	333.59	RAD	6567.5	VEL	11.603	PTH	2.03	VHP	5.036	DPA	-.20	RAP	293.85	ECC	1.2178

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 39 35	1930.61	-11.82	24.25	187.86	115.92	9 11 46	1330.6	-8.24	17.40
90.00	19 6 34	4954.07	21.77	216.57	189.99	71.43	20 29 8	4354.1	19.03	208.97
100.00	9 58 2	1677.52	-12.72	5.18	187.40	117.28	10 26 0	1077.5	-8.96	358.40
100.00	20 30 47	4682.40	22.71	196.24	189.63	70.03	21 48 50	4082.4	19.79	188.66
110.00	10 59 40	1484.55	-15.10	349.16	186.03	121.04	11 24 25	884.5	-10.88	342.61
110.00	21 45 39	4448.13	25.24	177.34	188.52	66.15	22 59 47	3848.1	21.80	169.87

DIFFERENTIAL CORRECTIONS								MID-COURSE EXECUTION ACCURACY								ORBIT DETERMINATION ACCURACY					
TDE	1.2186	TRA	2.6048	TC3	-4.5078	BAU	.8072	SGT	5609.0	SGR	1134.4	SG3	544.2	ST	2285.8	SR	317.0	SS	1304.9		
RDE	-.0590	RRA	-.6370	RC3	.7014	FAU	.05792	RRT	-.9452	RRF	-.9417	RTF	.9847	CRT	-.7652	CRS	.7355	CST	-.9989		
FDE	1.6443	FRA	3.1803	FC3	-3.7887	BSP	18115	SGB	5722.6	R23	.0214	R13	-.9851	LSA	2642.5	MSA	212.1	SSA	15.6		
BDE	1.2200	BRA	2.6816	BC3	4.5620	FSP	-1893	SG1	5711.0	SG2	363.7	THA	169.13	EL1	2298.7	EL2	202.9	ALF	173.90		

LAUNCH DATE OCT 17 1965 FLIGHT TIME 190.00 ARRIVAL DATE APR 25 1966

HELIOCENTRIC CONIC DISTANCE 532.493

RL 149.08 LAL .00 LOL 23.41 VL 27.143 GAL 4.16 AZL 89.21 HCA 245.18 SMA 127.15 ECC .18662 INC .7923 VI 29.889
RP 108.75 LAP -.72 LOP 268.59 VP 37.377 GAP 6.84 AZP 90.33 TAL 161.30 TAP 46.48 RCA 103.42 APO 150.88 V2 34.846
RC 123.903 GL 5.72 GP 21.82 ZAL 49.15 ZAP 145.58 ETS 32.97 ZAE 125.16 ETE 164.60 ZAC 29.94 ETC 186.70 CLP-152.70

PLANETOCENTRIC CONIC

C3 14.102 VHL 3.755 DLA -4.52 RAL 334.29 RAD 6567.6 VEL 11.640 PTH 2.04 VHP 5.200 DPA -1.48 RAP 295.23 ECC 1.2321

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 30 33	1993.59	-13.67	27.95	189.56	115.04	9 3 46	1393.6	-10.18	21.01
90.00	19 21 13	4918.80	20.98	214.28	191.22	70.54	20 43 12	4318.8	18.14	206.76
100.00	9 49 46	1738.04	-14.58	8.71	189.10	116.39	10 18 44	1138.0	-10.92	1.83
100.00	20 44 41	4649.58	21.93	194.11	190.85	69.17	22 2 10	4049.6	18.91	186.62
110.00	10 53 8	1539.64	-17.01	352.29	187.75	120.11	11 18 48	939.6	-12.88	345.62
110.00	21 57 48	4420.74	24.48	175.58	189.69	65.36	23 11 29	3820.7	20.95	168.21

DIFFERENTIAL CORRECTIONS
TDE 1.3560 TRA 2.7674 TC3-4.3266 BAU .8236
RDE -.0398 RRA -.6135 RC3 .6031 FAU .05355
FDE 1.6586 FRA 3.1285 FC3-3.2873 BSP 18483
BDE 1.3566 BRA 2.8346 BC3 4.3684 FSP -1797

MID-COURSE EXECUTION ACCURACY
SGT 5725.4 SGR 1044.2 SG3 514.2
RRT -.9324 RRF -.9280 RTF .9842
SGB 5819.8 R23 .0178 R13 -.9845
SG1 5807.9 SG2 372.1 THA 170.31

ORBIT DETERMINATION ACCURACY
ST 2429.9 SR 288.5 SS 1307.6
CRT -.6916 CRS .6660 CST -.9993
LSA 2766.2 MSA 213.2 SSA 15.4
EL1 2438.1 EL2 207.6 ALF 175.27

LAUNCH DATE OCT 17 1965 FLIGHT TIME 192.00 ARRIVAL DATE APR 27 1966

HELIOCENTRIC CONIC DISTANCE 538.408

RL 149.08 LAL .00 LOL 23.41 VL 27.120 GAL 4.46 AZL 89.03 HCA 248.34 SMA 127.00 ECC .18990 INC .9699 VI 29.889
RP 108.78 LAP -.90 LOP 271.76 VP 37.352 GAP 7.22 AZP 90.36 TAL 160.31 TAP 48.65 RCA 102.88 APO 151.12 V2 34.838
RC 126.245 GL 6.77 GP 20.52 ZAL 48.04 ZAP 147.68 ETS 33.57 ZAE 124.68 ETE 165.77 ZAC 31.05 ETC 183.78 CLP-154.47

PLANETOCENTRIC CONIC

C3 15.071 VHL 3.882 DLA -3.11 RAL 335.04 RAD 6567.6 VEL 11.681 PTH 2.05 VHP 5.376 DPA -2.59 RAP 296.70 ECC 1.2480

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 22 56	2052.58	-15.34	31.48	191.42	114.10	8 57 8	1452.6	-11.95	24.43
90.00	19 34 50	4889.34	20.30	212.39	192.62	69.83	20 56 19	4289.3	17.37	204.94
100.00	9 42 49	1794.86	-16.27	12.08	190.97	115.43	10 12 44	1194.9	-12.71	5.09
100.00	20 57 38	4622.29	21.26	192.36	192.23	68.48	22 14 40	4022.3	18.15	184.95
110.00	10 47 44	1591.63	-18.76	355.31	189.63	119.11	11 14 16	991.6	-14.73	348.51
110.00	22 9 12	4398.28	23.83	174.15	191.03	64.74	23 22 30	3798.3	20.23	166.86

DIFFERENTIAL CORRECTIONS
TDE 1.4977 TRA 2.9405 TC3-4.1213 BAU .8369
RDE -.0206 RRA -.5937 RC3 .5173 FAU .04910
FDE 1.6674 FRA 3.0787 FC3-2.8202 BSP 18761
BDE 1.4979 BRA 2.9999 BC3 4.1736 FSP -1695

MID-COURSE EXECUTION ACCURACY
SGT 5832.2 SGR 965.6 SG3 485.4
RRT -.9174 RRF -.9121 RTF .9835
SGB 5911.6 R23 .0150 R13 -.9837
SG1 5899.4 SG2 379.9 THA 171.33

ORBIT DETERMINATION ACCURACY
ST 2568.1 SR 265.3 SS 1307.5
CRT -.6042 CRS .5825 CST -.9996
LSA 2886.0 MSA 214.3 SSA 15.2
EL1 2573.2 EL2 211.0 ALF 176.40

LAUNCH DATE OCT 17 1965 FLIGHT TIME 194.00 ARRIVAL DATE APR 29 1966

HELIOCENTRIC CONIC DISTANCE 544.293

RL 149.08 LAL .00 LOL 23.41 VL 27.097 GAL 4.77 AZL 88.86 HCA 251.51 SMA 126.85 ECC .19344 INC 1.1398 VI 29.889
RP 108.80 LAP -1.08 LOP 274.92 VP 37.327 GAP 7.61 AZP 90.36 TAL 159.30 TAP 50.81 RCA 102.31 APO 151.39 V2 34.830
RC 128.581 GL 7.68 GP 19.35 ZAL 46.95 ZAP 149.65 ETS 34.23 ZAE 124.22 ETE 166.78 ZAC 32.34 ETC 181.26 CLP-156.15

PLANETOCENTRIC CONIC

C3 16.152 VHL 4.019 DLA -1.82 RAL 335.83 RAD 6567.6 VEL 11.728 PTH 2.07 VHP 5.565 DPA -3.54 RAP 298.26 ECC 1.2658

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 16 30	2108.21	-16.85	34.86	193.42	113.10	8 51 39	1508.2	-13.58	27.71
90.00	19 47 34	4864.99	19.72	210.84	194.16	69.26	21 8 39	4265.0	16.73	203.45
100.00	9 37 0	1848.55	-17.81	15.32	192.98	114.41	10 7 49	1248.5	-14.37	8.22
100.00	21 9 46	4599.89	20.70	190.94	193.76	67.94	22 26 26	3999.9	17.52	183.58
110.00	10 43 18	1641.00	-20.37	358.24	191.65	118.07	11 10 39	1041.0	-16.45	351.30
110.00	22 19 57	4380.20	23.30	173.02	192.51	64.25	23 32 57	3780.2	19.65	165.78

DIFFERENTIAL CORRECTIONS
TDE 1.6383 TRA 3.1192 TC3-3.9133 BAU .8505
RDE -.0005 RRA -.5764 RC3 .4455 FAU .04501
FDE 1.6658 FRA 3.0265 FC3-2.4123 BSP 19087
BDE 1.6383 BRA 3.1720 BC3 3.9385 FSP -1604

MID-COURSE EXECUTION ACCURACY
SGT 5928.1 SGR 896.7 SG3 457.5
RRT -.9003 RRF -.8941 RTF .9829
SGB 5995.6 R23 .0124 R13 -.9830
SG1 5983.1 SG2 386.8 THA 172.21

ORBIT DETERMINATION ACCURACY
ST 2691.7 SR 246.9 SS 1301.0
CRT -.4996 CRS .4818 CST -.9997
LSA 2992.0 MSA 215.5 SSA 15.0
EL1 2694.6 EL2 213.6 ALF 177.36

LAUNCH DATE OCT 17 1965 FLIGHT TIME 196.00 ARRIVAL DATE MAY 1 1966

HELIOCENTRIC CONIC DISTANCE 550.146

RL 149.08 LAL .00 LOL 23.41 VL 27.073 GAL 5.11 AZL 88.70 HCA 254.67 SMA 126.69 ECC .19725 INC 1.3034 VI 29.889
RP 108.82 LAP -1.26 LOP 278.09 VP 37.303 GAP 8.01 AZP 90.34 TAL 158.26 TAP 52.94 RCA 101.70 APO 151.68 V2 34.822
RC 130.911 GL 8.47 GP 18.30 ZAL 45.87 ZAP 151.49 ETS 34.97 ZAE 123.79 ETE 167.66 ZAC 33.77 ETC 179.11 CLP-157.75

PLANETOCENTRIC CONIC

C3 17.355 VHL 4.166 DLA -.65 RAL 336.66 RAD 6567.7 VEL 11.779 PTH 2.08 VHP 5.766 DPA -4.35 RAP 299.89 ECC 1.2856

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 11 6	2161.00	-18.23	38.12	195.55	112.05	8 47 7	1561.0	-15.08	30.86
90.00	19 59 32	4845.18	19.24	209.59	195.83	68.82	21 20 18	4245.2	16.19	202.24
100.00	9 32 9	1899.59	-19.22	18.46	195.12	113.35	10 3 49	1299.6	-15.90	11.24
100.00	21 21 11	4581.83	20.23	189.80	195.41	67.51	22 37 33	3981.8	17.01	182.49
110.00	10 39 42	1688.13	-21.85	1.09	193.80	116.97	11 7 50	1088.1	-18.06	354.01
110.00	22 30 7	4366.05	22.88	172.13	194.12	63.88	23 42 53	3766.1	19.18	164.95

DIFFERENTIAL CORRECTIONS
TDE 1.7813 TRA 3.3073 TC3-3.6971 BAU .8624
RDE .0198 RRA -.5614 RC3 .3839 FAU .04109
FDE 1.6589 FRA 2.9758 FC3-2.0499 BSP 19383
BDE 1.7814 BRA 3.3546 BC3 3.7170 FSP -1516

MID-COURSE EXECUTION ACCURACY
SGT 6015.2 SGR 836.2 SG3 430.9
RRT -.8809 RRF -.8739 RTF .9823
SGB 6073.1 R23 .0103 R13 -.9824
SG1 6060.4 SG2 392.8 THA 172.99

ORBIT DETERMINATION ACCURACY
ST 2805.8 SR 233.4 SS 1291.2
CRT -.3821 CRS .3683 CST -.9998
LSA 3089.8 MSA 216.6 SSA 14.8
EL1 2807.2 EL2 215.6 ALF 178.17

LAUNCH DATE OCT 17 1965 FLIGHT TIME 198.00 ARRIVAL DATE MAY 3 1966

HELIOCENTRIC CONIC DISTANCE 555.964

RL 149.08 LAL .00 LOL 23.41 VL 27.049 GAL 5.47 AZL 88.54 HCA 257.84 SMA 126.53 ECC .20136 INC 1.4620 VI 29.889
RP 108.85 LAP -1.43 LOP 281.25 VP 37.279 GAP 8.42 AZP 90.31 TAL 157.21 TAP 55.05 RCA 101.05 APO 152.01 V2 34.816
RC 133.236 GL 9.14 GP 17.35 ZAL 44.81 ZAP 153.23 ETS 35.80 ZAE 123.38 ETE 168.43 ZAC 35.31 ETC 177.29 CLP-159.29

PLANETOCENTRIC CONIC

C3 18.693 VHL 4.324 DLA .42 RAL 337.51 RAD 6567.8 VEL 11.835 PTH 2.10 VHP 5.980 DPA -5.02 RAP 301.59 ECC 1.3076

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 6 36	2211.37	-19.49	41.28	197.79	110.96	8 43 27	1611.4	-16.47	33.91
90.00	20 10 49	4829.46	18.85	208.60	197.60	68.47	21 31 19	4229.5	15.76	201.28
100.00	9 28 8	1948.36	-20.50	21.51	197.36	112.24	10 0 36	1348.4	-17.31	14.17
100.00	21 31 58	4567.70	19.86	188.91	197.17	67.19	22 48 6	3967.7	16.60	181.64
110.00	10 36 49	1733.35	-23.22	3.88	196.06	115.82	11 5 43	1133.3	-19.55	356.66
110.00	22 39 46	4355.48	22.56	171.48	195.84	63.61	23 52 22	3755.5	18.83	164.33

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE 1.9266 TRA 3.5051 TC3-3.4768 BAU .8728 SGT 6093.8 SGR 782.8 SG3 405.9 ST 2910.1 SR 224.6 SS 1279.1
RDE .0403 RRA -.5483 RC3 .3309 FAU .03737 RRT -.8594 RRF -.8515 RTF .9816 CRT -.2574 CRS .2472 CST -.9999
FDE 1.6485 FRA 2.9278 FC3-1.7309 BSP 19666 SGB 6143.8 R23 .0084 R13 -.9817 LSA 3179.2 MSA 217.4 SSA 14.7
BDE 1.9270 BRA 3.5477 BC3 3.4925 FSP -1432 SG1 6130.9 SG2 397.8 THA 173.67 EL1 2910.6 EL2 217.0 ALF 178.86

LAUNCH DATE OCT 17 1965 FLIGHT TIME 200.00 ARRIVAL DATE MAY 5 1966

HELIOCENTRIC CONIC DISTANCE 561.747

RL 149.08 LAL .00 LOL 23.41 VL 27.024 GAL 5.85 AZL 88.38 HCA 261.00 SMA 126.37 ECC .20579 INC 1.6170 VI 29.889
RP 108.87 LAP -1.60 LOP 284.41 VP 37.255 GAP 8.84 AZP 90.25 TAL 156.15 TAP 57.15 RCA 100.37 APO 152.38 V2 34.809
RC 135.553 GL 9.72 GP 16.49 ZAL 43.75 ZAP 154.86 ETS 36.74 ZAE 122.99 ETE 169.10 ZAC 36.95 ETC 175.75 CLP-160.76

PLANETOCENTRIC CONIC

C3 20.182 VHL 4.492 DLA 1.39 RAL 338.37 RAD 6567.8 VEL 11.898 PTH 2.11 VHP 6.206 DPA -5.58 RAP 303.35 ECC 1.3321

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 2 51	2259.65	-20.64	44.36	200.13	109.83	8 40 30	1659.6	-17.75	36.87
90.00	20 21 29	4817.46	18.55	207.85	199.47	68.21	21 41 47	4217.5	15.43	200.56
100.00	9 24 50	1995.19	-21.68	24.49	199.71	111.10	9 58 5	1395.2	-18.62	17.03
100.00	21 42 11	4557.16	19.58	188.25	199.02	66.95	22 58 8	3957.2	16.29	181.00
110.00	10 34 34	1776.93	-24.48	6.64	198.43	114.64	11 4 11	1176.9	-20.95	359.27
110.00	22 48 57	4348.18	22.34	171.03	197.66	63.43	24 1 25	3748.2	18.59	163.90

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE 2.0774 TRA 3.7164 TC3-3.2499 BAU .8802 SGT 6166.5 SGR 735.5 SG3 382.5 ST 3008.5 SR 219.8 SS 1267.1
RDE .0606 RRA -.5372 RC3 .2843 FAU .03373 RRT -.8358 RRF -.8271 RTF .9810 CRT -.1335 CRS .1267 CST -.9999
FDE 1.6378 FRA 2.8851 FC3-1.4468 BSP 19861 SGB 6210.2 R23 .0068 R13 -.9810 LSA 3264.5 MSA 218.0 SSA 14.5
BDE 2.0783 BRA 3.7550 BC3 3.2624 FSP -1346 SG1 6197.2 SG2 401.9 THA 174.28 EL1 3008.6 EL2 217.8 ALF 179.44

LAUNCH DATE OCT 17 1965 FLIGHT TIME 202.00 ARRIVAL DATE MAY 7 1966

HELIOCENTRIC CONIC DISTANCE 567.489

RL 149.08 LAL .00 LOL 23.41 VL 26.999 GAL 6.26 AZL 88.23 HCA 264.16 SMA 126.21 ECC .21057 INC 1.7691 VI 29.889
RP 108.88 LAP -1.76 LOP 287.57 VP 37.232 GAP 9.28 AZP 90.18 TAL 155.07 TAP 59.23 RCA 99.63 APO 152.78 V2 34.804
RC 137.863 GL 10.21 GP 15.71 ZAL 42.72 ZAP 156.40 ETS 37.82 ZAE 122.62 ETE 169.69 ZAC 38.66 ETC 174.45 CLP-162.17

PLANETOCENTRIC CONIC

C3 21.839 VHL 4.673 DLA 2.28 RAL 339.25 RAD 6567.9 VEL 11.967 PTH 2.13 VHP 6.446 DPA -6.02 RAP 305.16 ECC 1.3594

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 59 46	2306.12	-21.68	47.36	202.56	108.68	8 38 12	1706.1	-18.93	39.77
90.00	20 31 35	4808.88	18.33	207.31	201.43	68.03	21 51 44	4208.9	15.19	200.04
100.00	9 22 10	2040.33	-22.76	27.41	202.15	109.92	9 56 10	1440.3	-19.84	19.83
100.00	21 51 52	4549.91	19.39	187.80	200.97	66.79	23 7 42	3949.9	16.08	180.57
110.00	10 32 51	1819.10	-25.65	9.36	200.89	113.41	11 3 10	1219.1	-22.26	1.84
110.00	22 57 41	4343.90	22.21	170.76	199.57	63.32	24 10 5	3743.9	18.45	163.65

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE 2.2283 TRA 3.9357 TC3-3.0298 BAU .8875 SGT 6229.2 SGR 693.0 SG3 360.3 ST 3093.5 SR 218.3 SS 1251.7
RDE .0816 RRA -.5269 RC3 .2448 FAU .03042 RRT -.8099 RRF -.8005 RTF .9804 CRT -.0121 CRS .0084 CST -.9999
FDE 1.6222 FRA 2.8427 FC3-1.2061 BSP 20118 SGB 6267.6 R23 .0053 R13 -.9805 LSA 3337.1 MSA 218.4 SSA 14.3
BDE 2.2298 BRA 3.9708 BC3 3.0397 FSP -1272 SG1 6254.5 SG2 404.8 THA 174.83 EL1 3093.5 EL2 218.3 ALF 179.95

LAUNCH DATE OCT 17 1965 FLIGHT TIME 204.00 ARRIVAL DATE MAY 9 1966

HELIOCENTRIC CONIC DISTANCE 573.187

RL 149.08 LAL .00 LOL 23.41 VL 26.973 GAL 6.70 AZL 88.08 HCA 267.32 SMA 126.04 ECC .21572 INC 1.9196 VI 29.889
RP 108.90 LAP -1.92 LOP 290.74 VP 37.209 GAP 9.73 AZP 90.09 TAL 153.98 TAP 61.30 RCA 98.85 APO 153.23 V2 34.799
RC 140.164 GL 10.63 GP 15.01 ZAL 41.70 ZAP 157.86 ETS 39.04 ZAE 122.28 ETE 170.21 ZAC 40.44 ETC 173.36 CLP-163.54

PLANETOCENTRIC CONIC

C3 23.687 VHL 4.867 DLA 3.09 RAL 340.14 RAD 6568.0 VEL 12.044 PTH 2.15 VHP 6.699 DPA -6.35 RAP 307.01 ECC 1.3898

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 57 17	2351.03	-22.63	50.31	205.08	107.49	8 36 28	1751.0	-20.02	42.61
90.00	20 41 9	4803.47	18.19	206.97	203.47	67.92	22 1 13	4203.5	15.04	199.72
100.00	9 20 4	2084.01	-23.74	30.28	204.68	108.71	9 54 48	1484.0	-20.97	22.58
100.00	22 1 4	4545.72	19.28	187.54	203.00	66.70	23 16 49	3945.7	15.96	180.32
110.00	10 31 37	1860.06	-26.73	12.05	203.45	112.14	11 2 37	1260.1	-23.49	4.39
110.00	23 6 0	4342.44	22.17	170.67	201.55	63.29	24 18 22	3742.4	18.40	163.56

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE 2.3828 TRA 4.1671 TC3-2.8120 BAU .8930 SGT 6284.6 SGR 654.7 SG3 339.5 ST 3169.8 SR 219.5 SS 1235.7
RDE .1029 RRA -.5173 RC3 .2104 FAU .02731 RRT -.7820 RRF -.7720 RTF .9799 CRT .0999 CRS -.1009 CST -.9999
FDE 1.6058 FRA 2.8036 FC3 -.9981 BSP 20356 SGB 6318.6 R23 .0040 R13 -.9799 LSA 3402.2 MSA 218.4 SSA 14.1
BDE 2.3850 BRA 4.1991 BC3 2.8198 FSP -1202 SG1 6305.5 SG2 406.7 THA 175.32 EL1 3169.9 EL2 218.4 ALF .40

LAUNCH DATE OCT 17 1965 FLIGHT TIME 206.00 ARRIVAL DATE MAY 11 1966

HELIOCENTRIC CONIC DISTANCE 578.836

RL 149.08 LAL .00 LOL 23.41 VL 26.948 GAL 7.16 AZL 87.93 HCA 270.48 SMA 125.88 ECC .22128 INC 2.0692 V1 29.889
RP 108.91 LAP -2.07 LOP 293.90 VP 37.186 GAP 10.20 AZP 89.98 TAL 152.88 TAP 63.36 RCA 98.02 APO 153.73 V2 34.795
RC 142.456 GL 10.97 GP 14.37 ZAL 40.69 ZAP 159.24 ETS 40.44 ZAE 121.95 ETE 170.68 ZAC 42.27 ETC 172.44 CLP-164.86

PLANETOCENTRIC CONIC

C3 25.750 VHL 5.074 DLA 3.83 RAL 341.03 RAD 6568.0 VEL 12.130 PTH 2.17 VHP 6.968 OPA -6.60 RAP 308.90 ECC 1.4238

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 55 19	2394.56	-23.49	53.21	207.66	106.28	8 35 13	1794.6	-21.03	45.40
90.00	20 50 14	4801.01	18.13	206.82	205.58	67.87	22 10 15	4201.0	14.97	199.57
100.00	9 18 27	2126.41	-24.64	33.11	207.28	107.48	9 53 53	1526.4	-22.02	25.30
100.00	22 9 47	4544.39	19.24	187.46	205.09	66.67	23 25 31	3944.4	15.92	180.24
110.00	10 30 48	1899.96	-27.73	14.73	206.09	110.84	11 2 28	1300.0	-24.64	6.92
110.00	23 13 55	4343.60	22.20	170.74	203.62	63.31	24 26 19	3743.6	18.44	163.63

DIFFERENTIAL CORRECTIONS
TOE 2.5421 TRA 4.4122 TC3-2.5967 BAU .8961
ROE .1244 RRA -.5084 RC3 .1803 FAU .02436
FOE 1.5892 FRA 2.7684 FC3 -.8189 BSP 20564
BOE 2.5452 BRA 4.4414 BC3 2.6030 FSP -1135

MID-COURSE EXECUTION ACCURACY
SGT 6333.6 SGR 619.8 SG3 320.1
RRT -.7519 RRF -.7414 RTF .9795
SGB 6363.8 R23 .0028 R13 -.9795
SG1 6350.8 SG2 407.5 THA 175.77

ORBIT DETERMINATION ACCURACY
ST 3238.6 SR 222.6 SS 1219.6
CRT .1999 CRS -.1987 CST -.9999
LSA 3460.9 MSA 218.1 SSA 13.9
EL1 3238.9 EL2 218.0 ALF .79

LAUNCH DATE OCT 17 1965 FLIGHT TIME 208.00 ARRIVAL DATE MAY 13 1966

HELIOCENTRIC CONIC DISTANCE 584.432

RL 149.08 LAL .00 LOL 23.41 VL 26.922 GAL 7.65 AZL 87.78 HCA 273.64 SMA 125.71 ECC .22730 INC 2.2188 V1 29.889
RP 108.92 LAP -2.21 LOP 297.06 VP 37.165 GAP 10.69 AZP 89.86 TAL 151.78 TAP 65.42 RCA 97.14 APO 154.29 V2 34.791
RC 144.737 GL 11.25 GP 13.80 ZAL 39.71 ZAP 160.54 ETS 42.03 ZAE 121.64 ETE 171.09 ZAC 44.14 ETC 171.66 CLP-166.15

PLANETOCENTRIC CONIC

C3 28.058 VHL 5.297 DLA 4.50 RAL 341.92 RAD 6568.1 VEL 12.224 PTH 2.20 VHP 7.254 OPA -6.75 RAP 310.81 ECC 1.4618

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 53 49	2436.88	-24.27	56.07	210.32	105.06	8 34 26	1836.9	-21.97	48.16
90.00	20 58 50	4801.32	18.14	206.84	207.76	67.88	22 18 51	4201.3	14.98	199.59
100.00	9 17 16	2167.70	-25.46	35.91	209.96	106.22	9 53 24	1567.7	-22.99	27.98
100.00	22 18 3	4545.73	19.28	187.54	207.26	66.70	23 33 49	3945.7	15.96	180.32
110.00	10 30 22	1938.95	-28.64	17.39	208.80	109.51	11 2 40	1338.9	-25.71	9.44
110.00	23 21 28	4347.24	22.31	170.97	205.75	63.41	24 33 55	3747.2	18.56	163.84

DIFFERENTIAL CORRECTIONS
TOE 2.7101 TRA 4.6757 TC3-2.3811 BAU .8950
ROE .1459 RRA -.5000 RC3 .1533 FAU .02144
FOE 1.5756 FRA 2.7399 FC3 -.6616 BSP 20662
BOE 2.7141 BRA 4.7024 BC3 2.3660 FSP -1066

MID-COURSE EXECUTION ACCURACY
SGT 6379.2 SGR 587.9 SG3 302.2
RRT -.7198 RRF -.7090 RTF .9791
SGB 6406.2 R23 .0019 R13 -.9791
SG1 6393.3 SG2 407.2 THA 176.19

ORBIT DETERMINATION ACCURACY
ST 3303.9 SR 226.7 SS 1205.6
CRT .2863 CRS -.2835 CST -.9999
LSA 3517.5 MSA 217.3 SSA 13.7
EL1 3304.5 EL2 217.2 ALF 1.13

LAUNCH DATE OCT 17 1965 FLIGHT TIME 210.00 ARRIVAL DATE MAY 15 1966

HELIOCENTRIC CONIC DISTANCE 589.966

RL 149.08 LAL .00 LOL 23.41 VL 26.896 GAL 8.18 AZL 87.63 HCA 276.80 SMA 125.55 ECC .23382 INC 2.3696 V1 29.889
RP 108.93 LAP -2.35 LOP 300.22 VP 37.143 GAP 11.21 AZP 89.72 TAL 150.68 TAP 67.48 RCA 96.19 APO 154.90 V2 34.788
RC 147.008 GL 11.47 GP 13.27 ZAL 38.75 ZAP 161.78 ETS 43.85 ZAE 121.35 ETE 171.47 ZAC 46.04 ETC 171.01 CLP-167.40

PLANETOCENTRIC CONIC

C3 30.646 VHL 5.536 DLA 5.11 RAL 342.81 RAD 6568.2 VEL 12.330 PTH 2.22 VHP 7.557 OPA -6.82 RAP 312.75 ECC 1.5043

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 52 44	2478.11	-24.97	58.89	213.04	103.81	8 34 2	1878.1	-22.82	50.88
90.00	21 6 58	4804.25	18.21	207.02	210.00	67.94	22 27 2	4204.2	15.06	199.76
100.00	9 16 29	2207.98	-26.19	38.68	212.69	104.95	9 53 17	1608.0	-23.88	30.64
100.00	22 25 54	4549.61	19.38	187.78	209.48	66.79	23 41 44	3949.6	16.07	180.55
110.00	10 30 15	1977.12	-29.48	20.04	211.59	108.14	11 3 12	1377.1	-26.72	11.95
110.00	23 28 38	4353.23	22.49	171.34	207.94	63.56	24 41 11	3753.2	18.76	164.19

DIFFERENTIAL CORRECTIONS
TOE 2.8791 TRA 4.9499 TC3-2.1775 BAU .8937
ROE .1682 RRA -.4911 RC3 .1303 FAU .01884
FOE 1.5593 FRA 2.7120 FC3 -.5322 BSP 20855
BOE 2.8840 BRA 4.9742 BC3 2.1814 FSP -1008

MID-COURSE EXECUTION ACCURACY
SGT 6414.7 SGR 558.2 SG3 285.2
RRT -.6853 RRF -.6742 RTF .9789
SGB 6439.0 R23 .0010 R13 -.9789
SG1 6426.2 SG2 405.8 THA 176.57

ORBIT DETERMINATION ACCURACY
ST 3356.5 SR 231.9 SS 1189.6
CRT .3627 CRS -.3586 CST -.9999
LSA 3562.0 MSA 216.1 SSA 13.4
EL1 3357.5 EL2 216.0 ALF 1.44

LAUNCH DATE OCT 17 1965 FLIGHT TIME 212.00 ARRIVAL DATE MAY 17 1966

HELIOCENTRIC CONIC DISTANCE 595.432

RL 149.08 LAL .00 LOL 23.41 VL 26.870 GAL 8.75 AZL 87.48 HCA 279.96 SMA 125.38 ECC .24089 INC 2.5223 V1 29.889
RP 108.94 LAP -2.48 LOP 303.38 VP 37.122 GAP 11.76 AZP 89.56 TAL 149.59 TAP 69.55 RCA 95.18 APO 155.59 V2 34.786
RC 149.266 GL 11.64 GP 12.79 ZAL 37.81 ZAP 162.95 ETS 45.94 ZAE 121.06 ETE 171.81 ZAC 47.97 ETC 170.46 CLP-168.63

PLANETOCENTRIC CONIC

C3 33.555 VHL 5.793 DLA 5.66 RAL 343.68 RAD 6568.3 VEL 12.447 PTH 2.25 VHP 7.881 OPA -6.82 RAP 314.71 ECC 1.5522

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 52 2	2518.36	-25.59	61.67	215.82	102.55	8 34 0	1918.4	-23.61	53.56
90.00	21 14 40	4809.65	18.35	207.36	212.28	68.05	22 34 50	4209.6	15.21	200.09
100.00	9 16 3	2247.36	-26.85	41.41	215.49	103.65	9 53 30	1647.4	-24.71	33.27
100.00	22 33 20	4555.88	19.55	188.17	211.76	66.92	23 49 16	3955.9	16.26	180.93
110.00	10 30 26	2014.58	-30.25	22.69	214.44	106.74	11 4 0	1414.6	-27.66	14.46
110.00	23 35 26	4361.43	22.74	171.85	210.19	63.76	24 48 8	3761.4	19.03	164.67

DIFFERENTIAL CORRECTIONS
TOE 3.0553 TRA 5.2418 TC3-1.9793 BAU .8893
ROE .1911 RRA -.4818 RC3 .1100 FAU .01636
FOE 1.5445 FRA 2.6885 FC3 -.4221 BSP 21019
BOE 3.0612 BRA 5.2639 BC3 1.9824 FSP -952

MID-COURSE EXECUTION ACCURACY
SGT 6444.8 SGR 530.4 SG3 269.3
RRT -.6484 RRF -.6372 RTF .9788
SGB 6466.6 R23 .0002 R13 -.9788
SG1 6454.0 SG2 403.2 THA 176.93

ORBIT DETERMINATION ACCURACY
ST 3403.0 SR 237.4 SS 1174.8
CRT .4285 CRS -.4234 CST -.9999
LSA 3601.4 MSA 214.6 SSA 13.2
EL1 3404.5 EL2 214.4 ALF 1.72

LAUNCH DATE OCT 17 1965 FLIGHT TIME 214.00 ARRIVAL DATE MAY 19 1966

HELIOCENTRIC CONIC DISTANCE 600.820

RL	149.08	LAL	.00	LOL	23.41	VL	26.844	GAL	9.36	AZL	87.32	HCA	283.12	SMA	125.22	ECC	.24857	INC	2.6779	VI	29.889
RP	108.94	LAP	-2.61	LOP	306.55	VP	37.102	GAP	12.34	AZP	89.39	TAL	148.50	TAP	71.62	RCA	94.09	APO	156.34	V2	34.785
RC	151.511	GL	11.77	GP	12.35	ZAL	36.89	ZAP	164.06	ETS	48.34	ZAE	120.79	ETE	172.12	ZAC	49.92	ETC	169.99	CLP	-169.84

PLANETOCENTRIC CONIC

C3	36.836	VHL	6.069	DLA	6.16	RAL	344.55	RAD	6568.4	VEL	12.578	PTH	2.28	VHP	8.226	DPA	-6.75	RAP	316.68	ECC	1.6062

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 51 39	2557.72	-26.15	64.42	218.64	101.28	8 34 17	1957.7	-24.33	56.22
90.00	21 21 56	4817.41	18.55	207.84	214.62	68.21	22 42 13	4217.4	15.43	200.56
100.00	9 15 55	2285.92	-27.44	44.13	218.33	102.34	9 54 1	1685.9	-25.47	35.88
100.00	22 40 21	4564.44	19.77	188.71	214.09	67.12	23 56 25	3964.4	16.51	181.44
110.00	10 30 52	2051.38	-30.94	25.34	217.35	105.32	11 5 3	1451.4	-28.53	16.97
110.00	23 41 54	4371.74	23.05	172.49	212.49	64.03	24 54 45	3771.7	19.37	165.28

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	3.2383	TRA	5.5520	TC3	-1.7879	BAU	.8816	SGT	6468.9	SGR	504.2	SG3	254.4	ST	3442.5	SR	243.1	SS	1160.7
RDE	.2145	RRA	-.4719	RC3	.0921	FAU	.01401	RRT	-.6087	RRF	-.5977	RTF	.9788	CRT	.4855	CRS	-.4797	CST	-.9999
FDE	1.5309	FRA	2.6692	FC3	-.3292	BSP	21167	SGB	6488.5	R23	-.0005	R13	-.9788	LSA	3634.8	MSA	212.6	SSA	12.9
BDE	3.2454	BRA	5.5720	BC3	1.7902	FSP	-900	SG1	6476.2	SG2	399.6	THA	177.27	EL1	3444.6	EL2	212.4	ALF	1.97

LAUNCH DATE OCT 17 1965 FLIGHT TIME 216.00 ARRIVAL DATE MAY 21 1966

HELIOCENTRIC CONIC DISTANCE 606.119

RL	149.08	LAL	.00	LOL	23.41	VL	26.818	GAL	10.01	AZL	87.16	HCA	286.27	SMA	125.05	ECC	.25694	INC	2.8377	VI	29.889
RP	108.94	LAP	-2.72	LOP	309.71	VP	37.083	GAP	12.95	AZP	89.20	TAL	147.43	TAP	73.70	RCA	92.92	APO	157.18	V2	34.784
RC	153.743	GL	11.85	GP	11.95	ZAL	36.00	ZAP	165.10	ETS	51.09	ZAE	120.51	ETE	172.40	ZAC	51.88	ETC	169.59	CLP	-171.03

PLANETOCENTRIC CONIC

C3	40.549	VHL	6.368	DLA	6.61	RAL	345.39	RAD	6568.6	VEL	12.725	PTH	2.31	VHP	8.597	DPA	-6.62	RAP	318.65	ECC	1.6673

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 51 35	2596.22	-26.63	67.14	221.49	100.00	8 34 51	1996.2	-24.98	58.86
90.00	21 28 45	4827.42	18.80	208.47	217.00	68.43	22 49 13	4227.4	15.70	201.16
100.00	9 16 5	2323.70	-27.97	46.82	221.22	101.01	9 54 48	1723.7	-26.16	38.48
100.00	22 46 57	4575.18	20.06	189.38	216.46	67.36	24 3 12	3975.2	16.82	182.09
110.00	10 31 32	2087.57	-31.56	27.97	220.30	103.87	11 6 19	1487.6	-29.33	19.48
110.00	23 47 59	4384.07	23.42	173.26	214.84	64.35	25 1 3	3784.1	19.77	166.01

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	3.4303	TRA	5.8831	TC3	-1.6034	BAU	.8702	SGT	6488.0	SGR	479.4	SG3	240.6	ST	3476.5	SR	248.6	SS	1148.1
RDE	.2386	RRA	-.4609	RC3	.0764	FAU	.01176	RRT	-.5661	RRF	-.5554	RTF	.9790	CRT	.5349	CRS	-.5286	CST	-.9999
FDE	1.5194	FRA	2.6547	FC3	-.2511	BSP	21288	SGB	6505.7	R23	-.0010	R13	-.9790	LSA	3663.6	MSA	210.1	SSA	12.6
BDE	3.4386	BRA	5.9011	BC3	1.6052	FSP	-850	SG1	6493.7	SG2	394.9	THA	177.60	EL1	3479.0	EL2	209.9	ALF	2.20

LAUNCH DATE OCT 17 1965 FLIGHT TIME 218.00 ARRIVAL DATE MAY 23 1966

HELIOCENTRIC CONIC DISTANCE 611.313

RL	149.08	LAL	.00	LOL	23.41	VL	26.792	GAL	10.72	AZL	87.00	HCA	289.43	SMA	124.89	ECC	.26606	INC	3.0026	VI	29.889
RP	108.94	LAP	-2.83	LOP	312.87	VP	37.064	GAP	13.61	AZP	89.00	TAL	146.38	TAP	75.81	RCA	91.66	APO	158.12	V2	34.784
RC	155.962	GL	11.89	GP	11.58	ZAL	35.14	ZAP	166.08	ETS	54.26	ZAE	120.24	ETE	172.66	ZAC	53.85	ETC	169.25	CLP	-172.22

PLANETOCENTRIC CONIC

C3	44.764	VHL	6.691	DLA	7.02	RAL	346.22	RAD	6568.7	VEL	12.889	PTH	2.35	VHP	8.995	DPA	-6.43	RAP	320.62	ECC	1.7367

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 51 48	2633.92	-27.05	69.82	224.38	98.72	8 35 41	2033.9	-25.56	61.46
90.00	21 35 9	4839.59	19.10	209.23	219.42	68.69	22 55 49	4239.6	16.04	201.90
100.00	9 16 29	2360.74	-28.42	49.48	224.13	99.68	9 55 50	1760.7	-26.79	41.05
100.00	22 53 9	4587.99	20.39	190.19	218.87	67.66	24 9 37	3988.0	17.18	182.86
110.00	10 32 24	2123.17	-32.11	30.60	223.30	102.41	11 7 47	1523.2	-30.07	21.99
110.00	23 53 43	4398.33	23.83	174.15	217.23	64.74	25 7 2	3798.3	20.23	166.86

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	3.6347	TRA	6.2401	TC3	-1.4230	BAU	.8524	SGT	6504.0	SGR	455.8	SG3	227.8	ST	3507.2	SR	253.7	SS	1138.0
RDE	.2634	RRA	-.4487	RC3	.0625	FAU	.00952	RRT	-.5200	RRF	-.5099	RTF	.9793	CRT	.5780	CRS	-.5715	CST	-.9999
FDE	1.5113	FRA	2.6465	FC3	-.1842	BSP	21312	SGB	6519.9	R23	-.0014	R13	-.9793	LSA	3690.1	MSA	207.1	SSA	12.4
BDE	3.6442	BRA	6.2562	BC3	1.4243	FSP	-800	SG1	6508.3	SG2	389.0	THA	177.91	EL1	3510.3	EL2	206.8	ALF	2.40

LAUNCH DATE OCT 17 1965 FLIGHT TIME 220.00 ARRIVAL DATE MAY 25 1966

HELIOCENTRIC CONIC DISTANCE 616.387

RL	149.08	LAL	.00	LOL	23.41	VL	26.767	GAL	11.48	AZL	86.83	HCA	292.59	SMA	124.73	ECC	.27605	INC	3.1741	VI	29.889
RP	108.94	LAP	-2.93	LOP	316.03	VP	37.046	GAP	14.32	AZP	88.78	TAL	145.35	TAP	77.94	RCA	90.30	APO	159.16	V2	34.785
RC	158.168	GL	11.91	GP	11.24	ZAL	34.32	ZAP	166.98	ETS	57.92	ZAE	119.96	ETE	172.91	ZAC	55.83	ETC	168.96	CLP	-173.39

PLANETOCENTRIC CONIC

C3	49.571	VHL	7.041	DLA	7.37	RAL	347.03	RAD	6568.8	VEL	13.074	PTH	2.39	VHP	9.425	DPA	-6.18	RAP	322.59	ECC	1.8158

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 52 15	2670.79	-27.40	72.46	227.29	97.44	8 36 46	2070.8	-26.09	64.04
90.00	21 41 7	4853.82	19.45	210.13	221.87	69.01	23 2 0	4253.8	16.43	202.76
100.00	9 17 8	2397.03	-28.81	52.10	227.07	98.35	9 57 5	1797.0	-27.35	43.60
100.00	22 58 55	4602.81	20.77	191.12	221.32	68.01	24 15 38	4002.8	17.61	183.76
110.00	10 33 27	2158.19	-32.59	33.22	226.32	100.93	11 9 25	1558.2	-30.74	24.49
110.00	0 3 1	4414.42	24.30	175.17	219.67	65.18	1 16 35	3814.4	20.75	167.83

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	3.8453	TRA	6.6173	TC3	-1.2550	BAU	.8324	SGT	6511.4	SGR	433.2	SG3	215.6	ST	3528.3	SR	258.6	SS	1128.2
RDE	.2893	RRA	-.4345	RC3	.0506	FAU	.00749	RRT	-.4699	RRF	-.4606	RTF	.9798	CRT	.6164	CRS	-.6098	CST	-.9999
FDE	1.5033	FRA	2.6412	FC3	-.1309	BSP	21426	SGB	6525.8	R23	-.0016	R13	-.9798	LSA	3707.6	MSA	203.8	SSA	12.0
BDE	3.8562	BRA	6.6315	BC3	1.2560	FSP	-758	SG1	6514.6	SG2	382.2	THA	178.20	EL1	3531.9	EL2	203.4	ALF	2.60

LAUNCH DATE OCT 18 1965 FLIGHT TIME 70.00 ARRIVAL DATE DEC 27 1965

HELIOCENTRIC CONIC DISTANCE 145.175

RL	149.04	LAL	-.00	LOL	24.41	VL	19.661	GAL	11.68	AZL	89.97	HCA	52.40	SMA	95.18	ECC	.58998	INC	.0280	V1	29.897
RP	107.78	LAP	.03	LOP	76.80	VP	32.685	GAP	-35.45	AZP	89.98	TAL	171.62	TAP	224.01	RCA	39.02	APO	151.33	V2	35.160
RC	56.028	GL	.05	GP	-4.34	ZAL	67.23	ZAP	24.93	ETS	167.50	ZAE	148.59	ETE	189.62	ZAC	24.41	ETC	127.13	CLP	24.57

PLANETOCENTRIC CONIC

C3 133.130 VHL 11.538 DLA -15.64 RAL 319.61 RAD 6570.4 VEL 15.952 PTH 2.82 VHP 20.694 DPA -28.73 RAP 282.62 ECC 3.1910

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 59 14	2154.19	-18.06	37.69	208.15	112.19	9 35 8	1554.2	-14.89	30.45
90.00	16 47 33	5815.58	26.46	277.70	220.85	100.47	18 24 29	5215.6	27.64	269.23
100.00	10 11 58	1919.52	-19.75	19.70	207.41	112.90	10 43 57	1319.5	-16.48	12.43
100.00	18 17 31	5525.49	28.26	256.73	221.22	100.17	19 49 36	4925.5	29.38	248.10
110.00	11 1 4	1765.72	-24.16	5.92	205.30	114.95	11 30 29	1165.7	-20.60	358.59
110.00	19 44 54	5252.05	33.02	236.91	222.17	99.40	21 12 26	4652.0	33.96	227.80

DIFFERENTIAL CORRECTIONS

TDE	-.4736	TRA	-1.4396	TC3	-.1159	BAU	.2083												
RDE	-.8090	RRA	.3746	RC3	-.0164	FAU	.01385												
FDE	.2593	FRA	.6229	FC3	-.0900	BSP	2181												
BDE	.9374	BRA	1.4876	BC3	.1171	FSP	-73												

MID-COURSE EXECUTION ACCURACY

SGT	823.4	SGR	447.4	SG3	34.9						
RRT	-.1053	RRF	.1008	RTF	-.6414						
SGB	937.1	R23	-.0057	R13	.6423						
SG1	825.3	SG2	443.9	THA	175.39						

ORBIT DETERMINATION ACCURACY

ST	324.0	SR	405.9	SS	287.8						
CRT	.6203	CRS	.7062	CST	.9913						
LSA	540.6	MSA	245.1	SSA	13.8						
EL1	470.9	EL2	219.0	ALF	55.06						

LAUNCH DATE OCT 18 1965 FLIGHT TIME 72.00 ARRIVAL DATE DEC 29 1965

HELIOCENTRIC CONIC DISTANCE 151.362

RL	149.04	LAL	-.00	LOL	24.41	VL	20.257	GAL	11.18	AZL	89.74	HCA	55.62	SMA	96.83	ECC	.56338	INC	.2621	V1	29.897
RP	107.75	LAP	.22	LOP	80.03	VP	33.058	GAP	-33.75	AZP	89.85	TAL	171.05	TAP	226.67	RCA	42.28	APO	151.38	V2	35.171
RC	54.237	GL	.48	GP	-4.50	ZAL	66.23	ZAP	23.44	ETS	166.50	ZAE	149.47	ETE	191.16	ZAC	25.64	ETC	129.77	CLP	23.03

PLANETOCENTRIC CONIC

C3 119.914 VHL 10.951 DLA -14.93 RAL 320.47 RAD 6570.2 VEL 15.532 PTH 2.77 VHP 19.814 DPA -28.81 RAP 284.54 ECC 2.9735

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 56 7	2159.25	-18.19	38.01	207.70	112.08	9 32 6	1559.2	-15.03	30.75
90.00	16 57 31	5769.73	26.98	274.44	219.90	98.93	18 33 40	5169.7	27.94	265.91
100.00	10 9 22	1922.85	-19.84	19.91	206.98	112.83	10 41 25	1322.8	-16.58	12.63
100.00	18 26 56	5481.36	28.75	253.54	220.21	98.56	19 58 17	4881.4	29.63	244.85
110.00	10 59 36	1765.55	-24.16	5.91	204.92	114.95	11 29 1	1165.6	-20.59	358.58
110.00	19 53 12	5211.42	33.43	233.81	220.98	97.61	21 20 4	4611.4	34.12	224.64

DIFFERENTIAL CORRECTIONS

TDE	-.4769	TRA	-1.4431	TC3	-.1208	BAU	.1963												
RDE	-.7698	RRA	.3696	RC3	-.0200	FAU	.01412												
FDE	.2759	FRA	.6469	FC3	-.1019	BSP	2337												
BDE	.9056	BRA	1.4897	BC3	.1224	FSP	-82												

MID-COURSE EXECUTION ACCURACY

SGT	861.9	SGR	451.9	SG3	38.0						
RRT	-.1136	RRF	.1094	RTF	-.6615						
SGB	973.2	R23	-.0065	R13	.6623						
SG1	864.0	SG2	447.9	THA	175.33						

ORBIT DETERMINATION ACCURACY

ST	342.5	SR	407.3	SS	305.9						
CRT	.6198	CRS	.7123	CST	.9904						
LSA	559.9	MSA	251.1	SSA	14.0						
EL1	481.0	EL2	227.6	ALF	52.84						

LAUNCH DATE OCT 18 1965 FLIGHT TIME 74.00 ARRIVAL DATE DEC 31 1965

HELIOCENTRIC CONIC DISTANCE 157.625

RL	149.04	LAL	-.00	LOL	24.41	VL	20.812	GAL	10.68	AZL	89.52	HCA	58.85	SMA	98.46	ECC	.53768	INC	.4758	V1	29.897
RP	107.72	LAP	.41	LOP	83.26	VP	33.411	GAP	-32.12	AZP	89.75	TAL	170.52	TAP	229.36	RCA	45.52	APO	151.41	V2	35.181
RC	52.511	GL	.94	GP	-4.66	ZAL	65.29	ZAP	21.97	ETS	165.33	ZAE	150.47	ETE	192.93	ZAC	26.94	ETC	132.19	CLP	21.49

PLANETOCENTRIC CONIC

C3 108.080 VHL 10.396 DLA -14.20 RAL 321.24 RAD 6570.1 VEL 15.147 PTH 2.72 VHP 18.968 DPA -28.89 RAP 286.49 ECC 2.7787

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 52 38	2163.73	-18.30	38.29	207.13	111.99	9 28 42	1563.7	-15.16	31.02
90.00	17 7 8	5722.91	27.43	271.09	218.76	97.30	18 42 31	5122.9	28.16	262.50
100.00	10 6 26	1925.66	-19.91	20.08	206.43	112.77	10 38 31	1325.7	-16.66	12.80
100.00	18 36 2	5436.22	29.16	250.25	219.01	96.87	20 6 38	4836.2	29.81	241.50
110.00	10 57 45	1764.92	-24.14	5.87	204.41	114.97	11 27 10	1164.9	-20.57	358.55
110.00	20 1 12	5169.72	33.76	230.60	219.60	95.73	21 27 22	4569.7	34.18	221.38

DIFFERENTIAL CORRECTIONS

TDE	-.4796	TRA	-1.4460	TC3	-.1249	BAU	.1838												
RDE	-.7312	RRA	.3640	RC3	-.0243	FAU	.01443												
FDE	.2932	FRA	.6713	FC3	-.1156	BSP	2501												
BDE	.8745	BRA	1.4911	BC3	.1272	FSP	-91												

MID-COURSE EXECUTION ACCURACY

SGT	901.7	SGR	455.8	SG3	41.4						
RRT	-.1228	RRF	.1189	RTF	-.6807						
SGB	1010.4	R23	-.0075	R13	.6816						
SG1	904.0	SG2	451.2	THA	175.27						

ORBIT DETERMINATION ACCURACY

ST	361.6	SR	407.8	SS	324.8						
CRT	.6188	CRS	.7178	CST	.9893						
LSA	580.1	MSA	256.4	SSA	14.2						
EL1	491.4	EL2	235.7	ALF	50.51						

LAUNCH DATE OCT 18 1965 FLIGHT TIME 76.00 ARRIVAL DATE JAN 2 1966

HELIOCENTRIC CONIC DISTANCE 163.958

RL	149.04	LAL	-.00	LOL	24.41	VL	21.328	GAL	10.19	AZL	89.32	HCA	62.08	SMA	100.08	ECC	.51292	INC	.6750	V1	29.897
RP	107.69	LAP	.60	LOP	86.49	VP	33.746	GAP	-30.58	AZP	89.68	TAL	170.01	TAP	232.09	RCA	48.75	APO	151.41	V2	35.191
RC	50.858	GL	1.44	GP	-4.85	ZAL	64.43	ZAP	20.53	ETS	163.96	ZAE	151.58	ETE	194.98	ZAC	28.30	ETC	134.38	CLP	19.97

PLANETOCENTRIC CONIC

C3 97.475 VHL 9.873 DLA -13.46 RAL 321.93 RAD 6569.9 VEL 14.792 PTH 2.67 VHP 18.154 DPA -28.95 RAP 288.45 ECC 2.6042

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 48 48	2167.79	-18.41	38.54	206.44	111.91	9 24 56	1567.8	-15.27	31.27
90.00	17 16 27	5675.12	27.80	267.64	217.45	95.61	18 51 2	5075.1	28.29	259.01
100.00	10 3 6	1928.08	-19.98	20.23	205.76	112.71	10 35 14	1328.1	-16.73	12.95
100.00	18 44 50	5390.06	29.49	246.85	217.63	95.12	20 14 40	4790.1	29.89	238.07
110.00	10 55 30	1763.94	-24.11	5.81	203.78	115.00	11 24 54	1163.9	-20.54	358.49
110.00	20 8 55	5126.97	34.00	227.29	218.04	93.79	21 34 22	4527.0	34.15	218.05

DIFFERENTIAL CORRECTIONS

TDE	-.4820	TRA	-1.4485	TC3	-.1282	BAU	.1713												
RDE	-.6932	RRA	.3578	RC3	-.0292	FAU	.01477												
FDE	.3113	FRA	.6964	FC3	-.1311	BSP	2672												
BDE	.8443	BRA	1.4921	BC3	.1314	FSP	-101												

MID-COURSE EXECUTION ACCURACY

SGT	943.1	SGR	459.0	SG3	45.1						
RRT	-.1327	RRF	.1293	RTF	-.6993						
SGB	1048.9	R23	-.0086	R13	.7002						
SG1	945.6	SG2	453.8	THA	175.20						

ORBIT DETERMINATION ACCURACY

ST	381.5	SR	407.3	SS	344.5						
CRT	.6173	CRS	.7229	CST	.9882						
LSA	601.5	MSA	261.1	SSA	14.4						
EL1	502.2	EL2	243.4	ALF	48.03						

LAUNCH DATE OCT 18 1965 FLIGHT TIME 78.00 ARRIVAL DATE JAN 4 1966

HELIOCENTRIC CONIC DISTANCE 170.356

RL	149.04	LAL	-.00	LOL	24.41	VL	21.810	GAL	9.70	AZL	89.14	HCA	65.31	SMA	101.67	ECC	.48914	INC	.8629
RP	107.66	LAP	.78	LOP	89.72	VP	34.061	GAP	-29.11	AZP	89.64	TAL	169.55	TAP	234.86	RCA	51.94	APO	151.40
RC	49.288	GL	1.98	GP	-5.05	ZAL	63.65	ZAP	19.11	ETS	162.34	ZAE	152.80	ETE	197.39	ZAC	29.72	ETC	136.37
VI	29.897																		
V2	35.200																		
CLP	18.46																		

PLANETOCENTRIC CONIC

C3	87.969	VHL	9.379	DLA	-12.69	RAL	322.53	RAD	6569.7	VEL	14.468	PTH	2.63	VHP	17.369	DPA	-29.01	RAP	290.42
ECC	2.4478																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 44 35	2171.57	-18.50	38.78	205.63	111.83	9 20 46	1571.6	-15.38	31.49
90.00	17 25 28	5626.35	28.07	264.10	215.96	93.86	18 59 14	5026.3	28.31	255.44
100.00	9 59 22	1930.26	-20.03	20.37	204.97	112.66	10 31 33	1330.3	-16.79	13.08
100.00	18 53 21	5342.89	29.73	243.37	216.08	93.30	20 22 24	4742.9	29.87	234.57
110.00	10 52 51	1762.75	-24.08	5.74	203.04	115.03	11 22 14	1162.7	-20.50	358.42
110.00	20 16 22	5083.17	34.14	223.88	216.31	91.77	21 41 5	4483.2	34.01	214.63

DIFFERENTIAL CORRECTIONS

TDE	-.4864	TRA	-1.4528	TC3	-.1313	BAU	.1598												
RDE	-.6557	RRA	.3513	RC3	-.0349	FAU	.01513												
FDE	.3306	FRA	.7226	FC3	-.1489	BSP	2793												
BDE	.8164	BRA	1.4947	BC3	.1359	FSP	-111												

MID-COURSE EXECUTION ACCURACY

SGT	988.2	SGR	461.6	SG3	49.1														
RRT	-.1424	RRF	.1405	RTF	-.7167														
SGB	1090.7	R23	-.0110	R13	.7176														
SG1	991.0	SG2	455.6	THA	175.17														

ORBIT DETERMINATION ACCURACY

ST	403.5	SR	405.9	SS	365.4														
CRT	.6167	CRS	.7277	CST	.9872														
LSA	625.1	MSA	265.0	SSA	14.6														
EL1	514.6	EL2	250.6	ALF	45.28														

LAUNCH DATE OCT 18 1965 FLIGHT TIME 80.00 ARRIVAL DATE JAN 6 1966

HELIOCENTRIC CONIC DISTANCE 176.812

RL	149.04	LAL	-.00	LOL	24.41	VL	22.258	GAL	9.23	AZL	88.96	HCA	68.55	SMA	103.23	ECC	.46635	INC	1.0414
RP	107.63	LAP	.97	LOP	92.95	VP	34.359	GAP	-27.70	AZP	89.62	TAL	169.12	TAP	237.66	RCA	55.09	APO	151.38
RC	47.809	GL	2.57	GP	-5.27	ZAL	62.93	ZAP	17.73	ETS	160.40	ZAE	154.11	ETE	200.23	ZAC	31.18	ETC	138.18
VI	29.897																		
V2	35.209																		
CLP	16.96																		

PLANETOCENTRIC CONIC

C3	79.446	VHL	8.913	DLA	-11.91	RAL	323.04	RAD	6569.6	VEL	14.170	PTH	2.58	VHP	16.614	DPA	-29.06	RAP	292.41
ECC	2.3075																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 39 56	2175.24	-18.59	39.01	204.71	111.75	9 16 11	1575.2	-15.48	31.71
90.00	17 34 12	5576.59	28.25	260.47	214.32	92.04	19 7 9	4976.6	28.23	251.80
100.00	9 55 13	1932.34	-20.09	20.50	204.06	112.61	10 27 25	1332.3	-16.85	13.21
100.00	19 1 36	5294.72	29.86	239.79	214.37	91.42	20 29 51	4694.7	29.74	230.99
110.00	10 49 47	1761.48	-24.04	5.65	202.18	115.07	11 19 8	1161.5	-20.46	358.34
110.00	20 23 32	5038.34	34.18	220.37	214.42	89.70	21 47 30	4438.3	33.76	211.16

DIFFERENTIAL CORRECTIONS

TDE	-.4882	TRA	-1.4542	TC3	-.1322	BAU	.1472												
RDE	-.6188	RRA	.3444	RC3	-.0415	FAU	.01555												
FDE	.3507	FRA	.7492	FC3	-.1694	BSP	2972												
BDE	.7882	BRA	1.4944	BC3	.1386	FSP	-123												

MID-COURSE EXECUTION ACCURACY

SGT	1032.8	SGR	463.6	SG3	53.6														
RRT	-.1543	RRF	.1531	RTF	-.7337														
SGB	1132.0	R23	-.0125	R13	.7347														
SG1	1035.9	SG2	456.6	THA	175.08														

ORBIT DETERMINATION ACCURACY

ST	425.1	SR	403.5	SS	387.1														
CRT	.6145	CRS	.7319	CST	.9859														
LSA	649.0	MSA	268.2	SSA	14.8														
EL1	526.8	EL2	256.9	ALF	42.58														

LAUNCH DATE OCT 18 1965 FLIGHT TIME 82.00 ARRIVAL DATE JAN 8 1966

HELIOCENTRIC CONIC DISTANCE 183.322

RL	149.04	LAL	-.00	LOL	24.41	VL	22.675	GAL	8.76	AZL	88.79	HCA	71.78	SMA	104.76	ECC	.44456	INC	1.2123
RP	107.61	LAP	1.15	LOP	96.18	VP	34.639	GAP	-26.35	AZP	89.62	TAL	168.73	TAP	240.51	RCA	58.19	APO	151.34
RC	46.433	GL	3.21	GP	-5.51	ZAL	62.30	ZAP	16.39	ETS	158.07	ZAE	155.50	ETE	203.61	ZAC	32.69	ETC	139.82
VI	29.897																		
V2	35.217																		
CLP	15.46																		

PLANETOCENTRIC CONIC

C3	71.804	VHL	8.474	DLA	-11.09	RAL	323.46	RAD	6569.4	VEL	13.898	PTH	2.54	VHP	15.885	DPA	-29.11	RAP	294.41
ECC	2.1817																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 34 50	2179.00	-18.69	39.24	203.68	111.67	9 11 9	1579.0	-15.58	31.94
90.00	17 42 40	5525.84	28.32	256.76	212.52	90.18	19 14 46	4925.8	28.04	248.10
100.00	9 50 37	1934.53	-20.15	20.64	203.06	112.56	10 22 51	1334.5	-16.91	13.34
100.00	19 9 35	5245.54	29.89	236.14	212.51	89.50	20 37 1	4645.5	29.50	227.35
110.00	10 46 14	1760.32	-24.01	5.58	201.22	115.10	11 15 35	1160.3	-20.42	358.27
110.00	20 30 27	4992.52	34.11	216.80	212.39	87.59	21 53 39	4392.5	33.40	207.63

DIFFERENTIAL CORRECTIONS

TDE	-.4900	TRA	-1.4549	TC3	-.1315	BAU	.1348												
RDE	-.5826	RRA	.3373	RC3	-.0491	FAU	.01601												
FDE	.3721	FRA	.7768	FC3	-.1931	BSP	3152												
BDE	.7613	BRA	1.4935	BC3	.1404	FSP	-137												

MID-COURSE EXECUTION ACCURACY

SGT	1079.1	SGR	464.9	SG3	58.4														
RRT	-.1673	RRF	.1670	RTF	-.7500														
SGB	1175.0	R23	-.0144	R13	.7510														
SG1	1082.5	SG2	456.9	THA	174.98														

ORBIT DETERMINATION ACCURACY

ST	447.5	SR	400.1	SS	409.9														
CRT	.6120	CRS	.7357	CST	.9846														
LSA	674.5	MSA	270.5	SSA	14.9														
EL1	540.0	EL2	262.2	ALF	39.80														

LAUNCH DATE OCT 18 1965 FLIGHT TIME 84.00 ARRIVAL DATE JAN 10 1966

HELIOCENTRIC CONIC DISTANCE 189.881

RL	149.04	LAL	-.00	LOL	24.41	VL	23.064	GAL	8.30	AZL	88.62	HCA	75.02	SMA	106.25	ECC	.42377	INC	1.3769
RP	107.58	LAP	1.33	LOP	99.42	VP	34.902	GAP	-25.06	AZP	89.64	TAL	168.39	TAP	243.40	RCA	61.23	APO	151.28
RC	45.168	GL	3.90	GP	-5.77	ZAL	61.74	ZAP	15.09	ETS	155.25	ZAE	156.92	ETE	207.66	ZAC	34.24	ETC	141.29
VI	29.897																		
V2	35.224																		
CLP	13.96																		

PLANETOCENTRIC CONIC

C3	64.955	VHL	8.059	DLA	-10.25	RAL	323.80	RAD	6569.2	VEL	13.650	PTH	2.49	VHP	15.184	DPA	-29.16	RAP	296.42
ECC	2.0690																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 29 16	2183.08	-18.79	39.50	202.56	111.58	9 5 39	1583.1	-15.70	32.19
90.00	17 50 55	5474.12	28.27	252.98	210.59	88.29	19 22 9	4874.1	27.73	244.35
100.00	9 45 31	1937.04	-20.21	20.80	201.95	112.50	10 17 48	1337.0	-16.99	13.49
100.00	19 17 20	5195.39	29.80	232.41	210.52	87.54	20 43 55	4595.4	29.14	223.67
110.00	10 42 14	1759.46	-23.98	5.53	200.15	115.12	11 11 33	1159.5	-20.40	358.22
110.00	20 37 7	4945.73	33.91	213.16	210.22	85.44	21 59 33	4345.7	32.91	204.06

DIFFERENTIAL CORRECTIONS

TDE	-.4919	TRA	-1.4549	TC3	-.1290	BAU	.1228												
RDE	-.5470	RRA	.3301	RC3	-.0578	FAU	.01653												
FDE	.3950	FRA	.8055	FC3	-.2203	BSP	3334												
BDE	.7356	BRA	1.4919	BC3	.1414	FSP	-152												

MID-COURSE EXECUTION ACCURACY

SGT	1127.1	SGR	465.6	SG3	63.7														
RRT	-.1816	RRF	.1826	RTF	-.7654														
SGB	1219.4	R23	-.0166	R13	.7665														
SG1	1130.8	SG2	456.3	THA	174.87														

ORBIT DETERMINATION ACCURACY

ST	470.9	SR	395.4	SS	434.0														
CRT	.6092	CRS	.7391	CST	.9832														
LSA	701.6	MSA	272.0	SSA	15.1														
EL1	554.1	EL2	266.4	ALF	36.96														

LAUNCH DATE OCT 18 1965 FLIGHT TIME 86.00 ARRIVAL DATE JAN 12 1966

HELIOCENTRIC CONIC DISTANCE 196.483

RL 149.04 LAL -.00 LOL 24.41 VL 23.425 GAL 7.85 AZL 88.46 HCA 78.26 SMA 107.70 ECC .40397 INC 1.5367 V1 29.897
RP 107.56 LAP 1.50 LOP 102.66 VP 35.149 GAP -23.83 AZP 89.69 TAL 168.09 TAP 246.34 RCA 64.19 APO 151.21 V2 35.231
RC 44.025 GL 4.65 GP -6.06 ZAL 61.26 ZAP 13.84 ETS 151.80 ZAE 158.35 ETE 212.53 ZAC 35.83 ETC 142.63 CLP 12.47

PLANETOCENTRIC CONIC

C3 58.819 VHL 7.669 DLA -9.37 RAL 324.04 RAD 6569.1 VEL 13.423 PTH 2.45 VHP 14.507 DPA -29.20 RAP 298.44 ECC 1.9680

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 23 10	2187.69	-18.91	39.79	201.34	111.48	8 59 38	1587.7	-15.82	32.47
90.00	17 58 56	5421.43	28.10	249.13	208.53	86.37	19 29 17	4821.4	27.30	240.56
100.00	9 39 55	1940.09	-20.29	20.99	200.75	112.43	10 12 15	1340.1	-17.07	13.67
100.00	19 24 52	5144.27	29.59	228.63	208.41	85.56	20 50 36	4544.3	28.66	219.95
110.00	10 37 43	1759.12	-23.97	5.51	199.00	115.13	11 7 2	1159.1	-20.39	358.20
110.00	20 43 34	4898.00	33.59	209.47	207.95	83.28	22 5 12	4298.0	32.30	200.47

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.4933 TRA-1.4533 TC3 -.1239 BAU .1111 SGT 1176.0 SGR 465.7 SG3 69.5 ST 494.8 SR 389.5 SS 459.5
RDE -.5120 RRA .3229 RC3 -.0679 FAU .01710 RRT -.1977 RRF .2000 RTF -.7802 CRT .6059 CRS .7420 CST .9818
FDE .4196 FRA .8353 FC3 -.2517 BSP 3529 SGB 1264.8 R23 -.0190 R13 .7814 LSA 730.1 MSA 272.6 SSA 15.3
BDE .7110 BRA 1.4888 BC3 .1413 FSP -168 SG1 1180.2 SG2 454.9 THA 174.74 EL1 569.2 EL2 269.3 ALF 34.12

LAUNCH DATE OCT 18 1965 FLIGHT TIME 88.00 ARRIVAL DATE JAN 14 1966

HELIOCENTRIC CONIC DISTANCE 203.122

RL 149.04 LAL -.00 LOL 24.41 VL 23.762 GAL 7.42 AZL 88.31 HCA 81.50 SMA 109.11 ECC .38516 INC 1.6928 V1 29.897
RP 107.55 LAP 1.67 LOP 105.90 VP 35.380 GAP -22.64 AZP 89.75 TAL 167.83 TAP 249.33 RCA 67.08 APO 151.13 V2 35.237
RC 43.015 GL 5.47 GP -6.38 ZAL 60.87 ZAP 12.67 ETS 147.55 ZAE 159.70 ETE 218.38 ZAC 37.44 ETC 143.83 CLP 10.97

PLANETOCENTRIC CONIC

C3 53.326 VHL 7.302 DLA -8.46 RAL 324.19 RAD 6568.9 VEL 13.217 PTH 2.41 VHP 13.855 DPA -29.26 RAP 300.46 ECC 1.8776

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 16 32	2193.11	-19.04	40.13	200.04	111.36	8 53 5	1593.1	-15.97	32.80
90.00	18 6 46	5367.79	27.81	245.23	206.37	84.44	19 36 13	4767.8	26.75	236.73
100.00	9 33 46	1943.93	-20.39	21.23	199.47	112.34	10 6 10	1343.9	-17.18	13.90
100.00	19 32 12	5092.21	29.25	224.79	206.20	83.56	20 57 5	4492.2	28.06	216.19
110.00	10 32 40	1759.52	-23.98	5.53	197.76	115.12	11 1 59	1159.5	-20.40	358.22
110.00	20 49 48	4849.38	33.14	205.74	205.59	81.12	22 10 38	4249.4	31.56	196.87

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.4954 TRA-1.4512 TC3 -.1163 BAU .1004 SGT 1226.8 SGR 465.4 SG3 75.9 ST 520.0 SR 382.2 SS 486.6
RDE -.4775 RRA .3158 RC3 -.0794 FAU .01773 RRT -.2156 RRF .2196 RTF -.7941 CRT .6024 CRS .7443 CST .9804
FDE .4462 FRA .8664 FC3 -.2879 BSP 3719 SGB 1312.1 R23 -.0220 R13 .7954 LSA 760.8 MSA 272.3 SSA 15.4
BDE .6881 BRA 1.4852 BC3 .1408 FSP -186 SG1 1231.5 SG2 452.7 THA 174.59 EL1 585.7 EL2 270.8 ALF 31.28

LAUNCH DATE OCT 18 1965 FLIGHT TIME 90.00 ARRIVAL DATE JAN 16 1966

HELIOCENTRIC CONIC DISTANCE 209.796

RL 149.04 LAL -.00 LOL 24.41 VL 24.075 GAL 7.00 AZL 88.15 HCA 84.74 SMA 110.47 ECC .36733 INC 1.8464 V1 29.897
RP 107.53 LAP 1.84 LOP 109.14 VP 35.596 GAP -21.50 AZP 89.83 TAL 167.63 TAP 252.36 RCA 69.89 APO 151.05 V2 35.242
RC 42.147 GL 6.35 GP -6.74 ZAL 60.56 ZAP 11.60 ETS 142.32 ZAE 160.91 ETE 225.37 ZAC 39.08 ETC 144.92 CLP 9.46

PLANETOCENTRIC CONIC

C3 48.414 VHL 6.958 DLA -7.51 RAL 324.24 RAD 6568.8 VEL 13.030 PTH 2.38 VHP 13.227 DPA -29.32 RAP 302.48 ECC 1.7968

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 9 18	2199.61	-19.20	40.54	198.66	111.22	8 45 58	1599.6	-16.15	33.19
90.00	18 14 26	5313.20	27.39	241.30	204.13	82.50	19 42 59	4713.2	26.07	232.88
100.00	9 27 3	1948.82	-20.52	21.54	198.11	112.23	9 59 32	1348.8	-17.32	14.20
100.00	19 39 23	5039.22	28.79	220.92	203.91	81.58	21 3 22	4439.2	27.32	212.43
110.00	10 27 3	1760.92	-24.02	5.62	196.45	115.08	10 56 24	1160.9	-20.44	358.31
110.00	20 55 51	4799.89	32.56	202.00	203.15	78.97	22 15 51	4199.9	30.70	193.28

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.4974 TRA-1.4476 TC3 -.1053 BAU .0908 SGT 1278.6 SGR 464.7 SG3 82.9 ST 545.8 SR 373.4 SS 515.5
RDE -.4437 RRA .3090 RC3 -.0926 FAU .01844 RRT -.2358 RRF .2417 RTF -.8074 CRT .5981 CRS .7460 CST .9789
FDE .4752 FRA .8990 FC3 -.3297 BSP 3920 SGB 1360.4 R23 -.0251 R13 .8087 LSA 793.3 MSA 271.0 SSA 15.6
BDE .6665 BRA 1.4802 BC3 .1402 FSP -206 SG1 1283.9 SG2 449.7 THA 174.41 EL1 603.3 EL2 270.7 ALF 28.49

LAUNCH DATE OCT 18 1965 FLIGHT TIME 92.00 ARRIVAL DATE JAN 18 1966

HELIOCENTRIC CONIC DISTANCE 216.497

RL 149.04 LAL -.00 LOL 24.41 VL 24.365 GAL 6.59 AZL 88.00 HCA 87.98 SMA 111.78 ECC .35045 INC 1.9984 V1 29.897
RP 107.51 LAP 2.00 LOP 112.38 VP 35.798 GAP -20.40 AZP 89.93 TAL 167.47 TAP 255.45 RCA 72.60 APO 150.95 V2 35.247
RC 41.430 GL 7.31 GP -7.13 ZAL 60.34 ZAP 10.66 ETS 135.89 ZAE 161.86 ETE 233.53 ZAC 40.75 ETC 145.89 CLP 7.95

PLANETOCENTRIC CONIC

C3 44.028 VHL 6.635 DLA -6.51 RAL 324.20 RAD 6568.7 VEL 12.861 PTH 2.34 VHP 12.622 DPA -29.40 RAP 304.50 ECC 1.7246

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 1 27	2207.48	-19.40	41.03	197.23	111.04	8 38 15	1607.5	-16.36	33.67
90.00	18 21 58	5257.68	26.83	237.33	201.82	80.59	19 49 35	4657.7	25.26	229.01
100.00	9 19 42	1955.06	-20.68	21.93	196.69	112.08	9 52 17	1355.1	-17.50	14.58
100.00	19 46 24	4985.33	28.19	217.03	201.55	79.61	21 9 29	4385.3	26.47	208.65
110.00	10 20 51	1763.59	-24.10	5.79	195.07	115.01	10 50 15	1163.6	-20.53	358.47
110.00	21 1 44	4749.57	31.84	198.25	200.67	76.86	22 20 54	4149.6	29.71	189.69

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.4998 TRA-1.4427 TC3 -.0908 BAU .0828 SGT 1331.5 SGR 463.7 SG3 90.7 ST 572.5 SR 363.0 SS 546.4
RDE -.4103 RRA .3027 RC3 -.1075 FAU .01922 RRT -.2587 RRF .2668 RTF -.8199 CRT .5930 CRS .7468 CST .9775
FDE .5070 FRA .9333 FC3 -.3779 BSP 4123 SGB 1410.0 R23 -.0289 R13 .8213 LSA 828.0 MSA 268.9 SSA 15.7
BDE .6466 BRA 1.4741 BC3 .1407 FSP -229 SG1 1337.6 SG2 445.9 THA 174.21 EL1 622.3 EL2 268.9 ALF 25.75

LAUNCH DATE OCT 18 1965 FLIGHT TIME 94.00 ARRIVAL DATE JAN 20 1966

HELIOCENTRIC CONIC DISTANCE 223.222

RL	149.04	LAL	-.00	LOL	24.41	VL	24.635	GAL	6.20	AZL	87.85	HCA	91.22	SMA	113.04	ECC	.33452	INC	2.1498	VI	29.897
RP	107.50	LAP	2.15	LOP	115.63	VP	35.986	GAP	-19.35	AZP	90.05	TAL	167.37	TAP	258.59	RCA	75.22	APO	150.85	V2	35.251
RC	40.873	GL	8.34	GP	-7.56	ZAL	60.21	ZAP	9.91	ETS	128.13	ZAE	162.45	ETE	242.75	ZAC	42.43	ETC	146.76	CLP	6.42

PLANETOCENTRIC CONIC

C3	40.118	VHL	6.334	DLA	-5.46	RAL	324.07	RAD	6568.5	VEL	12.708	PTH	2.31	VHP	12.039	DPA	-29.49	RAP	306.52	ECC	1.6602

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 52 56	2217.02	-19.63	41.64	195.73	110.83	8 29 53	1617.0	-16.62	34.25
90.00	18 29 24	5201.23	26.14	233.34	199.45	78.71	19 56 5	4601.2	24.32	225.14
100.00	9 11 42	1962.94	-20.88	22.43	195.21	111.89	9 44 25	1362.9	-17.72	15.06
100.00	19 53 19	4930.54	27.45	213.12	199.15	77.68	21 15 30	4330.5	25.48	204.88
110.00	10 14 2	1767.79	-24.22	6.06	193.65	114.89	10 43 30	1167.8	-20.66	358.72
110.00	21 7 28	4698.46	30.99	194.51	198.15	74.80	22 25 47	4098.5	28.60	186.13

DIFFERENTIAL CORRECTIONS

TDE	-.5032	TRA	-1.4368	TC3	-.0725	BAU	.0772
RDE	-.3773	RRA	.2968	RC3	-.1244	FAU	.02008
FDE	.5422	FRA	.9694	FC3	-.4333	BSP	4322
BDE	.6289	BRA	1.4671	BC3	.1440	FSP	-253

MID-COURSE EXECUTION ACCURACY

SGT	1385.8	SGR	462.7	SG3	99.2
RRT	-.2844	RRF	.2951	RTF	-.8317
SGB	1461.0	R23	-.0333	R13	.8332
SG1	1392.7	SG2	441.4	THA	173.97

ORBIT DETERMINATION ACCURACY

ST	600.6	SR	350.8	SS	579.8
CRT	.5871	CRS	.7464	CST	.9761
LSA	865.4	MSA	265.8	SSA	15.9
EL1	642.9	EL2	265.2	ALF	23.07

LAUNCH DATE OCT 18 1965 FLIGHT TIME 96.00 ARRIVAL DATE JAN 22 1966

HELIOCENTRIC CONIC DISTANCE 229.968

RL	149.04	LAL	-.00	LOL	24.41	VL	24.886	GAL	5.82	AZL	87.70	HCA	94.46	SMA	114.24	ECC	.31950	INC	2.3017	VI	29.897
RP	107.49	LAP	2.29	LOP	118.88	VP	36.161	GAP	-18.33	AZP	90.18	TAL	167.31	TAP	261.78	RCA	77.74	APO	150.74	V2	35.254
RC	40.482	GL	9.45	GP	-8.04	ZAL	60.17	ZAP	9.40	ETS	119.03	ZAE	162.59	ETE	252.61	ZAC	44.13	ETC	147.53	CLP	4.88

PLANETOCENTRIC CONIC

C3	36.639	VHL	6.053	DLA	-4.37	RAL	323.83	RAD	6568.4	VEL	12.570	PTH	2.28	VHP	11.478	DPA	-29.62	RAP	308.53	ECC	1.6030

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 43 43	2228.56	-19.91	42.37	194.20	110.57	8 20 51	1628.6	-16.93	34.96
90.00	18 36 46	5143.85	25.31	229.34	197.06	76.86	20 2 30	4543.9	23.25	221.28
100.00	9 3 0	1972.76	-21.13	23.06	193.70	111.65	9 35 53	1372.8	-18.00	15.66
100.00	20 0 9	4874.88	26.58	209.22	196.72	75.80	21 21 24	4274.9	24.37	201.12
110.00	10 6 33	1773.82	-24.39	6.44	192.18	114.72	10 36 7	1173.8	-20.85	359.08
110.00	21 13 6	4646.59	30.01	190.79	195.63	72.80	22 30 32	4046.6	27.36	182.60

DIFFERENTIAL CORRECTIONS

TDE	-.5098	TRA	-1.4320	TC3	-.0524	BAU	.0748
RDE	-.3445	RRA	.2917	RC3	-.1435	FAU	.02100
FDE	.5819	FRA	1.0082	FC3	-.4963	BSP	4470
BDE	.6153	BRA	1.4614	BC3	.1528	FSP	-280

MID-COURSE EXECUTION ACCURACY

SGT	1443.9	SGR	461.7	SG3	108.6
RRT	-.3121	RRF	.3270	RTF	-.8422
SGB	1515.9	R23	-.0397	R13	.8440
SG1	1451.8	SG2	436.3	THA	173.73

ORBIT DETERMINATION ACCURACY

ST	631.8	SR	336.5	SS	616.3
CRT	.5807	CRS	.7443	CST	.9751
LSA	907.5	MSA	261.6	SSA	16.0
EL1	667.2	EL2	259.4	ALF	20.41

LAUNCH DATE OCT 18 1965 FLIGHT TIME 98.00 ARRIVAL DATE JAN 24 1966

HELIOCENTRIC CONIC DISTANCE 236.728

RL	149.04	LAL	-.00	LOL	24.41	VL	25.118	GAL	5.46	AZL	87.55	HCA	97.71	SMA	115.40	ECC	.30538	INC	2.4549	VI	29.897
RP	107.48	LAP	2.43	LOP	122.12	VP	36.323	GAP	-17.35	AZP	90.33	TAL	167.31	TAP	265.02	RCA	80.16	APO	150.64	V2	35.256
RC	40.263	GL	10.66	GP	-8.58	ZAL	60.23	ZAP	9.19	ETS	108.94	ZAE	162.21	ETE	262.51	ZAC	45.84	ETC	148.20	CLP	3.31

PLANETOCENTRIC CONIC

C3	33.551	VHL	5.792	DLA	-3.21	RAL	323.50	RAD	6568.3	VEL	12.447	PTH	2.25	VHP	10.939	DPA	-29.78	RAP	310.54	ECC	1.5522

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 33 44	2242.41	-20.23	43.25	192.64	110.24	8 11 6	1642.4	-17.30	35.81
90.00	18 44 7	5085.54	24.35	225.34	194.66	75.08	20 8 52	4485.5	22.06	217.41
100.00	8 53 34	1984.85	-21.43	23.83	192.16	111.36	9 26 39	1384.8	-18.34	16.40
100.00	20 6 57	4818.33	25.58	205.31	194.29	73.98	21 27 15	4218.3	23.14	197.37
110.00	9 58 23	1781.97	-24.63	6.96	190.69	114.49	10 28 5	1182.0	-21.11	359.57
110.00	21 18 38	4593.98	28.89	187.10	193.11	70.88	22 35 12	3994.0	26.01	179.11

DIFFERENTIAL CORRECTIONS

TDE	-.5125	TRA	-1.4209	TC3	-.0221	BAU	.0747
RDE	-.3119	RRA	.2873	RC3	-.1652	FAU	.02209
FDE	.6251	FRA	1.0482	FC3	-.5699	BSP	4731
BDE	.6000	BRA	1.4497	BC3	.1666	FSP	-311

MID-COURSE EXECUTION ACCURACY

SGT	1496.5	SGR	461.3	SG3	119.0
RRT	-.3468	RRF	.3638	RTF	-.8532
SGB	1566.0	R23	-.0440	R13	.8552
SG1	1505.8	SG2	430.0	THA	173.35

ORBIT DETERMINATION ACCURACY

ST	659.8	SR	320.2	SS	654.6
CRT	.5697	CRS	.7397	CST	.9737
LSA	948.8	MSA	257.0	SSA	16.1
EL1	688.7	EL2	252.1	ALF	17.94

LAUNCH DATE OCT 18 1965 FLIGHT TIME 100.00 ARRIVAL DATE JAN 26 1966

HELIOCENTRIC CONIC DISTANCE 243.499

RL	149.04	LAL	-.00	LOL	24.41	VL	25.333	GAL	5.11	AZL	87.39	HCA	100.95	SMA	116.50	ECC	.29213	INC	2.6105	VI	29.897
RP	107.48	LAP	2.56	LOP	125.37	VP	36.474	GAP	-16.41	AZP	90.50	TAL	167.36	TAP	268.31	RCA	82.46	APO	150.53	V2	35.258
RC	40.219	GL	11.95	GP	-9.18	ZAL	60.38	ZAP	9.34	ETS	98.50	ZAE	161.33	ETE	271.79	ZAC	47.57	ETC	148.79	CLP	1.72

PLANETOCENTRIC CONIC

C3	30.820	VHL	5.552	DLA	-1.99	RAL	323.08	RAD	6568.2	VEL	12.337	PTH	2.22	VHP	10.420	DPA	-29.98	RAP	312.54	ECC	1.5072

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 22 57	2258.93	-20.62	44.31	191.06	109.85	8 0 36	1658.9	-17.73	36.83
90.00	18 51 29	5026.28	23.25	221.34	192.27	73.37	20 15 15	4426.3	20.75	213.56
100.00	8 43 22	1999.53	-21.79	24.77	190.60	110.99	9 16 41	1399.5	-18.74	17.30
100.00	20 13 45	4760.91	24.44	201.43	191.86	72.24	21 33 6	4160.9	21.78	193.64
110.00	9 49 29	1792.55	-24.92	7.64	189.18	114.19	10 19 21	1192.5	-21.44	.22
110.00	21 24 7	4540.66	27.65	183.45	190.61	69.05	22 39 48	3940.7	24.55	175.66

DIFFERENTIAL CORRECTIONS

TDE	-.5190	TRA	-1.4115	TC3	.0095	BAU	.0781
RDE	-.2792	RRA	.2841	RC3	-.1893	FAU	.02325
FDE	.6747	FRA	1.0915	FC3	-.6530	BSP	4931
BDE	.5894	BRA	1.4398	BC3	.1896	FSP	-345

MID-COURSE EXECUTION ACCURACY

SGT	1553.0	SGR	461.8	SG3	130.5
RRT	-.3841	RRF	.4049	RTF	-.8628
SGB	1620.2	R23	-.0508	R13	.8649
SG1	1563.9	SG2	423.4	THA	172.97

ORBIT DETERMINATION ACCURACY

ST	691.5	SR	301.4	SS	697.2
CRT	.5560	CRS	.7317	CST	.9727
LSA	995.8	MSA	251.6	SSA	16.2
EL1	714.3	EL2	242.5	ALF	15.45

LAUNCH DATE OCT 18 1965 FLIGHT TIME 102.00 ARRIVAL DATE JAN 28 1966

HELIOCENTRIC CONIC DISTANCE 250.279

RL	149.04	LAL	-.00	LOL	24.41	VL	25.532	GAL	4.78	AZL	87.23	HCA	104.20	SMA	117.54	ECC	.27973	INC	2.7695	V1	29.897
RP	107.48	LAP	2.68	LOP	128.62	VP	36.613	GAP	-15.50	AZP	90.68	TAL	167.45	TAP	271.65	RCA	84.66	APO	150.42	V2	35.259
RC	40.350	GL	13.33	GP	-9.85	ZAL	60.63	ZAP	9.85	ETS	88.51	ZAE	160.01	ETE	279.99	ZAC	49.30	ETC	149.30	CLP	.11

PLANETOCENTRIC CONIC

C3	28.415	VHL	5.331	DLA	-.70	RAL	322.55	RAD	6568.1	VEL	12.239	PTH	2.20	VHP	9.923	DPA	-30.24	RAP	314.53	ECC	1.4676

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 11 19	2278.47	-21.07	45.57	189.49	109.37	7 49 17	1678.5	-18.23	38.04
90.00	18 58 56	4966.04	22.02	217.36	189.90	71.74	20 21 42	4366.0	19.32	209.72
100.00	8 32 20	2017.13	-22.21	25.90	189.04	110.53	9 5 57	1417.1	-19.22	18.39
100.00	20 20 36	4702.60	23.18	197.56	189.47	70.58	21 38 59	4102.6	20.32	189.93
110.00	9 39 50	1805.86	-25.29	8.50	187.67	113.80	10 9 55	1205.9	-21.86	1.03
110.00	21 29 36	4486.65	26.28	179.85	188.15	67.31	22 44 23	3886.6	22.97	172.25

DIFFERENTIAL CORRECTIONS

TDE	-.5266	TRA	-1.3994	TC3	.0487	BAU	.0842
RDE	-.2462	RRA	.2821	RC3	-.2164	FAU	.02453
FDE	.7306	FRA	1.1374	FC3	-.7473	BSP	5148
BDE	.5814	BRA	1.4275	BC3	.2218	FSP	-383

MID-COURSE EXECUTION ACCURACY

SGT	1608.1	SGR	463.9	SG3	143.2				
RRT	-.4267	RRF	.4510	RTF	-.8725				
SGB	1673.7	R23	-.0575	R13	.8749				
SG1	1621.1	SG2	416.2	THA	172.49				

ORBIT DETERMINATION ACCURACY

ST	723.9	SR	279.9	SS	743.3		
CRT	.5366	CRS	.7181	CST	.9720		
LSA	1046.2	MSA	245.4	SSA	16.2		
EL1	741.1	EL2	230.7	ALF	13.00		

LAUNCH DATE OCT 18 1965 FLIGHT TIME 104.00 ARRIVAL DATE JAN 30 1966

HELIOCENTRIC CONIC DISTANCE 257.062

RL	149.04	LAL	-.00	LOL	24.41	VL	25.716	GAL	4.46	AZL	87.07	HCA	107.44	SMA	118.53	ECC	.26814	INC	2.9332	V1	29.897
RP	107.48	LAP	2.80	LOP	131.87	VP	36.742	GAP	-14.63	AZP	90.88	TAL	167.60	TAP	275.04	RCA	86.75	APO	150.31	V2	35.259
RC	40.657	GL	14.82	GP	-10.60	ZAL	60.99	ZAP	10.71	ETS	79.63	ZAE	158.35	ETE	286.91	ZAC	51.04	ETC	149.73	CLP	-1.54

PLANETOCENTRIC CONIC

C3	26.307	VHL	5.129	DLA	.66	RAL	321.93	RAD	6568.1	VEL	12.152	PTH	2.18	VHP	9.446	DPA	-30.56	RAP	316.52	ECC	1.4329

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 58 47	2301.37	-21.58	47.06	187.93	108.80	7 37 8	1701.4	-18.81	39.47
90.00	19 6 32	4904.79	20.66	213.38	187.57	70.20	20 28 16	4304.8	17.78	205.90
100.00	8 20 26	2038.01	-22.71	27.26	187.50	109.98	8 54 24	1438.0	-19.78	19.69
100.00	20 27 34	4643.38	21.78	193.71	187.12	69.01	21 44 57	4043.4	18.74	186.24
110.00	9 29 22	1822.21	-25.74	9.56	186.18	113.32	9 59 45	1222.2	-22.36	2.03
110.00	21 35 7	4431.95	24.79	176.29	185.75	65.68	22 48 59	3831.9	21.30	168.89

DIFFERENTIAL CORRECTIONS

TDE	-.5371	TRA	-1.3872	TC3	.0902	BAU	.0923
RDE	-.2125	RRA	.2815	RC3	-.2465	FAU	.02594
FDE	.7945	FRA	1.1865	FC3	-.8536	BSP	5351
BDE	.5776	BRA	1.4155	BC3	.2625	FSP	-425

MID-COURSE EXECUTION ACCURACY

SGT	1664.4	SGR	468.2	SG3	157.2				
RRT	-.4728	RRF	.5019	RTF	-.8808				
SGB	1729.0	R23	-.0667	R13	.8836				
SG1	1680.0	SG2	408.7	THA	171.95				

ORBIT DETERMINATION ACCURACY

ST	759.1	SR	255.5	SS	794.0		
CRT	.5080	CRS	.6956	CST	.9716		
LSA	1102.1	MSA	238.7	SSA	16.2		
EL1	771.1	EL2	216.7	ALF	10.55		

LAUNCH DATE OCT 18 1965 FLIGHT TIME 106.00 ARRIVAL DATE FEB 1 1966

HELIOCENTRIC CONIC DISTANCE 263.847

RL	149.04	LAL	-.00	LOL	24.41	VL	25.885	GAL	4.16	AZL	86.90	HCA	110.69	SMA	119.46	ECC	.25734	INC	3.1028	V1	29.897
RP	107.48	LAP	2.90	LOP	135.12	VP	36.860	GAP	-13.78	AZP	91.10	TAL	167.78	TAP	278.47	RCA	88.72	APO	150.21	V2	35.258
RC	41.135	GL	16.41	GP	-11.45	ZAL	61.44	ZAP	11.89	ETS	72.15	ZAE	156.44	ETE	292.54	ZAC	52.79	ETC	150.07	CLP	-3.23

PLANETOCENTRIC CONIC

C3	24.472	VHL	4.947	DLA	2.09	RAL	321.22	RAD	6568.0	VEL	12.077	PTH	2.16	VHP	8.989	DPA	-30.97	RAP	318.50	ECC	1.4028

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 45 18	2328.02	-22.15	48.80	186.40	108.11	7 24 6	1728.0	-19.47	41.15
90.00	19 14 19	4842.47	19.17	209.42	185.30	68.75	20 35 2	4242.5	16.12	202.07
100.00	8 7 37	2062.51	-23.27	28.86	185.99	109.32	8 41 59	1462.5	-20.42	21.22
100.00	20 34 42	4583.21	20.27	189.89	184.83	67.55	21 51 5	3983.2	17.05	182.57
110.00	9 18 5	1841.92	-26.26	10.85	184.73	112.71	9 48 47	1241.9	-22.95	3.25
110.00	21 40 42	4376.57	23.19	172.79	183.42	64.16	22 53 39	3776.6	19.53	165.57

DIFFERENTIAL CORRECTIONS

TDE	-.5494	TRA	-1.3736	TC3	.1371	BAU	.1020
RDE	-.1776	RRA	.2828	RC3	-.2799	FAU	.02749
FDE	.8678	FRA	1.2391	FC3	-.9723	BSP	5552
BDE	.5774	BRA	1.4024	BC3	.3117	FSP	-471

MID-COURSE EXECUTION ACCURACY

SGT	1719.8	SGR	475.8	SG3	172.8				
RRT	-.5235	RRF	.5574	RTF	-.8888				
SGB	1784.4	R23	-.0766	R13	.8920				
SG1	1738.8	SG2	401.0	THA	171.29				

ORBIT DETERMINATION ACCURACY

ST	795.6	SR	228.2	SS	849.6		
CRT	.4623	CRS	.6578	CST	.9714		
LSA	1163.1	MSA	231.7	SSA	16.1		
EL1	803.0	EL2	200.4	ALF	8.06		

LAUNCH DATE OCT 18 1965 FLIGHT TIME 108.00 ARRIVAL DATE FEB 3 1966

HELIOCENTRIC CONIC DISTANCE 270.629

RL	149.04	LAL	-.00	LOL	24.41	VL	26.042	GAL	3.88	AZL	86.72	HCA	113.93	SMA	120.34	ECC	.24730	INC	3.2798	V1	29.897
RP	107.48	LAP	3.00	LOP	138.37	VP	36.969	GAP	-12.96	AZP	91.33	TAL	168.01	TAP	281.94	RCA	90.58	APO	150.10	V2	35.257
RC	41.780	GL	18.10	GP	-12.41	ZAL	61.99	ZAP	13.35	ETS	66.07	ZAE	154.37	ETE	297.02	ZAC	54.55	ETC	150.34	CLP	-4.97

PLANETOCENTRIC CONIC

C3	22.890	VHL	4.784	DLA	3.61	RAL	320.42	RAD	6567.9	VEL	12.011	PTH	2.14	VHP	8.554	DPA	-31.48	RAP	320.47	ECC	1.3767

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 30 48	2358.81	-22.79	50.83	184.93	107.28	7 10 7	1758.8	-20.21	43.11
90.00	19 22 25	4779.00	17.56	205.46	183.10	67.42	20 42 4	4179.0	14.35	198.25
100.00	7 53 50	2091.00	-23.89	30.75	184.54	108.52	8 28 41	1491.0	-21.14	23.03
100.00	20 42 4	4522.04	18.63	186.08	182.62	66.19	21 57 26	3922.0	15.26	178.91
110.00	9 5 56	1865.30	-26.87	12.40	183.33	111.98	9 37 2	1265.3	-23.64	4.72
110.00	21 46 27	4320.51	21.49	169.33	181.17	62.75	22 58 27	3720.5	17.66	162.29

DIFFERENTIAL CORRECTIONS

TDE	-.5639	TRA	-1.3584	TC3	.1881	BAU	.1127
RDE	-.1411	RRA	.2861	RC3	-.3167	FAU	.02918
FDE	.9520	FRA	1.2954	FC3	-1.1035	BSP	5759
BDE	.5812	BRA	1.3882	BC3	.3684	FSP	-523

MID-COURSE EXECUTION ACCURACY

SGT	1773.5	SGR	488.1	SG3	189.9				
RRT	-.5776	RRF	.6162	RTF	-.8963				
SGB	1839.4	R23	-.0878	R13	.9001				
SG1	1796.9	SG2	393.2	THA	170.51				

ORBIT DETERMINATION ACCURACY

ST	833.7	SR	198.1	SS	910.6		
CRT	.3856	CRS	.5913	CST	.9715		
LSA	1230.0	MSA	224.6	SSA	16.0		
EL1	837.4	EL2	181.9	ALF	5.49		

LAUNCH DATE OCT 18 1965 FLIGHT TIME 110.00 ARRIVAL DATE FEB 5 1966

HELIOCENTRIC CONIC DISTANCE 277.406

RL 149.04 LAL -.00 LOL 24.41 VL 26.186 GAL 3.61 AZL 86.53 HCA 117.17 SMA 121.17 ECC .23799 INC 3.4660 V1 29.897
RP 107.49 LAP 3.08 LOP 141.62 VP 37.069 GAP -12.17 AZP 91.58 TAL 168.28 TAP 285.46 RCA 92.33 APO 150.01 V2 35.255
RC 42.583 GL 19.90 GP -13.50 ZAL 62.63 ZAP 15.06 ETS 61.26 ZAE 152.22 ETE 300.49 ZAC 56.31 ETC 150.53 CLP -6.75

PLANETOCENTRIC CONIC

C3 21.544 VHL 4.641 DLA 5.20 RAL 319.53 RAD 6567.9 VEL 11.955 PTH 2.13 VHP 8.139 DPA -32.10 RAP 322.45 ECC 1.3546

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 15 13	2394.14	-23.48	53.19	183.53	106.30	6 55 7	1794.1	-21.02	45.38
90.00	19 30 54	4714.28	15.83	201.50	181.00	66.21	20 49 28	4114.3	12.48	194.42
100.00	7 39 1	2123.86	-24.59	32.94	183.16	107.56	8 14 24	1523.9	-21.95	25.13
100.00	20 49 47	4459.80	16.88	182.29	180.50	64.96	22 4 7	3859.8	13.36	175.26
110.00	8 52 53	1892.68	-27.55	14.23	182.00	111.09	9 24 25	1292.7	-24.43	6.45
110.00	21 52 24	4263.75	19.68	165.92	179.01	61.47	23 3 28	3663.7	15.72	159.04

DIFFERENTIAL CORRECTIONS

TDE -.5811 TRA-1.3419 TC3 .2422 BAU .1243
RDE -.1021 RRA .2918 RC3 -.3572 FAU .03102
FDE 1.0491 FRA 1.3553 FC3-1.2465 BSP 5960
BDE .5900 BRA 1.3732 BC3 .4316 FSP -580

MID-COURSE EXECUTION ACCURACY

SGT 1825.3 SGR 506.6 SG3 208.8
RRT -.6334 RRF .6765 RTF -.9032
SGB 1894.3 R23 -.1002 R13 .9077
SG1 1854.6 SG2 385.9 THA 169.57

ORBIT DETERMINATION ACCURACY

ST 873.9 SR 166.6 SS 977.6
CRT .2486 CRS .4671 CST .9720
LSA 1303.6 MSA 217.6 SSA 15.7
EL1 874.9 EL2 161.2 ALF 2.81

LAUNCH DATE OCT 18 1965 FLIGHT TIME 112.00 ARRIVAL DATE FEB 7 1966

HELIOCENTRIC CONIC DISTANCE 284.176

RL 149.04 LAL -.00 LOL 24.41 VL 26.318 GAL 3.35 AZL 86.34 HCA 120.41 SMA 121.94 ECC .22938 INC 3.6632 V1 29.897
RP 107.50 LAP 3.16 LOP 144.87 VP 37.160 GAP -11.41 AZP 91.86 TAL 168.59 TAP 289.00 RCA 93.97 APO 149.91 V2 35.252
RC 43.538 GL 21.81 GP -14.73 ZAL 63.37 ZAP 17.01 ETS 57.49 ZAE 150.02 ETE 303.09 ZAC 58.09 ETC 150.63 CLP -8.60

PLANETOCENTRIC CONIC

C3 20.418 VHL 4.519 DLA 6.89 RAL 318.55 RAD 6567.8 VEL 11.908 PTH 2.12 VHP 7.746 DPA -32.86 RAP 324.43 ECC 1.3360

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 58 28	2434.48	-24.23	55.91	182.22	105.13	6 39 2	1834.5	-21.91	48.00
90.00	19 39 53	4648.17	13.97	197.53	179.01	65.12	20 57 21	4048.2	10.50	190.57
100.00	7 23 5	2161.51	-25.34	35.49	181.87	106.42	7 59 7	1561.5	-22.84	27.58
100.00	20 57 56	4396.38	15.01	178.50	178.49	63.84	22 11 12	3796.4	11.38	171.60
110.00	8 38 52	1924.40	-28.31	16.39	180.78	110.01	9 10 56	1324.4	-25.32	8.49
110.00	21 58 39	4206.25	17.77	162.55	176.97	60.31	23 8 45	3606.3	13.69	155.82

DIFFERENTIAL CORRECTIONS

TDE -.6016 TRA-1.3240 TC3 .2978 BAU .1364
RDE -.0597 RRA .3004 RC3 -.4015 FAU .03301
FDE 1.1617 FRA 1.4190 FC3-1.3998 BSP 6148
BDE .6045 BRA 1.3577 BC3 .4699 FSP -642

MID-COURSE EXECUTION ACCURACY

SGT 1874.6 SGR 533.5 SG3 229.5
RRT -.6887 RRF .7360 RTF -.9096
SGB 1949.0 R23 -.1141 R13 .9150
SG1 1911.8 SG2 379.3 THA 168.45

ORBIT DETERMINATION ACCURACY

ST 916.2 SR 138.2 SS 1051.2
CRT -.0060 CRS .2234 CST .9728
LSA 1385.2 MSA 210.9 SSA 15.4
EL1 916.2 EL2 138.2 ALF 179.95

LAUNCH DATE OCT 18 1965 FLIGHT TIME 114.00 ARRIVAL DATE FEB 9 1966

HELIOCENTRIC CONIC DISTANCE 290.936

RL 149.04 LAL -.00 LOL 24.41 VL 26.439 GAL 3.11 AZL 86.13 HCA 123.66 SMA 122.66 ECC .22144 INC 3.8740 V1 29.897
RP 107.51 LAP 3.22 LOP 148.12 VP 37.242 GAP -10.67 AZP 92.15 TAL 168.92 TAP 292.58 RCA 95.50 APO 149.83 V2 35.249
RC 44.633 GL 23.82 GP -16.14 ZAL 64.20 ZAP 19.18 ETS 54.57 ZAE 147.81 ETE 304.95 ZAC 59.89 ETC 150.65 CLP -10.51

PLANETOCENTRIC CONIC

C3 19.502 VHL 4.416 DLA 8.66 RAL 317.50 RAD 6567.8 VEL 11.869 PTH 2.11 VHP 7.376 DPA -33.79 RAP 326.43 ECC 1.3210

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 40 26	2480.36	-25.00	59.04	181.02	103.74	6 21 46	1880.4	-22.87	51.03
90.00	19 49 30	4580.47	11.99	193.54	177.15	64.16	21 5 51	3980.5	8.42	186.68
100.00	7 5 59	2204.43	-26.13	38.43	180.70	105.06	7 42 43	1604.4	-23.81	30.40
100.00	21 6 38	4331.63	13.03	174.71	176.62	62.86	22 18 50	3731.6	9.29	167.92
110.00	8 23 49	1960.83	-29.13	18.91	179.68	108.73	8 56 30	1360.8	-26.30	10.87
110.00	22 5 17	4147.99	15.78	159.21	175.05	59.28	23 14 25	3548.0	11.59	152.62

DIFFERENTIAL CORRECTIONS

TDE -.6256 TRA-1.3056 TC3 .3517 BAU .1488
RDE -.0126 RRA .3125 RC3 -.4494 FAU .03511
FDE 1.2922 FRA 1.4868 FC3-1.5587 BSP 6332
BDE .6257 BRA 1.3424 BC3 .5706 FSP -711

MID-COURSE EXECUTION ACCURACY

SGT 1921.2 SGR 570.9 SG3 252.1
RRT -.7409 RRF .7919 RTF -.9154
SGB 2004.3 R23 -.1293 R13 .9219
SG1 1969.0 SG2 374.1 THA 167.11

ORBIT DETERMINATION ACCURACY

ST 960.8 SR 124.7 SS 1132.0
CRT -.4184 CRS -.2040 CST .9739
LSA 1475.8 MSA 204.8 SSA 14.9
EL1 962.2 EL2 113.1 ALF 176.85

LAUNCH DATE OCT 18 1965 FLIGHT TIME 116.00 ARRIVAL DATE FEB 11 1966

HELIOCENTRIC CONIC DISTANCE 297.684

RL 149.04 LAL -.00 LOL 24.41 VL 26.550 GAL 2.89 AZL 85.90 HCA 126.90 SMA 123.33 ECC .21414 INC 4.1013 V1 29.897
RP 107.52 LAP 3.28 LOP 151.37 VP 37.317 GAP -9.96 AZP 92.47 TAL 169.28 TAP 296.18 RCA 96.92 APO 149.74 V2 35.244
RC 45.858 GL 25.94 GP -17.76 ZAL 65.11 ZAP 21.59 ETS 52.33 ZAE 145.60 ETE 306.14 ZAC 61.70 ETC 150.59 CLP -12.49

PLANETOCENTRIC CONIC

C3 18.791 VHL 4.335 DLA 10.53 RAL 316.37 RAD 6567.8 VEL 11.839 PTH 2.10 VHP 7.029 DPA -34.92 RAP 328.45 ECC 1.3092

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 20 59	2532.40	-25.80	62.65	179.97	102.10	6 3 11	1932.4	-23.87	54.51
90.00	19 59 58	4510.88	9.90	189.50	175.44	63.33	21 15 9	3910.9	6.24	182.73
100.00	6 47 34	2253.15	-26.95	41.82	179.68	103.45	7 25 7	1653.2	-24.83	33.66
100.00	21 16 4	4265.36	10.94	170.90	174.89	62.01	22 27 10	3665.4	7.12	164.21
110.00	8 7 42	2002.38	-30.00	21.83	178.73	107.20	8 41 4	1402.4	-27.36	13.63
110.00	22 12 25	4088.89	13.70	155.90	173.28	58.37	23 20 34	3488.9	9.41	149.42

DIFFERENTIAL CORRECTIONS

TDE -.6505 TRA-1.2831 TC3 .4085 BAU .1625
RDE .0406 RRA .3282 RC3 -.5015 FAU .03742
FDE 1.4411 FRA 1.5554 FC3-1.7241 BSP 6581
BDE .6517 BRA 1.3244 BC3 .6468 FSP -789

MID-COURSE EXECUTION ACCURACY

SGT 1959.6 SGR 621.7 SG3 276.4
RRT -.7889 RRF .8419 RTF -.9210
SGB 2055.9 R23 -.1438 R13 .9289
SG1 2022.3 SG2 370.3 THA 165.45

ORBIT DETERMINATION ACCURACY

ST 1003.5 SR 143.4 SS 1218.3
CRT -.7974 CRS -.6460 CST .9750
LSA 1572.2 MSA 199.7 SSA 14.2
EL1 1010.1 EL2 86.0 ALF 173.45

LAUNCH DATE OCT 18 1965 FLIGHT TIME 118.00 ARRIVAL DATE FEB 13 1966

HELIOCENTRIC CONIC DISTANCE 304.418

RL	149.04	LAL	-.00	LOL	24.41	VL	26,652	GAL	2.68	AZL	85.65	HCA	130.14	SMA	123.96	ECC	.20745	INC	4.3487	V1	29.897
RP	107.54	LAP	3.32	LOP	154.62	VP	37,385	GAP	-9.27	AZP	92.81	TAL	169.66	TAP	299.79	RCA	98.24	APO	149.67	V2	35.239
RC	47.202	GL	28.17	GP	-19.61	ZAL	66.09	ZAP	24.25	ETS	50.63	ZAE	143.38	ETE	306.75	ZAC	63.55	ETC	150.43	CLP	-14.56

PLANETOCENTRIC CONIC

C3	18.282	VHL	4.276	DLA	12.48	RAL	315.18	RAD	6567.7	VEL	11.818	PTH	2.09	VHP	6.708	DPA	-36.27	RAP	330.52	ECC	1.3009

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 59 55	2591.41	-26.57	66.80	179.08	100.16	5 43 6	1991.4	-24.90	58.53
90.00	20 11 30	4438.99	7.67	185.39	173.92	62.66	21 25 29	3839.0	3.95	178.69
100.00	6 27 40	2308.38	-27.76	45.72	178.83	101.56	7 6 9	1708.4	-25.89	37.42
100.00	21 26 26	4197.25	8.74	167.05	173.35	61.30	22 36 23	3597.2	4.84	160.43
110.00	7 50 23	2049.56	-30.91	25.20	177.96	105.39	8 24 33	1449.6	-28.48	16.84
110.00	22 20 12	4028.83	11.53	152.60	171.68	57.59	23 27 21	3428.8	7.17	146.22

DIFFERENTIAL CORRECTIONS

TDE	-.6813	TRA	-1.2621	TC3	.4551	BAU	.1757														
RDE	.1025	RRA	.3489	RC3	-.5565	FAU	.03972														
FDE	1.6143	FRA	1.6279	FC3	-1.8810	BSP	6760														
BDE	.6890	BRA	1.3094	BC3	.7188	FSP	-869														

MID-COURSE EXECUTION ACCURACY

SGT	1996.4	SGR	688.9	SG3	302.5						
RRT	-.8289	RRF	.8840	RTF	-.9258						
SGB	2111.9	R23	-.1595	R13	.9355						
SG1	2079.2	SG2	370.0	THA	163.50						

ORBIT DETERMINATION ACCURACY

ST	1050.6	SR	199.2	SS	1312.9						
CRT	-.9564	CRS	-.8730	CST	.9765						
LSA	1681.9	MSA	195.2	SSA	13.5						
EL1	1067.8	EL2	57.3	ALF	169.69						

LAUNCH DATE OCT 18 1965 FLIGHT TIME 120.00 ARRIVAL DATE FEB 15 1966

HELIOCENTRIC CONIC DISTANCE 311.136

RL	149.04	LAL	-.00	LOL	24.41	VL	26,744	GAL	2.49	AZL	85.38	HCA	133.37	SMA	124.53	ECC	.20133	INC	4.6207	V1	29.897
RP	107.55	LAP	3.36	LOP	157.87	VP	37,445	GAP	-8.60	AZP	93.18	TAL	170.05	TAP	303.42	RCA	99.46	APO	149.60	V2	35.234
RC	48.656	GL	30.51	GP	-21.73	ZAL	67.15	ZAP	27.17	ETS	49.36	ZAE	141.13	ETE	306.83	ZAC	65.45	ETC	150.19	CLP	-16.72

PLANETOCENTRIC CONIC

C3	17.980	VHL	4.240	DLA	14.53	RAL	313.92	RAD	6567.7	VEL	11.805	PTH	2.09	VHP	6.416	DPA	-37.90	RAP	332.66	ECC	1.2959

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 36 58	2658.46	-27.29	71.57	178.39	97.87	5 21 16	2058.5	-25.92	63.17
90.00	20 24 26	4364.17	5.31	181.16	172.62	62.15	21 37 10	3764.2	1.54	174.51
100.00	6 6 5	2371.01	-28.53	50.22	178.17	99.31	6 45 36	1771.0	-26.95	41.77
100.00	21 37 59	4126.85	6.42	163.11	172.01	60.74	22 46 46	3526.8	2.47	156.55
110.00	7 31 45	2102.98	-31.80	29.11	177.42	103.24	8 6 48	1503.0	-29.66	20.56
110.00	22 28 48	3967.65	9.27	149.29	170.27	56.95	23 34 56	3367.6	4.86	142.99

DIFFERENTIAL CORRECTIONS

TDE	-.7168	TRA	-1.2399	TC3	.4934	BAU	.1894														
RDE	.1758	RRA	.3751	RC3	-.6141	FAU	.04202														
FDE	1.8132	FRA	1.7003	FC3	-2.0234	BSP	6948														
BDE	.7380	BRA	1.2954	BC3	.7878	FSP	-955														

MID-COURSE EXECUTION ACCURACY

SGT	2026.9	SGR	775.8	SG3	329.9						
RRT	-.8612	RRF	.9177	RTF	-.9301						
SGB	2170.3	R23	-.1738	R13	.9421						
SG1	2137.9	SG2	373.8	THA	161.16						

ORBIT DETERMINATION ACCURACY

ST	1099.0	SR	285.2	SS	1414.6						
CRT	-.9948	CRS	-.9544	CST	.9781						
LSA	1803.7	MSA	191.6	SSA	12.6						
EL1	1135.0	EL2	28.0	ALF	165.51						

LAUNCH DATE OCT 18 1965 FLIGHT TIME 122.00 ARRIVAL DATE FEB 17 1966

HELIOCENTRIC CONIC DISTANCE 317.837

RL	149.04	LAL	-.00	LOL	24.41	VL	26,828	GAL	2.31	AZL	85.08	HCA	136.61	SMA	125.06	ECC	.19577	INC	4.9234	V1	29.897
RP	107.57	LAP	3.38	LOP	161.12	VP	37,499	GAP	-7.96	AZP	93.58	TAL	170.44	TAP	307.05	RCA	100.57	APO	149.54	V2	35.227
RC	50.208	GL	32.94	GP	-24.18	ZAL	68.26	ZAP	30.38	ETS	48.43	ZAE	138.81	ETE	306.41	ZAC	67.42	ETC	149.84	CLP	-18.97

PLANETOCENTRIC CONIC

C3	17.898	VHL	4.231	DLA	16.68	RAL	312.60	RAD	6567.7	VEL	11.802	PTH	2.09	VHP	6.155	DPA	-39.84	RAP	334.91	ECC	1.2946

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 11 40	2735.09	-27.88	77.10	177.90	95.16	4 57 16	2135.1	-26.87	68.58
90.00	20 39 12	4285.39	2.79	176.75	171.58	61.81	21 50 38	3685.4	-1.00	170.12
100.00	5 42 28	2442.29	-29.21	55.41	177.74	96.66	6 23 10	1842.3	-27.98	46.82
100.00	21 51 6	4053.43	3.96	159.05	170.93	60.35	22 58 39	3453.4	-.02	152.52
110.00	7 11 36	2163.43	-32.66	33.61	177.13	100.70	7 47 39	1563.4	-30.84	24.87
110.00	22 38 27	3905.06	6.93	145.96	169.09	56.44	23 43 32	3305.1	2.47	139.71

DIFFERENTIAL CORRECTIONS

TDE	-.7551	TRA	-1.2159	TC3	.5208	BAU	.2037														
RDE	.2642	RRA	.4076	RC3	-.6732	FAU	.04420														
FDE	2.0370	FRA	1.7690	FC3	-2.1382	BSP	7145														
BDE	.8000	BRA	1.2824	BC3	.8512	FSP	-1042														

MID-COURSE EXECUTION ACCURACY

SGT	2048.2	SGR	885.8	SG3	357.7						
RRT	-.8861	RRF	.9433	RTF	-.9338						
SGB	2231.5	R23	-.1850	R13	.9488						
SG1	2198.5	SG2	382.5	THA	158.34						

ORBIT DETERMINATION ACCURACY

ST	1145.4	SR	397.8	SS	1520.5						
CRT	-.9994	CRS	-.9828	CST	.9797						
LSA	1935.6	MSA	189.1	SSA	11.7						
EL1	1212.5	EL2	13.4	ALF	160.86						

LAUNCH DATE OCT 18 1965 FLIGHT TIME 124.00 ARRIVAL DATE FEB 19 1966

HELIOCENTRIC CONIC DISTANCE 324.519

RL	149.04	LAL	-.00	LOL	24.41	VL	26,904	GAL	2.14	AZL	84.74	HCA	139.84	SMA	125.54	ECC	.19073	INC	5.2644	V1	29.897
RP	107.60	LAP	3.39	LOP	164.37	VP	37,547	GAP	-7.33	AZP	94.03	TAL	170.84	TAP	310.68	RCA	101.60	APO	149.48	V2	35.220
RC	51.850	GL	35.49	GP	-27.01	ZAL	69.43	ZAP	33.92	ETS	47.74	ZAE	136.35	ETE	305.54	ZAC	69.47	ETC	149.41	CLP	-21.34

PLANETOCENTRIC CONIC

C3	18.058	VHL	4.249	DLA	18.92	RAL	311.23	RAD	6567.7	VEL	11.808	PTH	2.09	VHP	5.930	DPA	-42.13	RAP	337.33	ECC	1.2972

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	3 43 23	2823.66	-28.26	83.55	177.62	91.95	4 30 26	2223.7	-27.69	74.93
90.00	20 56 33	4200.97	.07	172.03	170.86	61.68	22 6 34	3601.0	-3.72	165.40
100.00	5 16 17	2524.05	-29.70	61.43	177.55	93.53	5 58 21	1924.0	-28.90	52.72
100.00	22 6 19	3975.82	1.34	154.78	170.16	60.13	23 12 35	3375.8	-2.65	148.26
110.00	6 49 38	2232.01	-33.41	38.83	177.12	97.71	7 26 50	1632.0	-31.98	29.89
110.00	22 49 28	3840.62	4.50	142.56	168.19	56.08	23 53 28	3240.6	.01	136.35

DIFFERENTIAL CORRECTIONS

TDE	-.7966	TRA	-1.1893	TC3	.5380	BAU	.2194														
RDE	.3727	RRA	.4472	RC3	-.7325	FAU	.04618														
FDE	2.2848	FRA	1.8282	FC3	-2.2139	BSP	7398														
BDE	.8795	BRA	1.2706	BC3	.9088	FSP	-1132														

MID-COURSE EXECUTION ACCURACY

SGT	2058.2	SGR	1023.0	SG3	384.6						
RRT	-.9048	RRF	.9619	RTF	-.9370						
SGB	2298.4	R23	-.1906	R13	.9557						
SG1	2264.0	SG2	396.0	THA	154.97						

ORBIT DETERMINATION ACCURACY

ST	1188.4	SR	538.1	SS	1628.7						
CRT	-.9966	CRS	-.9932	CST	.9813						
LSA	2078.3	MSA	187.3	SSA	10.6						
EL1	1304.0	EL2	40.1	ALF	155.69						

LAUNCH DATE OCT 18 1965 FLIGHT TIME 126.00 ARRIVAL DATE FEB 21 1966

HELIOCENTRIC CONIC DISTANCE 331.181

RL 149.04 LAL -.00 LOL 24.41 VL 26.973 GAL 1.99 AZL 84.35 HCA 143.07 SMA 125.98 ECC .18618 INC 5.6542 V1 29.897
RP 107.62 LAP 3.39 LOP 167.62 VP 37.689 GAP -6.73 AZP 94.53 TAL 171.22 TAP 314.30 RCA 102.52 APO 149.44 V2 35.212
RC 53.572 GL 38.13 GP -30.26 ZAL 70.64 ZAP 37.80 ETS 47.23 ZAE 133.69 ETE 304.26 ZAC 71.65 ETC 148.88 CLP -23.82

PLANETOCENTRIC CONIC

C3 18.499 VHL 4.301 DLA 21.26 RAL 309.80 RAD 6567.7 VEL 11.827 PTH 2.09 VHP 5.750 DPA -44.82 RAP 340.02 ECC 1.3044

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	3 10 52	2928.17	-28.26	91.19	177.55	88.12	3 59 40	2328.2	-28.22	82.53
90.00	21 17 39	4107.76	-2.94	166.83	170.56	61.82	22 26 7	3507.8	-6.68	160.16
100.00	4 46 41	2619.20	-29.89	68.50	177.59	89.81	5 30 20	2019.2	-29.60	59.71
100.00	22 24 31	3891.96	-1.51	150.18	169.77	60.14	23 29 23	3292.0	-5.47	143.63
110.00	6 25 26	2310.29	-33.96	44.87	177.42	94.17	7 3 56	1710.3	-33.01	35.76
110.00	23 2 16	3773.64	1.94	139.06	167.61	55.87	24 5 10	3173.6	-2.55	132.85

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.8434 TRA-1.1640 TC3 .5343 BAU .2353 SGT 2059.5 SGR 1191.3 SG3 409.0 ST 1229.5 SR 710.1 SS 1736.6
RDE .5083 RRA .4957 RC3 -.7871 FAU .04752 RRT -.9175 RRF .9748 RTF -.9395 CRT -.9934 CRS -.9973 CST .9828
FDE 2.5534 FRA 1.8751 FC3-2.2240 BSP 7619 SGB 2379.2 R23 -.1905 R13 .9628 LSA 2235.4 MSA 186.4 SSA 9.5
BDE .9848 BRA 1.2651 BC3 .9513 FSP -1210 SG1 2342.5 SG2 416.6 THA 151.04 EL1 1418.0 EL2 70.8 ALF 150.07

LAUNCH DATE OCT 18 1965 FLIGHT TIME 128.00 ARRIVAL DATE FEB 23 1966

HELIOCENTRIC CONIC DISTANCE 337.822

RL 149.04 LAL -.00 LOL 24.41 VL 27.034 GAL 1.86 AZL 83.89 HCA 146.30 SMA 126.38 ECC .18210 INC 6.1070 V1 29.897
RP 107.64 LAP 3.38 LOP 170.86 VP 37.625 GAP -6.14 AZP 95.09 TAL 171.60 TAP 317.90 RCA 103.37 APO 149.39 V2 35.204
RC 55.368 GL 40.89 GP -34.00 ZAL 71.90 ZAP 42.05 ETS 46.81 ZAE 130.74 ETE 302.62 ZAC 73.99 ETC 148.28 CLP -26.41

PLANETOCENTRIC CONIC

C3 19.284 VHL 4.391 DLA 23.70 RAL 308.31 RAD 6567.8 VEL 11.860 PTH 2.10 VHP 5.623 DPA -47.94 RAP 343.11 ECC 1.3174

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	2 31 42	3056.55	-27.62	100.53	177.60	83.48	3 22 39	2456.5	-28.23	91.92
90.00	21 44 57	3998.97	-6.41	160.72	170.84	62.36	22 51 36	3399.0	-10.06	153.95
100.00	4 12 4	2732.94	-29.57	76.93	177.82	85.39	4 57 37	2132.9	-29.89	68.14
100.00	22 47 15	3797.81	-4.69	145.00	169.89	60.44	23 50 33	3197.8	-8.59	138.38
110.00	5 58 17	2400.65	-34.18	51.92	178.04	90.01	6 38 18	1800.6	-33.80	42.69
110.00	23 17 32	3702.87	-.76	135.36	167.45	55.82	24 19 15	3102.9	-5.24	129.14

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.8949 TRA-1.1374 TC3 .5120 BAU .2520 SGT 2047.4 SGR 1394.2 SG3 428.1 ST 1264.9 SR 918.6 SS 1838.6
RDE .6801 RRA .5534 RC3 -.8326 FAU .04798 RRT -.9258 RRF .9836 RTF -.9412 CRT -.9910 CRS -.9990 CST .9841
FDE 2.8327 FRA 1.8980 FC3-2.1541 BSP 7909 SGB 2477.1 R23 -.1825 R13 .9699 LSA 2406.2 MSA 186.0 SSA 8.4
BDE 1.1240 BRA 1.2649 BC3 .9774 FSP -1275 SG1 2437.2 SG2 442.7 THA 146.52 EL1 1560.0 EL2 100.0 ALF 144.09

LAUNCH DATE OCT 18 1965 FLIGHT TIME 130.00 ARRIVAL DATE FEB 25 1966

HELIOCENTRIC CONIC DISTANCE 344.439

RL 149.04 LAL -.00 LOL 24.41 VL 27.089 GAL 1.74 AZL 83.36 HCA 149.53 SMA 126.74 ECC .17845 INC 6.6432 V1 29.897
RP 107.67 LAP 3.36 LOP 174.10 VP 37.657 GAP -5.57 AZP 95.73 TAL 171.95 TAP 321.47 RCA 104.12 APO 149.36 V2 35.195
RC 57.230 GL 43.76 GP -38.27 ZAL 73.20 ZAP 46.69 ETS 46.40 ZAE 127.40 ETE 300.70 ZAC 76.52 ETC 147.63 CLP -29.10

PLANETOCENTRIC CONIC

C3 20.515 VHL 4.529 DLA 26.24 RAL 306.76 RAD 6567.8 VEL 11.912 PTH 2.12 VHP 5.565 DPA -51.50 RAP 346.82 ECC 1.3376

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	1 39 1	3230.79	-25.66	112.89	177.49	77.59	2 32 52	2630.8	-27.11	104.53
90.00	22 25 13	3854.15	-10.89	152.44	172.05	63.70	23 29 27	3254.1	-14.33	145.46
100.00	3 28 53	2876.61	-28.32	87.42	178.08	80.01	4 16 49	2276.6	-29.41	78.79
100.00	23 18 2	3683.56	-8.48	138.64	170.77	61.23	24 19 26	3083.6	-12.26	131.89
110.00	5 27 1	2506.97	-33.87	60.20	178.93	85.12	6 8 48	1907.0	-34.18	50.97
110.00	23 36 23	3625.97	-3.70	131.35	167.84	55.99	24 36 49	3026.0	-8.14	125.07

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.9474 TRA-1.1089 TC3 .4765 BAU .2707 SGT 2017.1 SGR 1633.6 SG3 438.0 ST 1287.1 SR 1165.9 SS 1923.1
RDE .8978 RRA .6204 RC3 -.8643 FAU .04735 RRT -.9310 RRF .9894 RTF -.9423 CRT -.9893 CRS -.9996 CST .9852
FDE 3.0982 FRA 1.8849 FC3-1.9981 BSP 8292 SGB 2595.6 R23 -.1668 R13 .9770 LSA 2584.5 MSA 186.2 SSA 7.3
BDE 1.3053 BRA 1.2707 BC3 .9870 FSP -1319 SG1 2552.5 SG2 471.4 THA 141.43 EL1 1732.1 EL2 126.3 ALF 137.86

LAUNCH DATE OCT 18 1965 FLIGHT TIME 132.00 ARRIVAL DATE FEB 27 1966

HELIOCENTRIC CONIC DISTANCE 351.032

RL 149.04 LAL -.00 LOL 24.41 VL 27.138 GAL 1.63 AZL 82.71 HCA 152.75 SMA 127.06 ECC .17521 INC 7.2926 V1 29.897
RP 107.70 LAP 3.33 LOP 177.34 VP 37.683 GAP -5.02 AZP 96.49 TAL 172.27 TAP 325.02 RCA 104.80 APO 149.32 V2 35.186
RC 59.152 GL 46.74 GP -43.10 ZAL 74.54 ZAP 51.68 ETS 45.93 ZAE 123.60 ETE 298.59 ZAC 79.31 ETC 146.97 CLP -31.88

PLANETOCENTRIC CONIC

C3 22.359 VHL 4.729 DLA 28.90 RAL 305.12 RAD 6567.9 VEL 11.989 PTH 2.14 VHP 5.595 DPA -55.46 RAP 351.52 ECC 1.3680

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
83.99	23 3 50	3724.32	-19.35	146.89	175.63	68.11	24 5 54	3124.3	-22.15	139.29
96.01	0 47 21	3402.08	-19.33	123.26	175.62	68.10	1 44 3	2802.1	-22.14	115.67
100.00	2 23 40	3092.67	-24.84	102.52	177.73	72.81	3 15 13	2492.7	-26.95	94.36
100.00	0 14 8	3508.96	-14.03	128.64	173.12	63.33	1 12 36	2909.0	-17.50	121.57
110.00	4 49 20	2636.57	-32.68	70.12	179.94	79.36	5 33 16	2036.6	-33.80	61.06
110.00	0 4 57	3537.82	-7.04	126.71	169.01	56.46	1 3 55	2937.8	-11.40	120.33

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE-1.0061 TRA-1.0825 TC3 .4190 BAU .2887 SGT 1971.7 SGR 1909.9 SG3 435.2 ST 1299.3 SR 1457.3 SS 1984.3
RDE 1.1785 RRA .6974 RC3 -.8701 FAU .04494 RRT -.9328 RRF .9932 RTF -.9422 CRT -.9883 CRS -.9999 CST .9860
FDE 3.3289 FRA 1.8276 FC3-1.7401 BSP 8715 SGB 2745.1 R23 -.1450 R13 .9835 LSA 2777.5 MSA 186.9 SSA 6.2
BDE 1.5495 BRA 1.2877 BC3 .9657 FSP -1321 SG1 2698.6 SG2 502.8 THA 135.98 EL1 1946.7 EL2 148.6 ALF 131.68

LAUNCH DATE OCT 18 1965 FLIGHT TIME 134.00 ARRIVAL DATE MAR 1 1966

HELIOCENTRIC CONIC DISTANCE 357.600

RL 149.04 LAL -.00 LOL 24.41 VL 27.182 GAL 1.54 AZL 81.90 HCA 155.96 SMA 127.35 ECC .17235 INC 8.1005 V1 29.897
RP 107.73 LAP 3.29 LOP 180.58 VP 37.705 GAP -4.49 AZP 97.41 TAL 172.56 TAP 328.52 RCA 105.40 APO 149.30 V2 35.176
RC 61.127 GL 49.84 GP -48.50 ZAL 75.92 ZAP 56.99 ETS 45.34 ZAE 119.26 ETE 296.43 ZAC 82.38 ETC 146.39 CLP -34.69

PLANETOCENTRIC CONIC

C3 25.100 VHL 5.010 DLA 31.65 RAL 303.38 RAD 6568.0 VEL 12.103 PTH 2.17 VHP 5.746 DPA -59.69 RAP 357.82 ECC 1.4131

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
75.23	21 50 49	3963.13	-20.29	165.11	176.55	65.17	22 56 52	3363.1	-23.46	157.61
104.77	1 46 28	3219.83	-20.28	110.12	176.54	65.16	2 40 8	2619.8	-23.45	102.63
75.23	21 50 49	3963.13	-20.29	165.11	176.55	65.17	22 56 52	3363.1	-23.46	157.61
104.77	1 46 28	3219.83	-20.28	110.12	176.54	65.16	2 40 8	2619.8	-23.45	102.63
110.00	3 59 13	2807.91	-29.83	82.64	180.62	72.47	4 46 1	2207.9	-31.93	74.07
110.00	0 41 11	3423.04	-11.30	120.55	171.45	57.52	1 38 14	2823.0	-15.50	113.97

DIFFERENTIAL CORRECTIONS
TDE-1.0700 TRA-1.0596 TC3 .3473 BAU .3052
RDE 1.5418 RRA .7836 RC3 -.8406 FAU .04055
FDE 3.4870 FRA 1.7175 FC3-1.3986 BSP 9198
BDE 1.8767 BRA 1.3179 BC3 .9095 FSP -1271

MID-COURSE EXECUTION ACCURACY
SGT 1909.1 SGR 2219.6 SG3 416.1
RRT -.9320 RRF .9955 RTF -.9411
SGB 2927.7 R23 -.1189 R13 .9891
SG1 2878.7 SG2 533.7 THA 130.39

ORBIT DETERMINATION ACCURACY
ST 1296.1 SR 1791.5 SS 2009.4
CRT -.9874 CRS-1.0000 CST .9866
LSA 2981.9 MSA 188.4 SSA 5.1
EL1 2204.9 EL2 166.4 ALF 125.78

LAUNCH DATE OCT 18 1965 FLIGHT TIME 136.00 ARRIVAL DATE MAR 3 1966

HELIOCENTRIC CONIC DISTANCE 364.138

RL 149.04 LAL -.00 LOL 24.41 VL 27.220 GAL 1.47 AZL 80.86 HCA 159.17 SMA 127.60 ECC .16985 INC 9.1404 V1 29.897
RP 107.76 LAP 3.24 LOP 183.82 VP 37.723 GAP -3.97 AZP 98.55 TAL 172.80 TAP 331.97 RCA 105.93 APO 149.28 V2 35.166
RC 63.151 GL 53.05 GP -54.45 ZAL 77.36 ZAP 62.50 ETS 44.60 ZAE 114.33 ETE 294.38 ZAC 85.79 ETC 146.04 CLP -37.41

PLANETOCENTRIC CONIC

C3 29.254 VHL 5.409 DLA 34.50 RAL 301.50 RAD 6568.2 VEL 12.273 PTH 2.21 VHP 6.066 DPA -63.93 RAP 6.70 ECC 1.4814

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
69.42	21 6 12	4115.81	-20.77	177.12	178.01	61.82	22 14 48	3515.8	-24.37	169.80
110.58	2 16 4	3143.24	-20.76	104.49	178.01	61.81	3 8 28	2543.2	-24.36	97.16
69.42	21 6 12	4115.81	-20.77	177.12	178.01	61.82	22 14 48	3515.8	-24.37	169.80
110.58	2 16 4	3143.24	-20.76	104.49	178.01	61.81	3 8 28	2543.2	-24.36	97.16
69.42	21 6 12	4115.81	-20.77	177.12	178.01	61.82	22 14 48	3515.8	-24.37	169.80
110.58	2 16 4	3143.24	-20.76	104.49	178.01	61.81	3 8 28	2543.2	-24.36	97.16

DIFFERENTIAL CORRECTIONS
TDE-1.1395 TRA-1.0404 TC3 .2702 BAU .3184
RDE 2.0139 RRA .8741 RC3 -.7679 FAU .03422
FDE 3.5317 FRA 1.5464 FC3-1.0128 BSP 9871
BDE 2.3139 BRA 1.3588 BC3 .8140 FSP -1175

MID-COURSE EXECUTION ACCURACY
SGT 1825.0 SGR 2550.2 SG3 378.1
RRT -.9283 RRF .9969 RTF -.9384
SGB 3136.0 R23 -.0908 R13 .9934
SG1 3085.4 SG2 561.0 THA 124.92

ORBIT DETERMINATION ACCURACY
ST 1272.0 SR 2160.0 SS 1985.5
CRT -.9865 CRS-1.0000 CST .9868
LSA 3192.1 MSA 190.4 SSA 4.2
EL1 2500.3 EL2 179.7 ALF 120.33

LAUNCH DATE OCT 18 1965 FLIGHT TIME 138.00 ARRIVAL DATE MAR 5 1966

HELIOCENTRIC CONIC DISTANCE 370.645

RL 149.04 LAL -.00 LOL 24.41 VL 27.253 GAL 1.40 AZL 79.46 HCA 162.37 SMA 127.82 ECC .16770 INC10.5378 V1 29.897
RP 107.80 LAP 3.18 LOP 187.05 VP 37.737 GAP -3.47 AZP 100.05 TAL 173.00 TAP 335.36 RCA 106.39 APO 149.26 V2 35.155
RC 65.219 GL 56.36 GP -60.90 ZAL 78.87 ZAP 68.04 ETS 43.87 ZAE 108.81 ETE 292.75 ZAC 89.57 ETC 146.20 CLP -39.75

PLANETOCENTRIC CONIC

C3 35.822 VHL 5.985 DLA 37.40 RAL 299.43 RAD 6568.4 VEL 12.538 PTH 2.27 VHP 6.637 DPA -67.65 RAP 19.65 ECC 1.5895

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
64.48	20 30 45	4247.99	-20.55	187.54	180.09	58.04	21 41 33	3648.0	-24.62	180.50
115.52	2 35 3	3113.02	-20.53	101.93	180.08	58.03	3 26 56	2513.0	-24.60	94.89
64.48	20 30 45	4247.99	-20.55	187.54	180.09	58.04	21 41 33	3648.0	-24.62	180.50
115.52	2 35 3	3113.02	-20.53	101.93	180.08	58.03	3 26 56	2513.0	-24.60	94.89
64.48	20 30 45	4247.99	-20.55	187.54	180.09	58.04	21 41 33	3648.0	-24.62	180.50
115.52	2 35 3	3113.02	-20.53	101.93	180.08	58.03	3 26 56	2513.0	-24.60	94.89

DIFFERENTIAL CORRECTIONS
TDE-1.2298 TRA-1.0392 TC3 .1884 BAU .3199
RDE 2.6406 RRA .9678 RC3 -.6408 FAU .02595
FDE 3.4437 FRA 1.3306 FC3 -.6272 BSP 10511
BDE 2.9129 BRA 1.4201 BC3 .6679 FSP -1015

MID-COURSE EXECUTION ACCURACY
SGT 1733.6 SGR 2887.7 SG3 323.3
RRT -.9208 RRF .9976 RTF -.9340
SGB 3368.1 R23 -.0624 R13 .9964
SG1 3316.2 SG2 588.7 THA 119.98

ORBIT DETERMINATION ACCURACY
ST 1235.8 SR 2552.1 SS 1910.4
CRT -.9853 CRS-1.0000 CST .9866
LSA 3413.5 MSA 194.1 SSA 3.3
EL1 2829.2 EL2 190.1 ALF 115.63

LAUNCH DATE OCT 18 1965 FLIGHT TIME 140.00 ARRIVAL DATE MAR 7 1966

HELIOCENTRIC CONIC DISTANCE 377.113

RL 149.04 LAL -.00 LOL 24.41 VL 27.281 GAL 1.36 AZL 77.47 HCA 165.55 SMA 128.02 ECC .16587 INC12.5278 V1 29.897
RP 107.83 LAP 3.10 LOP 190.28 VP 37.747 GAP -2.99 AZP 102.14 TAL 173.13 TAP 338.68 RCA 106.78 APO 149.25 V2 35.143
RC 67.327 GL 59.68 GP -67.77 ZAL 80.47 ZAP 73.41 ETS 43.74 ZAE 102.67 ETE 292.27 ZAC 93.78 ETC 147.63 CLP -40.99

PLANETOCENTRIC CONIC

C3 46.973 VHL 6.854 DLA 40.27 RAL 297.12 RAD 6568.8 VEL 12.974 PTH 2.37 VHP 7.609 DPA -69.91 RAP 37.82 ECC 1.7731

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
60.08	20 0 20	4377.17	-19.23	197.34	182.81	53.92	21 13 17	3777.2	-23.81	190.70
119.92	2 47 1	3120.51	-19.22	101.62	182.80	53.91	3 39 2	2520.5	-23.79	94.97
60.08	20 0 20	4377.17	-19.23	197.34	182.81	53.92	21 13 17	3777.2	-23.81	190.70
119.92	2 47 1	3120.51	-19.22	101.62	182.80	53.91	3 39 2	2520.5	-23.79	94.97
60.08	20 0 20	4377.17	-19.23	197.34	182.81	53.92	21 13 17	3777.2	-23.81	190.70
119.92	2 47 1	3120.51	-19.22	101.62	182.80	53.91	3 39 2	2520.5	-23.79	94.97

DIFFERENTIAL CORRECTIONS
TDE-1.3802 TRA-1.0736 TC3 .1182 BAU .3011
RDE 3.4883 RRA 1.0499 RC3 -.4647 FAU .01671
FDE 3.2191 FRA 1.0849 FC3 -.3080 BSP 11277
BDE 3.7514 BRA 1.5016 BC3 .4795 FSP -823

MID-COURSE EXECUTION ACCURACY
SGT 1655.6 SGR 3198.9 SG3 256.8
RRT -.9103 RRF .9975 RTF -.9291
SGB 3601.9 R23 -.0341 R13 .9983
SG1 3548.5 SG2 617.9 THA 116.08

ORBIT DETERMINATION ACCURACY
ST 1206.5 SR 2936.6 SS 1784.6
CRT -.9840 CRS -.9999 CST .9864
LSA 3636.5 MSA 199.9 SSA 2.6
EL1 3168.5 EL2 199.1 ALF 112.11

LAUNCH DATE OCT 18 1965 FLIGHT TIME 142.00 ARRIVAL DATE MAR 9 1966

HELIOCENTRIC CONIC DISTANCE 383.528

RL	149.04	LAL	-.00	LOL	24.41	VL	27.305	GAL	1.33	AZL	74.40	HCA	168.70	SMA	128.18	ECC	.16434	INC	15.6032
RP	107.87	LAP	3.02	LOP	193.51	VP	37.753	GAP	-2.53	AZP	105.32	TAL	173.19	TAP	341.89	RCA	107.11	APO	149.24
RC	69.470	GL	62.81	GP	-75.01	ZAL	82.18	ZAP	78.35	ETS	47.00	ZAE	95.84	ETE	295.75	ZAC	98.58	ETC	153.23
V1	29.897																		
V2	35.132																		
CLP	-38.67																		

PLANETOCENTRIC CONIC

C3	68.141	VHL	8.255	OLA	42.87	RAL	294.52	RAD	6569.3	VEL	13.766	PTH	2.51	VHP	9.292	DPA	-69.53	RAP	59.40
ECC	2.1214																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
56.36	19 33 54	4512.57	-16.35	206.71	186.11	49.80	20 49 7	3912.6	-21.40	200.57
123.64	2 52 40	3167.51	-16.33	103.30	186.10	49.79	3 45 27	2567.5	-21.39	97.17
56.36	19 33 54	4512.57	-16.35	206.71	186.11	49.80	20 49 7	3912.6	-21.40	200.57
123.64	2 52 40	3167.51	-16.33	103.30	186.10	49.79	3 45 27	2567.5	-21.39	97.17
56.36	19 33 54	4512.57	-16.35	206.71	186.11	49.80	20 49 7	3912.6	-21.40	200.57
123.64	2 52 40	3167.51	-16.33	103.30	186.10	49.79	3 45 27	2567.5	-21.39	97.17

DIFFERENTIAL CORRECTIONS

TDE	-1.8372	TRA	-1.2233	TC3	.0628	BAU	.2336
RDE	4.6499	RRA	1.0724	RC3	-.2486	FAU	.00712
FDE	2.9052	FRA	.8466	FC3	-.0904	BSP	12053
BDE	4.9997	BRA	1.6268	BC3	.2564	FSP	-618

MID-COURSE EXECUTION ACCURACY

SGT	1726.1	SGR	3408.3	SG3	187.9		
RRT	-.9069	RRF	.9960	RTF	-.9365		
SGB	3820.5	R23	-.0043	R13	.9991		
SG1	3763.2	SG2	658.8	THA	115.51		

ORBIT DETERMINATION ACCURACY

ST	1321.7	SR	3241.8	SS	1630.4		
CRT	-.9852	CRS	-.9997	CST	.9892		
LSA	3856.3	MSA	209.8	SSA	2.1		
EL1	3494.6	EL2	209.8	ALF	111.97		

LAUNCH DATE OCT 18 1965 FLIGHT TIME 144.00 ARRIVAL DATE MAR 11 1966

HELIOCENTRIC CONIC DISTANCE 389.857

RL	149.04	LAL	-.00	LOL	24.41	VL	27.326	GAL	1.33	AZL	69.02	HCA	171.80	SMA	128.31	ECC	.16311	INC	20.9837
RP	107.90	LAP	2.93	LOP	196.74	VP	37.757	GAP	-2.10	AZP	110.79	TAL	173.14	TAP	344.94	RCA	107.38	APO	149.24
RC	71.643	GL	65.16	GP	-82.21	ZAL	84.03	ZAP	82.62	ETS	79.84	ZAE	87.89	ETE	329.27	ZAC	104.44	ETC	189.30
V1	29.897																		
V2	35.120																		
CLP	-18.70																		

PLANETOCENTRIC CONIC

C3	116.203	VHL	10.780	OLA	44.61	RAL	291.67	RAD	6570.2	VEL	15.412	PTH	2.75	VHP	12.444	DPA	-65.64	RAP	79.06
ECC	2.9124																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
53.97	19 13 6	4655.91	-11.43	215.07	189.86	46.58	20 30 42	4055.9	-16.86	209.42
126.03	2 50 48	3260.44	-11.42	107.13	189.85	46.58	3 45 9	2660.4	-16.85	101.49
53.97	19 13 6	4655.91	-11.43	215.07	189.86	46.58	20 30 42	4055.9	-16.86	209.42
126.03	2 50 48	3260.44	-11.42	107.13	189.85	46.58	3 45 9	2660.4	-16.85	101.49
53.97	19 13 6	4655.91	-11.43	215.07	189.86	46.58	20 30 42	4055.9	-16.86	209.42
126.03	2 50 48	3260.44	-11.42	107.13	189.85	46.58	3 45 9	2660.4	-16.85	101.49

DIFFERENTIAL CORRECTIONS

TDE	-6.3120	TRA	-1.8407	TC3	.0066	BAU	.0583
RDE	3.1202	RRA	.1916	RC3	-.0369	FAU	-.00231
FDE	2.6080	FRA	.6548	FC3	.0172	BSP	13112
BDE	7.0411	BRA	1.8507	BC3	.0375	FSP	-442

MID-COURSE EXECUTION ACCURACY

SGT	3625.5	SGR	1666.5	SG3	127.0		
RRT	-.9536	RRF	.9656	RTF	-.9983		
SGB	3990.2	R23	.0066	R13	.9993		
SG1	3963.7	SG2	458.8	THA	155.99		

ORBIT DETERMINATION ACCURACY

ST	3380.1	SR	1659.0	SS	1498.7		
CRT	-.9954	CRS	-.9968	CST	.9999		
LSA	4050.1	MSA	143.5	SSA	1.7		
EL1	3762.6	EL2	143.5	ALF	153.92		

LAUNCH DATE OCT 18 1965 FLIGHT TIME 146.00 ARRIVAL DATE MAR 13 1966

HELIOCENTRIC CONIC DISTANCE 395.997

RL	149.04	LAL	-.00	LOL	24.41	VL	27.342	GAL	1.38	AZL	57.48	HCA	174.73	SMA	128.43	ECC	.16223	INC	32.5239
RP	107.94	LAP	2.83	LOP	199.96	VP	37.757	GAP	-1.72	AZP	122.41	TAL	172.86	TAP	347.60	RCA	107.59	APO	149.26
RC	73.845	GL	64.72	GP	-81.30	ZAL	85.96	ZAP	85.99	ETS	173.27	ZAE	77.19	ETE	63.48	ZAC	112.91	ETC	287.36
V1	29.897																		
V2	35.108																		
CLP	62.45																		

PLANETOCENTRIC CONIC

C3	264.156	VHL	16.253	OLA	43.51	RAL	289.17	RAD	6571.5	VEL	19.633	PTH	3.12	VHP	19.399	DPA	-57.07	RAP	93.88
ECC	5.3473																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
55.46	19 8 59	4777.03	-4.88	219.77	194.03	46.70	20 28 36	4177.0	-10.33	214.27
124.54	2 34 57	3412.63	-4.86	114.64	194.02	46.70	3 31 49	2812.6	-10.31	109.15
55.46	19 8 59	4777.03	-4.88	219.77	194.03	46.70	20 28 36	4177.0	-10.33	214.27
124.54	2 34 57	3412.63	-4.86	114.64	194.02	46.70	3 31 49	2812.6	-10.31	109.15
55.46	19 8 59	4777.03	-4.88	219.77	194.03	46.70	20 28 36	4177.0	-10.33	214.27
124.54	2 34 57	3412.63	-4.86	114.64	194.02	46.70	3 31 49	2812.6	-10.31	109.15

DIFFERENTIAL CORRECTIONS

TDE	-3.0416	TRA	.1970	TC3	-.0721	BAU	.6645
RDE	-10.5827	RRA	-2.5774	RC3	-.1738	FAU	-.01659
FDE	2.6094	FRA	.6262	FC3	.0544	BSP	11750
BDE	11.0112	BRA	2.5849	BC3	.1882	FSP	-257

MID-COURSE EXECUTION ACCURACY

SGT	1101.8	SGR	3975.8	SG3	85.1		
RRT	.9161	RRF	-.9993	RTF	-.9203		
SGB	4125.6	R23	-.0146	R13	-.9992		
SG1	4103.4	SG2	428.1	THA	75.60		

ORBIT DETERMINATION ACCURACY

ST	1072.6	SR	3749.6	SS	1549.4		
CRT	.9919	CRS	1.0000	CST	.9921		
LSA	4194.5	MSA	131.4	SSA	1.7		
EL1	3897.8	EL2	130.9	ALF	74.14		

LAUNCH DATE OCT 18 1965 FLIGHT TIME 148.00 ARRIVAL DATE MAR 15 1966

HELIOCENTRIC CONIC DISTANCE 401.371

RL	149.04	LAL	-.00	LOL	24.41	VL	27.355	GAL	1.57	AZL	24.20	HCA	177.02	SMA	128.51	ECC	.16197	INC	65.7989
RP	107.98	LAP	2.72	LOP	203.18	VP	37.755	GAP	-1.55	AZP	155.77	TAL	171.84	TAP	348.86	RCA	107.70	APO	149.33
RC	76.070	GL	53.10	GP	-61.42	ZAL	87.73	ZAP	88.15	ETS	182.21	ZAE	56.93	ETE	71.01	ZAC	129.78	ETC	306.30
V1	29.897																		
V2	35.095																		
CLP	86.13																		

PLANETOCENTRIC CONIC

C3	972.679	VHL	31.188	OLA	31.55	RAL	289.44	RAD	6572.9	VEL	33.075	PTH	3.49	VHP	38.541	DPA	-37.28	RAP	105.15
ECC	17.0078																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
75.48	20 56 55	4569.95	.17	199.26	199.72	58.45	22 13 5	3969.9	-4.01	192.85
104.52	0 49 9	3837.34	.18	145.08	199.72	58.45	1 53 6	3237.3	-4.00	138.67
75.48	20 56 55	4569.95	.17	199.26	199.72	58.45	22 13 5	3969.9	-4.01	192.85
104.52	0 49 9	3837.34	.18	145.08	199.72	58.45	1 53 6	3237.3	-4.00	138.67
110.00	3 5 37	3413.60	-11.64	120.03	207.10	57.63	4 2 30	2813.6	-15.83	113.43
110.00	23 39 38	4041.68	11.99	153.30	192.34	57.75	24 47 0	3441.7	7.65	146.90

DIFFERENTIAL CORRECTIONS

TDE	-5.1973	TRA	1.1654	TC3	-.0947	BAU	3.5684
RDE	-16.6724	RRA	-5.0124	RC3	-.2575	FAU	-.06168
FDE	3.3732	FRA	1.0705	FC3	.0549	BSP	10817
BDE	17.4637	BRA	5.1461	BC3	.2744	FSP	-192

MID-COURSE EXECUTION ACCURACY

SGT	1150.6	SGR	3623.5	SG3	64.3		
RRT	.8640	RRF	-.9997	RTF	-.8590		
SGB	3801.8	R23	-.0510	R13	-.9985		
SG1	3760.6	SG2	558.2	THA	74.30		

ORBIT DETERMINATION ACCURACY

ST	957.9	SR	3080.4	SS	2076.7		
CRT	.9831	CRS	1.0000	CST	.9820		
LSA	3832.7	MSA	172.0	SSA	1.6		
EL1	3221.6	EL2	167.8	ALF	72.95		

LAUNCH DATE OCT 18 1965 FLIGHT TIME 150.00 ARRIVAL DATE MAR 17 1966

DISTANCE 411.191

HELIOCENTRIC CONIC

RL 149.04 LAL -.00 LOL 24.41 VL 27.364 GAL .94 AZL 142.53 HCA 183.28 SMA 128.58 ECC .15993 INC52.5263 V1 29.897
RP 108.02 LAP 2.60 LOP 206.40 VP 37.750 GAP -.23 AZP 37.52 TAL 175.06 TAP 358.34 RCA 108.01 APO 149.14 V2 35.082
RC 78.316 GL -58.55 GP 66.71 ZAL 87.89 ZAP 89.35 ETS 188.85 ZAE 74.07 ETE 294.57 ZAC 96.22 ETC 68.82 CLP 88.35

PLANETOCENTRIC CONIC

C3 647.879 VHL 25.453 DLA -74.84 RAL 341.85 RAD 6572.6 VEL 27.734 PTH 3.41 VHP 33.526 DPA 82.89 RAP 205.31 ECC11.6625

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
17.28	8 56 32	2426.55	1.17	80.61	251.52	164.84	9 36 58	1826.5	8.89	78.91
162.72	19 47 41	647.21	1.18	284.83	251.54	164.84	19 58 28	47.2	8.90	283.13
17.28	8 56 32	2426.55	1.17	80.61	251.52	164.84	9 36 58	1826.5	8.89	78.91
162.72	19 47 41	647.21	1.18	284.83	251.54	164.84	19 58 28	47.2	8.90	283.13
17.28	8 56 32	2426.55	1.17	80.61	251.52	164.84	9 36 58	1826.5	8.89	78.91
162.72	19 47 41	647.21	1.18	284.83	251.54	164.84	19 58 28	47.2	8.90	283.13

DIFFERENTIAL CORRECTIONS

TDE 4.2924 TRA-1.6417 TC3 -.1301 BAU 2.3947
RDE-2.8420 RRA 3.8896 RC3 .2439 FAU-.03949
FDE -.7914 FRA .8604 FC3 .0528 BSP 11771
BDE 5.1480 BRA 4.2218 BC3 .2765 FSP -208

MID-COURSE EXECUTION ACCURACY

SGT 1835.4 SGR 3627.5 SG3 69.8
RRT -.9268 RRF .9990 RTF -.9420
SGB 4065.4 R23 -.0317 R13 .9994
SG1 4017.5 SG2 622.2 THA 115.79

ORBIT DETERMINATION ACCURACY

ST 1055.3 SR 1191.3 SS 825.2
CRT -.8309 CRS -.9941 CST .8863
LSA 1729.8 MSA 470.9 SSA 1.0
EL1 1523.9 EL2 459.1 ALF 130.84

LAUNCH DATE OCT 18 1965 FLIGHT TIME 152.00 ARRIVAL DATE MAR 19 1966

DISTANCE 416.761

HELIOCENTRIC CONIC

RL 149.04 LAL -.00 LOL 24.41 VL 27.371 GAL 1.11 AZL 115.44 HCA 185.77 SMA 128.62 ECC .15986 INC25.4434 V1 29.897
RP 108.06 LAP 2.47 LOP 209.62 VP 37.742 GAP -.01 AZP 64.67 TAL 174.13 TAP 359.90 RCA 108.06 APO 149.18 V2 35.069
RC 80.581 GL -65.81 GP 84.60 ZAL 85.47 ZAP 89.21 ETS 227.25 ZAE 91.14 ETE 330.56 ZAC 80.65 ETC 103.60 CLP 81.61

PLANETOCENTRIC CONIC

C3 166.112 VHL 12.888 DLA -75.83 RAL 13.46 RAD 6570.8 VEL 16.954 PTH 2.92 VHP 17.596 DPA 70.75 RAP 274.07 ECC 3.7338

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
16.15	11 0 20	2272.74	11.47	79.20	280.51	165.53	11 38 13	1672.7	19.20	77.51
163.85	21 56 4	5777.19	11.47	260.20	280.53	165.53	23 32 21	5177.2	19.21	258.51
16.15	11 0 20	2272.74	11.47	79.20	280.51	165.53	11 38 13	1672.7	19.20	77.51
163.85	21 56 4	5777.19	11.47	260.20	280.53	165.53	23 32 21	5177.2	19.21	258.51
16.15	11 0 20	2272.74	11.47	79.20	280.51	165.53	11 38 13	1672.7	19.20	77.51
163.85	21 56 4	5777.19	11.47	260.20	280.53	165.53	23 32 21	5177.2	19.21	258.51

DIFFERENTIAL CORRECTIONS

TDE-1.4434 TRA-2.0380 TC3 -.0875 BAU .2412
RDE 2.2908 RRA 1.1811 RC3 .0644 FAU-.00350
FDE .7203 FRA .6053 FC3 .0182 BSP 13756
BDE 2.7076 BRA 2.3555 BC3 .1086 FSP -315

MID-COURSE EXECUTION ACCURACY

SGT 3762.3 SGR 2379.9 SG3 99.0
RRT -.9634 RRF .9869 RTF -.9936
SGB 4451.9 R23 -.0345 R13 .9991
SG1 4418.6 SG2 542.9 THA 148.10

ORBIT DETERMINATION ACCURACY

ST 1282.2 SR 1204.6 SS 698.7
CRT -.8855 CRS -.9722 CST .9697
LSA 1845.7 MSA 420.3 SSA 1.2
EL1 1708.4 EL2 420.1 ALF 137.02

LAUNCH DATE OCT 18 1965 FLIGHT TIME 154.00 ARRIVAL DATE MAR 21 1966

DISTANCE 422.851

HELIOCENTRIC CONIC

RL 149.04 LAL -.00 LOL 24.41 VL 27.375 GAL 1.20 AZL 105.59 HCA 188.74 SMA 128.65 ECC .15982 INC15.5874 V1 29.897
RP 108.10 LAP 2.34 LOP 212.83 VP 37.733 GAP .33 AZP 74.58 TAL 173.68 TAP 2.42 RCA 108.09 APO 149.21 V2 35.056
RC 82.862 GL -63.38 GP 85.77 ZAL 82.60 ZAP 89.92 ETS 340.08 ZAE 100.09 ETE 82.04 ZAC 72.48 ETC 211.95 CLP -88.98

PLANETOCENTRIC CONIC

C3 67.675 VHL 8.226 DLA -72.65 RAL 8.85 RAD 6569.3 VEL 13.749 PTH 2.51 VHP 11.613 DPA 61.70 RAP 281.97 ECC 2.1138

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
19.80	10 49 23	2078.74	23.35	73.33	271.08	161.05	11 24 1	1478.7	30.88	70.73
160.20	21 30 12	5598.07	23.35	258.01	271.11	161.05	23 3 31	4998.1	30.89	255.40
19.80	10 49 23	2078.74	23.35	73.33	271.08	161.05	11 24 1	1478.7	30.88	70.73
160.20	21 30 12	5598.07	23.35	258.01	271.11	161.05	23 3 31	4998.1	30.89	255.40
19.80	10 49 23	2078.74	23.35	73.33	271.08	161.05	11 24 1	1478.7	30.88	70.73
160.20	21 30 12	5598.07	23.35	258.01	271.11	161.05	23 3 31	4998.1	30.89	255.40

DIFFERENTIAL CORRECTIONS

TDE -.8485 TRA .0281 TC3 -.0432 BAU .2638
RDE-1.1164 RRA-1.8939 RC3 .2884 FAU .01105
FDE .5536 FRA .7215 FC3 -.1414 BSP 14238
BDE 1.4022 BRA 1.8941 BC3 .2916 FSP -487

MID-COURSE EXECUTION ACCURACY

SGT 598.8 SGR 4516.5 SG3 150.7
RRT .0500 RRF -.9983 RTF -.0963
SGB 4556.0 R23 .0456 R13 -.9984
SG1 4516.6 SG2 598.1 THA 89.61

ORBIT DETERMINATION ACCURACY

ST 591.3 SR 1538.2 SS 638.0
CRT .4764 CRS .9926 CST .5795
LSA 1691.5 MSA 511.3 SSA 1.7
EL1 1566.9 EL2 510.3 ALF 78.37

LAUNCH DATE OCT 18 1965 FLIGHT TIME 156.00 ARRIVAL DATE MAR 23 1966

DISTANCE 429.059

HELIOCENTRIC CONIC

RL 149.04 LAL -.00 LOL 24.41 VL 27.376 GAL 1.27 AZL 100.78 HCA 191.83 SMA 128.66 ECC .15991 INC10.7806 V1 29.897
RP 108.14 LAP 2.20 LOP 216.04 VP 37.722 GAP .71 AZP 79.44 TAL 173.31 TAP 5.15 RCA 108.08 APO 149.23 V2 35.043
RC 85.157 GL -57.99 GP 78.76 ZAL 79.57 ZAP 91.51 ETS 356.90 ZAE 106.40 ETE 98.08 ZAC 66.44 ETC 224.31 CLP -97.76

PLANETOCENTRIC CONIC

C3 36.447 VHL 6.037 DLA -68.23 RAL 358.43 RAD 6568.4 VEL 12.562 PTH 2.28 VHP 8.744 DPA 54.83 RAP 284.93 ECC 1.5998

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
24.92	10 18 45	1911.74	32.17	64.49	253.87	154.01	10 50 37	1311.7	39.28	60.39
155.08	20 37 44	5458.01	32.18	254.53	253.89	154.01	22 8 42	4858.0	39.29	250.42
24.92	10 18 45	1911.74	32.17	64.49	253.87	154.01	10 50 37	1311.7	39.28	60.39
155.08	20 37 44	5458.01	32.18	254.53	253.89	154.01	22 8 42	4858.0	39.29	250.42
24.92	10 18 45	1911.74	32.17	64.49	253.87	154.01	10 50 37	1311.7	39.28	60.39
155.08	20 37 44	5458.01	32.18	254.53	253.89	154.01	22 8 42	4858.0	39.29	250.42

DIFFERENTIAL CORRECTIONS

TDE -.5401 TRA .4512 TC3 -.3144 BAU .4269
RDE -.2602 RRA-1.6739 RC3 .8178 FAU .02327
FDE .2282 FRA .9586 FC3 -.5528 BSP 14378
BDE .5995 BRA 1.7336 BC3 .8761 FSP -716

MID-COURSE EXECUTION ACCURACY

SGT 1319.1 SGR 4402.6 SG3 220.4
RRT -.8943 RRF -.9988 RTF .8839
SGB 4596.0 R23 .0551 R13 -.9975
SG1 4560.5 SG2 569.7 THA 105.24

ORBIT DETERMINATION ACCURACY

ST 618.8 SR 1308.9 SS 579.7
CRT -.3937 CRS .9954 CST -.3035
LSA 1453.2 MSA 566.0 SSA 2.4
EL1 1336.3 EL2 557.1 ALF 102.81

LAUNCH DATE OCT 18 1965 FLIGHT TIME 158.00 ARRIVAL DATE MAR 25 1966

HELIOCENTRIC CONIC DISTANCE 435.298

RL	149.04	LAL	-.00	LOL	24.41	VL	27.374	GAL	1.34	AZL	97.96	HCA	194.97	SMA	128.65	ECC	.16017	INC	7.9587	VI	29.897
RP	108.18	LAP	2.05	LOP	219.24	VP	37.708	GAP	1.09	AZP	82.31	TAL	172.94	TAP	7.91	RCA	108.04	APO	149.25	V2	35.030
RC	87.465	GL	-51.54	GP	72.78	ZAL	76.52	ZAP	93.86	ETS	4.75	ZAE	111.42	ETE	105.81	ZAC	61.21	ETC	227.85	CLP	-103.15

PLANETOCENTRIC CONIC

C3	23.415	VHL	4.839	DLA	-62.75	RAL	349.71	RAD	6568.0	VEL	12.033	PTH	2.15	VHP	7.123	DPA	48.89	RAP	286.31	ECC	1.3853

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
31.34	9 58 41	1778.80	36.91	53.15	236.94	145.06	10 28 20	1178.8	43.31	47.27
148.66	19 48 15	5370.05	36.92	250.36	236.95	145.05	21 17 45	4770.1	43.32	244.49
31.34	9 58 41	1778.80	36.91	53.15	236.94	145.06	10 28 20	1178.8	43.31	47.27
148.66	19 48 15	5370.05	36.92	250.36	236.95	145.05	21 17 45	4770.1	43.32	244.49
31.34	9 58 41	1778.80	36.91	53.15	236.94	145.06	10 28 20	1178.8	43.31	47.27
148.66	19 48 15	5370.05	36.92	250.36	236.95	145.05	21 17 45	4770.1	43.32	244.49

DIFFERENTIAL CORRECTIONS								MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TDE	-.5034	TRA	.6207	TC3	-.7623	BAU	.4994	SGT	1864.4	SGR	4213.8	SG3	302.1	ST	766.6	SR	1204.0	SS	602.0
RDE	.1104	RRA	-1.5421	RC3	1.4014	FAU	.03543	RRT	-.9520	RRF	-.9986	RTF	.9463	CRT	-.7095	CRS	.9946	CST	-.6326
FDE	-.0040	FRA	1.2601	FC3	-1.3101	BSP	14424	SGB	4607.8	R23	.0633	R13	-.9967	LSA	1462.8	MSA	510.0	SSA	3.2
BDE	.5154	BRA	1.6623	BC3	1.5954	FSP	-984	SG1	4577.8	SG2	525.5	THA	113.16	EL1	1342.6	EL2	484.5	ALF	118.32

LAUNCH DATE OCT 18 1965 FLIGHT TIME 160.00 ARRIVAL DATE MAR 27 1966

HELIOCENTRIC CONIC DISTANCE 441.540

RL	149.04	LAL	-.00	LOL	24.41	VL	27.371	GAL	1.42	AZL	96.10	HCA	198.14	SMA	128.62	ECC	.16060	INC	6.1012	VI	29.897
RP	108.22	LAP	1.90	LOP	222.45	VP	37.693	GAP	1.47	AZP	84.20	TAL	172.53	TAP	10.66	RCA	107.97	APO	149.28	V2	35.016
RC	89.783	GL	-44.80	GP	67.35	ZAL	73.58	ZAP	96.85	ETS	10.36	ZAE	115.58	ETE	112.00	ZAC	56.40	ETC	229.33	CLP	-108.04

PLANETOCENTRIC CONIC

C3	17.033	VHL	4.127	DLA	-56.70	RAL	343.47	RAD	6567.7	VEL	11.765	PTH	2.08	VHP	6.117	DPA	43.44	RAP	286.94	ECC	1.2803

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
38.58	9 52 12	1668.94	38.15	40.69	222.40	135.72	10 20 1	1068.9	43.63	33.40
141.42	19 4 57	5328.61	38.16	246.85	222.41	135.71	20 33 46	4728.6	43.64	239.55
38.58	9 52 12	1668.94	38.15	40.69	222.40	135.72	10 20 1	1068.9	43.63	33.40
141.42	19 4 57	5328.61	38.16	246.85	222.41	135.71	20 33 46	4728.6	43.64	239.55
38.58	9 52 12	1668.94	38.15	40.69	222.40	135.72	10 20 1	1068.9	43.63	33.40
141.42	19 4 57	5328.61	38.16	246.85	222.41	135.71	20 33 46	4728.6	43.64	239.55

DIFFERENTIAL CORRECTIONS								MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TDE	-.4645	TRA	.7562	TC3	-1.3560	BAU	.5379	SGT	2307.4	SGR	3990.5	SG3	388.5	ST	863.7	SR	1126.5	SS	643.9
RDE	.1894	RRA	-1.4427	RC3	1.9341	FAU	.04729	RRT	-.9699	RRF	-.9983	RTF	.9654	CRT	-.8211	CRS	.9918	CST	-.7417
FDE	-.0944	FRA	1.5949	FC3	-2.4036	BSP	14398	SGB	4609.6	R23	.0725	R13	-.9958	LSA	1491.5	MSA	452.8	SSA	4.0
BDE	.5016	BRA	1.6288	BC3	2.3621	FSP	-1267	SG1	4583.6	SG2	489.0	THA	119.66	EL1	1359.4	EL2	408.6	ALF	125.94

LAUNCH DATE OCT 18 1965 FLIGHT TIME 162.00 ARRIVAL DATE MAR 29 1966

HELIOCENTRIC CONIC DISTANCE 447.774

RL	149.04	LAL	-.00	LOL	24.41	VL	27.365	GAL	1.51	AZL	94.78	HCA	201.31	SMA	128.58	ECC	.16119	INC	4.7815	VI	29.897
RP	108.26	LAP	1.74	LOP	225.65	VP	37.677	GAP	1.85	AZP	85.54	TAL	172.08	TAP	13.39	RCA	107.86	APO	149.31	V2	35.003
RC	92.112	GL	-38.20	GP	62.28	ZAL	70.84	ZAP	100.32	ETS	14.80	ZAE	119.03	ETE	117.72	ZAC	51.88	ETC	229.78	CLP	-112.66

PLANETOCENTRIC CONIC

C3	13.596	VHL	3.687	DLA	-50.54	RAL	339.15	RAD	6567.5	VEL	11.618	PTH	2.04	VHP	5.459	DPA	38.34	RAP	287.19	ECC	1.2238

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
46.21	9 57 17	1569.53	36.93	28.36	210.93	127.35	10 23 27	969.5	41.49	20.28
133.79	18 25 24	5326.84	36.94	245.29	210.94	127.34	19 54 11	4726.8	41.50	237.22
46.21	9 57 17	1569.53	36.93	28.36	210.93	127.35	10 23 27	969.5	41.49	20.28
133.79	18 25 24	5326.84	36.94	245.29	210.94	127.34	19 54 11	4726.8	41.50	237.22
46.21	9 57 17	1569.53	36.93	28.36	210.93	127.35	10 23 27	969.5	41.49	20.28
133.79	18 25 24	5326.84	36.94	245.29	210.94	127.34	19 54 11	4726.8	41.50	237.22

DIFFERENTIAL CORRECTIONS								MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TDE	-.3981	TRA	.8831	TC3	-2.0365	BAU	.5620	SGT	2702.1	SGR	3736.6	SG3	472.3	ST	896.8	SR	1022.2	SS	672.6
RDE	.1519	RRA	-1.3541	RC3	2.3267	FAU	.05811	RRT	-.9778	RRF	-.9979	RTF	.9736	CRT	-.8637	CRS	.9858	CST	-.7669
FDE	-.0590	FRA	1.9366	FC3	-3.7000	BSP	14362	SGB	4611.2	R23	.0820	R13	-.9946	LSA	1457.5	MSA	421.1	SSA	5.1
BDE	.4261	BRA	1.6166	BC3	3.0920	FSP	-1541	SG1	4588.2	SG2	460.9	THA	125.68	EL1	1313.6	EL2	351.8	ALF	130.68

LAUNCH DATE OCT 18 1965 FLIGHT TIME 164.00 ARRIVAL DATE MAR 31 1966

HELIOCENTRIC CONIC DISTANCE 453.994

RL	149.04	LAL	-.00	LOL	24.41	VL	27.357	GAL	1.62	AZL	93.79	HCA	204.48	SMA	128.53	ECC	.16195	INC	3.7910	VI	29.897
RP	108.31	LAP	1.57	LOP	228.84	VP	37.659	GAP	2.22	AZP	86.55	TAL	171.59	TAP	16.07	RCA	107.72	APO	149.35	V2	34.990
RC	94.449	GL	-31.99	GP	57.51	ZAL	68.37	ZAP	104.12	ETS	18.39	ZAE	121.84	ETE	123.23	ZAC	47.64	ETC	229.45	CLP	-117.01

PLANETOCENTRIC CONIC

C3	11.647	VHL	3.413	DLA	-44.60	RAL	336.18	RAD	6567.4	VEL	11.534	PTH	2.01	VHP	5.020	DPA	33.54	RAP	287.27	ECC	1.1917

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
53.98	10 12 31	1469.08	34.28	16.47	202.44	120.49	10 37 0	869.1	38.03	8.13
126.02	17 46 28	5361.19	34.29	246.42	202.44	120.48	19 15 49	4761.2	38.05	238.08
53.98	10 12 31	1469.08	34.28	16.47	202.44	120.49	10 37 0	869.1	38.03	8.13
126.02	17 46 28	5361.19	34.29	246.42	202.44	120.48	19 15 49	4761.2	38.05	238.08
53.98	10 12 31	1469.08	34.28	16.47	202.44	120.49	10 37 0	869.1	38.03	8.13
126.02	17 46 28	5361.19	34.29	246.42	202.44	120.48	19 15 49	4761.2	38.05	238.08

DIFFERENTIAL CORRECTIONS								MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TDE	-.3080	TRA	1.0071	TC3	-2.7315	BAU	.5823	SGT	3063.1	SGR	3463.3	SG3	547.3	ST	882.1	SR	909.0	SS	695.9
RDE	.0831	RRA	-1.2677	RC3	2.5546	FAU	.06760	RRT	-.9824	RRF	-.9974	RTF	.9783	CRT	-.8904	CRS	.9754	CST	-.7683
FDE	.0650	FRA	2.2581	FC3	-5.0246	BSP	14413	SGB	4623.5	R23	.0900	R13	-.9933	LSA	1389.1	MSA	398.9	SSA	6.4
BDE	.3190	BRA	1.6190	BC3	3.7399	FSP	-1796	SG1	4603.4	SG2	431.0	THA	131.43	EL1	1231.5	EL2	296.4	ALF	134.03

LAUNCH DATE OCT 18 1965 FLIGHT TIME 166.00 ARRIVAL DATE APR 2 1966

HELIOCENTRIC CONIC DISTANCE 460.197

RL 149.04 LAL -.00 LOL 24.41 VL 27.348 GAL 1.73 AZL 93.02 HCA 207.66 SMA 128.47 ECC .16287 INC 3.0165 V1 29.897
RP 108.35 LAP 1.40 LOP 232.04 VP 37.640 GAP 2.59 AZP 87.33 TAL 171.06 TAP 18.72 RCA 107.54 APO 149.39 V2 34.977
RC 96.794 GL -26.32 GP 53.02 ZAL 66.15 ZAP 108.11 ETS 21.29 ZAE 124.04 ETE 128.54 ZAC 43.73 ETC 228.42 CLP-121.11

PLANETOCENTRIC CONIC

C3 10.528 VHL 3.245 DLA -39.06 RAL 334.14 RAD 6567.4 VEL 11.486 PTH 2.00 VHP 4.728 DPA 29.02 RAP 287.29 ECC 1.1733

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
61.89	10 38 15	1355.24	30.97	4.49	196.43	115.09	11 0 50	755.2	34.07	356.16
118.11	17 4 28	5433.49	30.98	250.64	196.44	115.08	18 35 2	4833.5	34.08	242.30
61.89	10 38 15	1355.24	30.97	4.49	196.43	115.09	11 0 50	755.2	34.07	356.16
118.11	17 4 28	5433.49	30.98	250.64	196.44	115.08	18 35 2	4833.5	34.08	242.30
61.89	10 38 15	1355.24	30.97	4.49	196.43	115.09	11 0 50	755.2	34.07	356.16
118.11	17 4 28	5433.49	30.98	250.64	196.44	115.08	18 35 2	4833.5	34.08	242.30

DIFFERENTIAL CORRECTIONS

TDE -.2014 TRA 1.1291 TC3-3.3782 BAU .6012
RDE .0147 RRA-1.1834 RC3 2.6134 FAU .07510
FDE .2469 FRA 2.5423 FC3-6.1757 BSP 14520
BDE .2019 BRA 1.6356 BC3 4.2711 FSP -2011

MID-COURSE EXECUTION ACCURACY

SGT 3394.8 SGR 3181.0 SG3 608.9
RRT -.9850 RRF -.9966 RTF .9811
SGB 4652.3 R23 .0950 R13 -.9921
SG1 4634.8 SG2 402.4 THA 136.89

ORBIT DETERMINATION ACCURACY

ST 850.9 SR 809.3 SS 732.1
CRT -.9212 CRS .9617 CST -.7795
LSA 1331.9 MSA 375.7 SSA 8.0
EL1 1151.0 EL2 232.8 ALF 136.56

LAUNCH DATE OCT 18 1965 FLIGHT TIME 168.00 ARRIVAL DATE APR 4 1966

HELIOCENTRIC CONIC DISTANCE 466.382

RL 149.04 LAL -.00 LOL 24.41 VL 27.337 GAL 1.85 AZL 92.39 HCA 210.84 SMA 128.39 ECC .16394 INC 2.3908 V1 29.897
RP 108.39 LAP 1.23 LOP 235.23 VP 37.620 GAP 2.96 AZP 87.95 TAL 170.47 TAP 21.32 RCA 107.34 APO 149.44 V2 34.964
RC 99.145 GL -21.23 GP 48.82 ZAL 64.18 ZAP 112.15 ETS 23.61 ZAE 125.68 ETE 133.62 ZAC 40.18 ETC 226.70 CLP-124.94

PLANETOCENTRIC CONIC

C3 9.912 VHL 3.148 DLA -33.99 RAL 332.77 RAD 6567.4 VEL 11.459 PTH 1.99 VHP 4.540 DPA 24.80 RAP 287.35 ECC 1.1631

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
70.35	11 18 21	1208.00	27.46	350.96	192.33	110.87	11 38 29	608.0	30.05	342.74
109.65	16 13 26	5556.52	27.48	258.82	192.34	110.85	17 46 2	4956.5	30.06	250.60
70.35	11 18 21	1208.00	27.46	350.96	192.33	110.87	11 38 29	608.0	30.05	342.74
109.65	16 13 26	5556.52	27.48	258.82	192.34	110.85	17 46 2	4956.5	30.06	250.60
110.00	15 48 18	5633.18	25.47	263.89	191.42	113.61	17 22 11	5033.2	28.44	255.96
110.00	16 42 39	5467.38	29.50	252.69	193.15	108.10	18 13 46	4867.4	31.69	244.16

DIFFERENTIAL CORRECTIONS

TDE -.0831 TRA 1.2508 TC3-3.9321 BAU .6201
RDE -.0415 RRA-1.1028 RC3 2.5368 FAU .08040
FDE .4579 FRA 2.7793 FC3-7.0219 BSP 14677
BDE .0929 BRA 1.6675 BC3 4.6794 FSP -2173

MID-COURSE EXECUTION ACCURACY

SGT 3700.1 SGR 2901.3 SG3 654.9
RRT -.9865 RRF -.9955 RTF .9830
SGB 4701.9 R23 .0958 R13 -.9909
SG1 4686.9 SG2 375.6 THA 141.99

ORBIT DETERMINATION ACCURACY

ST 840.7 SR 731.7 SS 790.6
CRT -.9596 CRS .9483 CST -.8212
LSA 1322.3 MSA 344.3 SSA 9.8
EL1 1103.4 EL2 156.9 ALF 139.13

LAUNCH DATE OCT 18 1965 FLIGHT TIME 170.00 ARRIVAL DATE APR 6 1966

HELIOCENTRIC CONIC DISTANCE 472.548

RL 149.04 LAL -.00 LOL 24.41 VL 27.324 GAL 1.99 AZL 91.87 HCA 214.02 SMA 128.30 ECC .16518 INC 1.8721 V1 29.897
RP 108.43 LAP 1.05 LOP 238.42 VP 37.599 GAP 3.32 AZP 88.45 TAL 169.85 TAP 23.87 RCA 107.11 APO 149.50 V2 34.951
RC 101.502 GL -16.72 GP 44.92 ZAL 62.41 ZAP 116.16 ETS 25.46 ZAE 126.81 ETE 138.40 ZAC 37.04 ETC 224.31 CLP-128.51

PLANETOCENTRIC CONIC

C3 9.621 VHL 3.102 DLA -29.44 RAL 331.89 RAD 6567.3 VEL 11.446 PTH 1.99 VHP 4.430 DPA 20.90 RAP 287.49 ECC 1.1583

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
81.61	12 33 21	955.31	24.03	330.53	189.66	107.53	12 49 16	355.3	26.21	322.45
98.39	14 51 23	5797.44	24.05	275.70	189.66	107.51	16 28 1	5197.4	26.22	267.61
100.00	14 19 51	610.43	21.17	304.17	188.55	111.62	14 30 1	10.4	23.91	296.45
100.00	15 47 35	5617.55	26.98	263.27	190.56	103.38	17 21 12	5017.5	28.55	254.82
110.00	13 57 4	682.17	14.78	306.25	185.22	121.18	14 8 27	82.2	18.80	299.44
110.00	18 26 50	5118.57	34.03	226.63	191.76	93.40	19 52 9	4518.6	34.13	217.39

DIFFERENTIAL CORRECTIONS

TDE .0424 TRA 1.3724 TC3-4.3750 BAU .6400
RDE -.0822 RRA-1.0268 RC3 2.3694 FAU .08350
FDE .6740 FRA 2.9641 FC3-7.5136 BSP 14921
BDE .0925 BRA 1.7140 BC3 4.9754 FSP -2287

MID-COURSE EXECUTION ACCURACY

SGT 3980.6 SGR 2631.9 SG3 684.7
RRT -.9870 RRF -.9940 RTF .9842
SGB 4772.0 R23 .0923 R13 -.9899
SG1 4758.9 SG2 353.3 THA 146.66

ORBIT DETERMINATION ACCURACY

ST 880.5 SR 672.2 SS 866.6
CRT -.9901 CRS .9378 CST -.8807
LSA 1372.4 MSA 307.5 SSA 11.7
EL1 1105.2 EL2 75.2 ALF 142.71

LAUNCH DATE OCT 18 1965 FLIGHT TIME 172.00 ARRIVAL DATE APR 8 1966

HELIOCENTRIC CONIC DISTANCE 478.693

RL 149.04 LAL -.00 LOL 24.41 VL 27.310 GAL 2.14 AZL 91.43 HCA 217.20 SMA 128.21 ECC .16658 INC 1.4326 V1 29.897
RP 108.46 LAP .87 LOP 241.60 VP 37.577 GAP 3.69 AZP 88.86 TAL 169.18 TAP 26.38 RCA 106.85 APO 149.57 V2 34.939
RC 103.862 GL -12.75 GP 41.34 ZAL 60.81 ZAP 120.05 ETS 26.92 ZAE 127.50 ETE 142.79 ZAC 34.37 ETC 221.27 CLP-131.83

PLANETOCENTRIC CONIC

C3 9.556 VHL 3.091 DLA -25.36 RAL 331.38 RAD 6567.3 VEL 11.443 PTH 1.98 VHP 4.379 DPA 17.32 RAP 287.75 ECC 1.1573

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 47 3	1104.86	13.99	337.31	185.45	114.87	12 5 28	504.9	17.23	330.13
90.00	15 33 36	5645.22	27.98	265.47	189.37	94.54	17 7 41	5045.2	28.32	256.82
100.00	12 44 13	920.28	12.31	322.91	184.60	117.45	12 59 33	320.3	15.89	315.95
100.00	17 19 7	5305.03	29.84	240.56	189.49	91.82	18 47 32	4705.0	29.78	231.75
110.00	13 7 27	847.40	8.77	315.28	182.50	123.17	13 21 34	247.4	13.08	308.83
110.00	19 12 22	4950.67	33.94	213.54	189.38	85.66	20 34 53	4350.7	32.97	204.44

DIFFERENTIAL CORRECTIONS

TDE .1744 TRA 1.4968 TC3-4.6936 BAU .6591
RDE -.1097 RRA -.9580 RC3 2.1417 FAU .08424
FDE .8836 FRA 3.1033 FC3-7.6316 BSP 15156
BDE .2060 BRA 1.7772 BC3 5.1591 FSP -2337

MID-COURSE EXECUTION ACCURACY

SGT 4236.9 SGR 2378.2 SG3 699.0
RRT -.9866 RRF -.9920 RTF .9849
SGB 4858.7 R23 .0859 R13 -.9890
SG1 4846.8 SG2 339.4 THA 150.87

ORBIT DETERMINATION ACCURACY

ST 980.0 SR 624.8 SS 953.2
CRT -.9997 CRS .9301 CST -.9316
LSA 1478.0 MSA 273.1 SSA 13.5
EL1 1162.2 EL2 13.6 ALF 147.48

LAUNCH DATE OCT 18 1965 FLIGHT TIME 174.00 ARRIVAL DATE APR 10 1966

HELIOCENTRIC CONIC DISTANCE 484.818

RL	149.04	LAL	-.00	LOL	24.41	VL	27.295	GAL	2.31	AZL	91.05	HCA	220.38	SMA	128.10	ECC	.16815	INC	1.0532	VI	29.897
RP	108.50	LAP	.68	LOP	244.78	VP	37.554	GAP	4.04	AZP	89.20	TAL	168.46	TAP	28.85	RCA	106.56	APO	149.64	V2	34.926
RC	106.225	GL	-9.28	GP	38.06	ZAL	59.33	ZAP	123.78	ETS	28.08	ZAE	127.83	ETE	146.77	ZAC	32.19	ETC	217.65	CLP	-134.92

PLANETOCENTRIC CONIC

C3	9.657	VHL	3.108	DLA	-21.73	RAL	331.15	RAD	6567.3	VEL	11.448	PTH	1.99	VHP	4.373	DPA	14.07	RAP	288.14	ECC	1.1589

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 50 42	1301.38	8.09	348.73	183.56	117.23	11 12 23	701.4	11.67	341.89
90.00	16 28 7	5452.82	28.22	251.42	188.18	87.51	17 59 0	4852.8	27.57	242.81
100.00	11 56 50	1087.91	6.89	332.39	182.92	119.16	12 14 58	487.9	10.72	325.70
100.00	18 4 39	5141.52	29.58	228.42	188.09	85.45	19 30 21	4541.5	28.63	219.75
110.00	12 33 19	973.55	4.02	321.95	181.15	123.97	12 49 33	373.6	8.45	315.67
110.00	19 44 40	4828.65	32.92	204.17	187.60	80.21	21 5 8	4228.6	31.22	195.36

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	.3071	TRA	1.6208	TC3	-4.9135	BAU	.6804	SGT	4471.7	SGR	2144.6	SG3	700.1	ST	1122.7	SR	579.6	SS	1033.9
RDE	-.1231	RRA	-.8936	RC3	1.9052	FAU	.08360	RRT	-.9854	RRF	-.9894	RTF	.9855	CRT	-.9917	CRS	.9217	CST	-.9631
FDE	1.0653	FRA	3.1909	FC3	-7.4948	BSP	15487	SGB	4959.4	R23	.0759	R13	-.9884	LSA	1613.8	MSA	246.4	SSA	14.9
BDE	.3308	BRA	1.8509	BC3	5.2700	FSP	-2352	SG1	4948.4	SG2	329.5	THA	154.58	EL1	1261.7	EL2	66.2	ALF	152.81

LAUNCH DATE OCT 18 1965 FLIGHT TIME 176.00 ARRIVAL DATE APR 12 1966

HELIOCENTRIC CONIC DISTANCE 490.921

RL	149.04	LAL	-.00	LOL	24.41	VL	27.278	GAL	2.48	AZL	90.72	HCA	223.56	SMA	127.99	ECC	.16988	INC	.7206	VI	29.897
RP	108.54	LAP	.50	LOP	247.97	VP	37.531	GAP	4.40	AZP	89.48	TAL	167.71	TAP	31.27	RCA	106.25	APO	149.73	V2	34.914
RC	108.588	GL	-6.26	GP	35.10	ZAL	57.95	ZAP	127.31	ETS	29.00	ZAE	127.88	ETE	150.31	ZAC	30.51	ETC	213.55	CLP	-137.80

PLANETOCENTRIC CONIC

C3	9.888	VHL	3.145	DLA	-18.50	RAL	331.14	RAD	6567.4	VEL	11.458	PTH	1.99	VHP	4.404	DPA	11.14	RAP	288.68	ECC	1.1627

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 13 30	1443.03	3.60	356.72	182.82	118.11	10 37 33	843.0	7.33	350.03
90.00	17 5 16	5320.53	27.45	241.82	187.35	82.76	18 33 57	4720.5	26.16	233.39
100.00	11 23 43	1216.48	2.57	339.50	182.26	119.79	11 43 59	616.5	6.52	332.93
100.00	18 37 45	5022.31	28.61	219.70	187.16	80.96	20 1 27	4422.3	27.07	211.24
110.00	12 7 42	1078.65	.01	327.44	180.65	124.18	12 25 41	478.7	4.49	321.23
110.00	20 10 15	4732.90	31.58	197.02	186.47	76.18	21 29 8	4132.9	29.36	188.52

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	.4412	TRA	1.7469	TC3	-5.0387	BAU	.7017	SGT	4685.5	SGR	1932.7	SG3	690.4	ST	1292.0	SR	535.2	SS	1105.8
RDE	-.1268	RRA	-.8359	RC3	1.6696	FAU	.08154	RRT	-.9832	RRF	-.9859	RTF	.9858	CRT	-.9744	CRS	.9113	CST	-.9801
FDE	1.2197	FRA	3.2397	FC3	-7.1394	BSP	15866	SGB	5068.5	R23	.0651	R13	-.9879	LSA	1768.1	MSA	228.5	SSA	15.8
BDE	.4590	BRA	1.9366	BC3	5.3081	FSP	-2334	SG1	5057.9	SG2	326.5	THA	157.83	EL1	1394.0	EL2	111.4	ALF	157.87

LAUNCH DATE OCT 18 1965 FLIGHT TIME 178.00 ARRIVAL DATE APR 14 1966

HELIOCENTRIC CONIC DISTANCE 497.002

RL	149.04	LAL	-.00	LOL	24.41	VL	27.260	GAL	2.67	AZL	90.43	HCA	226.74	SMA	127.87	ECC	.17178	INC	.4250	VI	29.897
RP	108.58	LAP	.31	LOP	251.14	VP	37.507	GAP	4.76	AZP	89.71	TAL	166.92	TAP	33.66	RCA	105.91	APO	149.84	V2	34.903
RC	110.951	GL	-3.62	GP	32.41	ZAL	56.64	ZAP	130.63	ETS	29.76	ZAE	127.74	ETE	153.42	ZAC	29.34	ETC	209.14	CLP	-140.47

PLANETOCENTRIC CONIC

C3	10.228	VHL	3.198	DLA	-15.62	RAL	331.32	RAD	6567.4	VEL	11.472	PTH	1.99	VHP	4.465	DPA	8.51	RAP	289.36	ECC	1.1683

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 45 47	1558.40	-.12	3.16	182.80	118.32	10 11 45	958.4	3.67	356.53
90.00	17 34 24	5218.65	26.37	234.56	186.97	79.28	19 1 22	4618.7	24.62	226.33
100.00	10 58 31	1323.68	-1.06	345.38	182.27	119.88	11 20 35	723.7	2.92	338.86
100.00	19 4 20	4928.60	27.43	212.99	186.72	77.62	20 26 29	4328.6	25.44	204.75
110.00	11 47 39	1169.81	-3.48	332.20	180.76	124.03	12 7 9	569.8	1.01	326.00
110.00	20 31 42	4655.24	30.18	191.41	185.90	73.13	21 49 18	4055.2	27.57	183.18

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	.5756	TRA	1.8759	TC3	-5.0863	BAU	.7232	SGT	4881.1	SGR	1743.5	SG3	672.6	ST	1472.7	SR	490.8	SS	1165.2
RDE	-.1229	RRA	-.7845	RC3	1.4513	FAU	.07858	RRT	-.9800	RRF	-.9814	RTF	.9860	CRT	-.9519	CRS	.8969	CST	-.9890
FDE	1.3446	FRA	3.2568	FC3	-6.6513	BSP	16269	SGB	5183.1	R23	.0543	R13	-.9874	LSA	1928.7	MSA	217.7	SSA	16.2
BDE	.5885	BRA	2.0333	BC3	5.2893	FSP	-2289	SG1	5172.8	SG2	327.8	THA	160.63	EL1	1545.7	EL2	143.3	ALF	162.24

LAUNCH DATE OCT 18 1965 FLIGHT TIME 180.00 ARRIVAL DATE APR 16 1966

HELIOCENTRIC CONIC DISTANCE 503.060

RL	149.04	LAL	-.00	LOL	24.41	VL	27.241	GAL	2.88	AZL	90.16	HCA	229.91	SMA	127.75	ECC	.17385	INC	.1579	VI	29.897
RP	108.61	LAP	.12	LOP	254.32	VP	37.483	GAP	5.12	AZP	89.90	TAL	166.09	TAP	36.00	RCA	105.54	APO	149.96	V2	34.892
RC	113.313	GL	-1.32	GP	30.00	ZAL	55.38	ZAP	133.74	ETS	30.39	ZAE	127.44	ETE	156.13	ZAC	28.63	ETC	204.59	CLP	-142.97

PLANETOCENTRIC CONIC

C3	10.664	VHL	3.266	DLA	-13.05	RAL	331.64	RAD	6567.4	VEL	11.491	PTH	2.00	VHP	4.551	DPA	6.17	RAP	290.19	ECC	1.1755

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 24 1	1657.29	-3.30	8.68	183.28	118.14	9 51 39	1057.3	.48	2.05
90.00	17 58 44	5136.62	25.20	228.84	187.00	76.64	19 24 21	4536.6	23.11	220.79
100.00	10 38 35	1416.73	-4.21	350.50	182.78	119.62	11 2 12	816.7	-.23	343.97
100.00	19 26 51	4852.42	26.20	207.66	186.72	75.07	20 47 44	4252.4	23.89	199.62
110.00	11 31 34	1250.78	-6.55	336.46	181.33	123.63	11 52 25	650.8	-2.08	330.22
110.00	20 50 22	4591.14	28.83	186.91	185.81	70.78	22 6 53	3991.1	25.93	178.92

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	.7114	TRA	2.0094	TC3	-5.0636	BAU	.7436	SGT	5058.9	SGR	1575.8	SG3	649.1	ST	1657.2	SR	447.7	SS	1213.5
RDE	-.1142	RRA	-.7396	RC3	1.2516	FAU	.07477	RRT	-.9753	RRF	-.9757	RTF	.9859	CRT	-.9251	CRS	.8777	CST	-.9938
FDE	1.4447	FRA	3.2515	FC3	-6.0698	BSP	16663	SGB	5298.6	R23	.0451	R13	-.9869	LSA	2091.5	MSA	211.9	SSA	16.3
BDE	.7205	BRA	2.1412	BC3	5.2160	FSP	-2221	SG1	5288.1	SG2	333.1	THA	163.03	EL1	1708.7	EL2	164.9	ALF	165.83

LAUNCH DATE OCT 18 1965 FLIGHT TIME 182.00 ARRIVAL DATE APR 18 1966

DISTANCE 509.096

HELIOCENTRIC CONIC

RL 149.04 LAL -.00 LOL 24.41 VL 27.222 GAL 3.10 AZL 89.92 HCA 233.09 SMA 127.61 ECC .17611 INC .0825 V1 29.897
RP 108.64 LAP -.07 LOP 257.49 VP 37.459 GAP 5.48 AZP 90.05 TAL 165.23 TAP 38.31 RCA 105.14 APO 150.09 V2 34.881
RC 115.673 GL .68 GP 27.84 ZAL 54.16 ZAP 136.64 ETS 30.94 ZAE 127.05 ETE 158.48 ZAC 28.37 ETC 200.09 CLP-145.30

PLANETOCENTRIC CONIC

C3 11.189 VHL 3.345 DLA -10.75 RAL 332.08 RAD 6567.4 VEL 11.514 PTH 2.01 VHP 4.657 DPA 4.09 RAP 291.16 ECC 1.1841

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 6 27	1744.57	-6.09	13.59	184.14	117.71	9 35 32	1144.6	-2.33	6.92
90.00	18 19 50	5069.05	24.06	224.22	187.39	74.59	19 44 19	4469.1	21.71	216.34
100.00	10 22 26	1499.47	-6.97	355.08	183.66	119.14	10 47 25	899.5	-3.03	348.51
100.00	19 46 33	4789.39	25.02	203.34	187.08	73.09	21 6 22	4189.4	22.47	195.48
110.00	11 18 29	1323.90	-9.28	340.35	182.25	123.05	11 40 33	723.9	-4.87	334.05
110.00	21 6 59	4537.72	27.57	183.26	186.10	68.95	22 22 36	3937.7	24.46	175.47

DIFFERENTIAL CORRECTIONS

TDE .8492 TRA 2.1495 TC3-4.9820 BAU .7624
RDE -.1023 RRA -.7014 RC3 1.0734 FAU .07036
FDE 1.5242 FRA 3.2328 FC3-5.4441 BSP 17004
BDE .8553 BRA 2.2610 BC3 5.0963 FSP -2129

MID-COURSE EXECUTION ACCURACY

SGT 5222.0 SGR 1428.9 SG3 622.1
RRT -.9691 RRF -.9685 RTF .9856
SGB 5413.9 R23 .0378 R13 -.9864
SG1 5403.2 SG2 340.6 THA 165.09

ORBIT DETERMINATION ACCURACY

ST 1841.1 SR 407.1 SS 1252.3
CRT -.8932 CRS .8524 CST -.9964
LSA 2253.8 MSA 209.1 SSA 16.3
EL1 1877.0 EL2 179.6 ALF 168.72

LAUNCH DATE OCT 18 1965 FLIGHT TIME 184.00 ARRIVAL DATE APR 20 1966

DISTANCE 515.107

HELIOCENTRIC CONIC

RL 149.04 LAL -.00 LOL 24.41 VL 27.201 GAL 3.33 AZL 89.69 HCA 236.26 SMA 127.48 ECC .17856 INC .3059 V1 29.897
RP 108.68 LAP -.25 LOP 260.67 VP 37.434 GAP 5.84 AZP 90.17 TAL 164.33 TAP 40.59 RCA 104.71 APO 150.24 V2 34.870
RC 118.029 GL 2.42 GP 25.90 ZAL 52.97 ZAP 139.34 ETS 31.46 ZAE 126.60 ETE 160.50 ZAC 28.51 ETC 195.80 CLP-147.49

PLANETOCENTRIC CONIC

C3 11.801 VHL 3.435 DLA -8.69 RAL 332.63 RAD 6567.5 VEL 11.541 PTH 2.01 VHP 4.781 DPA 2.26 RAP 292.25 ECC 1.1942

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 52 1	1823.09	-8.55	18.04	185.31	117.10	9 22 24	1223.1	-4.85	11.32
90.00	18 38 36	5012.70	22.99	220.44	188.08	72.99	20 2 9	4412.7	20.44	212.69
100.00	10 9 8	1574.30	-9.43	359.28	184.84	118.50	10 35 23	974.3	-5.55	352.64
100.00	20 4 10	4736.72	23.93	199.81	187.75	71.53	21 23 7	4136.7	21.19	192.09
110.00	11 7 45	1390.76	-11.74	343.97	183.45	122.34	11 30 56	790.8	-7.39	337.58
110.00	21 22 2	4493.02	26.45	180.27	186.71	67.51	22 36 55	3893.0	23.16	172.65

DIFFERENTIAL CORRECTIONS

TDE .9847 TRA 2.2922 TC3-4.8684 BAU .7818
RDE -.0867 RRA -.6673 RC3 .9228 FAU .06601
FDE 1.5778 FRA 3.1969 FC3-4.8425 BSP 17412
BDE .9886 BRA 2.3873 BC3 4.9951 FSP -2041

MID-COURSE EXECUTION ACCURACY

SGT 5370.5 SGR 1300.2 SG3 592.9
RRT -.9613 RRF -.9598 RTF .9853
SGB 5525.6 R23 .0311 R13 -.9859
SG1 5514.6 SG2 348.8 THA 166.85

ORBIT DETERMINATION ACCURACY

ST 2013.4 SR 367.9 SS 1276.7
CRT -.8523 CRS .8170 CST -.9978
LSA 2403.2 MSA 208.4 SSA 16.1
EL1 2037.9 EL2 190.1 ALF 171.07

LAUNCH DATE OCT 18 1965 FLIGHT TIME 186.00 ARRIVAL DATE APR 22 1966

DISTANCE 521.093

HELIOCENTRIC CONIC

RL 149.04 LAL -.00 LOL 24.41 VL 27.180 GAL 3.58 AZL 89.49 HCA 239.43 SMA 127.34 ECC .18122 INC .5126 V1 29.897
RP 108.71 LAP -.44 LOP 263.84 VP 37.409 GAP 6.21 AZP 90.26 TAL 163.40 TAP 42.83 RCA 104.26 APO 150.41 V2 34.860
RC 120.382 GL 3.94 GP 24.17 ZAL 51.80 ZAP 141.86 ETS 31.96 ZAE 126.13 ETE 162.24 ZAC 28.98 ETC 191.84 CLP-149.54

PLANETOCENTRIC CONIC

C3 12.501 VHL 3.536 DLA -6.83 RAL 333.25 RAD 6567.5 VEL 11.571 PTH 2.02 VHP 4.921 DPA .66 RAP 293.46 ECC 1.2057

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 40 2	1894.75	-10.75	22.16	186.72	116.36	9 11 36	1294.7	-7.12	15.36
90.00	18 55 35	4965.40	22.01	217.32	189.01	71.72	20 18 20	4365.4	19.31	209.68
100.00	9 58 7	1642.86	-11.63	3.18	186.26	117.73	10 25 29	1042.9	-7.83	356.46
100.00	20 20 11	4692.52	22.95	196.90	188.66	70.30	21 38 23	4092.5	20.05	189.30
110.00	10 58 54	1452.53	-13.97	347.37	184.89	121.52	11 23 6	852.5	-9.70	340.88
110.00	21 35 53	4455.62	25.45	177.82	187.57	66.37	22 50 8	3855.6	22.03	170.33

DIFFERENTIAL CORRECTIONS

TDE 1.1209 TRA 2.4412 TC3-4.7200 BAU .7999
RDE -.0694 RRA -.6381 RC3 .7925 FAU .06151
FDE 1.6144 FRA 3.1539 FC3-4.2599 BSP 17799
BDE 1.1230 BRA 2.5232 BC3 4.7861 FSP -1948

MID-COURSE EXECUTION ACCURACY

SGT 5505.7 SGR 1187.9 SG3 562.7
RRT -.9516 RRF -.9491 RTF .9849
SGB 5632.4 R23 .0258 R13 -.9853
SG1 5621.1 SG2 357.6 THA 168.35

ORBIT DETERMINATION ACCURACY

ST 2176.7 SR 332.5 SS 1292.1
CRT -.8007 CRS .7703 CST -.9987
LSA 2544.4 MSA 208.8 SSA 15.9
EL1 2193.0 EL2 197.7 ALF 172.97

LAUNCH DATE OCT 18 1965 FLIGHT TIME 188.00 ARRIVAL DATE APR 24 1966

DISTANCE 527.054

HELIOCENTRIC CONIC

RL 149.04 LAL -.00 LOL 24.41 VL 27.158 GAL 3.85 AZL 89.29 HCA 242.60 SMA 127.19 ECC .18408 INC .7062 V1 29.897
RP 108.74 LAP -.63 LOP 267.01 VP 37.385 GAP 6.58 AZP 90.33 TAL 162.44 TAP 45.04 RCA 103.78 APO 150.60 V2 34.851
RC 122.731 GL 5.26 GP 22.61 ZAL 50.64 ZAP 144.20 ETS 32.47 ZAE 125.64 ETE 163.74 ZAC 29.74 ETC 188.28 CLP-151.48

PLANETOCENTRIC CONIC

C3 13.292 VHL 3.646 DLA -5.15 RAL 333.94 RAD 6567.5 VEL 11.605 PTH 2.03 VHP 5.074 DPA -.74 RAP 294.79 ECC 1.2187

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 30 0	1960.87	-12.71	26.02	188.34	115.52	9 2 40	1360.9	-9.18	19.13
90.00	19 11 8	4925.64	21.14	214.73	190.16	70.71	20 33 14	4325.6	18.31	207.19
100.00	9 48 54	1706.31	-13.61	6.85	187.88	116.87	10 17 21	1106.3	-9.90	.03
100.00	20 34 55	4655.44	22.08	194.49	189.79	69.32	21 52 30	4055.4	19.06	186.99
110.00	10 51 35	1510.08	-15.99	350.61	186.53	120.62	11 16 45	910.1	-11.81	344.00
110.00	21 48 43	4424.43	24.58	175.81	188.65	65.46	23 2 28	3824.4	21.06	168.43

DIFFERENTIAL CORRECTIONS

TDE 1.2580 TRA 2.5966 TC3-4.5460 BAU .8168
RDE -.0511 RRA -.6129 RC3 .6809 FAU .05703
FDE 1.6380 FRA 3.1061 FC3-3.7148 BSP 18172
BDE 1.2590 BRA 2.6680 BC3 4.5967 FSP -1853

MID-COURSE EXECUTION ACCURACY

SGT 5628.9 SGR 1090.2 SG3 532.5
RRT -.9399 RRF -.9365 RTF .9844
SGB 5733.5 R23 .0215 R13 -.9847
SG1 5721.8 SG2 366.2 THA 169.64

ORBIT DETERMINATION ACCURACY

ST 2330.1 SR 301.4 SS 1300.2
CRT -.7360 CRS .7100 CST -.9992
LSA 2677.0 MSA 209.8 SSA 15.7
EL1 2340.7 EL2 203.1 ALF 174.52

LAUNCH DATE OCT 18 1965 FLIGHT TIME 190.00 ARRIVAL DATE APR 26 1966

HELIOCENTRIC CONIC DISTANCE 532.989

RL	149.04	LAL	-.00	LOL	24.41	VL	27,135	GAL	4.14	AZL	89.11	HCA	245.77	SMA	127,04	ECC	.18717	INC	.8889
RP	108.76	LAP	-.81	LOP	270.17	VP	37,360	GAP	6.95	AZP	90.36	TAL	161.46	TAP	47.23	RCA	103.26	APO	150.82
RC	125.075	GL	6.40	GP	21.21	ZAL	49.50	ZAP	146.39	ETS	33.01	ZAE	125.17	ETE	165.03	ZAC	30.74	ETC	185.14

V1	29.897	V2	34.842	CLP	-153.31														

PLANETOCENTRIC CONIC

C3	14.178	VHL	3.765	DLA	-3.64	RAL	334.69	RAD	6567.6	VEL	11.643	PTH	2.04	VHP	5.241	DPA	-1.96	RAP	296.21

ECC	1.2333																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 21 34	2022.46	-14.49	29.67	190.13	114.60	8 55 16	1422.5	-11.05	22.68
90.00	19 25 32	4892.30	20.37	212.58	191.48	69.90	20 47 5	4292.3	17.45	205.12
100.00	9 41 12	1765.55	-15.41	10.33	189.69	115.94	10 10 38	1165.5	-11.79	3.40
100.00	20 48 35	4624.45	21.32	192.50	191.10	68.53	22 5 39	4024.4	18.21	185.08
110.00	10 45 33	1564.12	-17.84	353.71	188.35	119.65	11 11 37	964.1	-13.76	346.97
110.00	22 0 44	4398.64	23.84	174.17	189.92	64.75	23 14 2	3798.6	20.24	166.88

DIFFERENTIAL CORRECTIONS

TDE	1.3991	TRA	2.7627	TC3	-4.3456	BAU	.8311
RDE	-.0327	RRA	-.5921	RC3	.5839	FAU	.05247
FDE	1.6545	FRA	3.0605	FC3	-3.2039	BSP	18446
BDE	1.3994	BRA	2.8255	BC3	4.3846	FSP	-1748

MID-COURSE EXECUTION ACCURACY

SGT	5743.3	SGR	1005.4	SG3	503.3		
RRT	-.9261	RRF	-.9218	RTF	.9837		
SGB	5830.7	R23	.0183	R13	-.9840		
SG1	5818.6	SG2	374.4	THA	170.75		

ORBIT DETERMINATION ACCURACY

ST	2477.6	SR	275.7	SS	1304.9		
CRT	-.6580	CRS	.6362	CST	-.9995		
LSA	2805.8	MSA	210.9	SSA	15.5		
EL1	2484.3	EL2	207.0	ALF	175.78		

LAUNCH DATE OCT 18 1965 FLIGHT TIME 192.00 ARRIVAL DATE APR 28 1966

HELIOCENTRIC CONIC DISTANCE 538.894

RL	149.04	LAL	-.00	LOL	24.41	VL	27,112	GAL	4.44	AZL	88.94	HCA	248.93	SMA	126.89	ECC	.19051	INC	1.0625
RP	108.79	LAP	-.99	LOP	273.34	VP	37,335	GAP	7.33	AZP	90.38	TAL	160.45	TAP	49.39	RCA	102.71	APO	151.06
RC	127.413	GL	7.40	GP	19.96	ZAL	48.38	ZAP	148.44	ETS	33.61	ZAE	124.70	ETE	166.14	ZAC	31.94	ETC	182.42

V1	29.897	V2	34.834	CLP	-155.04														

PLANETOCENTRIC CONIC

C3	15.168	VHL	3.895	DLA	-2.26	RAL	335.49	RAD	6567.6	VEL	11.686	PTH	2.06	VHP	5.421	DPA	-3.00	RAP	297.72

ECC	1.2496																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 14 29	2080.25	-16.10	33.15	192.08	113.61	8 49 9	1480.3	-12.77	26.06
90.00	19 38 58	4864.54	19.71	210.81	192.96	69.25	21 0 2	4264.5	16.71	203.42
100.00	9 34 46	1821.26	-17.04	13.67	191.64	114.94	10 5 7	1221.3	-13.53	6.63
100.00	21 1 22	4598.76	20.67	190.87	192.56	67.91	22 18 0	3998.8	17.49	183.51
110.00	10 40 36	1615.19	-19.53	356.70	190.31	118.63	11 7 31	1015.2	-15.56	349.83
110.00	22 12 1	4377.59	23.22	172.85	191.34	64.18	23 24 59	3777.6	19.56	165.63

DIFFERENTIAL CORRECTIONS

TDE	1.5381	TRA	2.9332	TC3	-4.1398	BAU	.8457
RDE	-.0130	RRA	-.5736	RC3	.5028	FAU	.04825
FDE	1.6579	FRA	3.0098	FC3	-2.7541	BSP	18791
BDE	1.5381	BRA	2.9887	BC3	4.1702	FSP	-1657

MID-COURSE EXECUTION ACCURACY

SGT	5845.3	SGR	931.1	SG3	474.7		
RRT	-.9101	RRF	-.9049	RTF	.9831		
SGB	5919.0	R23	.0153	R13	-.9833		
SG1	5906.7	SG2	381.9	THA	171.72		

ORBIT DETERMINATION ACCURACY

ST	2609.1	SR	254.3	SS	1301.3		
CRT	-.5615	CRS	.5436	CST	-.9997		
LSA	2919.0	MSA	212.3	SSA	15.3		
EL1	2613.1	EL2	210.1	ALF	176.85		

LAUNCH DATE OCT 18 1965 FLIGHT TIME 194.00 ARRIVAL DATE APR 30 1966

HELIOCENTRIC CONIC DISTANCE 544.770

RL	149.04	LAL	-.00	LOL	24.41	VL	27.088	GAL	4.77	AZL	88.77	HCA	252.10	SMA	126.73	ECC	.19409	INC	1.2290
RP	108.81	LAP	-1.17	LOP	276.50	VP	37,311	GAP	7.72	AZP	90.38	TAL	159.42	TAP	51.52	RCA	102.13	APO	151.33
RC	129.747	GL	8.25	GP	18.84	ZAL	47.26	ZAP	150.36	ETS	34.27	ZAE	124.25	ETE	167.11	ZAC	33.30	ETC	180.09

V1	29.897	V2	34.826	CLP	-156.69														

PLANETOCENTRIC CONIC

C3	16.271	VHL	4.034	DLA	-1.01	RAL	336.32	RAD	6567.7	VEL	11.733	PTH	2.07	VHP	5.612	DPA	-3.90	RAP	299.32

ECC	1.2678																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 8 32	2134.86	-17.56	36.50	194.16	112.58	8 44 7	1534.9	-14.35	29.29
90.00	19 51 33	4841.67	19.15	209.37	194.57	68.74	21 12 15	4241.7	16.10	202.03
100.00	9 29 24	1873.99	-18.52	16.88	193.73	113.89	10 0 38	1274.0	-15.13	9.72
100.00	21 13 22	4577.78	20.13	189.54	194.16	67.42	22 29 39	3977.8	16.89	182.24
110.00	10 36 34	1663.75	-21.09	359.60	192.41	117.55	11 4 18	1063.7	-17.23	352.60
110.00	22 22 41	4360.78	22.72	171.81	192.89	63.75	23 35 22	3760.8	19.01	164.64

DIFFERENTIAL CORRECTIONS

TDE	1.6783	TRA	3.1122	TC3	-3.9259	BAU	.8592
RDE	.0071	RRA	-.5577	RC3	.4337	FAU	.04425
FDE	1.6542	FRA	2.9601	FC3	-2.3543	BSP	19118
BDE	1.6783	BRA	3.1617	BC3	3.9497	FSP	-1569

MID-COURSE EXECUTION ACCURACY

SGT	5938.1	SGR	866.1	SG3	447.4		
RRT	-.8918	RRF	-.8857	RTF	.9825		
SGB	6001.0	R23	.0128	R13	-.9826		
SG1	5988.4	SG2	388.6	THA	172.56		

ORBIT DETERMINATION ACCURACY

ST	2729.7	SR	238.1	SS	1293.4		
CRT	-.4494	CRS	.4355	CST	-.9998		
LSA	3022.4	MSA	213.7	SSA	15.1		
EL1	2731.8	EL2	212.6	ALF	177.74		

LAUNCH DATE OCT 18 1965 FLIGHT TIME 196.00 ARRIVAL DATE MAY 2 1966

HELIOCENTRIC CONIC DISTANCE 550.613

RL	149.04	LAL	-.00	LOL	24.41	VL	27.063	GAL	5.11	AZL	88.61	HCA	255.26	SMA	126.57	ECC	.19796	INC	1.3894
RP	108.84	LAP	-1.34	LOP	279.67	VP	37,286	GAP	8.12	AZP	90.35	TAL	158.37	TAP	53.64	RCA	101.51	APO	151.63
RC	132.074	GL	8.99	GP	17.82	ZAL	46.16	ZAP	152.16	ETS	35.02	ZAE	123.83	ETE	167.95	ZAC	34.78	ETC	178.11

V1	29.897	V2	34.819	CLP	-158.26														

PLANETOCENTRIC CONIC

C3	17.497	VHL	4.183	DLA	.12	RAL	337.18	RAD	6567.7	VEL	11.785	PTH	2.08	VHP	5.816	DPA	-4.65	RAP	300.98

ECC	1.2880																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 3 33	2186.76	-18.88	39.73	196.36	111.50	8 40 0	1586.8	-15.80	32.41
90.00	20 3 24	4823.20	18.69	208.20	196.31	68.34	21 23 47	4223.2	15.59	200.91
100.00	9 24 57	1924.19	-19.87	19.99	195.93	112.80	9 57 1	1324.2	-16.61	12.71
100.00	21 24 41	4560.99	19.68	188.49	195.88	67.04	22 40 42	3961.0	16.40	181.23
110.00	10 33 19	1710.16	-22.52	2.44	194.63	116.42	11 1 50	1110.2	-18.79	355.30
110.00	22 32 48	4347.78	22.33	171.00	194.57	63.42	23 45 16	3747.8	18.58	163.87

DIFFERENTIAL CORRECTIONS

TDE	1.8216	TRA	3.3012	TC3	-3.7030	BAU	.8706
RDE	.0273	RRA	-.5440	RC3	.3739	FAU	.04036
FDE	1.6469	FRA	2.9130	FC3	-1.9970	BSP	19410
BDE	1.8218	BRA	3.3457	BC3	3.7218	FSP	-1483

MID-COURSE EXECUTION ACCURACY

SGT	6022.4	SGR	809.0	SG3	421.5		
RRT	-.8713	RRF	-.8643	RTF	.9818		
SGB	6076.5	R23	.0106	R13	-.9819		
SG1	6063.7	SG2	394.4	THA	173.30		

ORBIT DETERMINATION ACCURACY

ST	2841.6	SR	226.9	SS	1283.4		
CRT	-.3270	CRS	.3170	CST	-.9999		
LSA	3118.8	MSA	214.8	SSA	14.9		
EL1	2842.6	EL2	214.3	ALF	178.50		

LAUNCH DATE OCT 18 1965 FLIGHT TIME 198.00 ARRIVAL DATE MAY 4 1966

HELIOCENTRIC CONIC DISTANCE 556.422

RL 149.04 LAL -.00 LOL 24.41 VL 27.039 GAL 5.48 AZL 88.45 HCA 258.43 SMA 126.41 ECC .20213 INC 1.5452 V1 29.897
RP 108.86 LAP -1.51 LOP 282.83 VP 37.262 GAP 8.53 AZP 90.31 TAL 157.31 TAP 55.73 RCA 100.86 APO 151.96 V2 34.812
RC 134.395 GL 9.62 GP 16.91 ZAL 45.07 ZAP 153.86 ETS 35.87 ZAE 123.43 ETE 168.68 ZAC 36.37 ETC 176.43 CLP-159.76

PLANETOCENTRIC CONIC

C3 18.860 VHL 4.343 DLA 1.16 RAL 338.06 RAD 6567.8 VEL 11.842 PTH 2.10 VHP 6.031 DPA -5.27 RAP 302.71 ECC 1.3104

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 59 25	2236.33	-20.09	42.86	198.66	110.38	8 36 41	1636.3	-17.14	35.44
90.00	20 14 35	4808.68	18.33	207.30	198.14	68.03	21 34 44	4208.7	15.19	200.03
100.00	9 21 17	1972.22	-21.11	23.02	198.25	111.67	9 54 10	1372.2	-17.98	15.62
100.00	21 35 23	4548.02	19.34	187.69	197.70	66.75	22 51 11	3948.0	16.03	180.46
110.00	10 30 46	1754.75	-23.85	5.23	196.96	115.25	11 0 1	1154.7	-20.25	357.94
110.00	22 42 24	4338.26	22.04	170.42	196.35	63.18	23 54 42	3738.3	18.26	163.32

DIFFERENTIAL CORRECTIONS
TOE 1.9667 TRA 3.4997 TC3-3.4788 BAU .8805
ROE .0478 RRA -.5321 RC3 .3227 FAU .03672
FOE 1.6354 FRA 2.8677 FC3-1.6858 BSP 19690
BOE 1.9673 BRA 3.5400 BC3 3.4937 FSP -1402

MID-COURSE EXECUTION ACCURACY
SGT 6098.4 SGR 758.6 SG3 397.1
RRT -.8486 RRF -.8408 RTF .9812
SGB 6145.4 R23 .0087 R13 -.9813
SG1 6132.4 SG2 399.2 THA 173.95

ORBIT DETERMINATION ACCURACY
ST 2942.8 SR 220.0 SS 1270.7
CRT -.1991 CRS .1928 CST -.9999
LSA 3205.7 MSA 215.8 SSA 14.7
EL1 2943.2 EL2 215.6 ALF 179.14

LAUNCH DATE OCT 18 1965 FLIGHT TIME 200.00 ARRIVAL DATE MAY 6 1966

HELIOCENTRIC CONIC DISTANCE 562.194

RL 149.04 LAL -.00 LOL 24.41 VL 27.014 GAL 5.86 AZL 88.30 HCA 261.59 SMA 126.25 ECC .20661 INC 1.6974 V1 29.897
RP 108.87 LAP -1.68 LOP 285.99 VP 37.239 GAP 8.95 AZP 90.25 TAL 156.23 TAP 57.82 RCA 100.16 APO 152.33 V2 34.806
RC 136.709 GL 10.16 GP 16.08 ZAL 44.00 ZAP 155.45 ETS 36.84 ZAE 123.05 ETE 169.32 ZAC 38.05 ETC 175.02 CLP-161.21

PLANETOCENTRIC CONIC

C3 20.377 VHL 4.514 DLA 2.10 RAL 338.96 RAD 6567.8 VEL 11.906 PTH 2.12 VHP 6.260 DPA -5.77 RAP 304.50 ECC 1.3353

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 56 0	2283.92	-21.19	45.92	201.07	109.24	8 34 4	1683.9	-18.37	38.38
90.00	20 25 10	4797.78	18.05	206.62	200.07	67.80	21 45 8	4197.8	14.88	199.38
100.00	9 18 19	2018.39	-22.24	25.98	200.66	110.50	9 51 58	1418.4	-19.25	18.47
100.00	21 45 32	4538.54	19.08	187.10	199.61	66.54	23 1 11	3938.5	15.75	179.89
110.00	10 28 49	1797.77	-25.07	7.97	199.39	114.04	10 58 46	1197.8	-21.61	.53
110.00	22 51 32	4331.93	21.84	170.03	198.23	63.03	24 3 44	3731.9	18.05	162.95

DIFFERENTIAL CORRECTIONS
TOE 2.1177 TRA 3.7121 TC3-3.2475 BAU .8879
ROE .0681 RRA -.5219 RC3 .2774 FAU .03313
FOE 1.6245 FRA 2.8280 FC3-1.4074 BSP 19878
BOE 2.1188 BRA 3.7486 BC3 3.2593 FSP -1318

MID-COURSE EXECUTION ACCURACY
SGT 6168.5 SGR 713.9 SG3 374.3
RRT -.8237 RRF -.8152 RTF .9805
SGB 6209.7 R23 .0071 R13 -.9806
SG1 6196.6 SG2 402.9 THA 174.53

ORBIT DETERMINATION ACCURACY
ST 3038.7 SR 217.0 SS 1258.5
CRT -.0754 CRS .0721 CST -.9999
LSA 3289.0 MSA 216.4 SSA 14.5
EL1 3038.7 EL2 216.3 ALF 179.69

LAUNCH DATE OCT 18 1965 FLIGHT TIME 202.00 ARRIVAL DATE MAY 8 1966

HELIOCENTRIC CONIC DISTANCE 567.926

RL 149.04 LAL -.00 LOL 24.41 VL 26.988 GAL 6.28 AZL 88.15 HCA 264.75 SMA 126.08 ECC .21145 INC 1.8472 V1 29.897
RP 108.89 LAP -1.84 LOP 289.16 VP 37.215 GAP 9.39 AZP 90.17 TAL 155.13 TAP 59.88 RCA 99.42 APO 152.74 V2 34.801
RC 139.015 GL 10.61 GP 15.34 ZAL 42.94 ZAP 156.96 ETS 37.94 ZAE 122.70 ETE 169.89 ZAC 39.80 ETC 173.82 CLP-162.60

PLANETOCENTRIC CONIC

C3 22.065 VHL 4.697 DLA 2.96 RAL 339.87 RAD 6567.9 VEL 11.977 PTH 2.13 VHP 6.302 DPA -6.16 RAP 306.33 ECC 1.3631

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 53 14	2329.77	-22.19	48.91	203.56	108.06	8 32 4	1729.8	-19.51	41.26
90.00	20 35 12	4790.21	17.85	206.15	202.09	67.65	21 55 2	4190.2	14.67	198.92
100.00	9 15 57	2062.95	-23.28	28.89	203.16	109.30	9 50 20	1462.9	-20.43	21.25
100.00	21 55 10	4532.27	18.91	186.71	201.61	66.41	23 10 42	3932.3	15.56	179.52
110.00	10 27 22	1839.43	-26.19	10.69	201.92	112.79	10 58 2	1239.4	-22.88	3.10
110.00	23 0 14	4328.55	21.74	169.82	200.19	62.95	24 12 23	3728.5	17.94	162.75

DIFFERENTIAL CORRECTIONS
TOE 2.2687 TRA 3.9327 TC3-3.0240 BAU .8948
ROE .0891 RRA -.5123 RC3 .2389 FAU .02987
FOE 1.6089 FRA 2.7886 FC3-1.1722 BSP 20127
BOE 2.2705 BRA 3.9659 BC3 3.0334 FSP -1245

MID-COURSE EXECUTION ACCURACY
SGT 6229.0 SGR 673.6 SG3 352.7
RRT -.7967 RRF -.7874 RTF .9800
SGB 6265.3 R23 .0056 R13 -.9800
SG1 6252.1 SG2 405.6 THA 175.06

ORBIT DETERMINATION ACCURACY
ST 3121.1 SR 217.0 SS 1243.0
CRT .0436 CRS -.0440 CST -.9999
LSA 3359.5 MSA 216.8 SSA 14.3
EL1 3121.1 EL2 216.8 ALF .17

LAUNCH DATE OCT 18 1965 FLIGHT TIME 204.00 ARRIVAL DATE MAY 10 1966

HELIOCENTRIC CONIC DISTANCE 573.612

RL 149.04 LAL -.00 LOL 24.41 VL 26.963 GAL 6.72 AZL 88.00 HCA 267.91 SMA 125.92 ECC .21668 INC 1.9954 V1 29.897
RP 108.90 LAP -1.99 LOP 292.32 VP 37.192 GAP 9.84 AZP 90.07 TAL 154.03 TAP 61.94 RCA 98.63 APO 153.20 V2 34.797
RC 141.312 GL 10.98 GP 14.66 ZAL 41.90 ZAP 158.39 ETS 39.19 ZAE 122.37 ETE 170.39 ZAC 41.60 ETC 172.82 CLP-163.94

PLANETOCENTRIC CONIC

C3 23.947 VHL 4.894 DLA 3.74 RAL 340.79 RAD 6568.0 VEL 12.055 PTH 2.15 VHP 6.758 DPA -6.46 RAP 308.20 ECC 1.3941

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 51 2	2374.12	-23.09	51.85	206.13	106.86	8 30 36	1774.1	-20.57	44.09
90.00	20 44 42	4785.74	17.74	205.87	204.17	67.56	22 4 28	4185.7	14.54	198.65
100.00	9 14 8	2106.10	-24.22	31.75	205.74	108.08	9 49 14	1506.1	-21.52	23.99
100.00	22 4 18	4528.99	18.82	186.51	203.69	66.34	23 19 47	3929.0	15.46	179.32
110.00	10 26 23	1879.93	-27.23	13.38	204.53	111.50	10 57 43	1279.9	-24.07	5.64
110.00	23 8 32	4327.92	21.72	169.78	202.22	62.93	24 20 40	3727.9	17.91	162.72

DIFFERENTIAL CORRECTIONS
TDE 2.4234 TRA 4.1658 TC3-2.8037 BAU .9000
RDE .1103 RRA -.5035 RC3 .2054 FAU .02682
FDE 1.5924 FRA 2.7527 FC3 -.9695 BSP 20361
BDE 2.4259 BRA 4.1961 BC3 2.8112 FSP -1177

MID-COURSE EXECUTION ACCURACY
SGT 6282.7 SGR 637.3 SG3 332.5
RRT -.7675 RRF -.7577 RTF .9795
SGB 6314.9 R23 .0043 R13 -.9795
SG1 6301.8 SG2 407.3 THA 175.53

ORBIT DETERMINATION ACCURACY
ST 3194.9 SR 219.4 SS 1226.9
CRT .1514 CRS -.1495 CST -.9999
LSA 3422.5 MSA 216.9 SSA 14.1
EL1 3195.1 EL2 216.8 ALF .60

LAUNCH DATE OCT 18 1965 FLIGHT TIME 206.00 ARRIVAL DATE MAY 12 1966

HELIOCENTRIC CONIC DISTANCE 579.249

RL 149.04 LAL -.00 LOL 24.41 VL 26.937 GAL 7.19 AZL 87.86 HCA 271.07 SMA 125.75 ECC .22232 INC 2.1429 VI 29.897
RP 108.92 LAP -2.14 LOP 295.48 VP 37.170 GAP 10.32 AZP 89.96 TAL 152.92 TAP 63.99 RCA 97.79 APO 153.71 V2 34.793
RC 143.598 GL 11.29 GP 14.05 ZAL 40.88 ZAP 159.74 ETS 40.63 ZAE 122.05 ETE 170.84 ZAC 43.45 ETC 171.98 CLP-165.25

PLANETOCENTRIC CONIC

C3 26.050 VHL 5.104 DLA 4.46 RAL 341.71 RAD 6568.1 VEL 12.142 PTH 2.18 VHP 7.029 DPA -6.66 RAP 310.10 ECC 1.4287

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 49 20	2417.14	-23.91	54.73	208.77	105.64	8 29 37	1817.1	-21.54	46.87
90.00	20 53 44	4784.15	17.70	205.78	206.33	67.53	22 13 28	4184.2	14.50	198.56
100.00	9 12 46	2148.03	-25.07	34.57	208.39	106.83	9 48 34	1548.0	-22.53	26.70
100.00	22 12 59	4528.50	18.81	186.48	205.83	66.33	23 28 27	3928.5	15.45	179.30
110.00	10 25 49	1919.42	-28.19	16.05	207.23	110.18	10 57 48	1319.4	-25.18	8.17
110.00	23 16 26	4329.87	21.78	169.90	204.33	62.98	24 28 35	3729.9	17.98	162.83

DIFFERENTIAL CORRECTIONS
TDE 2.5836 TRA 4.4133 TC3-2.5853 BAU .9024
RDE .1318 RRA -.4951 RC3 .1758 FAU .02389
FDE 1.5766 FRA 2.7208 FC3 -.7938 BSP .20554
BDE 2.5869 BRA 4.4410 BC3 2.5913 FSP -1111

MID-COURSE EXECUTION ACCURACY
SGT 6330.1 SGR 604.1 SG3 313.6
RRT -.7362 RRF -.7259 RTF .9791
SGB 6358.9 R23 .0031 R13 -.9791
SG1 6345.8 SG2 407.8 THA 175.96

ORBIT DETERMINATION ACCURACY
ST 3262.0 SR 223.4 SS 1211.2
CRT .2461 CRS -.2425 CST -.9999
LSA 3480.0 MSA 216.5 SSA 13.9
EL1 3262.4 EL2 216.5 ALF .97

LAUNCH DATE OCT 18 1965 FLIGHT TIME 208.00 ARRIVAL DATE MAY 14 1966

HELIOCENTRIC CONIC DISTANCE 584.832

RL 149.04 LAL -.00 LOL 24.41 VL 26.911 GAL 7.69 AZL 87.71 HCA 274.23 SMA 125.58 ECC .22842 INC 2.2907 VI 29.897
RP 108.93 LAP -2.28 LOP 298.64 VP 37.148 GAP 10.81 AZP 89.83 TAL 151.81 TAP 66.04 RCA 96.90 APO 154.27 V2 34.790
RC 145.874 GL 11.54 GP 13.49 ZAL 39.87 ZAP 161.02 ETS 42.27 ZAE 121.75 ETE 171.24 ZAC 45.34 ETC 171.27 CLP-166.52

PLANETOCENTRIC CONIC

C3 28.403 VHL 5.329 DLA 5.11 RAL 342.62 RAD 6568.1 VEL 12.238 PTH 2.20 VHP 7.317 DPA -6.77 RAP 312.04 ECC 1.4674

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 48 5	2459.00	-24.65	57.58	211.47	104.39	8 29 4	1859.0	-22.43	49.61
90.00	21 2 17	4785.29	17.72	205.85	208.55	67.55	22 22 2	4185.3	14.53	198.63
100.00	9 11 50	2188.87	-25.85	37.36	211.12	105.56	9 48 19	1588.9	-23.46	29.37
100.00	22 21 13	4530.65	18.87	186.61	208.04	66.37	23 36 44	3930.7	15.51	179.42
110.00	10 25 36	1958.03	-29.07	18.71	210.00	108.83	10 58 14	1358.0	-26.22	10.68
110.00	23 23 57	4334.26	21.91	170.17	206.50	63.08	24 36 11	3734.3	18.13	163.09

DIFFERENTIAL CORRECTIONS
TDE 2.7514 TRA 4.6783 TC3-2.3684 BAU .9011
RDE .1535 RRA -.4871 RC3 .1496 FAU .02103
FDE 1.5629 FRA 2.6947 FC3 -.6410 BSP .20656
BDE 2.7557 BRA 4.7036 BC3 2.3731 FSP -1044

MID-COURSE EXECUTION ACCURACY
SGT 6373.5 SGR 573.6 SG3 296.2
RRT -.7028 RRF -.6921 RTF .9787
SGB 6399.2 R23 .0021 R13 -.9787
SG1 6386.3 SG2 407.3 THA 176.37

ORBIT DETERMINATION ACCURACY
ST 3324.2 SR 228.3 SS 1197.0
CRT .3277 CRS -.3227 CST -.9999
LSA 3533.9 MSA 215.8 SSA 13.7
EL1 3325.1 EL2 215.6 ALF 1.29

LAUNCH DATE OCT 18 1965 FLIGHT TIME 210.00 ARRIVAL DATE MAY 16 1966

HELIOCENTRIC CONIC DISTANCE 590.353

RL 149.04 LAL -.00 LOL 24.41 VL 26.885 GAL 8.23 AZL 87.56 HCA 277.39 SMA 125.42 ECC .23504 INC 2.4398 VI 29.897
RP 108.93 LAP -2.42 LOP 301.80 VP 37.127 GAP 11.34 AZP 89.69 TAL 150.70 TAP 68.09 RCA 95.94 APO 154.89 V2 34.787
RC 148.138 GL 11.73 GP 12.98 ZAL 38.89 ZAP 162.23 ETS 44.15 ZAE 121.46 ETE 171.60 ZAC 47.26 ETC 170.67 CLP-167.76

PLANETOCENTRIC CONIC

C3 31.042 VHL 5.572 DLA 5.70 RAL 343.53 RAD 6568.2 VEL 12.346 PTH 2.23 VHP 7.624 DPA -6.81 RAP 313.99 ECC 1.5109

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 47 14	2499.81	-25.31	60.39	214.24	103.14	8 28 54	1899.8	-23.25	52.32
90.00	21 10 23	4789.00	17.82	206.08	210.83	67.62	22 30 12	4189.0	14.63	198.85
100.00	9 11 16	2228.75	-26.55	40.12	213.90	104.27	9 48 25	1628.8	-24.33	32.02
100.00	22 29 2	4535.29	18.99	186.90	210.30	66.47	23 44 37	3935.3	15.65	179.70
110.00	10 25 41	1995.86	-29.87	21.36	212.83	107.45	10 58 57	1395.9	-27.19	13.20
110.00	23 31 6	4340.95	22.12	170.58	208.74	63.25	24 43 27	3741.0	18.35	163.48

DIFFERENTIAL CORRECTIONS
TDE 2.9209 TRA 4.9551 TC3-2.1636 BAU .8994
RDE .1759 RRA -.4784 RC3 .1270 FAU .01847
FDE 1.5471 FRA 2.6695 FC3 -.5150 BSP .20846
BDE 2.9262 BRA 4.9781 BC3 2.1673 FSP -988

MID-COURSE EXECUTION ACCURACY
SGT 6407.7 SGR 545.2 SG3 279.6
RRT -.6669 RRF -.6561 RTF .9785
SGB 6430.8 R23 .0011 R13 -.9785
SG1 6418.0 SG2 405.6 THA 176.74

ORBIT DETERMINATION ACCURACY
ST 3374.6 SR 234.0 SS 1181.3
CRT .3992 CRS -.3932 CST -.9999
LSA 3576.6 MSA 214.7 SSA 13.4
EL1 3375.9 EL2 214.5 ALF 1.59

LAUNCH DATE OCT 18 1965 FLIGHT TIME 212.00 ARRIVAL DATE MAY 18 1966

HELIOCENTRIC CONIC DISTANCE 595.803

RL 149.04 LAL -.00 LOL 24.41 VL 26.858 GAL 8.81 AZL 87.41 HCA 280.55 SMA 125.25 ECC .24221 INC 2.5909 VI 29.897
RP 108.94 LAP -2.55 LOP 304.96 VP 37.107 GAP 11.89 AZP 89.53 TAL 149.60 TAP 70.14 RCA 94.91 APO 155.59 V2 34.786
RC 150.390 GL 11.87 GP 12.51 ZAL 37.94 ZAP 163.38 ETS 46.30 ZAE 121.18 ETE 171.93 ZAC 49.21 ETC 170.16 CLP-168.97

PLANETOCENTRIC CONIC

C3 34.011 VHL 5.832 DLA 6.23 RAL 344.43 RAD 6568.3 VEL 12.465 PTH 2.25 VHP 7.950 DPA -6.78 RAP 315.95 ECC 1.5597

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 46 45	2539.67	-25.90	63.16	217.05	101.87	8 29 4	1939.7	-24.00	55.00
90.00	21 18 2	4795.16	17.98	206.46	213.15	67.75	22 37 57	4195.2	14.81	199.22
100.00	9 11 3	2267.76	-27.17	42.85	216.74	102.96	9 48 50	1667.8	-25.12	34.65
100.00	22 36 25	4542.30	19.18	187.33	212.62	66.63	23 52 7	3942.3	15.86	180.12
110.00	10 26 4	2032.99	-30.60	24.01	215.73	106.04	10 59 57	1433.0	-28.10	15.71
110.00	23 37 53	4349.83	22.39	171.13	211.02	63.47	24 50 23	3749.8	18.65	163.99

DIFFERENTIAL CORRECTIONS
TDE 3.0974 TRA 5.2496 TC3-1.9640 BAU .8943
RDE .1989 RRA -.4694 RC3 .1071 FAU .01601
FDE 1.5328 FRA 2.6488 FC3 -.4075 BSP .21000
BDE 3.1038 BRA 5.2706 BC3 1.9669 FSP -934

MID-COURSE EXECUTION ACCURACY
SGT 6436.2 SGR 518.6 SG3 264.1
RRT -.6286 RRF -.6177 RTF .9785
SGB 6457.0 R23 .0004 R13 -.9785
SG1 6444.5 SG2 402.8 THA 177.09

ORBIT DETERMINATION ACCURACY
ST 3418.7 SR 239.9 SS 1166.7
CRT .4606 CRS -.4538 CST -.9999
LSA 3613.9 MSA 213.1 SSA 13.2
EL1 3420.5 EL2 212.8 ALF 1.86

LAUNCH DATE OCT 18 1965 FLIGHT TIME 214.00 ARRIVAL DATE MAY 20 1966

DISTANCE 601.174

HELIOCENTRIC CONIC

RL 149.04 LAL -.00 LOL 24.41 VL 26.832 GAL 9.43 AZL 87.25 HCA 283.70 SMA 125.08 ECC .25001 INC 2.7452 V1 29.897
RP 108.94 LAP -2.67 LOP 308.13 VP 37.087 GAP 12.47 AZP 89.35 TAL 148.50 TAP 72.21 RCA 93.81 APO 156.36 V2 34.785
RC 152.629 GL 11.97 GP 12.09 ZAL 37.00 ZAP 164.46 ETS 48.78 ZAE 120.91 ETE 172.23 ZAC 51.17 ETC 169.73 CLP-170.17

PLANETOCENTRIC CONIC

C3 37.362 VHL 6.112 DLA 6.71 RAL 345.31 RAD 6568.5 VEL 12.599 PTH 2.29 VHP 8.300 DPA -6.67 RAP 317.93 ECC 1.6149

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 46 35	2578.65	-26.42	65.89	219.91	100.59	8 29 33	1978.6	-24.69	57.65
90.00	21 25 15	4803.64	18.20	206.98	215.52	67.92	22 45 19	4203.6	15.04	199.73
100.00	9 11 7	2305.97	-27.73	45.55	219.62	101.64	9 49 33	1706.0	-25.84	37.26
100.00	22 43 24	4551.55	19.43	187.91	214.98	66.83	23 59 15	3951.6	16.13	180.67
110.00	10 26 41	2069.49	-31.26	26.65	218.67	104.60	11 1 10	1469.5	-28.94	18.22
110.00	23 44 19	4360.80	22.72	171.81	213.36	63.75	24 57 0	3760.8	19.01	164.64

DIFFERENTIAL CORRECTIONS

TDE 3.2810 TRA 5.5629 TC3-1.7720 BAU .8862
RDE .2225 RRA -.4595 RC3 .0896 FAU .01370
FDE 1.5197 FRA 2.6321 FC3 -.3174 BSP 21142
BDE 3.2886 BRA 5.5818 BC3 1.7742 FSP -883

MID-COURSE EXECUTION ACCURACY

SGT 6459.0 SGR 493.5 SG3 249.7
RRT -.5874 RRF -.5768 RTF .9785
SGB 6477.8 R23 -.0003 R13 -.9785
SG1 6465.5 SG2 399.0 THA 177.42

ORBIT DETERMINATION ACCURACY

ST 3456.0 SR 245.9 SS 1152.9
CRT .5136 CRS -.5064 CST -.9999
LSA 3645.4 MSA 211.1 SSA 12.9
EL1 3458.4 EL2 210.8 ALF 2.10

LAUNCH DATE OCT 18 1965 FLIGHT TIME 216.00 ARRIVAL DATE MAY 22 1966

DISTANCE 606.452

HELIOCENTRIC CONIC

RL 149.04 LAL -.00 LOL 24.41 VL 26.806 GAL 10.09 AZL 87.10 HCA 286.86 SMA 124.92 ECC .25850 INC 2.9036 V1 29.897
RP 108.94 LAP -2.78 LOP 311.29 VP 37.067 GAP 13.09 AZP 89.16 TAL 147.42 TAP 74.29 RCA 92.63 APO 157.21 V2 34.784
RC 154.855 GL 12.03 GP 11.70 ZAL 36.10 ZAP 165.48 ETS 51.62 ZAE 120.64 ETE 172.51 ZAC 53.14 ETC 169.36 CLP-171.35

PLANETOCENTRIC CONIC

C3 41.155 VHL 6.415 DLA 7.14 RAL 346.18 RAD 6568.6 VEL 12.748 PTH 2.32 VHP 8.674 DPA -6.51 RAP 319.91 ECC 1.6773

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 46 42	2616.80	-26.87	68.60	222.80	99.30	8 30 19	2016.8	-25.30	60.28
90.00	21 32 2	4814.34	18.47	207.65	217.94	68.15	22 52 17	4214.3	15.34	200.37
100.00	9 11 28	2343.41	-28.21	48.23	222.54	100.31	9 50 31	1743.4	-26.50	39.84
100.00	22 49 58	4562.96	19.74	188.62	217.39	67.08	24 6 1	3963.0	16.46	181.35
110.00	10 27 31	2105.39	-31.84	29.29	221.67	103.14	11 2 37	1505.4	-29.71	20.73
110.00	23 50 23	4373.75	23.11	172.61	215.74	64.08	25 3 17	3773.7	19.43	165.40

DIFFERENTIAL CORRECTIONS

TDE 3.4737 TRA 5.8973 TC3-1.5867 BAU .8740
RDE .2469 RRA -.4484 RC3 .0742 FAU .01148
FDE 1.5088 FRA 2.6200 FC3 -.2414 BSP 21261
BDE 3.4825 BRA 5.9143 BC3 1.5885 FSP -834

MID-COURSE EXECUTION ACCURACY

SGT 6476.6 SGR 469.7 SG3 236.2
RRT -.5432 RRF -.5330 RTF .9788
SGB 6493.6 R23 -.0008 R13 -.9788
SG1 6481.7 SG2 394.0 THA 177.74

ORBIT DETERMINATION ACCURACY

ST 3487.8 SR 251.6 SS 1140.7
CRT .5596 CRS -.5521 CST -.9999
LSA 3672.3 MSA 208.7 SSA 12.6
EL1 3490.7 EL2 208.3 ALF 2.32

LAUNCH DATE OCT 18 1965 FLIGHT TIME 218.00 ARRIVAL DATE MAY 24 1966

DISTANCE 611.625

HELIOCENTRIC CONIC

RL 149.04 LAL -.00 LOL 24.41 VL 26.780 GAL 10.81 AZL 86.93 HCA 290.02 SMA 124.75 ECC .26778 INC 3.0675 V1 29.897
RP 108.94 LAP -2.88 LOP 314.45 VP 37.049 GAP 13.76 AZP 88.95 TAL 146.37 TAP 76.39 RCA 91.35 APO 158.16 V2 34.785
RC 157.067 GL 12.05 GP 11.35 ZAL 35.23 ZAP 166.44 ETS 54.91 ZAE 120.37 ETE 172.77 ZAC 55.12 ETC 169.05 CLP-172.53

PLANETOCENTRIC CONIC

C3 45.466 VHL 6.743 DLA 7.53 RAL 347.02 RAD 6568.7 VEL 12.916 PTH 2.35 VHP 9.077 DPA -6.29 RAP 321.89 ECC 1.7483

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 47 5	2654.15	-27.25	71.26	225.72	98.02	8 31 20	2054.1	-25.86	62.87
90.00	21 38 23	4827.17	18.79	208.45	220.38	68.42	22 58 50	4227.2	15.70	201.15
100.00	9 12 3	2380.13	-28.63	50.88	225.49	98.98	9 51 43	1780.1	-27.09	42.41
100.00	22 56 7	4576.42	20.09	189.46	219.83	67.39	24 12 23	3976.4	16.85	182.16
110.00	10 28 33	2140.71	-32.36	31.91	224.70	101.67	11 4 14	1540.7	-30.41	23.24
110.00	0 0 2	4388.61	23.55	173.54	218.16	64.48	1 13 10	3788.6	19.92	166.28

DIFFERENTIAL CORRECTIONS

TDE 3.6787 TRA 6.2574 TC3-1.4066 BAU .8558
RDE .2719 RRA -.4361 RC3 .0606 FAU .00928
FDE 1.5012 FRA 2.6140 FC3 -.1767 BSP 21288
BDE 3.6888 BRA 6.2725 BC3 1.4080 FSP -786

MID-COURSE EXECUTION ACCURACY

SGT 6491.1 SGR 446.9 SG3 223.7
RRT -.4955 RRF -.4858 RTF .9791
SGB 6506.5 R23 -.0012 R13 -.9791
SG1 6494.9 SG2 388.0 THA 178.04

ORBIT DETERMINATION ACCURACY

ST 3516.2 SR 256.8 SS 1130.9
CRT .5998 CRS -.5923 CST -.9999
LSA 3696.7 MSA 205.7 SSA 12.3
EL1 3519.5 EL2 205.3 ALF 2.52

LAUNCH DATE OCT 18 1965 FLIGHT TIME 220.00 ARRIVAL DATE MAY 26 1966

DISTANCE 616.673

HELIOCENTRIC CONIC

RL 149.04 LAL -.00 LOL 24.41 VL 26.754 GAL 11.58 AZL 86.76 HCA 293.18 SMA 124.59 ECC .27792 INC 3.2381 V1 29.897
RP 108.94 LAP -2.98 LOP 317.62 VP 37.031 GAP 14.47 AZP 88.72 TAL 145.34 TAP 78.51 RCA 89.96 APO 159.22 V2 34.786
RC 159.265 GL 12.04 GP 11.03 ZAL 34.39 ZAP 167.32 ETS 58.70 ZAE 120.10 ETE 173.01 ZAC 57.09 ETC 168.78 CLP-173.70

PLANETOCENTRIC CONIC

C3 50.386 VHL 7.098 DLA 7.87 RAL 347.84 RAD 6568.9 VEL 13.105 PTH 2.39 VHP 9.513 DPA -6.02 RAP 323.86 ECC 1.8292

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 47 43	2690.68	-27.57	73.89	228.66	96.74	8 32 34	2090.7	-26.35	65.44
90.00	21 44 17	4842.05	19.16	209.39	222.86	68.75	23 4 59	4242.1	16.11	202.05
100.00	9 12 51	2416.10	-28.99	53.49	228.46	97.64	9 53 7	1816.1	-27.63	44.95
100.00	23 1 50	4591.87	20.49	190.43	222.30	67.75	24 18 22	3991.9	17.30	183.09
110.00	10 29 45	2175.45	-32.81	34.52	227.76	100.19	11 6 1	1575.5	-31.06	25.74
110.00	0 5 22	4405.28	24.03	174.59	220.62	64.93	1 18 47	3805.3	20.45	167.28

DIFFERENTIAL CORRECTIONS

TDE 3.8906 TRA 6.6391 TC3-1.2381 BAU .8347
RDE .2981 RRA -.4216 RC3 .0490 FAU .00726
FDE 1.4940 FRA 2.6112 FC3 -.1247 BSP 21395
BDE 3.9020 BRA 6.6524 BC3 1.2391 FSP -744

MID-COURSE EXECUTION ACCURACY

SGT 6497.5 SGR 425.2 SG3 211.9
RRT -.4435 RRF -.4346 RTF .9797
SGB 6511.4 R23 -.0015 R13 -.9797
SG1 6500.2 SG2 380.9 THA 178.33

ORBIT DETERMINATION ACCURACY

ST 3535.3 SR 261.8 SS 1121.4
CRT .6356 CRS -.6282 CST -.9999
LSA 3712.6 MSA 202.3 SSA 12.0
EL1 3539.3 EL2 201.9 ALF 2.70

LAUNCH DATE OCT 19 1965 FLIGHT TIME 70.00 ARRIVAL DATE DEC 28 1965

HELIOCENTRIC CONIC DISTANCE 145.861

RL	149.00	LAL	-.00	LOL	25.40	VL	19.816	GAL	11.20	AZL	89.85	HCA	53.02	SMA	95.56	ECC	.58187	INC	.1510	V1	29.905
RP	107.76	LAP	.12	LOP	78.42	VP	32.776	GAP	-34.92	AZP	89.91	TAL	171.70	TAP	224.72	RCA	39.96	APO	151.17	V2	35.166
RC	55.125	GL	.26	GP	-4.35	ZAL	67.50	ZAP	24.53	ETS	167.35	ZAE	149.39	ETE	190.43	ZAC	25.21	ETC	129.20	CLP	24.17

PLANETOCENTRIC CONIC

C3 128.249 VHL 11.325 DLA -15.22 RAL 320.26 RAD 6570.4 VEL 15.798 PTH 2.80 VHP 20.414 DPA -28.69 RAP 284.00 ECC 3.1107

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 54 1	2162.00	-18.26	38.18	208.35	112.03	9 30 3	1562.0	-15.11	30.92
90.00	16 50 3	5793.41	26.72	276.13	220.80	99.73	18 26 37	5193.4	27.80	267.62
100.00	10 7 4	1926.30	-19.93	20.12	207.62	112.75	10 39 10	1326.3	-16.68	12.84
100.00	18 19 41	5504.34	28.51	255.20	221.14	99.40	19 51 26	4904.3	29.51	246.54
110.00	10 56 50	1770.43	-24.30	6.22	205.54	114.82	11 26 20	1170.4	-20.75	358.88
110.00	19 46 25	5232.97	33.22	235.46	222.01	98.56	21 13 38	4633.0	34.05	226.32

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TDE	-.4691	TRA	-1.4188	TC3	-.1148	BAU	.1992	SGT	823.0	SGR	446.7	SG3	35.4	ST	325.9	SR	404.5	SS	289.9
RDE	-.7912	RRA	.3703	RC3	-.0179	FAU	.01397	RRT	-.1058	RRF	.1013	RTF	-.6428	CRT	.6222	CRS	.7118	CST	.9907
FDE	.2617	FRA	.6179	FC3	-.0943	BSP	2194	SG8	936.5	R23	-.0056	R13	.6437	LSA	542.3	MSA	244.2	SSA	13.8
BDE	.9198	BRA	1.4664	BC3	.1162	FSP	-75	SG1	824.9	SG2	443.2	THA	175.38	ELI	471.0	EL2	219.1	ALF	54.65

LAUNCH DATE OCT 19 1965 FLIGHT TIME 72.00 ARRIVAL DATE DEC 30 1965

HELIOCENTRIC CONIC DISTANCE 152.070

RL	149.00	LAL	-.00	LOL	25.40	VL	20.404	GAL	10.72	AZL	89.62	HCA	56.24	SMA	97.22	ECC	.55539	INC	.3752	V1	29.905
RP	107.73	LAP	.31	LOP	81.64	VP	33.146	GAP	-33.23	AZP	89.79	TAL	171.15	TAP	227.40	RCA	43.22	APO	151.21	V2	35.176
RC	53.365	GL	.70	GP	-4.50	ZAL	66.53	ZAP	23.04	ETS	166.31	ZAE	150.32	ETE	192.08	ZAC	26.48	ETC	131.67	CLP	22.62

PLANETOCENTRIC CONIC

C3 115.435 VHL 10.744 DLA -14.50 RAL 321.08 RAD 6570.2 VEL 15.387 PTH 2.75 VHP 19.541 DPA -28.76 RAP 285.91 ECC 2.8998

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 50 45	2166.74	-18.38	38.47	207.84	111.93	9 26 51	1566.7	-15.24	31.20
90.00	16 59 54	5746.92	27.22	272.81	219.76	98.14	18 35 41	5146.9	28.06	264.25
100.00	10 4 19	1929.35	-20.01	20.31	207.13	112.68	10 36 29	1329.4	-16.76	13.02
100.00	18 29 0	5459.55	28.96	251.95	220.03	97.75	20 0 0	4859.5	29.73	243.23
110.00	10 55 12	1770.01	-24.29	6.20	205.10	114.83	11 24 42	1170.0	-20.73	358.85
110.00	19 54 37	5191.66	33.59	232.30	220.72	96.72	21 21 9	4591.7	34.16	223.10

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TDE	-.4720	TRA	-1.4215	TC3	-.1192	BAU	.1871	SGT	861.5	SGR	451.2	SG3	38.6	ST	344.4	SR	405.8	SS	308.2
RDE	-.7525	RRA	.3649	RC3	-.0217	FAU	.01426	RRT	-.1142	RRF	.1100	RTF	-.6629	CRT	.6215	CRS	.7177	CST	.9897
FDE	.2783	FRA	.6415	FC3	-.1069	BSP	2352	SG8	972.5	R23	-.0064	R13	.6637	LSA	561.7	MSA	250.0	SSA	14.0
BDE	.8883	BRA	1.4676	BC3	.1212	FSP	-83	SG1	863.6	SG2	447.2	THA	175.32	ELI	481.1	EL2	227.5	ALF	52.43

LAUNCH DATE OCT 19 1965 FLIGHT TIME 74.00 ARRIVAL DATE JAN 1 1966

HELIOCENTRIC CONIC DISTANCE 158.354

RL	149.00	LAL	-.00	LOL	25.40	VL	20.951	GAL	10.24	AZL	89.42	HCA	59.47	SMA	98.85	ECC	.52983	INC	.5828	V1	29.905
RP	107.70	LAP	.50	LOP	84.87	VP	33.496	GAP	-31.62	AZP	89.70	TAL	170.64	TAP	230.11	RCA	46.48	APO	151.23	V2	35.186
RC	51.675	GL	1.18	GP	-4.67	ZAL	65.62	ZAP	21.57	ETS	165.10	ZAE	151.37	ETE	194.00	ZAC	27.81	ETC	133.91	CLP	21.08

PLANETOCENTRIC CONIC

C3 103.971 VHL 10.197 DLA -13.77 RAL 321.82 RAD 6570.0 VEL 15.010 PTH 2.70 VHP 18.701 DPA -28.82 RAP 287.85 ECC 2.7111

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 47 7	2170.95	-18.49	38.74	207.21	111.84	9 23 18	1571.0	-15.36	31.46
90.00	17 9 24	5699.47	27.63	269.40	218.53	96.48	18 44 24	5099.5	28.24	260.79
100.00	10 1 12	1931.91	-20.08	20.47	206.52	112.62	10 33 24	1331.9	-16.84	13.18
100.00	18 38 0	5413.75	29.33	248.60	218.74	96.02	20 8 14	4813.7	29.86	239.83
110.00	10 53 10	1769.15	-24.26	6.14	204.54	114.85	11 22 40	1169.1	-20.71	358.80
110.00	20 2 31	5149.27	33.88	229.02	219.25	94.81	21 28 21	4549.3	34.18	219.79

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TDE	-.4744	TRA	-1.4238	TC3	-.1229	BAU	.1747	SGT	901.3	SGR	455.0	SG3	42.1	ST	363.6	SR	406.2	SS	327.2
RDE	-.7143	RRA	.3589	RC3	-.0262	FAU	.01458	RRT	-.1234	RRF	.1196	RTF	-.6822	CRT	.6204	CRS	.7231	CST	.9886
FDE	.2957	FRA	.6658	FC3	-.1214	BSP	2516	SG8	1009.7	R23	-.0074	R13	.6831	LSA	582.1	MSA	255.3	SSA	14.2
BDE	.8575	BRA	1.4683	BC3	.1257	FSP	-92	SG1	903.6	SG2	450.4	THA	175.25	ELI	491.6	EL2	235.6	ALF	50.08

LAUNCH DATE OCT 19 1965 FLIGHT TIME 76.00 ARRIVAL DATE JAN 3 1966

HELIOCENTRIC CONIC DISTANCE 164.706

RL	149.00	LAL	-.00	LOL	25.40	VL	21.461	GAL	9.76	AZL	89.22	HCA	62.70	SMA	100.47	ECC	.50525	INC	.7771	V1	29.905
RP	107.67	LAP	.69	LOP	88.10	VP	33.827	GAP	-30.09	AZP	89.64	TAL	170.16	TAP	232.86	RCA	49.71	APO	151.24	V2	35.196
RC	50.062	GL	1.70	GP	-4.86	ZAL	64.79	ZAP	20.13	ETS	163.67	ZAE	152.52	ETE	196.23	ZAC	29.20	ETC	135.96	CLP	19.55

PLANETOCENTRIC CONIC

C3 93.708 VHL 9.680 DLA -13.01 RAL 322.47 RAD 6569.8 VEL 14.665 PTH 2.66 VHP 17.893 DPA -28.87 RAP 289.81 ECC 2.5422

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 43 7	2174.76	-18.58	38.98	206.46	111.76	9 19 22	1574.8	-15.47	31.69
90.00	17 18 36	5651.04	27.95	265.89	217.13	94.75	18 52 47	5051.0	28.31	257.25
100.00	9 57 42	1934.10	-20.13	20.61	205.79	112.57	10 29 57	1334.1	-16.90	13.31
100.00	18 46 41	5366.93	29.62	245.15	217.28	94.23	20 16 8	4766.9	29.89	236.35
110.00	10 50 45	1767.96	-24.23	6.07	203.85	114.89	11 20 13	1168.0	-20.67	358.73
110.00	20 10 8	5105.84	34.08	225.64	217.60	92.82	21 35 14	4505.8	34.10	216.40

DIFFERENTIAL CORRECTIONS						MID-COURSE EXECUTION ACCURACY						ORBIT DETERMINATION ACCURACY					
TDE	-.4786	TRA	-1.4278	TC3	-.1266	BAU	.1634	SGT	944.8	SGR	458.2	SG3	45.9	ST	384.7	SR	405.6	SS	347.4
RDE	-.6767	RRA	.3524	RC3	-.0314	FAU	.01492	RRT	-.1324	RRF	.1299	RTF	-.7002	CRT	.6200	CRS	.7282	CST	.9876
FDE	.3142	FRA	.6908	FC3	-.1379	BSP	2633	SG8	1050.0	R23	-.0096	R13	.7011	LSA	604.6	MSA	259.8	SSA	14.4
BDE	.8288	BRA	1.4706	BC3	.1304	FSP	-102	SG1	947.3	SG2	452.9	THA	175.23	ELI	503.4	EL2	243.2	ALF	47.44

LAUNCH DATE OCT 19 1965 FLIGHT TIME 78.00 ARRIVAL DATE JAN 5 1966

DISTANCE 171.121

HELIOCENTRIC CONIC

RL 149.00 LAL -.00 LOL 25.40 VL 21.935 GAL 9.29 AZL 89.04 HCA 65.93 SMA 102.06 ECC .48165 INC .9605 VI 29.905
RP 107.64 LAP .88 LOP 91.33 VP 34.139 GAP -28.64 AZP 89.61 TAL 169.71 TAP 235.64 RCA 52.90 APO 151.22 V2 35.204
RC 48.537 GL 2.26 GP -5.06 ZAL 64.03 ZAP 18.71 ETS 161.98 ZAE 153.78 ETE 198.86 ZAC 30.64 ETC 137.82 CLP 18.04

PLANETOCENTRIC CONIC

C3 84.516 VHL 9.193 DLA -12.23 RAL 323.03 RAD 6569.7 VEL 14.348 PTH 2.61 VHP 17.114 DPA -28.91 RAP 291.78 ECC 2.3909

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 38 42	2178.34	-18.67	39.20	205.60	111.68	9 15 1	1578.3	-15.57	31.90
90.00	17 27 29	5601.63	28.17	262.30	215.55	92.96	19 0 51	5001.6	28.29	253.63
100.00	9 53 48	1936.09	-20.19	20.74	204.94	112.53	10 26 4	1336.1	-16.96	13.43
100.00	18 55 5	5319.11	29.81	241.60	215.64	92.37	20 23 44	4719.1	29.82	232.80
110.00	10 47 55	1766.59	-24.19	5.98	203.04	114.92	11 17 21	1166.6	-20.62	358.65
110.00	20 17 27	5061.37	34.18	222.17	215.78	90.77	21 41 49	4461.4	33.90	212.94

DIFFERENTIAL CORRECTIONS

TDE -.4805 TRA-1.4292 TC3 -.1281 BAU .1508
RDE -.6397 RRA .3455 RC3 -.0375 FAU .01532
FDE .3334 FRA .7164 FC3 -.1569 BSP 2805
BDE .8000 BRA 1.4704 BC3 .1335 FSP -113

MID-COURSE EXECUTION ACCURACY

SGT 987.9 SGR 460.7 SG3 50.0
RRT -.1433 RRF .1414 RTF -.7181
SGB 1090.0 R23 -.0110 R13 .7191
SG1 990.7 SG2 454.6 THA 175.15

ORBIT DETERMINATION ACCURACY

ST 405.6 SR 404.1 SS 368.3
CRT .6182 CRS .7328 CST .9864
LSA 627.5 MSA 263.6 SSA 14.6
EL1 515.0 EL2 250.1 ALF 44.83

LAUNCH DATE OCT 19 1965 FLIGHT TIME 80.00 ARRIVAL DATE JAN 7 1966

DISTANCE 177.593

HELIOCENTRIC CONIC

RL 149.00 LAL -.00 LOL 25.40 VL 22.377 GAL 8.82 AZL 88.86 HCA 69.17 SMA 103.62 ECC .45906 INC 1.1350 VI 29.905
RP 107.62 LAP 1.06 LOP 94.57 VP 34.433 GAP -27.24 AZP 89.60 TAL 169.30 TAP 238.47 RCA 56.05 APO 151.19 V2 35.213
RC 47.108 GL 2.87 GP -5.28 ZAL 63.35 ZAP 17.33 ETS 159.95 ZAE 155.13 ETE 201.98 ZAC 32.12 ETC 139.50 CLP 16.53

PLANETOCENTRIC CONIC

C3 76.283 VHL 8.734 DLA -11.43 RAL 323.50 RAD 6569.5 VEL 14.058 PTH 2.56 VHP 16.364 DPA -28.95 RAP 293.77 ECC 2.2554

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 33 52	2181.86	-18.76	39.42	204.62	111.61	9 10 14	1581.9	-15.66	32.11
90.00	17 36 6	5551.24	28.30	258.62	213.82	91.12	19 8 38	4951.2	28.15	249.95
100.00	9 49 26	1938.04	-20.24	20.86	203.98	112.48	10 21 45	1338.0	-17.01	13.55
100.00	19 3 13	5270.29	29.89	237.98	213.85	90.46	20 31 3	4670.3	29.63	229.18
110.00	10 44 38	1765.20	-24.15	5.89	202.13	114.96	11 14 3	1165.2	-20.58	358.56
110.00	20 24 31	5015.89	34.16	218.62	213.81	88.66	21 48 7	4415.9	33.60	209.42

DIFFERENTIAL CORRECTIONS

TDE -.4822 TRA-1.4298 TC3 -.1282 BAU .1384
RDE -.6033 RRA .3384 RC3 -.0445 FAU .01576
FDE .3537 FRA .7427 FC3 -.1788 BSP 2983
BDE .7723 BRA 1.4693 BC3 .1357 FSP -126

MID-COURSE EXECUTION ACCURACY

SGT 1032.5 SGR 462.5 SG3 54.5
RRT -.1552 RRF .1541 RTF -.7351
SGB 1131.3 R23 -.0126 R13 .7361
SG1 1035.6 SG2 455.6 THA 175.07

ORBIT DETERMINATION ACCURACY

ST 427.2 SR 401.6 SS 390.2
CRT .6161 CRS .7370 CST .9851
LSA 651.7 MSA 266.6 SSA 14.8
EL1 527.4 EL2 256.2 ALF 42.13

LAUNCH DATE OCT 19 1965 FLIGHT TIME 82.00 ARRIVAL DATE JAN 9 1966

DISTANCE 184.117

HELIOCENTRIC CONIC

RL 149.00 LAL -.00 LOL 25.40 VL 22.788 GAL 8.37 AZL 88.70 HCA 72.41 SMA 105.15 ECC .43748 INC 1.3022 VI 29.905
RP 107.60 LAP 1.24 LOP 97.80 VP 34.710 GAP -25.91 AZP 89.61 TAL 168.94 TAP 241.35 RCA 59.15 APO 151.15 V2 35.220
RC 45.785 GL 3.54 GP -5.53 ZAL 62.75 ZAP 15.99 ETS 157.51 ZAE 156.53 ETE 205.71 ZAC 33.65 ETC 141.03 CLP 15.02

PLANETOCENTRIC CONIC

C3 68.910 VHL 8.301 DLA -10.60 RAL 323.89 RAD 6569.3 VEL 13.794 PTH 2.52 VHP 15.642 DPA -28.99 RAP 295.76 ECC 2.1341

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 28 34	2185.54	-18.85	39.65	203.53	111.53	9 4 59	1585.5	-15.76	32.34
90.00	17 44 28	5499.87	28.31	254.86	211.94	89.23	19 16 7	4899.9	27.90	246.22
100.00	9 44 37	1940.15	-20.29	20.99	202.92	112.43	10 16 58	1340.2	-17.07	13.68
100.00	19 11 5	5220.49	29.86	234.28	211.91	88.52	20 38 6	4620.5	29.33	225.51
110.00	10 40 53	1763.97	-24.11	5.81	201.11	115.00	11 10 17	1164.0	-20.54	358.49
110.00	20 31 19	4969.44	34.03	215.00	211.70	86.52	21 54 8	4369.4	33.17	205.86

DIFFERENTIAL CORRECTIONS

TDE -.4836 TRA-1.4296 TC3 -.1265 BAU .1262
RDE -.5675 RRA .3310 RC3 -.0526 FAU .01624
FDE .3754 FRA .7700 FC3 -.2041 BSP 3165
BDE .7456 BRA 1.4674 BC3 .1370 FSP -140

MID-COURSE EXECUTION ACCURACY

SGT 1078.5 SGR 463.8 SG3 59.5
RRT -.1684 RRF .1683 RTF -.7514
SGB 1174.0 R23 -.0145 R13 .7524
SG1 1082.0 SG2 455.7 THA 174.96

ORBIT DETERMINATION ACCURACY

ST 449.6 SR 397.9 SS 413.3
CRT .6136 CRS .7408 CST .9837
LSA 677.4 MSA 268.8 SSA 14.9
EL1 540.5 EL2 261.3 ALF 39.35

LAUNCH DATE OCT 19 1965 FLIGHT TIME 84.00 ARRIVAL DATE JAN 11 1966

DISTANCE 190.689

HELIOCENTRIC CONIC

RL 149.00 LAL -.00 LOL 25.40 VL 23.171 GAL 7.92 AZL 88.54 HCA 75.64 SMA 106.63 ECC .41691 INC 1.4636 VI 29.905
RP 107.57 LAP 1.42 LOP 101.04 VP 34.969 GAP -24.63 AZP 89.64 TAL 168.62 TAP 244.26 RCA 62.18 APO 151.09 V2 35.227
RC 44.580 GL 4.26 GP -5.80 ZAL 62.23 ZAP 14.69 ETS 154.53 ZAE 157.96 ETE 210.19 ZAC 35.22 ETC 142.41 CLP 13.52

PLANETOCENTRIC CONIC

C3 62.308 VHL 7.894 DLA -9.74 RAL 324.18 RAD 6569.2 VEL 13.552 PTH 2.48 VHP 14.946 DPA -29.02 RAP 297.76 ECC 2.0254

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 22 46	2189.59	-18.95	39.91	202.35	111.44	8 59 16	1589.6	-15.88	32.58
90.00	17 52 34	5447.55	28.20	251.04	209.94	87.32	19 23 22	4847.6	27.53	242.43
100.00	9 39 19	1942.65	-20.36	21.15	201.75	112.37	10 11 41	1342.6	-17.15	13.83
100.00	19 18 43	5169.73	29.71	230.51	209.84	86.54	20 44 53	4569.7	28.91	221.80
110.00	10 36 39	1763.11	-24.09	5.76	199.99	115.02	11 6 2	1163.1	-20.51	358.44
110.00	20 37 52	4922.04	33.77	211.32	209.46	84.36	21 59 54	4322.0	32.62	202.28

DIFFERENTIAL CORRECTIONS

TDE -.4852 TRA-1.4284 TC3 -.1226 BAU .1144
RDE -.5324 RRA .3236 RC3 -.0619 FAU .01679
FDE .3986 FRA .7983 FC3 -.2332 BSP 3352
BDE .7203 BRA 1.4646 BC3 .1373 FSP -155

MID-COURSE EXECUTION ACCURACY

SGT 1126.1 SGR 464.4 SG3 64.9
RRT -.1830 RRF .1841 RTF -.7669
SGB 1218.1 R23 -.0167 R13 .7680
SG1 1130.0 SG2 455.0 THA 174.85

ORBIT DETERMINATION ACCURACY

ST 472.9 SR 393.0 SS 437.8
CRT .6109 CRS .7442 CST .9823
LSA 704.7 MSA 270.1 SSA 15.1
EL1 554.8 EL2 265.3 ALF 36.53

LAUNCH DATE OCT 19 1965 FLIGHT TIME 86.00 ARRIVAL DATE JAN 13 1966

HELIOCENTRIC CONIC DISTANCE 197.302

RL	149.00	LAL	-.00	LOL	25.40	VL	23.526	GAL	7.49	AZL	88.38	HCA	78.88	SMA	108.08	ECC	.39735	INC	1.6204	VI	29.905
RP	107.55	LAP	1.59	LOP	104.28	VP	35.212	GAP	-23.41	AZP	89.69	TAL	168.35	TAP	247.23	RCA	65.13	APO	151.02	V2	35.234
RC	43.503	GL	5.04	GP	-6.09	ZAL	61.79	ZAP	13.45	ETS	150.88	ZAE	159.35	ETE	215.60	ZAC	36.81	ETC	143.66	CLP	12.02

PLANETOCENTRIC CONIC

C3	56.401	VHL	7.510	DLA	-8.85	RAL	324.37	RAD	6569.0	VEL	13.333	PTH	2.44	VHP	14.275	DPA	-29.06	RAP	299.77	ECC	1.9282

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 16 27	2194.27	-19.07	40.20	201.08	111.34	8 53 1	1594.3	-16.00	32.87
90.00	18 0 29	5394.29	27.97	247.16	207.81	85.39	19 30 23	4794.3	27.04	238.61
100.00	9 33 29	1945.76	-20.44	21.35	200.50	112.30	10 5 54	1345.8	-17.24	14.02
100.00	19 26 8	5118.03	29.44	226.69	207.67	84.55	20 51 26	4518.0	28.37	218.05
110.00	10 31 54	1762.83	-24.08	5.74	198.78	115.03	11 1 17	1162.8	-20.50	358.42
110.00	20 44 12	4873.73	33.39	207.60	207.13	82.19	22 5 25	4273.7	31.95	198.67

DIFFERENTIAL CORRECTIONS

TDE	-.4867	TRA	-1.4262	TC3	-.1163	BAU	.1033												
RDE	-.4979	RRA	.3162	RC3	-.0725	FAU	.01738												
FDE	.4236	FRA	.8277	FC3	-.2668	BSP	3543												
BDE	.6963	BRA	1.4609	BC3	.1370	FSP	-172												

MID-COURSE EXECUTION ACCURACY

SGT	1175.2	SGR	464.5	SG3	70.9						
RRT	-.1993	RRF	.2019	RTF	-.7816						
SGB	1263.7	R23	-.0192	R13	.7828						
SG1	1179.5	SG2	453.5	THA	174.71						

ORBIT DETERMINATION ACCURACY

ST	497.1	SR	386.9	SS	463.7						
CRT	.6078	CRS	.7472	CST	.9808						
LSA	733.7	MSA	270.6	SSA	15.3						
EL1	570.1	EL2	267.9	ALF	35.69						

LAUNCH DATE OCT 19 1965 FLIGHT TIME 88.00 ARRIVAL DATE JAN 15 1966

HELIOCENTRIC CONIC DISTANCE 203.952

RL	149.00	LAL	-.00	LOL	25.40	VL	23.857	GAL	7.06	AZL	88.23	HCA	82.12	SMA	109.47	ECC	.37878	INC	1.7739	VI	29.905
RP	107.54	LAP	1.76	LOP	107.52	VP	35.440	GAP	-22.24	AZP	89.76	TAL	168.12	TAP	250.24	RCA	68.01	APO	150.94	V2	35.239
RC	42.563	GL	5.88	GP	-6.42	ZAL	61.43	ZAP	12.30	ETS	146.37	ZAE	160.64	ETE	222.08	ZAC	38.43	ETC	144.78	CLP	10.51

PLANETOCENTRIC CONIC

C3	51.121	VHL	7.150	DLA	-7.92	RAL	324.48	RAD	6568.9	VEL	13.133	PTH	2.40	VHP	13.629	DPA	-29.10	RAP	301.78	ECC	1.8413

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 9 33	2199.85	-19.21	40.55	199.73	111.21	8 46 13	1599.8	-16.16	33.21
90.00	18 8 11	5340.10	27.61	243.23	205.60	83.45	19 37 11	4740.1	26.42	234.77
100.00	9 27 5	1949.76	-20.54	21.60	199.16	112.21	9 59 34	1349.8	-17.35	14.26
100.00	19 33 21	5065.42	29.03	222.83	205.40	82.55	20 57 46	4465.4	27.70	214.28
110.00	10 26 36	1763.38	-24.10	5.78	197.49	115.01	10 56 0	1163.4	-20.52	358.45
110.00	20 50 19	4824.56	32.87	203.86	204.71	80.03	22 10 43	4224.6	31.14	195.06

DIFFERENTIAL CORRECTIONS

TDE	-.4908	TRA	-1.4252	TC3	-.1087	BAU	.0942												
RDE	-.4639	RRA	.3091	RC3	-.0847	FAU	.01803												
FDE	.4511	FRA	.8588	FC3	-.3054	BSP	3680												
BDE	.6753	BRA	1.4583	BC3	.1378	FSP	-190												

MID-COURSE EXECUTION ACCURACY

SGT	1228.2	SGR	464.1	SG3	77.5						
RRT	-.2164	RRF	.2217	RTF	-.7949						
SGB	1312.9	R23	-.0233	R13	.7962						
SG1	1232.9	SG2	451.4	THA	174.60						

ORBIT DETERMINATION ACCURACY

ST	523.8	SR	379.2	SS	491.7						
CRT	.6054	CRS	.7496	CST	.9796						
LSA	766.0	MSA	269.9	SSA	15.5						
EL1	588.2	EL2	268.8	ALF	30.76						

LAUNCH DATE OCT 19 1965 FLIGHT TIME 90.00 ARRIVAL DATE JAN 17 1966

HELIOCENTRIC CONIC DISTANCE 210.633

RL	149.00	LAL	-.00	LOL	25.40	VL	24.165	GAL	6.65	AZL	88.08	HCA	85.37	SMA	110.82	ECC	.36120	INC	1.9249	VI	29.905
RP	107.52	LAP	1.92	LOP	110.76	VP	35.653	GAP	-21.11	AZP	89.84	TAL	167.94	TAP	253.31	RCA	70.80	APO	150.85	V2	35.244
RC	41.769	GL	6.80	GP	-6.78	ZAL	61.17	ZAP	11.25	ETS	140.80	ZAE	161.72	ETE	229.76	ZAC	40.08	ETC	145.79	CLP	8.99

PLANETOCENTRIC CONIC

C3	46.405	VHL	6.812	DLA	-6.95	RAL	324.48	RAD	6568.7	VEL	12.953	PTH	2.36	VHP	13.007	DPA	-29.16	RAP	303.79	ECC	1.7637

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 2 4	2206.59	-19.37	40.98	198.30	111.06	8 38 50	1606.6	-16.34	33.62
90.00	18 15 44	5284.99	27.12	239.27	203.30	81.52	19 43 49	4685.0	25.67	230.91
100.00	9 20 5	1954.90	-20.67	21.92	197.76	112.09	9 52 40	1354.9	-17.50	14.57
100.00	19 40 24	5011.91	28.50	218.94	203.06	80.58	21 3 56	4411.9	26.90	210.51
110.00	10 20 44	1765.01	-24.14	5.88	196.12	114.97	10 50 9	1165.0	-20.57	358.55
110.00	20 56 14	4774.57	32.22	200.11	202.24	77.90	22 15 49	4174.6	30.22	191.46

DIFFERENTIAL CORRECTIONS

TDE	-.4929	TRA	-1.4209	TC3	-.0962	BAU	.0854												
RDE	-.4305	RRA	.3022	RC3	-.0986	FAU	.01877												
FDE	.4808	FRA	.8911	FC3	-.3502	BSP	3878												
BDE	.6545	BRA	1.4526	BC3	.1377	FSP	-210												

MID-COURSE EXECUTION ACCURACY

SGT	1280.0	SGR	463.3	SG3	84.7						
RRT	-.2370	RRF	.2443	RTF	-.8081						
SGB	1361.3	R23	-.0268	R13	.8095						
SG1	1285.4	SG2	448.3	THA	174.42						

ORBIT DETERMINATION ACCURACY

ST	549.9	SR	370.2	SS	521.1						
CRT	.6013	CRS	.7513	CST	.9781						
LSA	799.1	MSA	268.5	SSA	15.6						
EL1	606.1	EL2	268.3	ALF	27.98						

LAUNCH DATE OCT 19 1965 FLIGHT TIME 92.00 ARRIVAL DATE JAN 19 1966

HELIOCENTRIC CONIC DISTANCE 217.342

RL	149.00	LAL	-.00	LOL	25.40	VL	24.451	GAL	6.26	AZL	87.93	HCA	88.61	SMA	112.12	ECC	.34457	INC	2.0747	VI	29.905
RP	107.51	LAP	2.07	LOP	114.01	VP	35.851	GAP	-20.02	AZP	89.95	TAL	167.82	TAP	256.42	RCA	73.49	APO	150.76	V2	35.249
RC	41.131	GL	7.78	GP	-7.18	ZAL	60.99	ZAP	10.34	ETS	133.96	ZAE	162.49	ETE	238.60	ZAC	41.75	ETC	146.70	CLP	7.47

PLANETOCENTRIC CONIC

C3	42.199	VHL	6.496	DLA	-5.94	RAL	324.40	RAD	6568.6	VEL	12.789	PTH	2.33	VHP	12.407	DPA	-29.23	RAP	305.79	ECC	1.6945

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 53 56	2214.81	-19.57	41.50	196.82	110.88	8 30 51	1614.8	-16.56	34.12
90.00	18 23 9	5228.97	26.49	235.29	200.95	79.62	19 50 18	4629.0	24.79	227.04
100.00	9 12 27	1961.48	-20.84	22.34	196.29	111.93	9 45 9	1361.5	-17.68	14.97
100.00	19 47 19	4957.53	27.83	215.04	200.66	78.63	21 9 56	4357.5	25.98	206.73
110.00	10 14 16	1767.99	-24.23	6.07	194.70	114.89	10 43 44	1168.0	-20.67	358.73
110.00	21 2 0	4723.79	31.43	196.36	199.72	75.81	22 20 44	4123.8	29.16	187.88

DIFFERENTIAL CORRECTIONS

TDE	-.4961	TRA	-1.4154	TC3	-.0801	BAU	.0787												
RDE	-.3975	RRA	.2957	RC3	-.1143	FAU	.01958												
FDE	.5137	FRA	.9250	FC3	-.4017	BSP	4072												
BDE	.6357	BRA	1.4460	BC3	.1396	FSP	-233												

MID-COURSE EXECUTION ACCURACY

SGT	1333.3	SGR	462.3	SG3	92.7						
RRT	-.2600	RRF	.2698	RTF	-.8206						
SGB	1411.2	R23	-.0308	R13	.8221						
SG1	1339.4	SG2	444.4	THA	174.21						

ORBIT DETERMINATION ACCURACY

ST	577.3	SR	359.4	SS	552.9						
CRT	.5968	CRS	.7521	CST	.9768						
LSA	834.9	MSA	266.0	SSA	15.8						
EL1	625.8	EL2	266.0	ALF	25.25						

LAUNCH DATE OCT 19 1965 FLIGHT TIME 94.00 ARRIVAL DATE JAN 21 1966

DISTANCE 224.073

HELIOCENTRIC CONIC

RL	149.00	LAL	-.00	LOL	25.40	VL	24.716	GAL	5.88	AZL	87.78	HCA	91.85	SMA	113.37	ECC	.32889	INC	2.2241	VI	29.905
RP	107.50	LAP	2.22	LOP	117.25	VP	36.036	GAP	-18.98	AZP	90.07	TAL	167.74	TAP	259.59	RCA	76.09	APO	150.66	V2	35.252
RC	40.657	GL	8.85	GP	-7.62	ZAL	60.91	ZAP	9.64	ETS	125.72	ZAE	162.84	ETE	248.33	ZAC	43.43	ETC	147.51	CLP	5.93

PLANETOCENTRIC CONIC

C3	38.456	VHL	6.201	DLA	-4.88	RAL	324.21	RAD	6568.5	VEL	12.642	PTH	2.29	VHP	11.830	DPA	-29.32	RAP	307.80	ECC	1.6329

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 45 7	2224.80	-19.82	42.13	195.28	110.65	8 22 12	1624.8	-16.83	34.73
90.00	18 30 28	5172.07	25.73	231.30	198.55	77.76	19 56 41	4572.1	23.79	223.17
100.00	9 4 10	1969.80	-21.05	22.87	194.77	111.73	9 37 0	1369.8	-17.92	15.48
100.00	19 54 7	4902.30	27.03	211.13	198.22	76.72	21 15 49	4302.3	24.93	202.96
110.00	10 7 9	1772.61	-24.36	6.36	193.23	114.76	10 36 41	1172.6	-20.82	359.01
110.00	21 7 37	4672.26	30.51	192.62	197.18	73.78	22 25 29	4072.3	27.99	184.34

DIFFERENTIAL CORRECTIONS

TDE	-.4994	TRA	-1.4084	TC3	-.0594	BAU	.0745
RDE	-.3650	RRA	.2898	RC3	-.1322	FAU	.02049
FDE	.5498	FRA	.9608	FC3	-.4612	BSP	4281
BDE	.6185	BRA	1.4379	BC3	.1449	FSP	-259

MID-COURSE EXECUTION ACCURACY

SGT	1387.1	SGR	461.3	SG3	101.5		
RRT	-.2865	RRF	.2989	RTF	-.8324		
SGB	1461.8	R23	-.0352	R13	.8340		
SG1	1394.0	SG2	439.7	THA	173.95		

ORBIT DETERMINATION ACCURACY

ST	605.3	SR	346.7	SS	587.0
CRT	.5908	CRS	.7516	CST	.9754
LSA	872.8	MSA	262.8	SSA	15.9
ELI	646.5	EL2	261.9	ALF	22.61

LAUNCH DATE OCT 19 1965 FLIGHT TIME 96.00 ARRIVAL DATE JAN 23 1966

DISTANCE 230.822

HELIOCENTRIC CONIC

RL	149.00	LAL	-.00	LOL	25.40	VL	24.962	GAL	5.51	AZL	87.63	HCA	95.09	SMA	114.57	ECC	.31413	INC	2.3740	VI	29.905
RP	107.49	LAP	2.36	LOP	120.50	VP	36.208	GAP	-17.97	AZP	90.21	TAL	167.72	TAP	262.81	RCA	78.58	APO	150.56	V2	35.255
RC	40.351	GL	10.00	GP	-8.11	ZAL	60.92	ZAP	9.21	ETS	116.18	ZAE	162.70	ETE	258.41	ZAC	45.13	ETC	148.23	CLP	4.37

PLANETOCENTRIC CONIC

C3	35.131	VHL	5.927	DLA	-3.76	RAL	323.92	RAD	6568.4	VEL	12.510	PTH	2.27	VHP	11.275	DPA	-29.44	RAP	309.79	ECC	1.5782

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 35 34	2236.89	-20.10	42.90	193.71	110.37	8 12 51	1636.9	-17.15	35.47
90.00	18 37 44	5114.27	24.84	227.30	196.13	75.95	20 2 58	4514.3	22.66	219.31
100.00	8 55 9	1980.17	-21.31	23.53	193.22	111.47	9 28 10	1380.2	-18.21	16.11
100.00	20 0 50	4846.23	26.09	207.23	195.77	74.87	21 21 36	4246.2	23.76	199.21
110.00	9 59 22	1779.15	-24.55	6.78	191.73	114.57	10 29 1	1179.2	-21.02	359.40
110.00	21 13 7	4620.01	29.46	188.92	194.63	71.82	22 30 7	4020.0	26.69	180.83

DIFFERENTIAL CORRECTIONS

TDE	-.5039	TRA	-1.4001	TC3	-.0343	BAU	.0733
RDE	-.3326	RRA	.2846	RC3	-.1523	FAU	.02148
FDE	.5903	FRA	.9985	FC3	-.5294	BSP	4480
BDE	.6038	BRA	1.4288	BC3	.1561	FSP	-287

MID-COURSE EXECUTION ACCURACY

SGT	1441.8	SGR	460.4	SG3	111.2		
RRT	-.3164	RRF	.3318	RTF	-.8435		
SGB	1513.5	R23	-.0403	R13	.8453		
SG1	1449.9	SG2	434.4	THA	173.66		

ORBIT DETERMINATION ACCURACY

ST	634.7	SR	332.1	SS	623.9
CRT	.5835	CRS	.7494	CST	.9742
LSA	913.9	MSA	258.6	SSA	16.0
ELI	669.1	EL2	255.8	ALF	20.02

LAUNCH DATE OCT 19 1965 FLIGHT TIME 98.00 ARRIVAL DATE JAN 25 1966

DISTANCE 237.585

HELIOCENTRIC CONIC

RL	149.00	LAL	-.00	LOL	25.40	VL	25.189	GAL	5.15	AZL	87.47	HCA	98.34	SMA	115.71	ECC	.30026	INC	2.5255	VI	29.905
RP	107.48	LAP	2.50	LOP	123.75	VP	36.367	GAP	-17.01	AZP	90.37	TAL	167.74	TAP	266.08	RCA	80.97	APO	150.45	V2	35.257
RC	40.219	GL	11.24	GP	-8.66	ZAL	61.02	ZAP	9.09	ETS	105.75	ZAE	162.04	ETE	268.14	ZAC	46.84	ETC	148.86	CLP	2.80

PLANETOCENTRIC CONIC

C3	32.186	VHL	5.673	DLA	-2.58	RAL	323.54	RAD	6568.3	VEL	12.392	PTH	2.24	VHP	10.741	DPA	-29.60	RAP	311.78	ECC	1.5297

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 25 16	2251.42	-20.45	43.83	192.12	110.03	8 2 47	1651.4	-17.53	36.36
90.00	18 44 59	5055.59	23.81	223.31	193.71	74.20	20 9 15	4455.6	21.41	215.46
100.00	8 45 24	1992.91	-21.63	24.34	191.64	111.15	9 18 37	1392.9	-18.56	16.89
100.00	20 7 32	4789.33	25.02	203.34	193.32	73.09	21 27 21	4189.3	22.47	195.47
110.00	9 50 53	1787.92	-24.79	7.34	190.20	114.32	10 20 41	1187.9	-21.30	359.93
110.00	21 18 32	4567.09	28.28	185.25	192.11	69.94	22 34 39	3967.1	25.28	177.36

DIFFERENTIAL CORRECTIONS

TDE	-.5097	TRA	-1.3908	TC3	-.0048	BAU	.0753
RDE	-.3004	RRA	.2803	RC3	-.1749	FAU	.02258
FDE	.6358	FRA	1.0388	FC3	-.6073	BSP	4677
BDE	.5916	BRA	1.4188	BC3	.1750	FSP	-318

MID-COURSE EXECUTION ACCURACY

SGT	1497.3	SGR	460.2	SG3	121.9		
RRT	-.3501	RRF	.3691	RTF	-.8538		
SGB	1566.4	R23	-.0465	R13	.8558		
SG1	1506.7	SG2	428.3	THA	173.32		

ORBIT DETERMINATION ACCURACY

ST	665.5	SR	315.1	SS	664.1
CRT	.5736	CRS	.7446	CST	.9732
LSA	958.4	MSA	253.6	SSA	16.1
ELI	693.4	EL2	247.7	ALF	17.50

LAUNCH DATE OCT 19 1965 FLIGHT TIME 100.00 ARRIVAL DATE JAN 27 1966

DISTANCE 244.359

HELIOCENTRIC CONIC

RL	149.00	LAL	-.00	LOL	25.40	VL	25.400	GAL	4.82	AZL	87.32	HCA	101.58	SMA	116.80	ECC	.28727	INC	2.6795	VI	29.905
RP	107.48	LAP	2.62	LOP	127.00	VP	36.515	GAP	-16.07	AZP	90.54	TAL	167.82	TAP	269.40	RCA	83.24	APO	150.35	V2	35.259
RC	40.263	GL	12.56	GP	-9.27	ZAL	61.23	ZAP	9.35	ETS	95.21	ZAE	160.91	ETE	276.96	ZAC	48.55	ETC	149.41	CLP	1.19

PLANETOCENTRIC CONIC

C3	29.586	VHL	5.439	DLA	-1.34	RAL	323.06	RAD	6568.2	VEL	12.287	PTH	2.21	VHP	10.228	DPA	-29.81	RAP	313.77	ECC	1.4869

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 14 8	2268.71	-20.84	44.94	190.51	109.61	7 51 57	1668.7	-17.98	37.43
90.00	18 52 16	4995.99	22.65	219.33	191.31	72.53	20 15 32	4396.0	20.05	211.62
100.00	8 34 51	2008.34	-22.00	25.34	190.06	110.76	9 8 20	1408.3	-18.98	17.84
100.00	20 14 14	4731.60	23.82	199.47	190.89	71.39	21 33 5	4131.6	21.06	191.76
110.00	9 41 40	1799.20	-25.11	8.07	188.66	114.00	10 11 39	1199.2	-21.65	.62
110.00	21 23 54	4513.51	26.97	181.63	189.61	68.16	22 39 8	3913.5	23.77	173.93

DIFFERENTIAL CORRECTIONS

TDE	-.5175	TRA	-1.3809	TC3	.0290	BAU	.0801
RDE	-.2680	RRA	.2771	RC3	-.2004	FAU	.02380
FDE	.6872	FRA	1.0814	FC3	-.6964	BSP	4844
BDE	.5828	BRA	1.4085	BC3	.2024	FSP	-353

MID-COURSE EXECUTION ACCURACY

SGT	1554.1	SGR	460.9	SG3	133.8		
RRT	-.3878	RRF	.4112	RTF	-.8631		
SGB	1621.0	R23	-.0542	R13	.8654		
SG1	1565.2	SG2	421.8	THA	172.92		

ORBIT DETERMINATION ACCURACY

ST	698.4	SR	295.6	SS	707.8
CRT	.5602	CRS	.7360	CST	.9724
LSA	1007.1	MSA	247.9	SSA	16.2
ELI	720.2	EL2	237.5	ALF	15.01

LAUNCH DATE OCT 19 1965 FLIGHT TIME 102.00 ARRIVAL DATE JAN 29 1966

HELIOCENTRIC CONIC DISTANCE 251.138

RL	149.00	LAL	-.00	LOL	25.40	VL	25,595	GAL	4.49	AZL	87.16	HCA	104.83	SMA	117.83	ECC	.27511	INC	2.8372	V1	29.905
RP	107.48	LAP	2.74	LOP	130.25	VP	36,651	GAP	-15.17	AZP	90.73	TAL	167.95	TAP	272.78	RCA	85.41	APO	150.24	V2	35.259
RC	40.482	GL	13.99	GP	-9.96	ZAL	61.53	ZAP	9.97	ETS	85.36	ZAE	159.39	ETE	284.54	ZAC	50.28	ETC	149.88	CLP	-.44

PLANETOCENTRIC CONIC

C3	27.301	VHL	5.225	DLA	-.04	RAL	322.48	RAD	6568.1	VEL	12.193	PTH	2.19	VHP	9.736	DPA	-30.07	RAP	315.74	ECC	1.4493

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 2 9	2289.12	-21.30	46.26	188.91	109.11	7 40 18	1689.1	-18.50	38.71
90.00	18 59 38	4935.47	21.36	215.36	188.93	70.95	20 21 53	4335.5	18.56	207.80
100.00	8 23 28	2026.79	-22.44	26.53	188.47	110.28	8 57 15	1426.8	-19.48	18.99
100.00	20 20 59	4673.03	22.49	195.63	188.50	69.78	21 38 52	4073.0	19.54	188.08
110.00	9 31 41	1813.30	-25.49	8.98	187.13	113.58	10 1 54	1213.3	-22.08	1.48
110.00	21 29 16	4459.28	25.55	178.06	187.15	66.48	22 43 35	3859.3	22.14	170.56

DIFFERENTIAL CORRECTIONS

TDE	-.5228	TRA	-1.3646	TC3	.0745	BAU	.0878												
RDE	-.2353	RRA	.2750	RC3	-.2288	FAU	.02518												
FDE	.7449	FRA	1.1263	FC3	-.7985	BSP	5156												
BDE	.5733	BRA	1.3920	BC3	.2406	FSP	-394												

MID-COURSE EXECUTION ACCURACY

SGT	1604.3	SGR	463.3	SG3	146.8						
RRT	-.4332	RRF	.4587	RTF	-.8733						
SGB	1669.9	R23	-.0592	R13	.8759						
SG1	1617.7	SG2	414.1	THA	172.37						

ORBIT DETERMINATION ACCURACY

ST	728.1	SR	273.5	SS	754.8						
CRT	.5387	CRS	.7214	CST	.9714						
LSA	1056.4	MSA	241.9	SSA	16.2						
EL1	744.4	EL2	225.4	ALF	12.61						

LAUNCH DATE OCT 19 1965 FLIGHT TIME 104.00 ARRIVAL DATE JAN 31 1966

HELIOCENTRIC CONIC DISTANCE 257.922

RL	149.00	LAL	-.00	LOL	25.40	VL	25,775	GAL	4.19	AZL	87.00	HCA	108.07	SMA	118.80	ECC	.26377	INC	2.9997	V1	29.905
RP	107.48	LAP	2.85	LOP	133.50	VP	36,777	GAP	-14.30	AZP	90.93	TAL	168.12	TAP	276.19	RCA	87.46	APO	150.14	V2	35.259
RC	40.875	GL	15.51	GP	-10.73	ZAL	61.94	ZAP	10.93	ETS	76.78	ZAE	157.58	ETE	290.79	ZAC	52.01	ETC	150.27	CLP	-2.12

PLANETOCENTRIC CONIC

C3	25.305	VHL	5.030	DLA	1.34	RAL	321.80	RAD	6568.0	VEL	12.111	PTH	2.17	VHP	9.265	DPA	-30.41	RAP	317.71	ECC	1.4165

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 49 15	2313.00	-21.83	47.81	187.33	108.50	7 27 48	1713.0	-19.10	40.20
90.00	19 7 9	4873.97	19.94	211.41	186.61	69.47	20 28 23	4274.0	16.97	204.00
100.00	8 11 13	2048.61	-22.95	27.95	186.91	109.70	8 45 22	1448.6	-20.06	20.35
100.00	20 27 52	4613.59	21.05	191.81	186.15	68.27	21 44 45	4013.6	17.91	184.42
110.00	9 20 54	1830.53	-25.96	10.10	185.62	113.06	9 51 24	1230.5	-22.61	2.55
110.00	21 34 41	4404.44	24.01	174.54	184.76	64.90	22 48 5	3804.4	20.43	167.23

DIFFERENTIAL CORRECTIONS

TDE	-.5336	TRA	-1.3515	TC3	.1198	BAU	.0969												
RDE	-.2017	RRA	.2746	RC3	-.2603	FAU	.02666												
FDE	.8116	FRA	1.1747	FC3	-.9122	BSP	5354												
BDE	.5705	BRA	1.3791	BC3	.2666	FSP	-437												

MID-COURSE EXECUTION ACCURACY

SGT	1659.8	SGR	468.2	SG3	161.4						
RRT	-.4807	RRF	.5108	RTF	-.8818						
SGB	1724.6	R23	-.0682	R13	.8847						
SG1	1676.0	SG2	406.6	THA	171.79						

ORBIT DETERMINATION ACCURACY

ST	763.4	SR	248.3	SS	807.0						
CRT	.5078	CRS	.6970	CST	.9711						
LSA	1113.6	MSA	235.2	SSA	16.1						
EL1	774.6	EL2	210.8	ALF	10.14						

LAUNCH DATE OCT 19 1965 FLIGHT TIME 106.00 ARRIVAL DATE FEB 2 1966

HELIOCENTRIC CONIC DISTANCE 264.705

RL	149.00	LAL	-.00	LOL	25.40	VL	25.941	GAL	3.89	AZL	86.83	HCA	111.32	SMA	119.72	ECC	.25322	INC	3.1682	V1	29.905
RP	107.48	LAP	2.95	LOP	136.75	VP	36,892	GAP	-13.47	AZP	91.15	TAL	168.34	TAP	279.66	RCA	89.41	APO	150.04	V2	35.258
RC	41.437	GL	17.13	GP	-11.60	ZAL	62.44	ZAP	12.20	ETS	69.66	ZAE	155.59	ETE	295.82	ZAC	53.75	ETC	150.58	CLP	-3.83

PLANETOCENTRIC CONIC

C3	23.574	VHL	4.855	DLA	2.79	RAL	321.04	RAD	6568.0	VEL	12.040	PTH	2.15	VHP	8.814	DPA	-30.83	RAP	319.67	ECC	1.3880

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 35 24	2340.71	-22.42	49.63	185.79	107.77	7 14 24	1740.7	-19.78	41.95
90.00	19 14 53	4811.46	18.40	207.47	184.35	68.09	20 35 5	4211.5	15.26	200.20
100.00	7 58 2	2074.14	-23.53	29.63	185.39	108.99	8 32 36	1474.1	-20.72	21.96
100.00	20 34 56	4553.26	19.48	188.01	183.87	66.87	21 50 49	3953.3	16.18	180.77
110.00	9 9 16	1851.18	-26.50	11.46	184.15	112.42	9 40 7	1251.2	-23.23	3.83
110.00	21 40 11	4348.98	22.37	171.08	182.44	63.45	22 52 40	3749.0	18.62	163.94

DIFFERENTIAL CORRECTIONS

TDE	-.5469	TRA	-1.3371	TC3	.1698	BAU	.1073												
RDE	-.1669	RRA	.2759	RC3	-.2952	FAU	.02829												
FDE	.8882	FRA	1.2268	FC3	-1.0389	BSP	5552												
BDE	.5718	BRA	1.3653	BC3	.3405	FSP	-485												

MID-COURSE EXECUTION ACCURACY

SGT	1714.5	SGR	476.6	SG3	177.4						
RRT	-.5325	RRF	.5672	RTF	-.8897						
SGB	1779.5	R23	-.0784	R13	.8931						
SG1	1734.2	SG2	398.9	THA	171.11						

ORBIT DETERMINATION ACCURACY

ST	800.7	SR	220.0	SS	864.5						
CRT	.4580	CRS	.6551	CST	.9711						
LSA	1176.6	MSA	228.2	SSA	16.1						
EL1	807.4	EL2	194.0	ALF	7.62						

LAUNCH DATE OCT 19 1965 FLIGHT TIME 108.00 ARRIVAL DATE FEB 4 1966

HELIOCENTRIC CONIC DISTANCE 271.484

RL	149.00	LAL	-.00	LOL	25.40	VL	26.094	GAL	3.62	AZL	86.66	HCA	114.56	SMA	120.59	ECC	.24342	INC	3.3444	V1	29.905
RP	107.49	LAP	3.04	LOP	140.00	VP	36,998	GAP	-12.66	AZP	91.39	TAL	168.60	TAP	283.16	RCA	91.23	APO	149.94	V2	35.256
RC	42.162	GL	18.86	GP	-12.58	ZAL	63.04	ZAP	13.75	ETS	63.94	ZAE	153.48	ETE	299.76	ZAC	55.49	ETC	150.82	CLP	-5.59

PLANETOCENTRIC CONIC

C3	22.088	VHL	4.700	DLA	4.33	RAL	320.18	RAD	6567.9	VEL	11.978	PTH	2.13	VHP	8.384	DPA	-31.35	RAP	321.63	ECC	1.3635

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 20 31	2372.65	-23.06	51.75	184.31	106.90	7 0 3	1772.6	-20.53	43.99
90.00	19 22 56	4747.84	16.74	203.54	182.17	66.82	20 42 4	4147.8	13.46	196.40
100.00	7 43 53	2103.73	-24.17	31.59	183.93	108.15	8 18 57	1503.7	-21.46	23.84
100.00	20 42 15	4491.98	17.79	184.24	181.68	65.58	21 57 7	3892.0	14.35	177.14
110.00	8 56 47	1875.57	-27.13	13.08	182.75	111.65	9 28 2	1275.6	-23.94	5.37
110.00	21 45 50	4292.91	20.62	167.66	180.21	62.11	22 57 23	3692.9	16.73	160.70

DIFFERENTIAL CORRECTIONS

TDE	-.5625	TRA	-1.3211	TC3	.2228	BAU	.1185												
RDE	-.1301	RRA	.2793	RC3	-.3336	FAU	.03006												
FDE	.9768	FRA	1.2824	FC3	-1.1782	BSP	5746												
BDE	.5774	BRA	1.3503	BC3	.4011	FSP	-538												

MID-COURSE EXECUTION ACCURACY

SGT	1767.2	SGR	490.0	SG3	195.2						
RRT	-.5871	RRF	.6267	RTF	-.8971						
SGB	1833.8	R23	-.0900	R13	.9010						
SG1	1791.6	SG2	391.2	THA	170.29						

ORBIT DETERMINATION ACCURACY

ST	839.7	SR	189.1	SS	927.8						
CRT	.3723	CRS	.5799	CST	.9714						
LSA	1246.0	MSA	221.1	SSA	15.9						
EL1	842.8	EL2	174.9	ALF	5.01						

LAUNCH DATE OCT 19 1965 FLIGHT TIME 110.00 ARRIVAL DATE FEB 6 1966

DISTANCE 278.259

HELIOCENTRIC CONIC

RL 149.00 LAL -.00 LOL 25.40 VL 26.235 GAL 3.35 AZL 86.47 HCA 117.80 SMA 121.40 ECC .23435 INC 3.5300 V1 29.905
RP 107.49 LAP 3.12 LOP 143.25 VP 37.095 GAP -11.88 AZP 91.65 TAL 168.90 TAP 286.70 RCA 92.95 APO 149.85 V2 35.254
RC 43.042 GL 20.69 GP -13.69 ZAL 63.73 ZAP 15.53 ETS 59.44 ZAE 151.31 ETE 302.77 ZAC 57.24 ETC 150.98 CLP -7.40

PLANETOCENTRIC CONIC

C3 20.829 VHL 4.564 DLA 5.94 RAL 319.24 RAD 6567.8 VEL 11.925 PTH 2.12 VHP 7.976 DPA -32.00 RAP 323.58 ECC 1.3428

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	6 4 32	2409.21	-23.77	54.20	182.91	105.86	6 44 41	1809.2	-21.36	46.35
90.00	19 31 24	4683.01	14.96	199.61	180.09	65.67	20 49 27	4083.0	11.55	192.59
100.00	7 28 42	2137.77	-24.87	33.88	182.55	107.14	8 4 19	1537.8	-22.29	26.03
100.00	20 49 56	4429.68	16.00	180.48	179.59	64.41	22 3 45	3829.7	12.43	173.52
110.00	8 43 23	1904.02	-27.82	15.00	181.42	110.71	9 15 7	1304.0	-24.75	7.18
110.00	21 51 43	4236.20	18.78	164.29	178.09	60.90	23 2 20	3636.2	14.75	157.49

DIFFERENTIAL CORRECTIONS

TDE -.5809 TRA-1.3038 TC3 .2789 BAU .1303
RDE -.0908 RRA .2851 RC3 -.3757 FAU .03200
FDE 1.0788 FRA 1.3415 FC3-1.3300 BSP 5939
BDE .5880 BRA 1.3346 BC3 .4680 FSP -597

MID-COURSE EXECUTION ACCURACY

SGT 1817.9 SGR 510.1 SG3 214.7
RRT -.6432 RRF .6875 RTF -.9039
SGB 1888.1 R23 -.1030 R13 .9086
SG1 1848.7 SG2 384.0 THA 169.30

ORBIT DETERMINATION ACCURACY

ST 880.7 SR 157.4 SS 997.1
CRT .2148 CRS .4357 CST .9721
LSA 1322.3 MSA 214.3 SSA 15.6
EL1 881.4 EL2 153.6 ALF 2.27

LAUNCH DATE OCT 19 1965 FLIGHT TIME 112.00 ARRIVAL DATE FEB 8 1966

DISTANCE 285.024

HELIOCENTRIC CONIC

RL 149.00 LAL -.00 LOL 25.40 VL 26.364 GAL 3.11 AZL 86.27 HCA 121.04 SMA 122.16 ECC .22597 INC 3.7270 V1 29.905
RP 107.50 LAP 3.19 LOP 146.50 VP 37.184 GAP -11.12 AZP 91.92 TAL 169.23 TAP 290.27 RCA 94.55 APO 149.76 V2 35.250
RC 44.068 GL 22.62 GP -14.96 ZAL 64.51 ZAP 17.55 ETS 55.93 ZAE 149.13 ETE 304.98 ZAC 59.00 ETC 151.05 CLP -9.28

PLANETOCENTRIC CONIC

C3 19.786 VHL 4.448 DLA 7.64 RAL 318.21 RAD 6567.8 VEL 11.881 PTH 2.11 VHP 7.589 DPA -32.79 RAP 325.54 ECC 1.3256

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 47 23	2450.86	-24.51	57.02	181.61	104.64	6 28 14	1850.9	-22.26	49.08
90.00	19 40 24	4616.82	13.06	195.68	178.13	64.65	20 57 21	4016.8	9.54	188.77
100.00	7 12 24	2176.66	-25.62	36.52	181.27	105.94	7 48 40	1576.7	-23.19	28.57
100.00	20 58 4	4366.25	14.10	176.73	177.61	63.37	22 10 50	3766.3	10.41	169.88
110.00	8 29 2	1936.84	-28.59	17.24	180.20	109.58	9 1 19	1336.8	-25.66	9.30
110.00	21 57 55	4178.83	16.84	160.97	176.07	59.81	23 7 34	3578.8	12.71	154.30

DIFFERENTIAL CORRECTIONS

TDE -.6021 TRA-1.2850 TC3 .3358 BAU .1426
RDE -.0478 RRA .2939 RC3 -.4217 FAU .03409
FDE 1.1970 FRA 1.4042 FC3-1.4915 BSP 6132
BDE .6040 BRA 1.3182 BC3 .5391 FSP -663

MID-COURSE EXECUTION ACCURACY

SGT 1865.5 SGR 538.9 SG3 236.1
RRT -.6985 RRF .7468 RTF -.9102
SGB 1941.7 R23 -.1171 R13 .9159
SG1 1904.6 SG2 377.7 THA 168.12

ORBIT DETERMINATION ACCURACY

ST 923.4 SR 130.6 SS 1073.1
CRT -.0807 CRS .1488 CST .9730
LSA 1406.4 MSA 207.8 SSA 15.2
EL1 923.5 EL2 130.1 ALF 179.33

LAUNCH DATE OCT 19 1965 FLIGHT TIME 114.00 ARRIVAL DATE FEB 10 1966

DISTANCE 291.779

HELIOCENTRIC CONIC

RL 149.00 LAL -.00 LOL 25.40 VL 26.482 GAL 2.88 AZL 86.06 HCA 124.29 SMA 122.86 ECC .21826 INC 3.9377 V1 29.905
RP 107.51 LAP 3.25 LOP 149.75 VP 37.264 GAP -10.39 AZP 92.22 TAL 169.59 TAP 293.87 RCA 96.05 APO 149.68 V2 35.247
RC 45.230 GL 24.66 GP -16.41 ZAL 65.37 ZAP 19.79 ETS 53.22 ZAE 146.96 ETE 306.50 ZAC 60.78 ETC 151.05 CLP -11.23

PLANETOCENTRIC CONIC

C3 18.947 VHL 4.353 DLA 9.42 RAL 317.12 RAD 6567.8 VEL 11.846 PTH 2.10 VHP 7.225 DPA -33.76 RAP 327.52 ECC 1.3118

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 28 57	2498.13	-25.29	60.27	180.43	103.19	6 10 35	1898.1	-23.22	52.21
90.00	19 50 5	4549.05	11.06	191.71	176.31	63.76	21 5 54	3949.0	7.44	184.90
100.00	6 54 54	2220.87	-26.42	39.57	180.12	104.53	7 31 55	1620.9	-24.16	31.50
100.00	21 6 48	4301.53	12.09	172.98	175.78	62.45	22 18 30	3701.5	8.31	166.23
110.00	8 13 40	1974.41	-29.42	19.85	179.12	108.24	8 46 34	1374.4	-26.65	11.77
110.00	22 4 32	4120.76	14.83	157.68	174.20	58.84	23 13 13	3520.8	10.59	151.14

DIFFERENTIAL CORRECTIONS

TDE -.6266 TRA-1.2650 TC3 .3914 BAU .1552
RDE .0002 RRA .3060 RC3 -.4714 FAU .03632
FDE 1.3339 FRA 1.4702 FC3-1.6595 BSP 6324
BDE .6266 BRA 1.3015 BC3 .6128 FSP -734

MID-COURSE EXECUTION ACCURACY

SGT 1909.3 SGR 578.9 SG3 259.5
RRT -.7502 RRF .8020 RTF -.9159
SGB 1995.1 R23 -.1324 R13 .9228
SG1 1960.0 SG2 372.8 THA 166.70

ORBIT DETERMINATION ACCURACY

ST 967.8 SR 123.1 SS 1156.2
CRT -.5235 CRS -.3205 CST .9742
LSA 1499.2 MSA 202.0 SSA 14.7
EL1 970.0 EL2 104.6 ALF 176.15

LAUNCH DATE OCT 19 1965 FLIGHT TIME 116.00 ARRIVAL DATE FEB 12 1966

DISTANCE 298.521

HELIOCENTRIC CONIC

RL 149.00 LAL -.00 LOL 25.40 VL 26.590 GAL 2.66 AZL 85.83 HCA 127.53 SMA 123.52 ECC .21118 INC 4.1654 V1 29.905
RP 107.53 LAP 3.30 LOP 153.00 VP 37.336 GAP -9.69 AZP 92.54 TAL 169.97 TAP 297.49 RCA 97.44 APO 149.61 V2 35.242
RC 46.516 GL 26.80 GP -18.06 ZAL 66.31 ZAP 22.27 ETS 51.15 ZAE 144.80 ETE 307.41 ZAC 62.57 ETC 150.95 CLP -13.25

PLANETOCENTRIC CONIC

C3 18.307 VHL 4.279 DLA 11.29 RAL 315.95 RAD 6567.7 VEL 11.819 PTH 2.09 VHP 6.885 DPA -34.93 RAP 329.52 ECC 1.3013

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	5 9 4	2551.66	-26.06	64.00	179.40	101.48	5 51 36	1951.7	-24.22	55.81
90.00	20 0 39	4479.39	8.93	187.70	174.66	63.02	21 15 18	3879.4	5.24	180.96
100.00	6 36 6	2270.98	-27.22	43.07	179.12	102.85	7 13 57	1671.0	-25.18	34.87
100.00	21 16 18	4235.30	9.98	169.19	174.10	61.68	22 26 53	3635.3	6.12	162.53
110.00	7 57 13	2017.13	-30.30	22.87	178.20	106.65	8 30 50	1417.1	-27.72	14.63
110.00	22 11 40	4061.91	12.73	154.41	172.47	58.00	23 19 22	3461.9	8.41	147.98

DIFFERENTIAL CORRECTIONS

TDE -.6526 TRA-1.2418 TC3 .4482 BAU .1690
RDE .0548 RRA .3219 RC3 -.5253 FAU .03873
FDE 1.4906 FRA 1.5376 FC3-1.8317 BSP 6562
BDE .6549 BRA 1.2829 BC3 .6906 FSP -815

MID-COURSE EXECUTION ACCURACY

SGT 1945.9 SGR 633.0 SG3 284.6
RRT -.7972 RRF .8508 RTF -.9215
SGB 2046.2 R23 -.1469 R13 .9298
SG1 2012.6 SG2 369.5 THA 164.94

ORBIT DETERMINATION ACCURACY

ST 1011.2 SR 151.5 SS 1245.3
CRT -.8574 CRS -.7256 CST .9755
LSA 1599.1 MSA 197.0 SSA 14.0
EL1 1019.6 EL2 77.3 ALF 172.64

LAUNCH DATE OCT 19 1965 FLIGHT TIME 118.00 ARRIVAL DATE FEB 14 1966

HELIOCENTRIC CONIC DISTANCE 305.249

RL 149.00 LAL -.00 LOL 25.40 VL 26.689 GAL 2.46 AZL 85.59 HCA 130.76 SMA 124.13 ECC .20470 INC 4.4137 V1 29.905
RP 107.55 LAP 3.34 LOP 156.25 VP 37.402 GAP -9.00 AZP 92.89 TAL 170.36 TAP 301.13 RCA 98.72 APO 149.54 V2 35.236
RC 47.916 GL 29.04 GP -19.97 ZAL 67.32 ZAP 25.00 ETS 49.59 ZAE 142.63 ETE 307.76 ZAC 64.40 ETC 150.77 CLP -15.36

PLANETOCENTRIC CONIC

C3 17.867 VHL 4.227 DLA 13.25 RAL 314.72 RAD 6567.7 VEL 11.800 PTH 2.09 VHP 6.570 DPA -36.34 RAP 331.57 ECC 1.2940

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 47 33	2612.30	-26.82	68.28	178.54	99.46	5 31 5	2012.3	-25.23	59.97
90.00	20 12 21	4407.37	6.68	183.60	173.19	62.42	21 25 48	3807.4	2.94	176.92
100.00	6 15 48	2327.68	-28.02	47.10	178.30	100.87	6 54 36	1727.7	-26.23	38.75
100.00	21 26 47	4167.22	7.76	165.36	172.61	61.04	22 36 14	3567.2	3.84	158.77
110.00	7 39 35	2065.52	-31.19	26.36	177.47	104.76	8 14 1	1465.5	-28.85	17.94
110.00	22 19 29	4002.15	10.55	151.15	170.92	57.30	23 26 11	3402.2	6.16	144.80

DIFFERENTIAL CORRECTIONS
TOE -.6845 TRA-1.2198 TC3 .4927 BAU .1821
RDE .1187 RRA .3426 RC3 -.5820 FAU .04114
FDE 1.6729 FRA 1.6079 FC3-1.9933 BSP 6732
BDE .6947 BRA 1.2670 BC3 .7626 FSP -897

MID-COURSE EXECUTION ACCURACY
SGT 1979.9 SGR 704.0 SG3 311.5
RRT -.8356 RRF .8914 RTF -.9260
SGB 2101.3 R23 -.1628 R13 .9364
SG1 2068.5 SG2 370.2 THA 162.89

ORBIT DETERMINATION ACCURACY
ST 1058.6 SR 215.9 SS 1342.9
CRT -.9733 CRS -.9043 CST .9771
LSA 1712.7 MSA 192.8 SSA 13.3
EL1 1079.3 EL2 48.6 ALF 168.75

LAUNCH DATE OCT 19 1965 FLIGHT TIME 120.00 ARRIVAL DATE FEB 16 1966

HELIOCENTRIC CONIC DISTANCE 311.961

RL 149.00 LAL -.00 LOL 25.40 VL 26.778 GAL 2.27 AZL 85.31 HCA 134.00 SMA 124.69 ECC .19880 INC 4.6873 V1 29.905
RP 107.56 LAP 3.37 LOP 159.50 VP 37.460 GAP -8.34 AZP 93.26 TAL 170.77 TAP 304.77 RCA 99.90 APO 149.47 V2 35.230
RC 49.420 GL 31.38 GP -22.16 ZAL 68.38 ZAP 28.00 ETS 48.43 ZAE 140.42 ETE 307.60 ZAC 66.28 ETC 150.49 CLP -17.57

PLANETOCENTRIC CONIC

C3 17.630 VHL 4.199 DLA 15.30 RAL 313.43 RAD 6567.7 VEL 11.790 PTH 2.08 VHP 6.285 DPA -38.03 RAP 333.69 ECC 1.2902

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	4 24 5	2681.19	-27.49	73.21	177.87	97.07	5 8 46	2081.2	-26.23	64.77
90.00	20 25 32	4332.29	4.30	179.37	171.96	61.98	21 37 45	3732.3	.52	172.73
100.00	5 53 47	2391.93	-28.75	51.73	177.68	98.54	6 33 39	1791.9	-27.27	43.24
100.00	21 38 32	4096.78	5.42	161.44	171.34	60.56	22 46 49	3496.8	1.45	154.90
110.00	7 20 38	2120.19	-32.07	30.38	176.96	102.53	7 55 58	1520.2	-30.01	21.77
110.00	22 28 10	3941.29	8.29	147.88	169.58	56.72	23 33 51	3341.3	3.86	141.60

DIFFERENTIAL CORRECTIONS
TOE -.7201 TRA-1.1969 TC3 .5287 BAU .1959
RDE .1948 RRA .3690 RC3 -.6414 FAU .04353
FDE 1.8812 FRA 1.6783 FC3-2.1377 BSP 6922
BDE .7460 BRA 1.2525 BC3 .8312 FSP -985

MID-COURSE EXECUTION ACCURACY
SGT 2007.4 SGR 795.8 SG3 339.6
RRT -.8665 RRF .9236 RTF -.9302
SGB 2159.4 R23 -.1767 R13 .9431
SG1 2126.6 SG2 374.9 THA 160.41

ORBIT DETERMINATION ACCURACY
ST 1106.3 SR 309.0 SS 1446.9
CRT -.9977 CRS -.9655 CST .9787
LSA 1837.6 MSA 189.6 SSA 12.4
EL1 1148.4 EL2 20.3 ALF 164.42

LAUNCH DATE OCT 19 1965 FLIGHT TIME 122.00 ARRIVAL DATE FEB 18 1966

HELIOCENTRIC CONIC DISTANCE 318.654

RL 149.00 LAL -.00 LOL 25.40 VL 26.860 GAL 2.10 AZL 85.01 HCA 137.24 SMA 125.20 ECC .19343 INC 4.9925 V1 29.905
RP 107.58 LAP 3.39 LOP 162.75 VP 37.512 GAP -7.71 AZP 93.67 TAL 171.18 TAP 308.41 RCA 100.98 APO 149.42 V2 35.224
RC 51.018 GL 33.82 GP -24.68 ZAL 69.50 ZAP 31.30 ETS 47.57 ZAE 138.14 ETE 306.96 ZAC 68.22 ETC 150.12 CLP -19.89

PLANETOCENTRIC CONIC

C3 17.613 VHL 4.197 DLA 17.44 RAL 312.09 RAD 6567.7 VEL 11.790 PTH 2.08 VHP 6.032 DPA -40.05 RAP 335.94 ECC 1.2899

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	3 58 12	2760.02	-28.02	78.91	177.42	94.26	4 44 12	2160.0	-27.14	70.36
90.00	20 40 44	4252.92	1.75	174.94	171.00	61.73	21 51 37	3652.9	-2.04	168.31
100.00	5 29 40	2465.08	-29.38	57.08	177.28	95.79	6 10 45	1865.1	-28.26	48.45
100.00	21 51 57	4023.17	2.94	157.38	170.34	60.24	22 59 0	3423.2	-1.04	150.86
110.00	7 0 8	2181.99	-32.89	35.02	176.72	99.90	7 36 30	1582.0	-31.17	26.21
110.00	22 37 58	3879.02	5.95	144.58	168.47	56.28	23 42 37	3279.0	1.48	138.35

DIFFERENTIAL CORRECTIONS
TOE -.7588 TRA-1.1722 TC3 .5513 BAU .2101
RDE .2871 RRA .4016 RC3 -.7017 FAU .04576
FDE 2.1151 FRA 1.7437 FC3-2.2495 BSP 7110
BDE .8112 BRA 1.2391 BC3 .8924 FSP -1074

MID-COURSE EXECUTION ACCURACY
SGT 2025.1 SGR 911.5 SG3 367.9
RRT -.8899 RRF .9476 RTF -.9337
SGB 2220.8 R23 -.1872 R13 .9498
SG1 2187.2 SG2 385.0 THA 157.43

ORBIT DETERMINATION ACCURACY
ST 1151.7 SR 428.5 SS 1555.0
CRT -.9989 CRS -.9869 CST .9803
LSA 1973.1 MSA 187.3 SSA 11.4
EL1 1228.7 EL2 19.2 ALF 159.61

LAUNCH DATE OCT 19 1965 FLIGHT TIME 124.00 ARRIVAL DATE FEB 20 1966

HELIOCENTRIC CONIC DISTANCE 325.328

RL 149.00 LAL -.00 LOL 25.40 VL 26.933 GAL 1.94 AZL 84.66 HCA 140.47 SMA 125.67 ECC .18858 INC 5.3372 V1 29.905
RP 107.61 LAP 3.39 LOP 165.99 VP 37.558 GAP -7.09 AZP 94.12 TAL 171.58 TAP 312.05 RCA 101.97 APO 149.37 V2 35.216
RC 52.701 GL 36.36 GP -27.58 ZAL 70.66 ZAP 34.92 ETS 46.93 ZAE 135.71 ETE 305.89 ZAC 70.25 ETC 149.65 CLP -22.31

PLANETOCENTRIC CONIC

C3 17.838 VHL 4.224 DLA 19.67 RAL 310.70 RAD 6567.7 VEL 11.799 PTH 2.09 VHP 5.817 DPA -42.43 RAP 338.36 ECC 1.2936

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	3 29 7	2851.43	-28.30	85.58	177.18	90.93	4 16 38	2251.4	-27.87	76.94
90.00	20 58 43	4167.50	-1.01	170.17	170.38	61.70	22 8 10	3567.5	-4.79	163.52
100.00	5 2 52	2549.13	-29.79	63.29	177.13	92.55	5 45 21	1949.1	-29.12	54.55
100.00	22 7 39	3945.03	.29	153.09	169.66	60.11	23 13 24	3345.0	-3.69	146.56
110.00	6 37 48	2252.09	-33.58	40.37	176.76	96.81	7 15 20	1652.1	-32.27	31.38
110.00	22 49 12	3814.84	3.52	141.21	167.65	55.98	23 52 47	3214.8	-.97	135.00

DIFFERENTIAL CORRECTIONS
TOE -.7995 TRA-1.1447 TC3 .5632 BAU .2260
RDE .4006 RRA .4412 RC3 -.7619 FAU .04775
FDE 2.3723 FRA 1.7984 FC3-2.3173 BSP 7373
BDE .8942 BRA 1.2268 BC3 .9475 FSP -1166

MID-COURSE EXECUTION ACCURACY
SGT 2030.3 SGR 1055.2 SG3 395.0
RRT -.9073 RRF .9650 RTF -.9367
SGB 2288.2 R23 -.1916 R13 .9569
SG1 2252.9 SG2 399.9 THA 153.87

ORBIT DETERMINATION ACCURACY
ST 1192.2 SR 576.2 SS 1664.2
CRT -.9957 CRS -.9948 CST .9818
LSA 2118.5 MSA 185.8 SSA 10.3
EL1 1323.3 EL2 48.2 ALF 154.26

LAUNCH DATE OCT 19 1965 FLIGHT TIME 126.00 ARRIVAL DATE FEB 22 1966

DISTANCE 331.982

HELIOCENTRIC CONIC

RL	149.00	LAL	-.00	LOL	25.40	VL	27.000	GAL	1.80	AZL	84.27	HCA	143.70	SMA	126.10	ECC	.18422	INC	5.7324	VI	29.905
RP	107.63	LAP	3.39	LOP	169.24	VP	37.598	GAP	-6.49	AZP	94.63	TAL	171.98	TAP	315.68	RCA	102.87	APO	149.32	V2	35.208
RC	54.462	GL	39.00	GP	-30.93	ZAL	71.85	ZAP	38.89	ETS	46.44	ZAE	133.06	ETE	304.41	ZAC	72.41	ETC	149.09	CLP	-24.86

PLANETOCENTRIC CONIC

C3	18.349	VHL	4.284	DLA	22.00	RAL	309.26	RAD	6567.7	VEL	11.821	PTH	2.09	VHP	5.647	DPA	-45.21	RAP	341.06	ECC	1.3020

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	2 55 25	2960.06	-28.17	93.52	177.13	86.95	3 44 45	2360.1	-28.29	84.86
90.00	21 20 54	4072.05	-4.08	164.83	170.21	61.95	22 28 46	3472.0	-7.80	158.13
100.00	4 32 24	2647.38	-29.87	70.59	177.20	88.71	5 16 31	2047.4	-29.73	61.79
100.00	22 26 37	3859.97	-2.59	148.42	169.39	60.21	23 30 57	3260.0	-6.54	141.86
110.00	6 13 9	2332.18	-34.05	46.57	177.12	93.17	6 52 1	1732.2	-33.24	37.43
110.00	23 2 21	3747.93	.96	137.71	167.17	55.83	24 4 49	3147.9	-3.53	131.51

DIFFERENTIAL CORRECTIONS

TDE	-.8454	TRA	-1.1175	TC3	.5535	BAU	.2420	SGT	2025.4	SGR	1231.0	SG3	419.0
RDE	.5431	RRA	.4893	RC3	-.8166	FAU	.04904	RRT	-.9189	RRF	.9770	RTF	-.9389
FDE	2.6496	FRA	1.8383	FC3	-2.3137	BSP	7616	SGB	2370.2	R23	-.1895	R13	.9641
BDE	1.0048	BRA	1.2199	BC3	.9865	FSP	-1245	SG1	2332.3	SG2	421.8	THA	149.73

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

ST	1230.0	SR	756.9	SS	1772.4
CRT	-.9926	CRS	-.9980	CST	.9832
LSA	2278.8	MSA	184.9	SSA	9.2
EL1	1442.1	EL2	78.3	ALF	148.48

LAUNCH DATE OCT 19 1965 FLIGHT TIME 128.00 ARRIVAL DATE FEB 24 1966

DISTANCE 338.613

HELIOCENTRIC CONIC

RL	149.00	LAL	-.00	LOL	25.40	VL	27.059	GAL	1.67	AZL	83.81	HCA	146.93	SMA	126.48	ECC	.18030	INC	6.1931	VI	29.905
RP	107.66	LAP	3.38	LOP	172.48	VP	37.633	GAP	-5.91	AZP	95.20	TAL	172.35	TAP	319.28	RCA	103.68	APO	149.29	V2	35.200
RC	56.291	GL	41.74	GP	-34.77	ZAL	73.08	ZAP	43.24	ETS	46.02	ZAE	130.10	ETE	302.59	ZAC	74.73	ETC	148.46	CLP	-27.52

PLANETOCENTRIC CONIC

C3	19.213	VHL	4.383	DLA	24.42	RAL	307.76	RAD	6567.8	VEL	11.857	PTH	2.10	VHP	5.533	DPA	-48.44	RAP	344.19	ECC	1.3162

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	2 14 6	3095.73	-27.28	103.35	177.16	82.11	3 5 41	2495.7	-28.09	94.77
90.00	21 50 19	3958.02	-7.69	158.40	170.68	62.66	22 56 17	3358.0	-11.30	151.58
100.00	3 56 23	2765.93	-29.36	79.37	177.44	84.12	4 42 29	2165.9	-29.87	70.60
100.00	22 50 42	3763.05	-5.85	143.08	169.67	60.63	23 53 25	3163.1	-9.72	136.42
110.00	5 45 24	2424.87	-34.17	53.81	177.79	88.89	6 25 49	1824.9	-33.94	44.57
110.00	23 18 11	3676.87	-1.76	134.01	167.14	55.86	24 19 28	3076.9	-6.22	127.77

DIFFERENTIAL CORRECTIONS

TDE	-.8954	TRA	-1.0909	TC3	.5247	BAU	.2590	SGT	2008.5	SGR	1442.8	SG3	437.2
RDE	.7238	RRA	.5468	RC3	-.8613	FAU	.04937	RRT	-.9262	RRF	.9851	RTF	-.9403
FDE	2.9341	FRA	1.8551	FC3	-2.2247	BSP	7885	SGB	2473.0	R23	-.1798	R13	.9714
BDE	1.1514	BRA	1.2203	BC3	1.0085	FSP	-1305	SG1	2431.9	SG2	449.2	THA	144.99

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

ST	1261.3	SR	975.3	SS	1873.0
CRT	-.9904	CRS	-.9992	CST	.9845
LSA	2452.7	MSA	184.8	SSA	8.1
EL1	1590.8	EL2	106.6	ALF	142.35

LAUNCH DATE OCT 19 1965 FLIGHT TIME 130.00 ARRIVAL DATE FEB 26 1966

DISTANCE 345.221

HELIOCENTRIC CONIC

RL	149.00	LAL	-.00	LOL	25.40	VL	27.112	GAL	1.56	AZL	83.26	HCA	150.15	SMA	126.83	ECC	.17682	INC	6.7408	VI	29.905
RP	107.69	LAP	3.35	LOP	175.72	VP	37.662	GAP	-5.35	AZP	95.85	TAL	172.70	TAP	322.85	RCA	104.40	APO	149.25	V2	35.191
RC	58.184	GL	44.58	GP	-39.14	ZAL	74.34	ZAP	47.96	ETS	45.58	ZAE	126.74	ETE	300.50	ZAC	77.26	ETC	147.77	CLP	-30.29

PLANETOCENTRIC CONIC

C3	20.538	VHL	4.532	DLA	26.95	RAL	306.21	RAD	6567.8	VEL	11.913	PTH	2.12	VHP	5.490	DPA	-52.09	RAP	348.00	ECC	1.3380

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	1 15 6	3290.58	-24.72	117.02	176.86	75.73	2 9 56	2690.6	-26.44	108.77
90.00	22 36 54	3794.90	-12.65	148.98	172.25	64.45	23 40 9	3194.9	-15.99	141.90
100.00	3 10 15	2919.32	-27.78	90.48	177.64	78.48	3 58 55	2319.3	-29.08	81.92
100.00	23 24 25	3641.38	-9.85	136.26	170.80	61.64	24 25 6	3041.4	-13.57	129.44
110.00	5 13 13	2534.57	-33.69	62.34	178.71	83.86	5 55 27	1934.6	-34.18	53.12
110.00	23 37 57	3598.89	-4.73	129.93	167.68	56.11	24 37 56	2998.9	-9.15	123.63

DIFFERENTIAL CORRECTIONS

TDE	-.9447	TRA	-1.0614	TC3	.4811	BAU	.2778	SGT	1970.5	SGR	1690.7	SG3	445.1
RDE	.9532	RRA	.6127	RC3	-.8901	FAU	.04846	RRT	-.9303	RRF	.9904	RTF	-.9408
FDE	3.1985	FRA	1.8323	FC3	-2.0428	BSP	8297	SGB	2596.4	R23	-.1623	R13	.9785
BDE	1.3420	BRA	1.2256	BC3	1.0118	FSP	-1345	SG1	2551.9	SG2	478.8	THA	139.69

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

ST	1277.0	SR	1233.2	SS	1953.5
CRT	-.9890	CRS	-.9997	CST	.9854
LSA	2633.1	MSA	185.1	SSA	7.0
EL1	1770.3	EL2	131.8	ALF	136.01

LAUNCH DATE OCT 19 1965 FLIGHT TIME 132.00 ARRIVAL DATE FEB 28 1966

DISTANCE 351.805

HELIOCENTRIC CONIC

RL	149.00	LAL	-.00	LOL	25.40	VL	27.159	GAL	1.46	AZL	82.59	HCA	153.37	SMA	127.14	ECC	.17373	INC	7.4073	VI	29.905
RP	107.72	LAP	3.31	LOP	178.96	VP	37.687	GAP	-4.80	AZP	96.63	TAL	173.02	TAP	326.39	RCA	105.05	APO	149.23	V2	35.181
RC	60.133	GL	47.55	GP	-44.09	ZAL	75.63	ZAP	53.03	ETS	45.05	ZAE	122.88	ETE	298.24	ZAC	80.04	ETC	147.08	CLP	-33.15

PLANETOCENTRIC CONIC

C3	22.507	VHL	4.744	DLA	29.58	RAL	304.58	RAD	6567.9	VEL	11.995	PTH	2.14	VHP	5.539	DPA	-56.14	RAP	352.86	ECC	1.3704

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
81.06	22 34 23	3800.92	-19.74	152.71	175.38	67.51	23 37 44	3200.9	-22.62	145.12
98.94	1 4 34	3328.67	-19.73	118.01	175.37	67.50	2 0 3	2728.7	-22.61	110.43
100.00	1 48 52	3186.99	-22.79	108.78	176.65	70.12	2 41 59	2587.0	-25.29	100.87
100.00	0 36 42	3417.83	-16.74	123.24	173.98	64.87	1 33 40	2817.8	-19.99	115.95
110.00	4 33 50	2669.97	-32.23	72.62	179.69	77.95	5 18 20	2070.0	-33.56	63.64
110.00	0 8 13	3507.62	-8.17	125.10	169.08	56.69	1 6 41	2907.6	-12.50	118.68

DIFFERENTIAL CORRECTIONS

TDE	-.9993	TRA	-1.0351	TC3	.4171	BAU	.2960	SGT	1918.2	SGR	1976.5	SG3	439.4
RDE	1.2494	RRA	.6888	RC3	-.8909	FAU	.04568	RRT	-.9313	RRF	.9938	RTF	-.9402
FDE	3.4211	FRA	1.7665	FC3	-1.7570	BSP	8714	SGB	2754.3	R23	-.1389	R13	.9849
BDE	1.5999	BRA	1.2433	BC3	.9837	FSP	-1335	SG1	2706.6	SG2	510.4	THA	134.08

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

ST	1281.6	SR	1536.2	SS	2008.7
CRT	-.9879	CRS	-.9999	CST	.9861
LSA	2828.9	MSA	186.1	SSA	6.0
EL1	1994.8	EL2	152.8	ALF	129.78

LAUNCH DATE OCT 19 1965 FLIGHT TIME 134.00 ARRIVAL DATE MAR 2 1966

HELIOCENTRIC CONIC DISTANCE 358.362

RL	149.00	LAL	-.00	LOL	25.40	VL	27.201	GAL	1.38	AZL	81.76	HCA	156.58	SMA	127.41	ECC	.17102	INC	8.2416	VI	29.905
RP	107.75	LAP	3.27	LOP	182.20	VP	37.707	GAP	-4.27	AZP	97.57	TAL	173.30	TAP	329.89	RCA	105.62	APO	149.20	V2	35.171
RC	62.133	GL	50.62	GP	-49.59	ZAL	76.95	ZAP	58.39	ETS	44.37	ZAE	118.47	ETE	295.94	ZAC	83.11	ETC	146.47	CLP	-36.04

PLANETOCENTRIC CONIC

C3	25.429	VHL	5.043	DLA	32.32	RAL	302.84	RAD	6568.0	VEL	12.116	PTH	2.17	VHP	5.715	DPA	-60.44	RAP	359.46	ECC	1.4185

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
73.73	21 34 35	3998.04	-20.60	167.92	176.42	64.52	22 41 13	3398.0	-23.85	160.44
106.27	1 50 32	3191.33	-20.58	108.11	176.41	64.51	2 43 43	2591.3	-23.84	100.63
73.73	21 34 35	3998.04	-20.60	167.92	176.42	64.52	22 41 13	3398.0	-23.85	160.44
106.27	1 50 32	3191.33	-20.58	108.11	176.41	64.51	2 43 43	2591.3	-23.84	100.63
110.00	3 39 10	2855.80	-28.80	85.99	180.13	70.73	4 26 46	2255.8	-31.15	77.58
110.00	0 49 3	3381.57	-12.80	118.28	171.97	58.03	1 45 25	2781.6	-16.94	111.61

DIFFERENTIAL CORRECTIONS

TDE	-1.0553	TRA	-1.0109	TC3	.3409	BAU	.3129												
RDE	1.6318	RRA	.7723	RC3	-.8548	FAU	.04087												
FDE	3.5586	FRA	1.6451	FC3	-1.3915	BSP	9255												
BDE	1.9433	BRA	1.2721	BC3	.9203	FSP	-1277												

MID-COURSE EXECUTION ACCURACY

SGT	1844.8	SGR	2293.3	SG3	416.2						
RRT	-.9292	RRF	.9959	RTF	-.9380						
SGB	2943.2	R23	-.1118	R13	.9902						
SG1	2893.1	SG2	540.6	THA	128.36						

ORBIT DETERMINATION ACCURACY

ST	1266.5	SR	1880.2	SS	2023.4						
CRT	-.9870	CRS	-1.0000	CST	.9864						
LSA	3032.8	MSA	187.7	SSA	4.9						
EL1	2260.7	EL2	169.3	ALF	123.83						

LAUNCH DATE OCT 19 1965 FLIGHT TIME 136.00 ARRIVAL DATE MAR 4 1966

HELIOCENTRIC CONIC DISTANCE 364.891

RL	149.00	LAL	-.00	LOL	25.40	VL	27.237	GAL	1.31	AZL	80.68	HCA	159.79	SMA	127.66	ECC	.16867	INC	9.3234	VI	29.905
RP	107.78	LAP	3.21	LOP	185.44	VP	37.724	GAP	-3.76	AZP	98.76	TAL	173.54	TAP	333.33	RCA	106.12	APO	149.19	V2	35.160
RC	64.180	GL	53.81	GP	-55.64	ZAL	78.32	ZAP	63.91	ETS	43.53	ZAE	113.46	ETE	293.80	ZAC	86.52	ETC	146.10	CLP	-38.81

PLANETOCENTRIC CONIC

C3	29.874	VHL	5.466	DLA	35.15	RAL	300.97	RAD	6568.2	VEL	12.298	PTH	2.22	VHP	6.071	DPA	-64.67	RAP	8.88	ECC	1.4917

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
68.25	20 53 23	4141.56	-20.96	179.26	178.03	61.12	22 2 24	3541.6	-24.64	171.97
111.75	2 16 48	3128.00	-20.94	103.39	178.02	61.11	3 8 56	2528.0	-24.63	96.11
68.25	20 53 23	4141.56	-20.96	179.26	178.03	61.12	22 2 24	3541.6	-24.64	171.97
111.75	2 16 48	3128.00	-20.94	103.39	178.02	61.11	3 8 56	2528.0	-24.63	96.11
68.25	20 53 23	4141.56	-20.96	179.26	178.03	61.12	22 2 24	3541.6	-24.64	171.97
111.75	2 16 48	3128.00	-20.94	103.39	178.02	61.11	3 8 56	2528.0	-24.63	96.11

DIFFERENTIAL CORRECTIONS

TDE	-1.1146	TRA	-.9917	TC3	.2591	BAU	.3251												
RDE	2.1296	RRA	.8592	RC3	-.7718	FAU	.03401												
FDE	3.5741	FRA	1.4658	FC3	-.9856	BSP	9939												
BDE	2.4037	BRA	1.3122	BC3	.8141	FSP	-1167												

MID-COURSE EXECUTION ACCURACY

SGT	1749.8	SGR	2628.5	SG3	373.9						
RRT	-.9236	RRF	.9972	RTF	-.9339						
SGB	3157.7	R23	-.0833	R13	.9942						
SG1	3106.2	SG2	567.7	THA	122.82						

ORBIT DETERMINATION ACCURACY

ST	1229.1	SR	2256.9	SS	1987.4						
CRT	-.9858	CRS	-1.0000	CST	.9862						
LSA	3243.1	MSA	190.1	SSA	4.0						
EL1	2563.5	EL2	181.6	ALF	118.39						

LAUNCH DATE OCT 19 1965 FLIGHT TIME 138.00 ARRIVAL DATE MAR 6 1966

HELIOCENTRIC CONIC DISTANCE 371.386

RL	149.00	LAL	-.00	LOL	25.40	VL	27.268	GAL	1.25	AZL	79.21	HCA	162.98	SMA	127.87	ECC	.16664	INC	10.7916	VI	29.905
RP	107.81	LAP	3.14	LOP	188.67	VP	37.736	GAP	-3.27	AZP	100.33	TAL	173.72	TAP	336.70	RCA	106.56	APO	149.17	V2	35.149
RC	66.268	GL	57.09	GP	-62.17	ZAL	79.76	ZAP	69.42	ETS	42.69	ZAE	107.84	ETE	292.13	ZAC	90.31	ETC	146.29	CLP	-41.16

PLANETOCENTRIC CONIC

C3	36.970	VHL	6.080	DLA	38.03	RAL	298.91	RAD	6568.4	VEL	12.583	PTH	2.28	VHP	6.696	DPA	-68.25	RAP	22.66	ECC	1.6084

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
63.49	20 19 43	4270.55	-20.56	189.40	180.27	57.28	21 30 54	3670.6	-24.72	182.41
116.51	2 34 2	3106.40	-20.54	101.40	180.26	57.27	3 25 49	2506.4	-24.71	94.41
63.49	20 19 43	4270.55	-20.56	189.40	180.27	57.28	21 30 54	3670.6	-24.72	182.41
116.51	2 34 2	3106.40	-20.54	101.40	180.26	57.27	3 25 49	2506.4	-24.71	94.41
63.49	20 19 43	4270.55	-20.56	189.40	180.27	57.28	21 30 54	3670.6	-24.72	182.41
116.51	2 34 2	3106.40	-20.54	101.40	180.26	57.27	3 25 49	2506.4	-24.71	94.41

DIFFERENTIAL CORRECTIONS

TDE	-1.1906	TRA	-.9912	TC3	.1767	BAU	.3249												
RDE	2.7926	RRA	.9482	RC3	-.6332	FAU	.02530												
FDE	3.4513	FRA	1.2461	FC3	-.5925	BSP	10604												
BDE	3.0358	BRA	1.3717	BC3	.6574	FSP	-995												

MID-COURSE EXECUTION ACCURACY

SGT	1646.4	SGR	2967.2	SG3	315.3						
RRT	-.9135	RRF	.9977	RTF	-.9272						
SGB	3393.4	R23	-.0548	R13	.9970						
SG1	3340.8	SG2	595.0	THA	117.84						

ORBIT DETERMINATION ACCURACY

ST	1177.0	SR	2653.5	SS	1899.3						
CRT	-.9841	CRS	-1.0000	CST	.9855						
LSA	3463.5	MSA	194.3	SSA	3.1						
EL1	2896.5	EL2	191.4	ALF	113.69						

LAUNCH DATE OCT 19 1965 FLIGHT TIME 140.00 ARRIVAL DATE MAR 8 1966

HELIOCENTRIC CONIC DISTANCE 377.841

RL	149.00	LAL	-.00	LOL	25.40	VL	27.295	GAL	1.21	AZL	77.09	HCA	166.16	SMA	128.05	ECC	.16493	INC	12.9112	VI	29.905
RP	107.85	LAP	3.06	LOP	191.90	VP	37.745	GAP	-2.80	AZP	102.55	TAL	173.84	TAP	340.00	RCA	106.93	APO	149.17	V2	35.138
RC	68.394	GL	60.36	GP	-69.11	ZAL	81.28	ZAP	74.69	ETS	42.61	ZAE	101.61	ETE	291.78	ZAC	94.55	ETC	147.91	CLP	-42.22

PLANETOCENTRIC CONIC

C3	49.216	VHL	7.015	DLA	40.85	RAL	296.61	RAD	6568.8	VEL	13.061	PTH	2.38	VHP	7.760	DPA	-70.16	RAP	41.72	ECC	1.8100

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
59.23	19 50 33	4399.48	-19.00	199.06	183.16	53.13	21 3 53	3799.5	-23.66	192.50
120.77	2 44 52	3121.54	-18.98	101.52	183.15	53.12	3 36 53	2521.5	-23.65	94.95
59.23	19 50 33	4399.48	-19.00	199.06	183.16	53.13	21 3 53	3799.5	-23.66	192.50
120.77	2 44 52	3121.54	-18.98	101.52	183.15	53.12	3 36 53	2521.5	-23.65	94.95
59.23	19 50 33	4399.48	-19.00	199.06	183.16	53.13	21 3 53	3799.5	-23.66	192.50
120.77	2 44 52	3121.54	-18.98	101.52	183.15	53.12	3 36 53	2521.5	-23.65	94.95

DIFFERENTIAL CORRECTIONS

TDE	-1.3277	TRA	-1.0318	TC3	.1064	BAU	.3003												
RDE	3.6970	RRA	1.0242	RC3	-.4438	FAU	.01566												
FDE	3.1948	FRA	1.0042	FC3	-.2754	BSP	11356												
BDE	3.9282	BRA	1.4538	BC3	.4564	FSP	-793												

MID-COURSE EXECUTION ACCURACY

SGT	1561.8	SGR	3275.2	SG3	246.4						
RRT	-.8991	RRF	.9976	RTF	-.9194						
SGB	3628.6	R23	-.0264	R13	.9986						
SG1	3574.0	SG2	626.6	THA	113.99						

ORBIT DETERMINATION ACCURACY

ST	1134.7	SR	3037.6	SS	1762.9						
CRT	-.9821	CRS	-.9999	CST	.9847						
LSA	3685.4	MSA	201.1	SSA	2.5						
EL1	3236.4	EL2	200.7	ALF	110.23						

LAUNCH DATE OCT 19 1965 FLIGHT TIME 142.00 ARRIVAL DATE MAR 10 1966

DISTANCE 384.241

HELIOCENTRIC CONIC
RL 149.00 LAL -.00 LOL 25.40 VL 27.318 GAL 1.19 AZL 73.75 HCA 169.31 SMA 128.20 ECC .16351 INC16.2535 VI 29.905
RP 107.89 LAP 2.98 LOP 195.13 VP 37.750 GAP -2.34 AZP 105.99 TAL 173.88 TAP 343.18 RCA 107.24 APO 149.16 V2 35.126
RC 70.553 GL 63.39 GP -76.44 ZAL 82.92 ZAP 79.48 ETS 46.96 ZAE 94.62 ETE 296.43 ZAC 99.45 ETC 154.77 CLP -38.87

PLANETOCENTRIC CONIC
C3 73.098 VHL 8.550 DLA 43.36 RAL 294.03 RAD 6569.4 VEL 13.945 PTH 2.55 VHP 9.619 DPA -69.23 RAP 63.49 ECC 2.2030

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
55.68	19 25 17	4536.55	-15.76	208.32	186.65	49.07	20 40 53	3936.6	-20.90	202.28
124.32	2 49 33	3176.67	-15.75	103.60	186.64	49.06	3 42 30	2576.7	-20.89	97.56
55.68	19 25 17	4536.55	-15.76	208.32	186.65	49.07	20 40 53	3936.6	-20.90	202.28
124.32	2 49 33	3176.67	-15.75	103.60	186.64	49.06	3 42 30	2576.7	-20.89	97.56
55.68	19 25 17	4536.55	-15.76	208.32	186.65	49.07	20 40 53	3936.6	-20.90	202.28
124.32	2 49 33	3176.67	-15.75	103.60	186.64	49.06	3 42 30	2576.7	-20.89	97.56

DIFFERENTIAL CORRECTIONS
TDE-1.8436 TRA-1.2073 TC3 .0559 BAU .2215
RDE 4.9413 RRA 1.0211 RC3 -.2196 FAU .00596
FDE 2.8612 FRA ..7752 FC3 -.0706 BSP 12148
BDE 5.2740 BRA 1.5812 BC3 .2266 FSP -586

MID-COURSE EXECUTION ACCURACY
SGT 1665.5 SGR 3463.0 SG3 177.1
RRT -.8972 RRF .9956 RTF -.9302
SGB 3842.7 R23 .0042 R13 .9991
SG1 3783.2 SG2 673.4 THA 114.15

ORBIT DETERMINATION ACCURACY
ST 1279.8 SR 3323.4 SS 1603.5
CRT -.9840 CRS -.9997 CST .9884
LSA 3899.9 MSA 212.9 SSA 2.0
EL1 3555.0 EL2 212.9 ALF 110.83

LAUNCH DATE OCT 19 1965 FLIGHT TIME 144.00 ARRIVAL DATE MAR 12 1966

DISTANCE 390.544

HELIOCENTRIC CONIC
RL 149.00 LAL -.00 LOL 25.40 VL 27.336 GAL 1.20 AZL 67.71 HCA 172.39 SMA 128.33 ECC .16239 INC22.2926 VI 29.905
RP 107.92 LAP 2.88 LOP 198.35 VP 37.752 GAP -1.92 AZP 112.12 TAL 173.79 TAP 346.18 RCA 107.49 APO 149.16 V2 35.114
RC 72.741 GL 65.46 GP -83.43 ZAL 84.67 ZAP 83.54 ETS 99.75 ZAE 86.35 ETE 349.96 ZAC 105.56 ETC 211.01 CLP -10.32

PLANETOCENTRIC CONIC
C3 129.890 VHL 11.397 DLA 44.82 RAL 291.29 RAD 6570.4 VEL 15.850 PTH 2.81 VHP 13.188 DPA -64.66 RAP 82.50 ECC 3.1377

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
53.68	19 6 31	4680.79	-10.44	216.38	190.62	46.16	20 24 31	4080.8	-15.92	210.81
126.32	2 46 26	3279.53	-10.43	107.92	190.60	46.15	3 41 5	2679.5	-15.90	102.34
53.68	19 6 31	4680.79	-10.44	216.38	190.62	46.16	20 24 31	4080.8	-15.92	210.81
126.32	2 46 26	3279.53	-10.43	107.92	190.60	46.15	3 41 5	2679.5	-15.90	102.34
53.68	19 6 31	4680.79	-10.44	216.38	190.62	46.16	20 24 31	4080.8	-15.92	210.81
126.32	2 46 26	3279.53	-10.43	107.92	190.60	46.15	3 41 5	2679.5	-15.90	102.34

DIFFERENTIAL CORRECTIONS
TDE-7.2719 TRA-1.7496 TC3 -.0136 BAU .0432
RDE-1.9822 RRA -.5522 RC3 -.0209 FAU-.00387
FDE 2.5780 FRA .6054 FC3 .0258 BSP 13091
BDE 7.5372 BRA 1.8347 BC3 .0249 FSP -410

MID-COURSE EXECUTION ACCURACY
SGT 3860.5 SGR 1071.6 SG3 118.1
RRT .9982 RRF -.9985 RTF -.9994
SGB 4006.5 R23 -.0114 R13 -.9994
SG1 4006.0 SG2 61.5 THA 15.49

ORBIT DETERMINATION ACCURACY
ST 3674.7 SR 1003.4 SS 1484.0
CRT .9999 CRS .9998 CST 1.0000
LSA 4088.0 MSA 16.1 SSA 1.7
EL1 3809.2 EL2 15.4 ALF 15.27

LAUNCH DATE OCT 19 1965 FLIGHT TIME 146.00 ARRIVAL DATE MAR 14 1966

DISTANCE 396.614

HELIOCENTRIC CONIC
RL 149.00 LAL -.00 LOL 25.40 VL 27.351 GAL 1.26 AZL 54.01 HCA 175.27 SMA 128.43 ECC .16162 INC35.9891 VI 29.905
RP 107.96 LAP 2.77 LOP 201.57 VP 37.751 GAP -1.56 AZP 125.90 TAL 173.44 TAP 348.71 RCA 107.67 APO 149.18 V2 35.101
RC 74.954 GL 63.96 GP -79.26 ZAL 86.52 ZAP 86.65 ETS 177.61 ZAE 74.66 ETE 68.51 ZAC 114.86 ETC 293.98 CLP 71.70

PLANETOCENTRIC CONIC
C3 319.851 VHL 17.884 DLA 42.72 RAL 289.18 RAD 6571.8 VEL 21.004 PTH 3.19 VHP 21.446 DPA -54.83 RAP 96.67 ECC 6.2639

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
56.57	19 9 34	4788.42	-3.73	219.71	195.15	47.41	20 29 22	4188.4	-9.11	214.17
123.43	2 26 36	3448.01	-3.71	116.72	195.14	47.41	3 24 4	2848.0	-9.10	111.18
56.57	19 9 34	4788.42	-3.73	219.71	195.15	47.41	20 29 22	4188.4	-9.11	214.17
123.43	2 26 36	3448.01	-3.71	116.72	195.14	47.41	3 24 4	2848.0	-9.10	111.18
56.57	19 9 34	4788.42	-3.73	219.71	195.15	47.41	20 29 22	4188.4	-9.11	214.17
123.43	2 26 36	3448.01	-3.71	116.72	195.14	47.41	3 24 4	2848.0	-9.10	111.18

DIFFERENTIAL CORRECTIONS
TDE-2.9633 TRA .4661 TC3 -.0721 BAU .8948
RD-11.6547 RRA-2.6536 RC3 -.1964 FAU-.01997
FDE 2.6659 FRA .6152 FC3 .0541 BSP 12142
BDE12.0255 BRA 2.6943 BC3 .2093 FSP -249

MID-COURSE EXECUTION ACCURACY
SGT 1004.6 SGR 3971.6 SG3 79.1
RRT .8749 RRF -.9994 RTF -.8763
SGB 4096.7 R23 -.0223 R13 -.9991
SG1 4069.1 SG2 474.8 THA 77.35

ORBIT DETERMINATION ACCURACY
ST 951.3 SR 3750.0 SS 1589.6
CRT .9877 CRS 1.0000 CST .9875
LSA 4180.1 MSA 145.0 SSA 1.8
EL1 3866.1 EL2 144.1 ALF 75.91

LAUNCH DATE OCT 19 1965 FLIGHT TIME 148.00 ARRIVAL DATE MAR 16 1966

DISTANCE 401.657

HELIOCENTRIC CONIC
RL 149.00 LAL -.00 LOL 25.40 VL 27.363 GAL 1.52 AZL 12.84 HCA 177.27 SMA 128.51 ECC .16158 INC77.1607 VI 29.905
RP 108.00 LAP 2.66 LOP 204.79 VP 37.748 GAP -1.48 AZP 167.15 TAL 172.07 TAP 349.34 RCA 107.74 APO 149.27 V2 35.089
RC 77.191 GL 48.19 GP -55.16 ZAL 88.06 ZAP 88.45 ETS 182.37 ZAE 50.90 ETE 70.54 ZAC 134.16 ETC 311.88 CLP 87.29

PLANETOCENTRIC CONIC
C31280.259 VHL 35.781 DLA 26.76 RAL 290.74 RAD 6573.1 VEL 37.437 PTH 3.54 VHP 44.418 DPA -31.23 RAP 107.77 ECC22.0698

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	0 18 27	3945.96	-8.07	157.72	206.09	62.77	1 24 13	3346.0	-11.66	150.87
90.00	21 30 7	4484.06	9.07	187.96	197.37	63.06	22 44 51	3884.1	5.39	181.22
100.00	2 11 59	3579.99	-11.82	132.76	208.07	62.34	3 11 39	2980.0	-15.43	125.83
100.00	22 19 16	4325.26	12.84	174.34	195.41	62.77	23 31 22	3725.3	9.08	167.56
110.00	4 13 34	3199.54	-19.10	107.93	212.13	61.10	5 6 53	2599.5	-22.81	100.76
110.00	22 34 11	4278.48	20.16	166.80	191.41	61.79	23 45 29	3678.5	16.23	159.88

DIFFERENTIAL CORRECTIONS
TDE-5.8027 TRA 1.3550 TC3 -.0995 BAU 4.5844
RD-16.8193 RRA-5.6794 RC3 -.2487 FAU-.08046
FDE 3.5435 FRA 1.2649 FC3 .0544 BSP 10219
BDE17.7921 BRA 5.8388 BC3 .2678 FSP -187

MID-COURSE EXECUTION ACCURACY
SGT 1195.6 SGR 3385.0 SG3 62.6
RRT .8703 RRF -.9998 RTF -.8650
SGB 3589.9 R23 -.0604 R13 -.9980
SG1 3545.6 SG2 562.2 THA 72.46

ORBIT DETERMINATION ACCURACY
ST 932.3 SR 2711.1 SS 2193.7
CRT .9818 CRS 1.0000 CST .9805
LSA 3605.7 MSA 174.0 SSA 1.6
EL1 2862.0 EL2 167.9 ALF 71.28

LAUNCH DATE OCT 19 1965 FLIGHT TIME 150.00 ARRIVAL DATE MAR 18 1966

HELIOCENTRIC CONIC DISTANCE 411.590

RL	149.00	LAL	-.00	LOL	25.40	VL	27.371	GAL	.87	AZL	134.23	HCA	183.64	SMA	128.56	ECC	.15964	INC	44.2310
RP	108.04	LAP	2.54	LOP	208.01	VP	37.742	GAP	-.13	AZP	45.83	TAL	175.40	TAP	359.04	RCA	108.04	APO	149.09
RC	79.446	GL	-61.58	GP	71.66	ZAL	87.62	ZAP	89.37	ETS	191.22	ZAE	78.65	ETE	295.76	ZAC	91.69	ETC	69.78

V1	29.905	V2	35.076	CLP	87.99														

PLANETOCENTRIC CONIC

C3	471.176	VHL	21.707	DLA	-75.97	RAL	353.68	RAD	6572.3	VEL	24.341	PTH	3.32	VHP	28.808	DPA	80.92	RAP	238.36

ECC	8.7544																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
15.98	9 37 9	2404.89	2.77	80.98	262.97	165.96	10 17 14	1804.9	10.53	79.43
164.02	20 33 34	620.68	2.78	283.91	263.00	165.96	20 43 55	20.7	10.53	282.35
15.98	9 37 9	2404.89	2.77	80.98	262.97	165.96	10 17 14	1804.9	10.53	79.43
164.02	20 33 34	620.68	2.78	283.91	263.00	165.96	20 43 55	20.7	10.53	282.35
15.98	9 37 9	2404.89	2.77	80.98	262.97	165.96	10 17 14	1804.9	10.53	79.43
164.02	20 33 34	620.68	2.78	283.91	263.00	165.96	20 43 55	20.7	10.53	282.35

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	2.6416	TRA	-1.5977	TC3	-.1262	BAU	1.6285	SGT	1952.9	SGR	3688.5	SG3	73.1	ST	871.2	SR	1068.8	SS	622.4
RDE	-.2356	RRA	3.2647	RC3	.2257	FAU	-.02709	RRT	-.9394	RRF	.9991	RTF	-.9525	CRT	-.6450	CRS	-.9898	CST	.7473
FDE	-.1892	FRA	.7497	FC3	.0498	BSP	12732	SGB	4173.5	R23	-.0328	R13	.9994	LSA	1399.8	MSA	573.8	SSA	.9
BDE	2.6521	BRA	3.6347	BC3	.2585	FSP	-230	SG1	4130.5	SG2	598.0	THA	117.06	EL1	1257.4	EL2	565.9	ALF	126.15

LAUNCH DATE OCT 19 1965 FLIGHT TIME 152.00 ARRIVAL DATE MAR 20 1966

HELIOCENTRIC CONIC DISTANCE 417.343

RL	149.00	LAL	-.00	LOL	25.40	VL	27.376	GAL	1.02	AZL	112.51	HCA	186.30	SMA	128.60	ECC	.15957	INC	22.5102
RP	108.08	LAP	2.41	LOP	211.22	VP	37.734	GAP	.13	AZP	67.61	TAL	174.64	TAP	.94	RCA	108.08	APO	149.12
RC	81.719	GL	-65.77	GP	87.05	ZAL	85.16	ZAP	89.46	ETS	260.14	ZAE	93.33	ETE	2.68	ZAC	78.45	ETC	134.67

V1	29.905	V2	35.063	CLP	79.50														

PLANETOCENTRIC CONIC

C3	132.057	VHL	11.492	DLA	-75.14	RAL	14.27	RAD	6570.4	VEL	15.918	PTH	2.81	VHP	15.837	DPA	68.41	RAP	276.14

ECC	3.1733																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
16.94	11 1 13	2229.66	14.16	78.08	280.42	164.66	11 38 23	1629.7	21.87	76.23
163.06	21 53 47	5737.02	14.17	259.87	280.44	164.66	23 29 24	5137.0	21.87	258.01
16.94	11 1 13	2229.66	14.16	78.08	280.42	164.66	11 38 23	1629.7	21.87	76.23
163.06	21 53 47	5737.02	14.17	259.87	280.44	164.66	23 29 24	5137.0	21.87	258.01
16.94	11 1 13	2229.66	14.16	78.08	280.42	164.66	11 38 23	1629.7	21.87	76.23
163.06	21 53 47	5737.02	14.17	259.87	280.44	164.66	23 29 24	5137.0	21.87	258.01

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-2.2519	TRA	-2.2114	TC3	-.0388	BAU	.0778	SGT	4444.4	SGR	518.4	SG3	107.8	ST	1710.0	SR	447.0	SS	686.5
RDE	.8815	RRA	-.1392	RC3	.0208	FAU	.00039	RRT	.2891	RRF	-.2638	RTF	-.9993	CRT	-.5086	CRS	-.5561	CST	.9984
FDE	.7023	FRA	.6161	FC3	-.0025	BSP	13754	SGB	4474.5	R23	.0301	R13	-.9992	LSA	1857.3	MSA	381.7	SSA	1.3
BDE	2.4183	BRA	2.2158	BC3	.0440	FSP	-342	SG1	4447.0	SG2	496.0	THA	1.96	EL1	1725.9	EL2	381.3	ALF	172.04

LAUNCH DATE OCT 19 1965 FLIGHT TIME 154.00 ARRIVAL DATE MAR 22 1966

HELIOCENTRIC CONIC DISTANCE 423.470

RL	149.00	LAL	-.00	LOL	25.40	VL	27.379	GAL	1.10	AZL	104.17	HCA	189.31	SMA	128.62	ECC	.15957	INC	14.1684
RP	108.12	LAP	2.27	LOP	214.43	VP	37.724	GAP	.48	AZP	76.01	TAL	174.21	TAP	3.52	RCA	108.09	APO	149.14
RC	84.008	GL	-62.36	GP	84.03	ZAL	82.33	ZAP	90.44	ETS	347.73	ZAE	101.59	ETE	89.08	ZAC	70.90	ETC	217.74

V1	29.905	V2	35.050	CLP	-94.24														

PLANETOCENTRIC CONIC

C3	57.205	VHL	7.563	DLA	-71.74	RAL	6.74	RAD	6569.0	VEL	13.363	PTH	2.44	VHP	10.780	DPA	59.96	RAP	282.61

ECC	1.9414																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
20.85	10 39 14	2035.63	25.82	71.53	267.54	159.63	11 13 10	1435.6	33.28	68.62
159.15	21 15 41	5559.88	25.83	257.28	267.56	159.63	22 48 21	4959.9	33.29	254.37
20.85	10 39 14	2035.63	25.82	71.53	267.54	159.63	11 13 10	1435.6	33.28	68.62
159.15	21 15 41	5559.88	25.83	257.28	267.56	159.63	22 48 21	4959.9	33.29	254.37
20.85	10 39 14	2035.63	25.82	71.53	267.54	159.63	11 13 10	1435.6	33.28	68.62
159.15	21 15 41	5559.88	25.83	257.28	267.56	159.63	22 48 21	4959.9	33.29	254.37

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-.6812	TRA	.2477	TC3	-.0996	BAU	.3235	SGT	804.8	SGR	4477.8	SG3	164.0	ST	546.4	SR	1459.2	SS	602.5
RDE	-.8291	RRA	-1.8154	RC3	.4111	FAU	.01412	RRT	-.6656	RRF	-.9987	RTF	.6393	CRT	.1096	CRS	.9947	CST	.2116
FDE	.4452	FRA	.7608	FC3	-.2136	BSP	14229	SGB	4549.6	R23	.0503	R13	-.9981	LSA	1579.3	MSA	544.6	SSA	1.8
BDE	1.0730	BRA	1.8322	BC3	.4230	FSP	-531	SG1	4510.3	SG2	596.3	THA	96.94	EL1	1460.6	EL2	542.6	ALF	87.27

LAUNCH DATE OCT 19 1965 FLIGHT TIME 156.00 ARRIVAL DATE MAR 24 1966

HELIOCENTRIC CONIC DISTANCE 429.685

RL	149.00	LAL	-.00	LOL	25.40	VL	27.379	GAL	1.17	AZL	99.93	HCA	192.42	SMA	128.62	ECC	.15972	INC	9.9272
RP	108.16	LAP	2.13	LOP	217.64	VP	37.711	GAP	.86	AZP	80.30	TAL	173.83	TAP	6.25	RCA	108.07	APO	149.16
RC	86.309	GL	-56.55	GP	77.22	ZAL	79.36	ZAP	92.28	ETS	.27	ZAE	107.62	ETE	101.04	ZAC	65.05	ETC	225.83

V1	29.905	V2	35.036	CLP	-100.35														

PLANETOCENTRIC CONIC

C3	31.992	VHL	5.656	DLA	-67.02	RAL	356.19	RAD	6568.3	VEL	12.384	PTH	2.24	VHP	8.267	DPA	53.29	RAP	285.24

ECC	1.5265																		

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
26.33	10 9 1	1874.48	33.84	61.90	249.66	151.96	10 40 16	1274.5	40.81	57.35
153.67	20 21 46	5429.49	33.85	253.46	249.68	151.96	21 52 15	4829.5	40.81	248.92
26.33	10 9 1	1874.48	33.84	61.90	249.66	151.96	10 40 16	1274.5	40.81	57.35
153.67	20 21 46	5429.49	33.85	253.46	249.68	151.96	21 52 15	4829.5	40.81	248.92
26.33	10 9 1	1874.48	33.84	61.90	249.66	151.96	10 40 16	1274.5	40.81	57.35
153.67	20 21 46	5429.49	33.85	253.46	249.68	151.96	21 52 15	4829.5	40.81	248.92

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE	-.5383	TRA	.5246	TC3	-.4314	BAU	.4568	SGT	1545.2	SGR	4311.1	SG3	237.4	ST	681.4	SR	1252.8	SS	569.0
RDE	-.0772	RRA	-1.6058	RC3	.9769	FAU	.02646	RRT	-.9257	RRF	-.9988	RTF	.9180	CRT	-.5484	CRS	.9957	CST	-.4687
FDE	.1216	FRA	1.0106	FC3	-.7161	BSP	14348	SGB	4579.7	R23	.0587	R13	-.9973	LSA	1431.6	MSA	554.9	SSA	2.5
BDE	.5438	BRA	1.6894	BC3	1.0680	FSP	-773	SG1	4546.0	SG2	554.2	THA	108.64	EL1	1319.5	EL2	541.0	ALF	110.14

LAUNCH DATE OCT 19 1965 FLIGHT TIME 158.00 ARRIVAL DATE MAR 26 1966

DISTANCE 435.922

HELIOCENTRIC CONIC

RL 149.00 LAL -.00 LOL 25.40 VL 27.377 GAL 1.25 AZL 97.37 HCA 195.57 SMA 128.60 ECC .16004 INC 7.3734 V1 29.905
RP 108.20 LAP 1.97 LOP 220.85 VP 37.697 GAP 1.24 AZP 82.89 TAL 173.43 TAP 9.00 RCA 108.02 APO 149.18 V2 35.023
RC 88.623 GL -49.86 GP 71.30 ZAL 76.39 ZAP 94.86 ETS 7.17 ZAE 112.48 ETE 108.04 ZAC 59.89 ETC 228.45 CLP-105.31

PLANETOCENTRIC CONIC

C3 21.112 VHL 4.595 DLA -61.27 RAL 347.91 RAD 6567.9 VEL 11.937 PTH 2.12 VHP 6.819 DPA 47.40 RAP 286.49 ECC 1.3474

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
33.09	9 51 48	1746.39	37.70	49.93	232.84	142.60	10 20 54	1146.4	43.87	43.61
146.91	19 32 52	5352.29	37.70	249.21	232.85	142.59	21 2 5	4752.3	43.88	242.89
33.09	9 51 48	1746.39	37.70	49.93	232.84	142.60	10 20 54	1146.4	43.87	43.61
146.91	19 32 52	5352.29	37.70	249.21	232.85	142.59	21 2 5	4752.3	43.88	242.89
33.09	9 51 48	1746.39	37.70	49.93	232.84	142.60	10 20 54	1146.4	43.87	43.61
146.91	19 32 52	5352.29	37.70	249.21	232.85	142.59	21 2 5	4752.3	43.88	242.89

DIFFERENTIAL CORRECTIONS

TDE -.5142 TRA .6684 TC3 -.9407 BAU .5160
RDE .1855 RRA-1.4842 RC3 1.5676 FAU .03862
FDE -.0775 FRA 1.3209 FC3-1.5837 BSP 14286
BDE .5466 BRA 1.6277 BC3 1.8282 FSP -1042

MID-COURSE EXECUTION ACCURACY

SGT 2041.0 SGR 4117.8 SG3 321.8
RRT -.9603 RRF -.9986 RTF .9554
SGB 4595.9 R23 .0669 R13 -.9964
SG1 4567.1 SG2 513.1 THA 115.80

ORBIT DETERMINATION ACCURACY

ST 826.1 SR 1178.9 SS 608.9
CRT -.7705 CRS .9946 CST -.7003
LSA 1485.8 MSA 485.3 SSA 3.3
EL1 1365.9 EL2 454.5 ALF 122.38

LAUNCH DATE OCT 19 1965 FLIGHT TIME 160.00 ARRIVAL DATE MAR 28 1966

DISTANCE 442.159

HELIOCENTRIC CONIC

RL 149.00 LAL -.00 LOL 25.40 VL 27.372 GAL 1.33 AZL 95.66 HCA 198.73 SMA 128.57 ECC .16052 INC 5.6646 V1 29.905
RP 108.24 LAP 1.82 LOP 224.05 VP 37.682 GAP 1.62 AZP 84.63 TAL 173.01 TAP 11.74 RCA 107.93 APO 149.21 V2 35.010
RC 90.946 GL -43.00 GP 65.88 ZAL 73.55 ZAP 98.03 ETS 12.30 ZAE 116.52 ETE 114.00 ZAC 55.11 ETC 229.46 CLP-109.99

PLANETOCENTRIC CONIC

C3 15.685 VHL 3.960 DLA -55.06 RAL 342.10 RAD 6567.6 VEL 11.708 PTH 2.06 VHP 5.910 DPA 41.98 RAP 287.08 ECC 1.2581

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
40.59	9 48 19	1638.69	38.17	37.18	218.77	133.24	10 15 37	1038.7	43.39	29.57
139.41	18 50 1	5321.19	38.18	246.01	218.78	133.23	20 18 42	4721.2	43.40	238.40
40.59	9 48 19	1638.69	38.17	37.18	218.77	133.24	10 15 37	1038.7	43.39	29.57
139.41	18 50 1	5321.19	38.18	246.01	218.78	133.23	20 18 42	4721.2	43.40	238.40
40.59	9 48 19	1638.69	38.17	37.18	218.77	133.24	10 15 37	1038.7	43.39	29.57
139.41	18 50 1	5321.19	38.18	246.01	218.78	133.23	20 18 42	4721.2	43.40	238.40

DIFFERENTIAL CORRECTIONS

TDE -.4696 TRA .7894 TC3-1.5924 BAU .5523
RDE .2182 RRA-1.3802 RC3 2.0983 FAU .05071
FDE -.1397 FRA 1.6476 FC3-2.7991 BSP 14381
BDE .5178 BRA 1.5900 BC3 2.6741 FSP -1337

MID-COURSE EXECUTION ACCURACY

SGT 2455.1 SGR 3874.9 SG3 407.8
RRT -.9735 RRF -.9983 RTF .9693
SGB 4587.2 R23 .0763 R13 -.9954
SG1 4562.4 SG2 476.8 THA 122.06

ORBIT DETERMINATION ACCURACY

ST 905.9 SR 1093.6 SS 646.7
CRT -.8498 CRS .9912 CST -.7728
LSA 1499.4 MSA 432.1 SSA 4.2
EL1 1367.8 EL2 381.8 ALF 128.72

LAUNCH DATE OCT 19 1965 FLIGHT TIME 162.00 ARRIVAL DATE MAR 30 1966

DISTANCE 448.385

HELIOCENTRIC CONIC

RL 149.00 LAL -.00 LOL 25.40 VL 27.365 GAL 1.43 AZL 94.44 HCA 201.90 SMA 128.52 ECC .16117 INC 4.4362 V1 29.905
RP 108.29 LAP 1.65 LOP 227.25 VP 37.664 GAP 1.99 AZP 85.88 TAL 172.54 TAP 14.44 RCA 107.81 APO 149.24 V2 34.996
RC 93.279 GL -36.36 GP 60.82 ZAL 70.92 ZAP 101.64 ETS 16.39 ZAE 119.85 ETE 119.60 ZAC 50.63 ETC 229.55 CLP-114.45

PLANETOCENTRIC CONIC

C3 12.738 VHL 3.569 DLA -48.82 RAL 338.12 RAD 6567.5 VEL 11.581 PTH 2.03 VHP 5.315 DPA 36.89 RAP 287.33 ECC 1.2096

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
48.41	9 56 24	1538.36	36.41	24.73	207.93	125.11	10 22 2	938.4	40.70	16.51
131.59	18 10 11	5329.82	36.42	245.12	207.94	125.09	19 39 1	4729.8	40.71	236.90
48.41	9 56 24	1538.36	36.41	24.73	207.93	125.11	10 22 2	938.4	40.70	16.51
131.59	18 10 11	5329.82	36.42	245.12	207.94	125.09	19 39 1	4729.8	40.71	236.90
48.41	9 56 24	1538.36	36.41	24.73	207.93	125.11	10 22 2	938.4	40.70	16.51
131.59	18 10 11	5329.82	36.42	245.12	207.94	125.09	19 39 1	4729.8	40.71	236.90

DIFFERENTIAL CORRECTIONS

TDE -.3932 TRA .9082 TC3-2.3095 BAU .5749
RDE .1588 RRA-1.2917 RC3 2.4620 FAU .06144
FDE -.0759 FRA 1.9792 FC3-4.1760 BSP 14375
BDE .4240 BRA 1.5791 BC3 3.3757 FSP -1611

MID-COURSE EXECUTION ACCURACY

SGT 2831.9 SGR 3615.6 SG3 490.2
RRT -.9798 RRF -.9978 RTF .9758
SGB 4592.6 R23 .0855 R13 -.9942
SG1 4570.7 SG2 447.9 THA 127.93

ORBIT DETERMINATION ACCURACY

ST 917.7 SR 980.0 SS 668.4
CRT -.8797 CRS .9839 CST -.7809
LSA 1443.8 MSA 405.8 SSA 5.4
EL1 1301.8 EL2 328.5 ALF 132.86

LAUNCH DATE OCT 19 1965 FLIGHT TIME 164.00 ARRIVAL DATE APR 1 1966

DISTANCE 454.598

HELIOCENTRIC CONIC

RL 149.00 LAL -.00 LOL 25.40 VL 27.357 GAL 1.53 AZL 93.51 HCA 205.08 SMA 128.47 ECC .16197 INC 3.5064 V1 29.905
RP 108.33 LAP 1.49 LOP 230.44 VP 37.646 GAP 2.36 AZP 86.82 TAL 172.02 TAP 17.10 RCA 107.66 APO 149.27 V2 34.983
RC 95.621 GL -30.18 GP 56.06 ZAL 68.54 ZAP 105.53 ETS 19.68 ZAE 122.53 ETE 125.03 ZAC 46.46 ETC 228.90 CLP-118.67

PLANETOCENTRIC CONIC

C3 11.069 VHL 3.327 DLA -42.86 RAL 335.41 RAD 6567.4 VEL 11.509 PTH 2.00 VHP 4.919 DPA 32.10 RAP 287.44 ECC 1.1822

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
56.37	10 14 58	1433.33	33.42	12.66	200.08	118.58	10 38 51	833.3	36.94	4.29
123.63	17 29 58	5375.84	33.43	247.15	200.08	118.57	18 59 34	4775.8	36.95	238.77
56.37	10 14 58	1433.33	33.42	12.66	200.08	118.58	10 38 51	833.3	36.94	4.29
123.63	17 29 58	5375.84	33.43	247.15	200.08	118.57	18 59 34	4775.8	36.95	238.77
56.37	10 14 58	1433.33	33.42	12.66	200.08	118.58	10 38 51	833.3	36.94	4.29
123.63	17 29 58	5375.84	33.43	247.15	200.08	118.57	18 59 34	4775.8	36.95	238.77

DIFFERENTIAL CORRECTIONS

TDE -.2937 TRA 1.0267 TC3-3.0161 BAU .5928
RDE .0797 RRA-1.2089 RC3 2.6368 FAU .07033
FDE .0745 FRA 2.2906 FC3-5.5004 BSP 14378
BDE .3043 BRA 1.5860 BC3 4.0062 FSP -1848

MID-COURSE EXECUTION ACCURACY

SGT 3178.4 SGR 3341.3 SG3 562.4
RRT -.9832 RRF -.9972 RTF .9793
SGB 4611.5 R23 .0930 R13 -.9929
SG1 4592.2 SG2 421.8 THA 133.54

ORBIT DETERMINATION ACCURACY

ST 884.9 SR 864.7 SS 689.9
CRT -.9007 CRS .9717 CST -.7728
LSA 1362.2 MSA 388.8 SSA 6.8
EL1 1206.1 EL2 275.6 ALF 135.74

LAUNCH DATE OCT 19 1965 FLIGHT TIME 166.00 ARRIVAL DATE APR 3 1966

HELIOCENTRIC CONIC DISTANCE 460.793

RL 149.00 LAL -.00 LOL 25.40 VL 27.346 GAL 1.65 AZL 92.77 HCA 208.26 SMA 128.40 ECC .16294 INC 2.7744 VI 29.905
RP 108.37 LAP 1.31 LOP 233.63 VP 37.626 GAP 2.73 AZP 87.56 TAL 171.46 TAP 19.72 RCA 107.48 APO 149.32 V2 34.970
RC 97.969 GL -24.57 GP 51.60 ZAL 66.41 ZAP 109.57 ETS 22.33 ZAE 124.61 ETE 130.26 ZAC 42.64 ETC 227.54 CLP-122.63

PLANETOCENTRIC CONIC

C3 10.124 VHL 3.182 DLA -37.35 RAL 333.57 RAD 6567.4 VEL 11.468 PTH 1.99 VHP 4.658 DPA 27.62 RAP 287.52 ECC 1.1666

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
64.55	10 45 11	1309.23	29.92	.15	194.62	113.49	11 7 1	709.2	32.82	351.83
115.45	16 45 4	5463.72	29.93	252.58	194.63	113.48	18 16 8	4863.7	32.83	244.26
64.55	10 45 11	1309.23	29.92	.15	194.62	113.49	11 7 1	709.2	32.82	351.83
115.45	16 45 4	5463.72	29.93	252.58	194.63	113.48	18 16 8	4863.7	32.83	244.26
64.55	10 45 11	1309.23	29.92	.15	194.62	113.49	11 7 1	709.2	32.82	351.83
115.45	16 45 4	5463.72	29.93	252.58	194.63	113.48	18 16 8	4863.7	32.83	244.26

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.1801 TRA 1.1427 TC3-3.6581 BAU .6117 SGT 3496.5 SGR 3059.4 SG3 619.9 ST 844.5 SR 767.1 SS 728.2
RDE .0095 RRA-1.1261 RC3 2.6542 FAU .07734 RRT -.9854 RRF -.9963 RTF .9817 CRT -.9314 CRS .9563 CST -.7847
FDE .2721 FRA 2.5562 FC3-6.6140 BSP 14503 SGB 4646.0 R23 .0970 R13 -.9916 LSA 1303.0 MSA 366.0 SSA 8.5
BDE .1804 BRA 1.6043 BC3 4.5196 FSP -2049 SG1 4629.3 SG2 393.8 THA 138.87 EL1 1121.4 EL2 210.3 ALF 137.95

LAUNCH DATE OCT 19 1965 FLIGHT TIME 168.00 ARRIVAL DATE APR 5 1966

HELIOCENTRIC CONIC DISTANCE 466.970

RL 149.00 LAL -.00 LOL 25.40 VL 27.335 GAL 1.78 AZL 92.18 HCA 211.44 SMA 128.31 ECC .16406 INC 2.1800 VI 29.905
RP 108.41 LAP 1.14 LOP 236.82 VP 37.606 GAP 3.09 AZP 88.14 TAL 170.86 TAP 22.30 RCA 107.26 APO 149.37 V2 34.957
RC 100.323 GL -19.57 GP 47.45 ZAL 64.51 ZAP 113.62 ETS 24.44 ZAE 126.11 ETE 135.25 ZAC 39.21 ETC 225.50 CLP-126.34

PLANETOCENTRIC CONIC

C3 9.622 VHL 3.102 DLA -32.35 RAL 332.36 RAD 6567.3 VEL 11.446 PTH 1.99 VHP 4.494 DPA 23.46 RAP 287.64 ECC 1.1583

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
73.65	11 33 39	1137.70	26.33	345.07	190.97	109.52	11 52 37	537.7	28.74	336.88
106.35	15 46 56	5615.07	26.34	262.87	190.98	109.50	17 20 31	5015.1	28.75	254.68
73.65	11 33 39	1137.70	26.33	345.07	190.97	109.52	11 52 37	537.7	28.74	336.88
106.35	15 46 56	5615.07	26.34	262.87	190.98	109.50	17 20 31	5015.1	28.75	254.68
110.00	14 45 35	5804.84	20.36	274.59	188.11	118.07	16 22 20	5204.8	23.95	267.28
110.00	17 34 10	5283.97	32.64	239.33	192.93	100.78	19 2 14	4684.0	33.78	230.28

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE -.0565 TRA 1.2595 TC3-4.1930 BAU .6308 SGT 3789.7 SGR 2783.4 SG3 661.4 ST 836.4 SR 694.3 SS 791.6
RDE -.0456 RRA-1.0481 RC3 2.5428 FAU .08205 RRT -.9865 RRF -.9951 RTF .9833 CRT -.9694 CRS .9426 CST -.8324
FDE .4920 FRA 2.7740 FC3-7.3828 BSP 14694 SGB 4702.1 R23 .0967 R13 -.9904 LSA 1302.7 MSA 333.3 SSA 10.5
BDE .0726 BRA 1.6385 BC3 4.9038 FSP -2198 SG1 4687.6 SG2 368.4 THA 143.82 EL1 1079.0 EL2 132.1 ALF 140.47

LAUNCH DATE OCT 19 1965 FLIGHT TIME 170.00 ARRIVAL DATE APR 7 1966

HELIOCENTRIC CONIC DISTANCE 473.127

RL 149.00 LAL -.00 LOL 25.40 VL 27.321 GAL 1.92 AZL 91.68 HCA 214.62 SMA 128.22 ECC .16534 INC 1.6848 VI 29.905
RP 108.44 LAP .96 LOP 240.01 VP 37.584 GAP 3.45 AZP 88.61 TAL 170.21 TAP 24.83 RCA 107.02 APO 149.43 V2 34.945
RC 102.682 GL -15.17 GP 43.62 ZAL 62.79 ZAP 117.61 ETS 26.11 ZAE 127.13 ETE 139.91 ZAC 36.23 ETC 222.79 CLP-129.80

PLANETOCENTRIC CONIC

C3 9.411 VHL 3.068 DLA -27.88 RAL 331.60 RAD 6567.3 VEL 11.437 PTH 1.98 VHP 4.402 DPA 19.62 RAP 287.85 ECC 1.1549

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	12 53 27	870.56	20.15	322.89	187.68	110.32	13 7 57	270.6	22.74	315.17
90.00	14 21 9	5873.52	25.68	281.76	189.44	102.37	15 59 2	5273.5	27.13	273.39
100.00	13 26 40	763.12	17.05	313.64	186.31	114.93	13 39 24	163.1	20.27	306.33
100.00	16 30 36	5456.19	28.99	251.71	190.09	97.62	18 1 32	4856.2	29.74	242.98
110.00	13 31 55	746.67	12.47	309.83	183.74	122.09	13 44 21	146.7	16.62	303.18
110.00	18 41 51	5045.41	34.18	220.93	190.50	90.03	20 5 57	4445.4	33.81	211.70

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE .0730 TRA 1.3776 TC3-4.6060 BAU .6505 SGT 4059.2 SGR 2520.1 SG3 686.6 ST 887.9 SR 639.4 SS 872.2
RDE -.0838 RRA -.9757 RC3 2.3487 FAU .08450 RRT -.9868 RRF -.9935 RTF .9844 CRT -.9953 CRS .9325 CST -.8947
FDE .7103 FRA 2.9420 FC3-7.7734 BSP 14945 SGB 4777.9 R23 .0919 R13 -.9895 LSA 1367.7 MSA 295.2 SSA 12.4
BDE .1112 BRA 1.6881 BC3 5.1702 FSP -2294 SG1 4765.2 SG2 348.2 THA 148.32 EL1 1093.0 EL2 50.2 ALF 144.28

LAUNCH DATE OCT 19 1965 FLIGHT TIME 172.00 ARRIVAL DATE APR 9 1966

HELIOCENTRIC CONIC DISTANCE 479.264

RL 149.00 LAL -.00 LOL 25.40 VL 27.306 GAL 2.08 AZL 91.26 HCA 217.80 SMA 128.12 ECC .16679 INC 1.2638 VI 29.905
RP 108.48 LAP .77 LOP 243.19 VP 37.562 GAP 3.81 AZP 89.00 TAL 169.51 TAP 27.31 RCA 106.75 APO 149.49 V2 34.932
RC 105.043 GL -11.32 GP 40.11 ZAL 61.23 ZAP 121.45 ETS 27.42 ZAE 127.72 ETE 144.17 ZAC 33.74 ETC 219.45 CLP-133.02

PLANETOCENTRIC CONIC

C3 9.404 VHL 3.067 DLA -23.89 RAL 331.20 RAD 6567.3 VEL 11.437 PTH 1.98 VHP 4.366 DPA 16.12 RAP 288.19 ECC 1.1548

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	11 17 11	1188.86	11.53	342.25	184.24	116.04	11 37 0	588.9	14.94	335.23
90.00	15 54 11	5554.94	28.29	258.89	188.56	91.25	17 26 46	4954.9	28.17	250.22
100.00	12 19 2	989.21	10.12	326.85	183.51	118.28	12 35 32	389.2	13.82	320.01
100.00	17 35 1	5229.82	29.87	234.97	188.56	88.88	19 2 11	4629.8	29.40	226.20
110.00	12 48 37	896.46	6.94	317.89	181.58	123.56	13 3 33	296.5	11.30	311.52
110.00	19 21 56	4895.33	33.57	209.26	188.26	83.16	20 43 31	4295.3	32.26	200.27

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE .2079 TRA 1.4982 TC3-4.8939 BAU .6699 SGT 4305.0 SGR 2273.6 SG3 696.7 ST 1001.3 SR 595.0 SS 960.9
RDE -.1089 RRA -.9100 RC3 2.1072 FAU .08472 RRT -.9860 RRF -.9912 RTF .9850 CRT -.9984 CRS .9250 CST -.9425
FDE .9180 FRA 3.0637 FC3-7.7996 BSP 15193 SGB 4868.5 R23 .0846 R13 -.9887 LSA 1487.1 MSA 261.5 SSA 14.2
BDE .2347 BRA 1.7529 BC3 5.3282 FSP -2329 SG1 4856.9 SG2 335.8 THA 152.35 EL1 1164.4 EL2 28.6 ALF 149.30

LAUNCH DATE OCT 19 1965 FLIGHT TIME 174.00 ARRIVAL DATE APR 11 1966

DISTANCE 485.380

HELIOCENTRIC CONIC
RL 149.00 LAL -.00 LOL 25.40 VL 27.290 GAL 2.25 AZL 90.90 HCA 220.98 SMA 128.02 ECC .16839 INC .8993 V1 29.905
RP 108.52 LAP .59 LOP 246.38 VP 37.539 GAP 4.17 AZP 89.32 TAL 168.78 TAP 29.76 RCA 106.46 APO 149.57 V2 34.920
RC 107.406 GL -7.96 GP 36.91 ZAL 59.78 ZAP 125.12 ETS 28.46 ZAE 127.97 ETE 148.01 ZAC 31.75 ETC 215.59 CLP-136.01

PLANETOCENTRIC CONIC
C3 9.549 VHL 3.090 DLA -20.35 RAL 331.07 RAD 6567.3 VEL 11.443 PTH 1.98 VHP 4.372 DPA 12.96 RAP 288.66 ECC 1.1572

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	10 29 37	1360.48	6.23	352.08	182.86	117.68	10 52 17	760.5	9.89	345.31
90.00	16 40 41	5389.31	27.94	246.79	187.43	85.21	18 10 30	4789.3	26.98	238.26
100.00	11 37 44	1140.68	5.13	335.32	182.26	119.49	11 56 44	540.7	9.02	328.69
100.00	18 15 15	5084.36	29.19	224.22	187.29	83.27	19 40 0	4484.4	27.95	215.63
110.00	12 17 44	1015.30	2.43	324.14	180.58	124.11	12 34 39	415.3	6.89	317.89
110.00	19 51 44	4782.50	32.33	200.70	186.69	78.24	21 11 27	4182.5	30.37	192.03

DIFFERENTIAL CORRECTIONS
TDE .3424 TRA 1.6193 TC3-5.0833 BAU .6912
RDE -.1200 RRA -.8493 RC3 1.8635 FAU .08362
FDE 1.0942 FRA 3.1381 FC3-7.5813 BSP 15547
BDE .3628 BRA 1.8285 BC3 5.4141 FSP -2335

MID-COURSE EXECUTION ACCURACY
SGT 4530.7 SGR 2048.6 SG3 694.3
RRT -.9845 RRF -.9883 RTF .9855
SGB 4972.3 R23 .0741 R13 -.9881
SG1 4961.4 SG2 328.1 THA 155.89

ORBIT DETERMINATION ACCURACY
ST 1155.3 SR 551.9 SS 1041.5
CRT -.9858 CRS .9163 CST -.9700
LSA 1633.3 MSA 236.7 SSA 15.5
EL1 1277.6 EL2 83.8 ALF 154.67

LAUNCH DATE OCT 19 1965 FLIGHT TIME 176.00 ARRIVAL DATE APR 13 1966

DISTANCE 491.474

HELIOCENTRIC CONIC
RL 149.00 LAL -.00 LOL 25.40 VL 27.273 GAL 2.43 AZL 90.58 HCA 224.16 SMA 127.90 ECC .17016 INC .5788 V1 29.905
RP 108.56 LAP .40 LOP 249.55 VP 37.516 GAP 4.53 AZP 89.58 TAL 168.00 TAP 32.16 RCA 106.14 APO 149.66 V2 34.909
RC 109.770 GL -5.04 GP 34.02 ZAL 58.41 ZAP 128.58 ETS 29.28 ZAE 127.97 ETE 151.41 ZAC 30.28 ETC 211.32 CLP-138.80

PLANETOCENTRIC CONIC
C3 9.816 VHL 3.133 DLA -17.20 RAL 331.14 RAD 6567.4 VEL 11.454 PTH 1.99 VHP 4.413 DPA 10.12 RAP 289.27 ECC 1.1615

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 56 19	1491.85	2.03	359.45	182.43	118.25	10 21 11	891.9	5.79	352.79
90.00	17 14 37	5268.80	26.95	238.12	186.76	80.97	18 42 25	4668.8	25.43	229.78
100.00	11 7 45	1261.34	1.05	341.96	181.89	119.88	11 28 47	661.3	5.02	335.42
100.00	18 45 51	4974.55	28.05	216.26	186.54	79.23	20 8 46	4374.5	26.28	207.90
110.00	11 54 12	1115.84	-1.42	329.38	180.35	124.16	12 12 48	515.8	3.07	323.18
110.00	20 15 54	4692.81	30.89	194.10	185.78	74.58	21 34 7	4092.8	28.47	185.74

DIFFERENTIAL CORRECTIONS
TDE .4780 TRA 1.7432 TC3-5.1804 BAU .7126
RDE -.1220 RRA -.7953 RC3 1.6272 FAU .08125
FDE 1.2424 FRA 3.1772 FC3-7.1661 BSP 15931
BDE .4933 BRA 1.9160 BC3 5.4300 FSP -2308

MID-COURSE EXECUTION ACCURACY
SGT 4736.8 SGR 1846.0 SG3 682.1
RRT -.9819 RRF -.9845 RTF .9857
SGB 5083.8 R23 .0632 R13 -.9876
SG1 5073.3 SG2 326.4 THA 158.97

ORBIT DETERMINATION ACCURACY
ST 1332.6 SR 509.3 SS 1112.2
CRT -.9656 CRS .9050 CST -.9842
LSA 1795.3 MSA 220.9 SSA 16.3
EL1 1421.2 EL2 124.2 ALF 159.58

LAUNCH DATE OCT 19 1965 FLIGHT TIME 178.00 ARRIVAL DATE APR 15 1966

DISTANCE 497.546

HELIOCENTRIC CONIC
RL 149.00 LAL -.00 LOL 25.40 VL 27.255 GAL 2.63 AZL 90.29 HCA 227.33 SMA 127.78 ECC .17210 INC .2929 V1 29.905
RP 108.59 LAP .22 LOP 252.73 VP 37.492 GAP 4.88 AZP 89.80 TAL 167.19 TAP 34.52 RCA 105.79 APO 149.77 V2 34.897
RC 112.133 GL -2.50 GP 31.43 ZAL 57.10 ZAP 131.83 ETS 29.96 ZAE 127.78 ETE 154.39 ZAC 29.31 ETC 206.82 CLP-141.40

PLANETOCENTRIC CONIC
C3 10.185 VHL 3.191 DLA -14.40 RAL 331.39 RAD 6567.4 VEL 11.471 PTH 1.99 VHP 4.482 DPA 7.58 RAP 290.03 ECC 1.1676

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 30 58	1601.20	-1.50	5.55	182.64	118.28	9 57 39	1001.2	2.29	358.92
90.00	17 41 58	5174.16	25.76	231.45	186.54	77.83	19 8 12	4574.2	23.83	223.31
100.00	10 44 37	1363.58	-2.41	347.57	182.13	119.80	11 7 21	763.6	1.57	341.05
100.00	19 11 0	4887.02	26.78	210.06	186.28	76.20	20 32 27	4287.0	24.62	201.93
110.00	11 35 39	1203.76	-4.77	333.98	180.66	123.89	11 55 42	603.8	-.29	327.77
110.00	20 36 28	4619.61	29.45	188.89	185.41	71.80	21 53 27	4019.6	26.68	180.80

DIFFERENTIAL CORRECTIONS
TDE .6139 TRA 1.8706 TC3-5.2016 BAU .7338
RDE -.1172 RRA -.7477 RC3 1.4099 FAU .07799
FDE 1.3620 FRA 3.1883 FC3-6.6290 BSP 16328
BDE .6249 BRA 2.0145 BC3 5.3893 FSP -2255

MID-COURSE EXECUTION ACCURACY
SGT 4925.4 SGR 1665.8 SG3 662.6
RRT -.9781 RRF -.9795 RTF .9858
SGB 5199.4 R23 .0529 R13 -.9871
SG1 5189.0 SG2 329.1 THA 161.62

ORBIT DETERMINATION ACCURACY
ST 1518.7 SR 466.8 SS 1170.5
CRT -.9410 CRS .8894 CST -.9914
LSA 1962.0 MSA 211.9 SSA 16.6
EL1 1581.5 EL2 151.7 ALF 163.72

LAUNCH DATE OCT 19 1965 FLIGHT TIME 180.00 ARRIVAL DATE APR 17 1966

DISTANCE 503.596

HELIOCENTRIC CONIC
RL 149.00 LAL -.00 LOL 25.40 VL 27.235 GAL 2.84 AZL 90.04 HCA 230.51 SMA 127.65 ECC .17422 INC .0328 V1 29.905
RP 108.63 LAP .03 LOP 255.91 VP 37.467 GAP 5.24 AZP 89.98 TAL 166.34 TAP 36.85 RCA 105.41 APO 149.88 V2 34.886
RC 114.493 GL -.30 GP 29.09 ZAL 55.83 ZAP 134.86 ETS 30.53 ZAE 127.46 ETE 156.98 ZAC 28.80 ETC 202.27 CLP-143.83

PLANETOCENTRIC CONIC
C3 10.646 VHL 3.263 DLA -11.90 RAL 331.79 RAD 6567.4 VEL 11.491 PTH 2.00 VHP 4.573 DPA 5.33 RAP 290.92 ECC 1.1752

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	9 10 52	1696.01	-4.54	10.85	183.30	117.98	9 39 8	1096.0	-.77	4.21
90.00	18 5 10	5097.23	24.55	226.14	186.73	75.43	19 30 8	4497.2	22.31	218.18
100.00	10 26 10	1453.11	-5.43	352.51	182.81	119.44	10 50 23	853.1	-1.47	345.96
100.00	19 32 34	4815.36	25.52	205.11	186.44	73.89	20 52 50	4215.4	23.07	197.17
110.00	11 20 43	1282.24	-7.73	338.13	181.39	123.40	11 42 5	682.2	-3.28	331.86
110.00	20 54 30	4559.00	28.09	184.70	185.49	69.66	22 10 29	3959.0	25.06	176.83

DIFFERENTIAL CORRECTIONS
TDE .7498 TRA 2.0023 TC3-5.1580 BAU .7542
RDE -.1074 RRA -.7061 RC3 1.2145 FAU .07403
FDE 1.4549 FRA 3.1779 FC3-6.0204 BSP 16727
BDE .7575 BRA 2.1231 BC3 5.2990 FSP -2182

MID-COURSE EXECUTION ACCURACY
SGT 5096.6 SGR 1506.4 SG3 637.8
RRT -.9729 RRF -.9732 RTF .9856
SGB 5314.6 R23 .0440 R13 -.9866
SG1 5304.0 SG2 335.0 THA 163.89

ORBIT DETERMINATION ACCURACY
ST 1704.7 SR 425.0 SS 1215.9
CRT -.9116 CRS .8679 CST -.9952
LSA 2126.5 MSA 207.4 SSA 16.6
EL1 1748.6 EL2 170.3 ALF 167.07

LAUNCH DATE OCT 19 1965 FLIGHT TIME 182.00 ARRIVAL DATE APR 19 1966

HELIOCENTRIC CONIC DISTANCE 509.623

RL 149.00 LAL -.00 LOL 25.40 VL 27.215 GAL 3.06 AZL 89.80 HCA 233.68 SMA 127.51 ECC .17652 INC .1989 V1 29.905
RP 108.66 LAP -.16 LOP 259.08 VP 37.443 GAP 5.60 AZP 90.12 TAL 165.46 TAP 39.14 RCA 105.00 APO 150.02 V2 34.875
RC 116.852 GL 1.62 GP 27.00 ZAL 54.60 ZAP 137.69 ETS 31.04 ZAE 127.06 ETE 159.21 ZAC 28.72 ETC 197.86 CLP-146.10

PLANETOCENTRIC CONIC

C3 11.194 VHL 3.346 DLA -9.67 RAL 332.29 RAD 6567.4 VEL 11.514 PTH 2.01 VHP 4.685 DPA 3.34 RAP 291.95 ECC 1.1842

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 54 33	1780.26	-7.21	15.60	184.31	117.46	9 24 14	1180.3	-3.48	8.92
90.00	18 25 31	5033.53	23.39	221.83	187.26	73.57	19 49 24	4433.5	20.92	214.03
100.00	10 11 8	1533.18	-8.09	356.97	183.84	118.88	10 36 42	933.2	-4.17	350.37
100.00	19 51 37	4755.84	24.34	201.09	186.94	72.09	21 10 53	4155.8	21.66	193.31
110.00	11 8 34	1353.37	-10.37	341.94	182.46	122.75	11 31 7	753.4	-5.98	335.60
110.00	21 10 41	4508.42	26.84	181.29	185.93	67.99	22 25 49	3908.4	23.62	173.61

DIFFERENTIAL CORRECTIONS
TDE .8883 TRA 2.1415 TC3-5.0579 BAU .7728
RDE -.0950 RRA -.6709 RC3 1.0410 FAU .06954
FDE 1.5291 FRA 3.1574 FC3-5.3785 BSP 17069
BDE .8934 BRA 2.2441 BC3 5.1640 FSP -2089

MID-COURSE EXECUTION ACCURACY
SGT 5254.4 SGR 1367.5 SG3 610.3
RRT -.9660 RRF -.9654 RTF .9853
SGB 5429.5 R23 .0371 R13 -.9860
SG1 5418.6 SG2 342.9 THA 165.83

ORBIT DETERMINATION ACCURACY
ST 1889.5 SR 386.2 SS 1252.6
CRT -.8768 CRS .8397 CST -.9972
LSA 2290.4 MSA 205.5 SSA 16.5
EL1 1919.9 EL2 182.8 ALF 169.75

LAUNCH DATE OCT 19 1965 FLIGHT TIME 184.00 ARRIVAL DATE APR 21 1966

HELIOCENTRIC CONIC DISTANCE 515.625

RL 149.00 LAL -.00 LOL 25.40 VL 27.194 GAL 3.30 AZL 89.58 HCA 236.85 SMA 127.37 ECC .17901 INC .4156 V1 29.905
RP 108.69 LAP -.35 LOP 262.25 VP 37.418 GAP 5.96 AZP 90.23 TAL 164.54 TAP 41.39 RCA 104.57 APO 150.17 V2 34.865
RC 119.206 GL 3.28 GP 25.13 ZAL 53.39 ZAP 140.32 ETS 31.52 ZAE 126.60 ETE 161.14 ZAC 29.01 ETC 193.72 CLP-148.22

PLANETOCENTRIC CONIC

C3 11.827 VHL 3.439 DLA -7.67 RAL 332.89 RAD 6567.5 VEL 11.542 PTH 2.01 VHP 4.813 DPA 1.59 RAP 293.10 ECC 1.1946

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 41 7	1856.41	-9.58	19.95	185.60	116.78	9 12 3	1256.4	-5.91	13.19
90.00	18 43 44	4980.27	22.32	218.29	188.07	72.11	20 6 44	4380.3	19.67	210.63
100.00	9 58 46	1605.88	-10.45	1.07	185.14	118.17	10 25 32	1005.9	-6.60	354.39
100.00	20 8 46	4706.02	23.25	197.78	187.73	70.67	21 27 12	4106.0	20.40	190.15
110.00	10 58 36	1418.58	-12.75	345.49	183.78	121.99	11 22 14	818.6	-8.43	339.06
110.00	21 25 26	4466.10	25.73	178.50	186.66	66.68	22 39 52	3866.1	22.35	170.98

DIFFERENTIAL CORRECTIONS
TDE 1.0246 TRA 2.2839 TC3-4.9265 BAU .7917
RDE -.0792 RRA -.6397 RC3 .8943 FAU .06509
FDE 1.5787 FRA 3.1216 FC3-4.7647 BSP 17461
BDE 1.0277 BRA 2.3718 BC3 5.0070 FSP -1999

MID-COURSE EXECUTION ACCURACY
SGT 5397.8 SGR 1245.8 SG3 580.9
RRT -.9574 RRF -.9559 RTF .9849
SGB 5539.7 R23 .0308 R13 -.9855
SG1 5528.6 SG2 351.3 THA 167.49

ORBIT DETERMINATION ACCURACY
ST 2061.8 SR 349.1 SS 1275.5
CRT -.8321 CRS .8005 CST -.9984
LSA 2440.8 MSA 205.4 SSA 16.3
EL1 2082.3 EL2 191.7 ALF 171.91

LAUNCH DATE OCT 19 1965 FLIGHT TIME 186.00 ARRIVAL DATE APR 23 1966

HELIOCENTRIC CONIC DISTANCE 521.603

RL 149.00 LAL -.00 LOL 25.40 VL 27.172 GAL 3.56 AZL 89.38 HCA 240.02 SMA 127.23 ECC .18170 INC .6169 V1 29.905
RP 108.72 LAP -.53 LOP 265.42 VP 37.393 GAP 6.32 AZP 90.31 TAL 163.59 TAP 43.61 RCA 104.11 APO 150.34 V2 34.856
RC 121.557 GL 4.73 GP 23.46 ZAL 52.20 ZAP 142.77 ETS 32.00 ZAE 126.13 ETE 162.79 ZAC 29.62 ETC 189.95 CLP-150.23

PLANETOCENTRIC CONIC

C3 12.546 VHL 3.542 DLA -5.86 RAL 333.57 RAD 6567.5 VEL 11.573 PTH 2.02 VHP 4.957 DPA .06 RAP 294.37 ECC 1.2065

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 29 56	1926.15	-11.69	23.99	187.13	115.98	9 2 2	1326.2	-8.10	17.14
90.00	19 0 19	4935.52	21.36	215.37	189.11	70.95	20 22 35	4335.5	18.56	207.81
100.00	9 48 30	1672.71	-12.57	4.90	186.68	117.35	10 16 23	1072.7	-8.81	358.13
100.00	20 24 26	4664.20	22.29	195.05	188.75	69.55	21 42 10	4064.2	19.30	187.53
110.00	10 50 23	1478.95	-14.90	348.85	185.33	121.12	11 15 2	878.9	-10.67	342.30
110.00	21 39 2	4430.72	24.76	176.22	187.64	65.64	22 52 53	3830.7	21.26	168.81

DIFFERENTIAL CORRECTIONS
TDE 1.1605 TRA 2.4320 TC3-4.7661 BAU .8097
RDE -.0617 RRA -.6127 RC3 .7688 FAU .06062
FDE 1.6110 FRA 3.0786 FC3-4.1833 BSP 17855
BDE 1.1621 BRA 2.5080 BC3 4.8278 FSP -1907

MID-COURSE EXECUTION ACCURACY
SGT 5528.3 SGR 1139.9 SG3 550.8
RRT -.9468 RRF -.9444 RTF .9845
SGB 5644.6 R23 .0257 R13 -.9849
SG1 5633.2 SG2 360.0 THA 168.91

ORBIT DETERMINATION ACCURACY
ST 2223.0 SR 315.6 SS 1288.7
CRT -.7750 CRS .7483 CST -.9990
LSA 2580.5 MSA 206.3 SSA 16.0
EL1 2236.5 EL2 198.2 ALF 173.67

LAUNCH DATE OCT 19 1965 FLIGHT TIME 188.00 ARRIVAL DATE APR 25 1966

HELIOCENTRIC CONIC DISTANCE 527.555

RL 149.00 LAL -.00 LOL 25.40 VL 27.149 GAL 3.83 AZL 89.19 HCA 243.19 SMA 127.08 ECC .18461 INC .8057 V1 29.905
RP 108.75 LAP -.72 LOP 268.59 VP 37.368 GAP 6.69 AZP 90.36 TAL 162.62 TAP 45.81 RCA 103.62 APO 150.54 V2 34.846
RC 123.903 GL 5.98 GP 21.96 ZAL 51.02 ZAP 145.06 ETS 32.50 ZAE 125.65 ETE 164.22 ZAC 30.49 ETC 186.60 CLP-152.12

PLANETOCENTRIC CONIC

C3 13.356 VHL 3.655 DLA -4.24 RAL 334.31 RAD 6567.5 VEL 11.608 PTH 2.03 VHP 5.114 DPA -1.27 RAP 295.74 ECC 1.2198

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 20 35	1990.69	-13.58	27.78	188.85	115.09	8 53 46	1390.7	-10.09	20.84
90.00	19 15 35	4897.91	20.50	212.94	190.35	70.03	20 37 13	4297.9	17.60	205.47
100.00	9 39 57	1734.70	-14.48	8.51	188.40	116.44	10 8 51	1134.7	-10.81	1.64
100.00	20 38 55	4629.14	21.43	192.80	189.98	68.65	21 56 4	4029.1	18.34	185.37
110.00	10 43 38	1535.31	-16.86	352.05	187.07	120.19	11 9 13	935.3	-12.72	345.38
110.00	21 51 43	4401.29	23.92	174.34	188.82	64.82	23 5 4	3801.3	20.33	167.04

DIFFERENTIAL CORRECTIONS
TDE 1.2973 TRA 2.5872 TC3-4.5819 BAU .8266
RDE -.0433 RRA -.5898 RC3 .6613 FAU .05618
FDE 1.6309 FRA 3.0324 FC3-3.6417 BSP 18224
BDE 1.2981 BRA 2.6535 BC3 4.6294 FSP -1813

MID-COURSE EXECUTION ACCURACY
SGT 5647.5 SGR 1047.8 SG3 520.9
RRT -.9341 RRF -.9308 RTF .9840
SGB 5743.9 R23 .0215 R13 -.9843
SG1 5732.1 SG2 368.5 THA 170.13

ORBIT DETERMINATION ACCURACY
ST 2374.0 SR 286.7 SS 1295.0
CRT -.7036 CRS .6813 CST -.9994
LSA 2711.4 MSA 207.6 SSA 15.8
EL1 2382.6 EL2 203.0 ALF 175.11

LAUNCH DATE OCT 19 1965 FLIGHT TIME 190.00 ARRIVAL DATE APR 27 1966

HELIOCENTRIC CONIC DISTANCE 533.481

RL 149.00 LAL -.00 LOL 25.40 VL 27.126 GAL 4.12 AZL 89.02 HCA 246.36 SMA 126.92 ECC .18775 INC .9840 V1 29.905
RP 108.78 LAP -.90 LOP 271.76 VP 37.343 GAP 7.06 AZP 90.39 TAL 161.62 TAP 47.97 RCA 103.09 APO 150.75 V2 34.838
RC 126.245 GL 7.07 GP 20.62 ZAL 49.86 ZAP 147.19 ETS 33.04 ZAE 125.18 ETE 165.45 ZAC 31.59 ETC 183.68 CLP-153.90

PLANETOCENTRIC CONIC

C3 14.262 VHL 3.777 DLA -2.76 RAL 335.10 RAD 6567.6 VEL 11.647 PTH 2.04 VHP 5.284 DPA -2.41 RAP 297.21 ECC 1.2347

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 12 45	2050.94	-15.29	31.38	190.73	114.13	8 46 56	1450.9	-11.90	24.34
90.00	19 29 45	4866.42	19.76	210.93	191.77	69.29	20 50 52	4266.4	16.76	203.53
100.00	9 32 48	1792.70	-16.21	11.95	190.29	115.47	10 2 41	1192.7	-12.65	4.97
100.00	20 52 23	4599.89	20.70	190.94	191.37	67.94	22 9 3	3999.9	17.52	183.58
110.00	10 38 5	1588.32	-18.65	355.12	188.97	119.18	11 4 34	988.3	-14.62	348.32
110.00	22 3 35	4377.03	23.21	172.82	190.17	64.17	23 16 33	3777.0	19.54	165.60

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE 1.4392 TRA 2.7540 TC3-4.3696 BAU .8401 SGT 5758.4 SGR 968.1 SG3 492.3 ST 2520.4 SR 263.3 SS 1299.3
RDE -.0250 RRA -.5710 RC3 .5669 FAU .05159 RRT -.9193 RRF -.9151 RTF .9833 CRT -.6190 CRS .6010 CST -.9997
FDE 1.6463 FRA 2.9904 FC3-3.1315 BSP 18483 SGB 5839.2 R23 .0186 R13 -.9835 LSA 2840.1 MSA 208.9 SSA 15.6
BDE 1.4395 BRA 2.8126 BC3 4.4062 FSP -1709 SG1 5827.1 SG2 376.5 THA 171.18 EL1 2525.7 EL2 206.4 ALF 176.28

LAUNCH DATE OCT 19 1965 FLIGHT TIME 192.00 ARRIVAL DATE APR 29 1966

HELIOCENTRIC CONIC DISTANCE 539.377

RL 149.00 LAL -.00 LOL 25.40 VL 27.103 GAL 4.43 AZL 88.85 HCA 249.52 SMA 126.77 ECC .19113 INC 1.1538 V1 29.905
RP 108.80 LAP -1.08 LOP 274.92 VP 37.318 GAP 7.44 AZP 90.40 TAL 160.59 TAP 50.12 RCA 102.54 APO 151.00 V2 34.830
RC 128.581 GL 8.00 GP 19.42 ZAL 48.71 ZAP 149.19 ETS 33.63 ZAE 124.72 ETE 166.51 ZAC 32.86 ETC 181.15 CLP-155.60

PLANETOCENTRIC CONIC

C3 15.272 VHL 3.908 DLA -1.43 RAL 335.94 RAD 6567.6 VEL 11.690 PTH 2.06 VHP 5.466 DPA -3.40 RAP 298.76 ECC 1.2513

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 6 10	2107.59	-16.84	34.82	192.76	113.11	8 41 18	1507.6	-13.56	27.67
90.00	19 43 0	4840.27	19.12	209.28	193.32	68.71	21 3 41	4240.3	16.06	201.94
100.00	9 26 51	1847.34	-17.78	15.25	192.33	114.43	9 57 38	1247.3	-14.33	8.15
100.00	21 5 1	4575.74	20.07	189.42	192.92	67.37	22 21 17	3975.7	16.83	182.12
110.00	10 33 34	1638.49	-20.29	358.09	191.02	118.12	11 0 53	1038.5	-16.37	351.15
110.00	22 14 47	4357.36	22.62	171.59	191.67	63.66	23 27 25	3757.4	18.90	164.44

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE 1.5779 TRA 2.9248 TC3-4.1564 BAU .8545 SGT 5857.1 SGR 898.0 SG3 464.2 ST 2649.1 SR 244.2 SS 1294.3
RDE -.0053 RRA -.5541 RC3 .4888 FAU .04743 RRT -.9021 RRF -.8970 RTF .9826 CRT -.5144 CRS .5006 CST -.9998
FDE 1.6473 FRA 2.9422 FC3-2.6885 BSP 18824 SGB 5925.5 R23 .0157 R13 -.9828 LSA 2950.9 MSA 210.4 SSA 15.4
BDE 1.5779 BRA 2.9769 BC3 4.1851 FSP -1620 SG1 5913.1 SG2 383.8 THA 172.09 EL1 2652.1 EL2 209.2 ALF 177.27

LAUNCH DATE OCT 19 1965 FLIGHT TIME 194.00 ARRIVAL DATE MAY 1 1966

HELIOCENTRIC CONIC DISTANCE 545.243

RL 149.00 LAL -.00 LOL 25.40 VL 27.078 GAL 4.76 AZL 88.68 HCA 252.69 SMA 126.61 ECC .19477 INC 1.3167 V1 29.905
RP 108.82 LAP -1.26 LOP 278.09 VP 37.294 GAP 7.83 AZP 90.39 TAL 159.54 TAP 52.23 RCA 101.95 APO 151.27 V2 34.822
RC 130.911 GL 8.81 GP 18.33 ZAL 47.57 ZAP 151.06 ETS 34.31 ZAE 124.29 ETE 167.43 ZAC 34.28 ETC 179.00 CLP-157.21

PLANETOCENTRIC CONIC

C3 16.396 VHL 4.049 DLA -.22 RAL 336.81 RAD 6567.7 VEL 11.738 PTH 2.07 VHP 5.660 DPA -4.23 RAP 300.39 ECC 1.2698

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	8 0 41	2161.20	-18.24	38.13	194.92	112.04	8 36 42	1561.2	-15.09	30.87
90.00	19 55 27	4818.83	18.58	207.93	195.01	68.24	21 15 46	4218.8	15.47	200.64
100.00	9 21 55	1899.15	-19.21	18.43	194.49	113.36	9 53 34	1299.1	-15.88	11.22
100.00	21 16 54	4556.12	19.55	188.19	194.59	66.93	22 32 50	3956.1	16.26	180.94
110.00	10 29 56	1686.26	-21.79	.97	193.20	117.01	10 58 2	1086.3	-17.99	353.90
110.00	22 25 23	4341.77	22.14	170.63	193.30	63.27	23 37 45	3741.8	18.38	163.52

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE 1.7184 TRA 3.1044 TC3-3.9355 BAU .8676 SGT 5946.9 SGR 836.9 SG3 437.5 ST 2767.3 SR 230.3 SS 1285.9
RDE .0147 RRA -.5397 RC3 .4220 FAU .04347 RRT -.8827 RRF -.8767 RTF .9820 CRT -.3958 CRS .3860 CST -.9999
FDE 1.6425 FRA 2.8953 FC3-2.2954 BSP 19148 SGB 6005.5 R23 .0131 R13 -.9822 LSA 3052.8 MSA 211.9 SSA 15.1
BDE 1.7185 BRA 3.1509 BC3 3.9580 FSP -1534 SG1 5992.8 SG2 390.3 THA 172.89 EL1 2768.8 EL2 211.3 ALF 178.10

LAUNCH DATE OCT 19 1965 FLIGHT TIME 196.00 ARRIVAL DATE MAY 3 1966

HELIOCENTRIC CONIC DISTANCE 551.077

RL 149.00 LAL -.00 LOL 25.40 VL 27.054 GAL 5.11 AZL 88.53 HCA 255.85 SMA 126.45 ECC .19868 INC 1.4740 V1 29.905
RP 108.85 LAP -1.43 LOP 281.25 VP 37.270 GAP 8.23 AZP 90.36 TAL 158.48 TAP 54.33 RCA 101.32 APO 151.57 V2 34.816
RC 133.236 GL 9.50 GP 17.36 ZAL 46.44 ZAP 152.82 ETS 35.07 ZAE 123.88 ETE 168.23 ZAC 35.82 ETC 177.17 CLP-158.75

PLANETOCENTRIC CONIC

C3 17.645 VHL 4.201 DLA .88 RAL 337.71 RAD 6567.7 VEL 11.791 PTH 2.08 VHP 5.865 DPA -4.92 RAP 302.09 ECC 1.2904

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 56 6	2212.23	-19.51	41.33	197.19	110.94	8 32 58	1612.2	-16.49	33.96
90.00	20 7 12	4801.64	18.15	206.86	196.81	67.88	21 27 13	4201.6	14.99	199.61
100.00	9 17 51	1948.53	-20.51	21.52	196.77	112.24	9 50 20	1348.5	-17.31	14.18
100.00	21 28 8	4540.57	19.14	187.22	196.37	66.59	22 43 48	3940.6	15.81	180.01
110.00	10 27 2	1731.98	-23.18	3.80	195.49	115.86	10 55 54	1132.0	-19.51	356.58
110.00	22 35 26	4329.89	21.78	169.90	195.04	62.98	23 47 36	3729.9	17.98	162.83

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE 1.8613 TRA 3.2940 TC3-3.7083 BAU .8790 SGT 6028.5 SGR 783.0 SG3 412.2 ST 2876.0 SR 221.1 SS 1275.0
RDE .0349 RRA -.5272 RC3 .3643 FAU .03967 RRT -.8610 RRF -.8542 RTF .9814 CRT -.2687 CRS .2626 CST -.9999
FDE 1.6340 FRA 2.8508 FC3-1.9466 BSP 19435 SGB 6079.1 R23 .0110 R13 -.9815 LSA 3146.5 MSA 213.2 SSA 14.9
BDE 1.8616 BRA 3.3359 BC3 3.7262 FSP -1451 SG1 6066.2 SG2 395.8 THA 173.59 EL1 2876.6 EL2 213.0 ALF 178.81

LAUNCH DATE OCT 19 1965 FLIGHT TIME 198.00 ARRIVAL DATE MAY 5 1966

HELIOCENTRIC CONIC DISTANCE 556.876

RL 149.00 LAL -.00 LOL 25.40 VL 27.029 GAL 5.48 AZL 88.37 HCA 259.02 SMA 126.28 ECC .20290 INC 1.6269 V1 29.905
RP 108.87 LAP -1.60 LOP 284.41 VP 37.246 GAP 8.64 AZP 90.31 TAL 157.40 TAP 56.41 RCA 100.66 APO 151.91 V2 34.809
RC 135.553 GL 10.08 GP 16.48 ZAL 45.33 ZAP 154.48 ETS 35.93 ZAE 123.49 ETE 168.93 ZAC 37.45 ETC 175.63 CLP-160.23

PLANETOCENTRIC CONIC

C3 19.034 VHL 4.363 DLA 1.88 RAL 338.63 RAD 6567.8 VEL 11.850 PTH 2.10 VHP 6.083 DPA -5.49 RAP 303.85 ECC 1.3132

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 52 20	2261.05	-20.67	44.45	199.56	109.80	8 30 1	1661.1	-17.78	36.96
90.00	20 18 18	4788.28	17.80	206.03	198.71	67.61	21 38 6	4188.3	14.61	198.81
100.00	9 14 33	1995.85	-21.70	24.53	199.15	111.08	9 47 49	1395.8	-18.64	17.07
100.00	21 38 46	4528.72	18.81	186.49	198.25	66.33	22 54 14	3928.7	15.45	179.31
110.00	10 24 48	1775.95	-24.45	6.57	197.89	114.66	10 54 24	1175.9	-20.92	359.21
110.00	22 44 59	4321.38	21.52	169.38	196.88	62.77	23 57 1	3721.4	17.69	162.34

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE 2.0066 TRA 3.4935 TC3-3.4793 BAU .8890 SGT 6102.0 SGR 735.5 SG3 388.4 ST 2974.8 SR 216.2 SS 1262.3
RDE .0553 RRA -.5163 RC3 .3146 FAU .03608 RRT -.8370 RRF -.8294 RTF .9807 CRT -.1396 CRS .1368 CST -.9999
FDE 1.6224 FRA 2.8089 FC3-1.6412 BSP 19712 SGB 6146.1 R23 .0090 R13 -.9808 LSA 3231.6 MSA 214.2 SSA 14.7
BDE 2.0073 BRA 3.5315 BC3 3.4935 FSP -1371 SG1 6133.1 SG2 400.4 THA 174.21 EL1 2974.9 EL2 214.1 ALF 179.42

LAUNCH DATE OCT 19 1965 FLIGHT TIME 200.00 ARRIVAL DATE MAY 7 1966

HELIOCENTRIC CONIC DISTANCE 562.638

RL 149.00 LAL -.00 LOL 25.40 VL 27.003 GAL 5.88 AZL 88.22 HCA 262.18 SMA 126.12 ECC .20745 INC 1.7765 V1 29.905
RP 108.88 LAP -1.76 LOP 287.57 VP 37.222 GAP 9.06 AZP 90.24 TAL 156.30 TAP 58.48 RCA 99.96 APO 152.28 V2 34.804
RC 137.863 GL 10.58 GP 15.68 ZAL 44.23 ZAP 156.04 ETS 36.92 ZAE 123.12 ETE 169.55 ZAC 39.17 ETC 174.33 CLP-161.65

PLANETOCENTRIC CONIC

C3 20.578 VHL 4.536 DLA 2.80 RAL 339.56 RAD 6567.8 VEL 11.915 PTH 2.12 VHP 6.314 DPA -5.95 RAP 305.66 ECC 1.3387

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 49 15	2307.96	-21.72	47.48	202.02	108.63	8 27 43	1708.0	-18.98	39.89
90.00	20 28 48	4778.44	17.55	205.42	200.69	67.41	21 48 27	4178.4	14.33	198.22
100.00	9 11 54	2041.38	-22.78	27.48	201.62	109.89	9 45 55	1441.4	-19.87	19.90
100.00	21 48 51	4520.25	18.58	185.97	200.23	66.15	23 4 11	3920.3	15.20	178.81
110.00	10 23 8	1818.41	-25.63	9.31	200.38	113.43	10 53 27	1218.4	-22.24	1.80
110.00	22 54 6	4315.99	21.35	169.06	198.82	62.65	24 6 2	3716.0	17.51	162.03

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE 2.1579 TRA 3.7076 TC3-3.2435 BAU .8954 SGT 6170.1 SGR 693.1 SG3 366.3 ST 3068.3 SR 214.8 SS 1249.8
RDE .0755 RRA -.5071 RC3 .2704 FAU .03252 RRT -.8110 RRF -.8026 RTF .9801 CRT -.0170 CRS .0172 CST -.9999
FDE 1.6113 FRA 2.7725 FC3-1.3681 BSP 19887 SGB 6208.9 R23 .0074 R13 -.9801 LSA 3313.1 MSA 214.8 SSA 14.5
BDE 2.1592 BRA 3.7421 BC3 3.2748 FSP -1289 SG1 6195.7 SG2 403.9 THA 174.77 EL1 3068.3 EL2 214.8 ALF 179.93

LAUNCH DATE OCT 19 1965 FLIGHT TIME 202.00 ARRIVAL DATE MAY 9 1966

HELIOCENTRIC CONIC DISTANCE 568.359

RL 149.00 LAL -.00 LOL 25.40 VL 26.978 GAL 6.30 AZL 88.08 HCA 265.34 SMA 125.95 ECC .21236 INC 1.9238 V1 29.905
RP 108.90 LAP -1.92 LOP 290.74 VP 37.199 GAP 9.50 AZP 90.16 TAL 155.19 TAP 60.53 RCA 99.21 APO 152.70 V2 34.799
RC 140.164 GL 10.99 GP 14.96 ZAL 43.16 ZAP 157.51 ETS 38.05 ZAE 122.78 ETE 170.09 ZAC 40.94 ETC 173.24 CLP-163.02

PLANETOCENTRIC CONIC

C3 22.298 VHL 4.722 DLA 3.63 RAL 340.50 RAD 6567.9 VEL 11.987 PTH 2.14 VHP 6.558 DPA -6.30 RAP 307.51 ECC 1.3670

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 46 47	2353.21	-22.67	50.46	204.57	107.43	8 26 1	1753.2	-20.08	42.75
90.00	20 38 47	4771.85	17.37	205.02	202.76	67.28	21 58 18	4171.9	14.15	197.83
100.00	9 9 50	2085.37	-23.77	30.37	204.18	108.68	9 44 35	1485.4	-21.00	22.67
100.00	21 58 25	4514.93	18.43	185.64	202.28	66.04	23 13 40	3914.9	15.04	178.49
110.00	10 21 58	1859.58	-26.72	12.02	202.97	112.16	10 52 58	1259.6	-23.48	4.36
110.00	23 2 46	4313.48	21.27	168.90	200.83	62.59	24 14 40	3713.5	17.43	161.88

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE 2.3090 TRA 3.9296 TC3-3.0173 BAU .9021 SGT 6228.5 SGR 655.0 SG3 345.3 ST 3148.1 SR 216.3 SS 1234.3
RDE .0965 RRA -.4982 RC3 .2331 FAU .02933 RRT -.7827 RRF -.7736 RTF .9795 CRT .0984 CRS -.0957 CST -.9999
FDE 1.5956 FRA 2.7361 FC3-1.1389 BSP 20134 SGB 6262.9 R23 .0059 R13 -.9796 LSA 3381.5 MSA 215.2 SSA 14.3
BDE 2.3110 BRA 3.9610 BC3 3.0263 FSP -1219 SG1 6249.7 SG2 406.3 THA 175.27 EL1 3148.2 EL2 215.2 ALF .39

LAUNCH DATE OCT 19 1965 FLIGHT TIME 204.00 ARRIVAL DATE MAY 11 1966

HELIOCENTRIC CONIC DISTANCE 574.034

RL 149.00 LAL -.00 LOL 25.40 VL 26.952 GAL 6.75 AZL 87.93 HCA 268.50 SMA 125.79 ECC .21765 INC 2.0698 V1 29.905
RP 108.91 LAP -2.07 LOP 293.90 VP 37.176 GAP 9.96 AZP 90.05 TAL 154.08 TAP 62.58 RCA 98.41 APO 153.17 V2 34.795
RC 142.456 GL 11.33 GP 14.31 ZAL 42.09 ZAP 158.91 ETS 39.34 ZAE 122.46 ETE 170.57 ZAC 42.77 ETC 172.32 CLP-164.34

PLANETOCENTRIC CONIC

C3 24.215 VHL 4.921 DLA 4.39 RAL 341.44 RAD 6568.0 VEL 12.066 PTH 2.16 VHP 6.816 DPA -6.55 RAP 309.40 ECC 1.3985

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 44 52	2397.02	-23.54	53.38	207.19	106.21	8 24 49	1797.0	-21.09	45.56
90.00	20 48 14	4768.29	17.28	204.80	204.90	67.21	22 7 42	4168.3	14.04	197.61
100.00	9 8 16	2128.00	-24.67	33.22	206.82	107.43	9 43 44	1528.0	-22.05	25.40
100.00	22 7 31	4512.54	18.37	185.50	204.40	65.99	23 22 44	3912.5	14.97	178.35
110.00	10 21 14	1899.63	-27.72	14.70	205.64	110.85	10 52 54	1299.6	-24.63	6.90
110.00	23 11 2	4313.67	21.27	168.92	202.91	62.59	24 22 56	3713.7	17.43	161.89

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE 2.4641 TRA 4.1648 TC3-2.7936 BAU .9067 SGT 6280.4 SGR 620.6 SG3 325.6 ST 3219.7 SR 219.8 SS 1218.3
RDE .1177 RRA -.4900 RC3 .2003 FAU .02631 RRT -.7522 RRF -.7426 RTF .9791 CRT .2012 CRS -.1966 CST -.9999
FDE 1.5795 FRA 2.7033 FC3 -.9406 BSP 20354 SGB 6311.0 R23 .0045 R13 -.9791 LSA 3442.8 MSA 215.3 SSA 14.1
BDE 2.4669 BRA 4.1935 BC3 2.8007 FSP -1152 SG1 6297.8 SG2 407.8 THA 175.73 EL1 3220.0 EL2 215.3 ALF .79

LAUNCH DATE OCT 19 1965 FLIGHT TIME 206.00 ARRIVAL DATE MAY 13 1966

DISTANCE 579.659

HELIOCENTRIC CONIC

RL 149.00 LAL -.00 LOL 25.40 VL 26.926 GAL 7.23 AZL 87.78 HCA 271.66 SMA 125.62 ECC .22338 INC 2.2153 V1 29.905
RP 108.92 LAP -2.21 LOP 297.06 VP 37.154 GAP 10.44 AZP 89.94 TAL 152.96 TAP 64.62 RCA 97.56 APO 153.68 V2 34.791
RC 144.737 GL 11.60 GP 13.72 ZAL 41.05 ZAP 160.23 ETS 40.82 ZAE 122.15 ETE 171.01 ZAC 44.65 ETC 171.55 CLP-165.63

PLANETOCENTRIC CONIC

C3 26.358 VHL 5.134 DLA 5.08 RAL 342.39 RAD 6568.1 VEL 12.155 PTH 2.18 VHP 7.090 DPA -6.71 RAP 311.32 ECC 1.4338

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 43 26	2439.55	-24.32	56.25	209.88	104.98	8 24 5	1839.5	-22.02	48.33
90.00	20 57 13	4767.57	17.26	204.75	207.10	67.20	22 16 40	4167.6	14.02	197.57
100.00	9 7 10	2169.46	-25.49	36.03	209.52	106.17	9 43 19	1569.5	-23.03	28.10
100.00	22 16 10	4512.89	18.38	185.52	206.59	66.00	23 31 22	3912.9	14.98	178.37
110.00	10 20 54	1938.72	-28.64	17.37	208.39	109.52	10 53 12	1338.7	-25.71	9.42
110.00	23 18 55	4316.40	21.36	169.08	205.07	62.66	24 30 52	3716.4	17.53	162.05

DIFFERENTIAL CORRECTIONS

TDE 2.6237 TRA 4.4135 TC3-2.5746 BAU .9092
RDE .1394 RRA -.4821 RC3 .1716 FAU .02345
FDE 1.5634 FRA 2.6740 FC3 -.7702 BSP 20558
BDE 2.6274 BRA 4.4398 BC3 2.5803 FSP -1089

MID-COURSE EXECUTION ACCURACY

SGT 6325.7 SGR 589.0 SG3 307.2
RRT -.7196 RRF -.7095 RTF .9787
SGB 6353.1 R23 .0034 R13 -.9787
SG1 6340.0 SG2 408.1 THA 176.15

ORBIT DETERMINATION ACCURACY

ST 3283.4 SR 224.7 SS 1202.4
CRT .2909 CRS -.2848 CST -.9999
LSA 3497.2 MSA 215.1 SSA 13.9
EL1 3284.0 EL2 214.9 ALF 1.15

LAUNCH DATE OCT 19 1965 FLIGHT TIME 208.00 ARRIVAL DATE MAY 15 1966

DISTANCE 585.229

HELIOCENTRIC CONIC

RL 149.00 LAL -.00 LOL 25.40 VL 26.899 GAL 7.74 AZL 87.64 HCA 274.82 SMA 125.45 ECC .22957 INC 2.3612 V1 29.905
RP 108.93 LAP -2.35 LOP 300.22 VP 37.132 GAP 10.93 AZP 89.80 TAL 151.84 TAP 66.65 RCA 96.65 APO 154.25 V2 34.788
RC 147.008 GL 11.82 GP 13.18 ZAL 40.03 ZAP 161.49 ETS 42.51 ZAE 121.86 ETE 171.39 ZAC 46.55 ETC 170.89 CLP-166.88

PLANETOCENTRIC CONIC

C3 28.756 VHL 5.362 DLA 5.71 RAL 343.33 RAD 6568.2 VEL 12.253 PTH 2.20 VHP 7.381 DPA -6.79 RAP 313.26 ECC 1.4733

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 42 25	2480.95	-25.01	59.09	212.64	103.72	8 23 46	1881.0	-22.88	51.06
90.00	21 5 43	4769.52	17.31	204.87	209.36	67.24	22 25 13	4169.5	14.08	197.69
100.00	9 6 28	2209.88	-26.23	38.81	212.89	104.88	9 43 18	1609.9	-23.92	30.76
100.00	22 24 22	4515.82	18.46	185.70	208.84	66.06	23 39 38	3915.8	15.07	178.54
110.00	10 20 54	1976.95	-29.48	20.03	211.20	108.15	10 53 51	1377.0	-26.72	11.94
110.00	23 26 26	4321.52	21.52	169.39	207.28	62.78	24 38 27	3721.5	17.70	162.35

DIFFERENTIAL CORRECTIONS

TDE 2.7923 TRA 4.6809 TC3-2.3553 BAU .9072
RDE .1611 RRA -.4744 RC3 .1458 FAU .02062
FDE 1.5503 FRA 2.6506 FC3 -.6207 BSP 20652
BDE 2.7969 BRA 4.7049 BC3 2.3598 FSP -1023

MID-COURSE EXECUTION ACCURACY

SGT 6367.5 SGR 559.9 SG3 290.3
RRT -.6849 RRF -.6744 RTF .9783
SGB 6392.0 R23 .0023 R13 -.9783
SG1 6379.1 SG2 407.3 THA 176.54

ORBIT DETERMINATION ACCURACY

ST 3343.7 SR 230.2 SS 1188.5
CRT .3672 CRS -.3601 CST -.9999
LSA 3549.6 MSA 214.3 SSA 13.6
EL1 3344.7 EL2 214.0 ALF 1.45

LAUNCH DATE OCT 19 1965 FLIGHT TIME 210.00 ARRIVAL DATE MAY 17 1966

DISTANCE 590.735

HELIOCENTRIC CONIC

RL 149.00 LAL -.00 LOL 25.40 VL 26.873 GAL 8.28 AZL 87.49 HCA 277.98 SMA 125.28 ECC .23627 INC 2.5085 V1 29.905
RP 108.94 LAP -2.48 LOP 303.38 VP 37.111 GAP 11.46 AZP 89.65 TAL 150.72 TAP 68.69 RCA 95.68 APO 154.88 V2 34.786
RC 149.266 GL 11.98 GP 12.69 ZAL 39.03 ZAP 162.68 ETS 44.44 ZAE 121.58 ETE 171.74 ZAC 48.49 ETC 170.35 CLP-168.11

PLANETOCENTRIC CONIC

C3 31.448 VHL 5.608 DLA 6.27 RAL 344.26 RAD 6568.3 VEL 12.362 PTH 2.23 VHP 7.690 DPA -6.79 RAP 315.23 ECC 1.5176

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 41 48	2521.35	-25.64	61.88	215.44	102.45	8 23 49	1921.3	-23.67	53.76
90.00	21 13 47	4774.00	17.43	205.15	211.67	67.32	22 33 21	4174.0	14.21	197.95
100.00	9 6 7	2249.37	-26.89	41.56	215.12	103.58	9 43 37	1649.4	-24.75	33.41
100.00	22 32 8	4521.21	18.61	186.03	211.14	66.17	23 47 30	3921.2	15.23	178.86
110.00	10 21 11	2014.44	-30.24	22.68	214.09	106.75	10 54 46	1414.4	-27.65	14.45
110.00	23 33 34	4328.90	21.75	169.84	209.55	62.95	24 45 43	3728.9	17.95	162.77

DIFFERENTIAL CORRECTIONS

TDE 2.9622 TRA 4.9604 TC3-2.1489 BAU .9050
RDE .1837 RRA -.4660 RC3 .1238 FAU .01809
FDE 1.5349 FRA 2.6283 FC3 -.4981 BSP 20831
BDE 2.9679 BRA 4.9822 BC3 2.1525 FSP -968

MID-COURSE EXECUTION ACCURACY

SGT 6400.3 SGR 532.8 SG3 274.2
RRT -.6477 RRF -.6371 RTF .9782
SGB 6422.4 R23 .0013 R13 -.9782
SG1 6409.6 SG2 405.4 THA 176.90

ORBIT DETERMINATION ACCURACY

ST 3391.8 SR 236.4 SS 1173.0
CRT .4339 CRS -.4260 CST -.9999
LSA 3590.3 MSA 213.2 SSA 13.4
EL1 3393.3 EL2 212.9 ALF 1.74

LAUNCH DATE OCT 19 1965 FLIGHT TIME 212.00 ARRIVAL DATE MAY 19 1966

DISTANCE 596.169

HELIOCENTRIC CONIC

RL 149.00 LAL -.00 LOL 25.40 VL 26.847 GAL 8.87 AZL 87.34 HCA 281.13 SMA 125.12 ECC .24355 INC 2.6581 V1 29.905
RP 108.94 LAP -2.61 LOP 306.55 VP 37.091 GAP 12.01 AZP 89.49 TAL 149.60 TAP 70.74 RCA 94.64 APO 155.59 V2 34.785
RC 151.511 GL 12.09 GP 12.24 ZAL 38.06 ZAP 163.80 ETS 46.67 ZAE 121.31 ETE 172.06 ZAC 50.44 ETC 169.88 CLP-169.31

PLANETOCENTRIC CONIC

C3 34.478 VHL 5.872 DLA 6.79 RAL 345.18 RAD 6568.4 VEL 12.484 PTH 2.26 VHP 8.021 DPA -6.72 RAP 317.20 ECC 1.5674

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 41 31	2560.82	-26.19	64.64	218.30	101.18	8 24 12	1960.8	-24.38	56.44
90.00	21 21 24	4780.89	17.61	205.57	214.04	67.46	22 41 4	4180.9	14.40	198.36
100.00	9 6 6	2288.01	-27.47	44.28	218.00	102.26	9 44 14	1688.0	-25.51	36.03
100.00	22 39 30	4528.93	18.82	186.50	213.49	66.34	23 54 59	3928.9	15.46	179.32
110.00	10 21 45	2051.26	-30.94	25.33	217.03	105.32	10 55 57	1451.3	-28.52	16.96
110.00	23 40 20	4338.45	22.04	170.43	211.87	63.19	24 52 38	3738.4	18.27	163.33

DIFFERENTIAL CORRECTIONS

TDE 3.1389 TRA 5.2573 TC3-1.9487 BAU .8995
RDE .2068 RRA -.4570 RC3 .1042 FAU .01568
FDE 1.5210 FRA 2.6098 FC3 -.3938 BSP 20990
BDE 3.1457 BRA 5.2771 BC3 1.9515 FSP -916

MID-COURSE EXECUTION ACCURACY

SGT 6427.1 SGR 507.3 SG3 259.1
RRT -.6079 RRF -.5973 RTF .9781
SGB 6447.1 R23 .0005 R13 -.9781
SG1 6434.5 SG2 402.4 THA 177.24

ORBIT DETERMINATION ACCURACY

ST 3433.4 SR 242.7 SS 1158.5
CRT .4910 CRS -.4826 CST -.9999
LSA 3625.5 MSA 211.7 SSA 13.1
EL1 3435.4 EL2 211.3 ALF 2.00

LAUNCH DATE OCT 19 1965 FLIGHT TIME 214.00 ARRIVAL DATE MAY 21 1966

HELIOCENTRIC CONIC DISTANCE 601.522

RL 149.00 LAL -.00 LOL 25.40 VL 26.820 GAL 9.49 AZL 87.19 HCA 284.29 SMA 124.95 ECC .25147 INC 2.8109 V1 29.905
RP 108.94 LAP -2.72 LOP 309.71 VP 37.071 GAP 12.60 AZP 89.31 TAL 148.50 TAP 72.79 RCA 93.53 APO 156.37 V2 34.784
RC 153.743 GL 12.16 GP 11.84 ZAL 37.11 ZAP 164.87 ETS 49.22 ZAE 121.04 ETE 172.35 ZAC 52.42 ETC 169.49 CLP-170.50

PLANETOCENTRIC CONIC

C3 37.899 VHL 6.156 DLA 7.25 RAL 346.08 RAD 6568.5 VEL 12.620 PTH 2.29 VHP 8.374 OPA -6.58 RAP 319.19 ECC 1.6237

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 41 33	2599.43	-26.67	67.36	221.19	99.89	8 24 53	1999.4	-25.03	59.08
90.00	21 28 34	4790.07	17.85	206.14	216.44	67.65	22 48 24	4190.1	14.66	198.91
100.00	9 6 22	2325.87	-27.99	46.97	220.92	100.94	9 45 8	1725.9	-26.20	38.63
100.00	22 46 26	4538.87	19.09	187.12	215.89	66.55	24 2 5	3938.9	15.76	179.91
110.00	10 22 33	2087.45	-31.56	27.97	220.02	103.88	10 57 21	1487.5	-29.33	19.47
110.00	23 46 45	4350.05	22.40	171.14	214.24	63.48	24 59 15	3750.0	18.65	164.01

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE 3.3231 TRA 5.5737 TC3-1.7560 BAU .8908 SGT 6448.6 SGR 483.3 SG3 245.0 ST 3468.5 SR 248.9 SS 1145.0
RDE .2307 RRA -.4471 RC3 .0871 FAU .01340 RRT -.5652 RRF -.5550 RTF .9783 CRT .5402 CRS -.5316 CST -.9999
FDE 1.5085 FRA 2.5958 FC3 -.3061 BSP 21126 SGB 6466.7 R23 -.0001 R13 -.9783 LSA 3655.1 MSA 209.7 SSA 12.9
BDE 3.3311 BRA 5.5916 BC3 1.7581 FSP -866 SG1 6454.4 SG2 398.3 THA 177.56 EL1 3471.1 EL2 209.3 ALF 2.23

LAUNCH DATE OCT 19 1965 FLIGHT TIME 216.00 ARRIVAL DATE MAY 23 1966

HELIOCENTRIC CONIC DISTANCE 606.781

RL 149.00 LAL -.00 LOL 25.40 VL 26.794 GAL 10.17 AZL 87.03 HCA 287.45 SMA 124.78 ECC .26010 INC 2.9681 V1 29.905
RP 108.94 LAP -2.83 LOP 312.87 VP 37.052 GAP 13.23 AZP 89.11 TAL 147.42 TAP 74.86 RCA 92.33 APO 157.24 V2 34.784
RC 155.962 GL 12.20 GP 11.46 ZAL 36.19 ZAP 165.87 ETS 52.17 ZAE 120.78 ETE 172.62 ZAC 54.40 ETC 169.15 CLP-171.67

PLANETOCENTRIC CONIC

C3 41.776 VHL 6.463 DLA 7.67 RAL 346.97 RAD 6568.6 VEL 12.773 PTH 2.32 VHP 8.753 OPA -6.39 RAP 321.17 ECC 1.6875

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 41 52	2637.24	-27.08	70.05	224.12	98.60	8 25 50	2037.2	-25.61	61.69
90.00	21 35 19	4801.46	18.14	206.85	218.89	67.88	22 55 20	4201.5	14.98	199.60
100.00	9 6 54	2362.99	-28.44	49.64	223.87	99.60	9 46 17	1763.0	-26.82	41.21
100.00	22 52 58	4550.94	19.42	187.87	218.33	66.81	24 8 49	3950.9	16.11	180.63
110.00	10 23 34	2123.07	-32.11	30.60	223.05	102.41	10 58 57	1523.1	-30.07	21.98
110.00	23 52 48	4363.62	22.81	171.98	216.65	63.82	25 5 31	3763.6	19.10	164.80

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE 3.5205 TRA 5.9157 TC3-1.5661 BAU .8756 SGT 6468.1 SGR 460.4 SG3 232.1 ST 3501.9 SR 254.6 SS 1134.6
RDE .2550 RRA -.4363 RC3 .0718 FAU .01110 RRT -.5195 RRF -.5097 RTF .9785 CRT .5827 CRS -.5741 CST -.9999
FDE 1.5002 FRA 2.5882 FC3 -.2300 BSP 21137 SGB 6484.5 R23 -.0007 R13 -.9785 LSA 3684.0 MSA 207.2 SSA 12.6
BDE 3.5298 BRA 5.9318 BC3 1.5877 FSP -814 SG1 6472.5 SG2 393.1 THA 177.87 EL1 3505.0 EL2 206.7 ALF 2.43

LAUNCH DATE OCT 19 1965 FLIGHT TIME 218.00 ARRIVAL DATE MAY 25 1966

HELIOCENTRIC CONIC DISTANCE 611.931

RL 149.00 LAL -.00 LOL 25.40 VL 26.767 GAL 10.90 AZL 86.87 HCA 290.61 SMA 124.62 ECC .26952 INC 3.1308 V1 29.905
RP 108.94 LAP -2.93 LOP 316.03 VP 37.034 GAP 13.90 AZP 88.90 TAL 146.35 TAP 76.96 RCA 91.03 APO 158.21 V2 34.785
RC 158.168 GL 12.20 GP 11.12 ZAL 35.31 ZAP 166.80 ETS 55.58 ZAE 120.51 ETE 172.87 ZAC 56.38 ETC 168.86 CLP-172.84

PLANETOCENTRIC CONIC

C3 46.185 VHL 6.796 DLA 8.03 RAL 347.83 RAD 6568.7 VEL 12.944 PTH 2.36 VHP 9.161 OPA -6.14 RAP 323.15 ECC 1.7601

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 42 27	2674.24	-27.43	72.71	227.07	97.32	8 27 1	2074.2	-26.13	64.28
90.00	21 41 37	4814.95	18.49	207.69	221.36	68.16	23 1 52	4214.9	15.36	200.41
100.00	9 7 40	2399.38	-28.83	52.27	226.85	98.27	9 47 39	1799.4	-27.39	43.77
100.00	22 59 5	4565.04	19.79	188.75	220.80	67.13	24 15 10	3965.0	16.52	181.48
110.00	10 24 46	2158.12	-32.59	33.22	226.11	100.93	11 0 44	1558.1	-30.74	24.49
110.00	0 2 24	4379.07	23.27	172.94	219.11	64.22	1 15 23	3779.1	19.61	165.72

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE 3.7222 TRA 6.2755 TC3-1.3897 BAU .8588 SGT 6478.1 SGR 438.5 SG3 219.7 ST 3524.3 SR 260.1 SS 1123.7
RDE .2805 RRA -.4235 RC3 .0587 FAU .00903 RRT -.4700 RRF -.4608 RTF .9789 CRT .6204 CRS -.6119 CST -.9999
FDE 1.4911 FRA 2.5825 FC3 -.1693 BSP 21260 SGB 6492.9 R23 -.0011 R13 -.9789 LSA 3702.6 MSA 204.3 SSA 12.3
BDE 3.7327 BRA 6.2898 BC3 1.3909 FSP -772 SG1 6481.4 SG2 386.9 THA 178.17 EL1 3528.0 EL2 203.8 ALF 2.63

LAUNCH DATE OCT 19 1965 FLIGHT TIME 220.00 ARRIVAL DATE MAY 27 1966

HELIOCENTRIC CONIC DISTANCE 616.953

RL 149.00 LAL -.00 LOL 25.40 VL 26.741 GAL 11.69 AZL 86.70 HCA 293.76 SMA 124.46 ECC .27983 INC 3.3005 V1 29.905
RP 108.94 LAP -3.02 LOP 319.20 VP 37.016 GAP 14.62 AZP 88.67 TAL 145.32 TAP 79.08 RCA 89.63 APO 159.28 V2 34.787
RC 160.359 GL 12.16 GP 10.81 ZAL 34.45 ZAP 167.66 ETS 59.51 ZAE 120.24 ETE 173.11 ZAC 58.37 ETC 168.61 CLP-174.00

PLANETOCENTRIC CONIC

C3 51.220 VHL 7.157 DLA 8.35 RAL 348.67 RAD 6568.9 VEL 13.137 PTH 2.40 VHP 9.602 OPA -5.84 RAP 325.13 ECC 1.8430

LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG
90.00	7 43 15	2710.44	-27.72	75.32	230.03	96.04	8 28 26	2110.4	-26.59	66.83
90.00	21 47 28	4830.47	18.88	208.66	223.87	68.49	23 7 58	4230.5	15.79	201.35
100.00	9 8 39	2435.04	-29.15	54.88	229.85	96.93	9 49 14	1835.0	-27.88	46.30
100.00	23 4 46	4581.11	20.21	189.75	223.29	67.50	24 21 7	3981.1	16.99	182.44
110.00	10 26 7	2192.59	-33.01	35.82	229.20	99.44	11 2 40	1592.6	-31.35	26.99
110.00	0 7 42	4396.32	23.77	174.03	221.59	64.68	1 20 59	3796.3	20.17	166.74

DIFFERENTIAL CORRECTIONS MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

TDE 3.9351 TRA 6.6613 TC3-1.2211 BAU .8368 SGT 6483.2 SGR 417.7 SG3 208.2 ST 3541.5 SR 265.1 SS 1114.7
RDE .3070 RRA -.4088 RC3 .0474 FAU .00703 RRT -.4162 RRF -.4079 RTF .9795 CRT .6538 CRS -.6455 CST -.9999
FDE 1.4846 FRA 2.5820 FC3 -.1188 BSP 21359 SGB 6496.7 R23 -.0014 R13 -.9795 LSA 3716.8 MSA 200.9 SSA 11.9
BDE 3.9470 BRA 6.6739 BC3 1.2220 FSP -731 SG1 6485.6 SG2 379.6 THA 178.46 EL1 3545.7 EL2 200.3 ALF 2.81